TRIMATRIX LABORATORIES

SECTION - D

GC/MS VOLATILE ORGANICS

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Individual sample results relate only to the sample tested.

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STATEMENT OF DATA QUALIFICATIONS

Volatile Organic Compounds by EPA Method 8260B

Qualification: The corresponding CCV for this analytical batch had a recovery exceeding the upper control limit of the method. A positive result for this analyte in any associated samples are considered estimated. Non-detectable results are not qualified.

Analysis: USEPA-8260B

Sample/Analyte:

1207258-01	106102	Bromomethane
1207258-02	106031	Bromomethane
1207258-03	106101	Bromomethane
1207292-01	106098	Bromomethane
1207292-02	106013	Bromomethane
1207292-03	106026	Bromomethane
1207368-01	106038	Bromomethane
1207368-02	106040	Bromomethane
1207370-01	106104	Bromomethane
1207370-02	10623	Bromomethane
1207404-01	106063	Bromomethane
1207404-02	106055	Bromomethane
1208015-01	106051	Carbon Disulfide
1208015-02	106035	Carbon Disulfide
1208015-03	106036	Carbon Disulfide
1208057-01	106037	Carbon Disulfide
1208169-01	106076	Carbon Disulfide
1208169-02	1064	Carbon Disulfide
1208170-01	106100	Carbon Disulfide
1208170-02	106099	Carbon Disulfide
1208192-01	106066	Carbon Disulfide

Qualification: The corresponding CCV for this analytical batch had a recovery below the lower control limit of the method. Positive results for this analyte in any associated samples are considered estimated; non-detectable results are considered approximate.

Analysis: USEPA-8260B

Sample/Analyte:

1208169-01	106076	1,2-Dibromo-3-chloropropane
1208169-02	1064	1,2-Dibromo-3-chloropropane
1208170-01	106100	1,2-Dibromo-3-chloropropane
1208170-02	106099	1,2-Dibromo-3-chloropropane
1208192-01	106066	1,2-Dibromo-3-chloropropane

Qualification: The analyte concentration in the associated MB was greater than or equal to the RL. The positive sample result, which was less than 5 times the MB value, is considered estimated.

Analysis: USEPA-8260B

Sample/Analyte:

1208015-01	106051	Acetone
1208015-02	106035	Acetone
1208015-03	106036	Acetone

Qualification: The analyte concentration in the associated MB was greater than the MDL but less than the RL. The positive sample result, which was less than 5 times the MB value, is considered estimated.

Analysis: USEPA-8260B

Sample/Analyte:

1207057-01	KAFB015	Methyl Acetate
1207057-02	KAFB016	Methyl Acetate
1207122-01	106042	Methyl Acetate
1207122-02	106043	Methyl Acetate
1207213-01	106058	Methyl Acetate

Continued on next page

STATEMENT OF DATA QUALIFICATIONS

Volatile Organic Compounds by EPA Method 8260B (Continued)

Qualification: The analyte concentration in the associated MB was greater than the MDL but less than the RL. The positive sample result, which was less than 5 times the MB value, is considered estimated.

Analysis: USEPA-8260B

Sample/Analyte:			
	1207213-02	106057	Methyl Acetate
	1207239-01	106107	Methyl Acetate
	1207239-02	106106	Methyl Acetate
	1207239-03	106105	Methyl Acetate
	1208015-01	106051	Methyl Acetate
	1208015-02	106035	Methyl Acetate
	1208015-03	106036	Methyl Acetate
	1208057-01	106037	Methyl Acetate
	1208169-01	106076	Methylene Chloride

TriMatrix Laboratories, Inc.

TechLaw

Project: KNM

SDG: KNM070512

USEPA-8260B

SAMPLE ID SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

SDG: KNM070512

Project: KNM

Client Sample Id:	Lab Sample Id:
KAFB015	1207057-01
KAFB016	1207057-02
106042	1207122-01
106043	1207122-02
106058	1207213-01
106057	1207213-02
106107	1207239-01
106106	1207239-02
106105	1207239-03
106102	1207258-01
106031	1207258-02
106101	1207258-03
106098	1207292-01
106013	1207292-02
106026	1207292-03
106038	1207368-01
106040	1207368-02
106104	1207370-01
10623	1207370-02
106063	1207404-01
106055	1207404-02
106051	1208015-01
106035	1208015-02
106036	1208015-03
106037	1208057-01
106076	1208169-01
1064	1208169-02
106100	1208170-01
106099	1208170-02
106066	1208192-01

SURROGATE STANDARD RECOVERY AND RT SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2G19009

SDG: KNM070512
Project: KNM
Calibration: 2G19002
Instrument: 224

Lab Sample Id Surrogate Compound Name	RT	Calibration Mean RT	RT Diff	RT Diff Limit	% Recovery	Recovery Limits	Q
Calibration Check (2G19009-CCV1)		**Lab File ID: CCV0718.D**		**Analyzed: 07/18/12 08:38**			
Dibromofluoromethane	5.50	5.51	-0.01	+/-0.5	103	75 - 125	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	101	75 - 125	
Toluene-d8	8.91	8.91	0.00	+/-0.5	101	75 - 125	
4-Bromofluorobenzene	12.30	12.30	0.00	+/-0.5	101	75 - 125	
LCS (1208743-BS1)		**Lab File ID: BS0718.D**		**Analyzed: 07/18/12 09:05**			
Dibromofluoromethane	5.50	5.51	-0.01	+/-0.5	100	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	101	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	100	85 - 113	
4-Bromofluorobenzene	12.30	12.30	0.00	+/-0.5	100	82 - 110	
Blank (1208743-BLK1)		**Lab File ID: BLK0718.D**		**Analyzed: 07/18/12 09:59**			
Dibromofluoromethane	5.50	5.51	-0.01	+/-0.5	100	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	102	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	98	85 - 113	
4-Bromofluorobenzene	12.31	12.30	0.01	+/-0.5	98	82 - 110	
KAFB015 (1207057-01)		**Lab File ID: 1207057-01.D**		**Analyzed: 07/18/12 10:25**			
Dibromofluoromethane	5.50	5.51	-0.01	+/-0.5	102	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	101	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	99	85 - 113	
4-Bromofluorobenzene	12.31	12.30	0.01	+/-0.5	97	82 - 110	
KAFB016 (1207057-02)		**Lab File ID: 1207057-02.D**		**Analyzed: 07/18/12 10:52**			
Dibromofluoromethane	5.50	5.51	-0.01	+/-0.5	100	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	101	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	98	85 - 113	
4-Bromofluorobenzene	12.31	12.30	0.01	+/-0.5	97	82 - 110	
106042 (1207122-01)		**Lab File ID: 1207122-01.D**		**Analyzed: 07/18/12 11:19**			
Dibromofluoromethane	5.50	5.51	-0.01	+/-0.5	101	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	103	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	101	85 - 113	
4-Bromofluorobenzene	12.31	12.30	0.01	+/-0.5	96	82 - 110	
106043 (1207122-02)		**Lab File ID: 1207122-02.D**		**Analyzed: 07/18/12 11:45**			
Dibromofluoromethane	5.50	5.51	-0.01	+/-0.5	100	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	102	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	98	85 - 113	
4-Bromofluorobenzene	12.31	12.30	0.01	+/-0.5	98	82 - 110	

SURROGATE STANDARD RECOVERY AND RT SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2G19009

SDG: KNM070512
Project: KNM
Calibration: 2G19002
Instrument: 224

Lab Sample Id Surrogate Compound Name	RT	Calibration Mean RT	RT Diff	RT Diff Limit	% Recovery	Recovery Limits	Q
106058 (1207213-01)		**Lab File ID: 1207213-01.D Analyzed: 07/18/12 12:12**					
Dibromofluoromethane	5.50	5.51	-0.01	+/-0.5	101	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	103	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	97	85 - 113	
4-Bromofluorobenzene	12.31	12.30	0.01	+/-0.5	97	82 - 110	
106057 (1207213-02)		**Lab File ID: 1207213-02.D Analyzed: 07/18/12 12:39**					
Dibromofluoromethane	5.50	5.51	-0.01	+/-0.5	100	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	102	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	99	85 - 113	
4-Bromofluorobenzene	12.31	12.30	0.01	+/-0.5	97	82 - 110	
106107 (1207239-01)		**Lab File ID: 1207239-01.D Analyzed: 07/18/12 13:06**					
Dibromofluoromethane	5.50	5.51	-0.01	+/-0.5	101	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	102	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	98	85 - 113	
4-Bromofluorobenzene	12.31	12.30	0.01	+/-0.5	97	82 - 110	
106106 (1207239-02)		**Lab File ID: 1207239-02.D Analyzed: 07/18/12 13:32**					
Dibromofluoromethane	5.50	5.51	-0.01	+/-0.5	101	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	102	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	98	85 - 113	
4-Bromofluorobenzene	12.31	12.30	0.01	+/-0.5	98	82 - 110	
106105 (1207239-03)		**Lab File ID: 1207239-03.D Analyzed: 07/18/12 13:59**					
Dibromofluoromethane	5.50	5.51	-0.01	+/-0.5	101	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	103	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	98	85 - 113	
4-Bromofluorobenzene	12.31	12.30	0.01	+/-0.5	98	82 - 110	
Matrix Spike (1208743-MS1)		**Lab File ID: 05701MS.D Analyzed: 07/18/12 18:54**					
Dibromofluoromethane	5.50	5.51	-0.01	+/-0.5	102	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	103	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	99	85 - 113	
4-Bromofluorobenzene	12.30	12.30	0.00	+/-0.5	102	82 - 110	
Matrix Spike Dup (1208743-MSD1)		**Lab File ID: 05701MSD.D Analyzed: 07/18/12 19:20**					
Dibromofluoromethane	5.50	5.51	-0.01	+/-0.5	101	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	102	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	98	85 - 113	
4-Bromofluorobenzene	12.30	12.30	0.00	+/-0.5	101	82 - 110	

SURROGATE STANDARD RECOVERY AND RT SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2G27052

SDG: KNM070512
Project: KNM
Calibration: 2G27002
Instrument: 328

Lab Sample Id Surrogate Compound Name	RT	Calibration Mean RT	RT Diff	RT Diff Limit	% Recovery	Recovery Limits	Q
Calibration Check (2G27052-CCV1)		**Lab File ID: CCV0726.D**		**Analyzed: 07/26/12 09:00**			
Dibromofluoromethane	4.67	4.65	0.01	+/-0.5	102	75 - 125	
1,2-Dichloroethane-d4	5.27	5.26	0.01	+/-0.5	101	75 - 125	
Toluene-d8	8.35	8.34	0.01	+/-0.5	104	75 - 125	
4-Bromofluorobenzene	11.84	11.83	0.01	+/-0.5	102	75 - 125	
LCS (1209178-BS1)		**Lab File ID: BS0726.D**		**Analyzed: 07/26/12 09:27**			
Dibromofluoromethane	4.67	4.65	0.01	+/-0.5	102	85 - 118	
1,2-Dichloroethane-d4	5.27	5.26	0.01	+/-0.5	100	87 - 122	
Toluene-d8	8.35	8.34	0.01	+/-0.5	101	85 - 113	
4-Bromofluorobenzene	11.84	11.83	0.01	+/-0.5	101	82 - 110	
Blank (1209178-BLK1)		**Lab File ID: BLK0726.D**		**Analyzed: 07/26/12 10:23**			
Dibromofluoromethane	4.67	4.65	0.01	+/-0.5	98	85 - 118	
1,2-Dichloroethane-d4	5.26	5.26	0.01	+/-0.5	99	87 - 122	
Toluene-d8	8.35	8.34	0.01	+/-0.5	97	85 - 113	
4-Bromofluorobenzene	11.84	11.83	0.01	+/-0.5	89	82 - 110	
106031 (1207258-02)		**Lab File ID: 1207258-02.D**		**Analyzed: 07/26/12 12:14**			
Dibromofluoromethane	4.67	4.65	0.01	+/-0.5	96	85 - 118	
1,2-Dichloroethane-d4	5.27	5.26	0.01	+/-0.5	99	87 - 122	
Toluene-d8	8.35	8.34	0.01	+/-0.5	97	85 - 113	
4-Bromofluorobenzene	11.84	11.83	0.01	+/-0.5	92	82 - 110	
106101 (1207258-03)		**Lab File ID: 1207258-03.D**		**Analyzed: 07/26/12 12:42**			
Dibromofluoromethane	4.67	4.65	0.01	+/-0.5	97	85 - 118	
1,2-Dichloroethane-d4	5.27	5.26	0.01	+/-0.5	100	87 - 122	
Toluene-d8	8.35	8.34	0.01	+/-0.5	96	85 - 113	
4-Bromofluorobenzene	11.84	11.83	0.01	+/-0.5	92	82 - 110	
106098 (1207292-01)		**Lab File ID: 1207292-01.D**		**Analyzed: 07/26/12 13:10**			
Dibromofluoromethane	4.67	4.65	0.01	+/-0.5	97	85 - 118	
1,2-Dichloroethane-d4	5.27	5.26	0.01	+/-0.5	100	87 - 122	
Toluene-d8	8.35	8.34	0.01	+/-0.5	96	85 - 113	
4-Bromofluorobenzene	11.84	11.83	0.01	+/-0.5	91	82 - 110	
106013 (1207292-02)		**Lab File ID: 1207292-02.D**		**Analyzed: 07/26/12 13:37**			
Dibromofluoromethane	4.67	4.65	0.01	+/-0.5	98	85 - 118	
1,2-Dichloroethane-d4	5.27	5.26	0.01	+/-0.5	101	87 - 122	
Toluene-d8	8.35	8.34	0.01	+/-0.5	97	85 - 113	
4-Bromofluorobenzene	11.84	11.83	0.01	+/-0.5	91	82 - 110	

SURROGATE STANDARD RECOVERY AND RT SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2G27052

SDG: KNM070512
Project: KNM
Calibration: 2G27002
Instrument: 328

Lab Sample Id Surrogate Compound Name	RT	Calibration Mean RT	RT Diff	RT Diff Limit	% Recovery	Recovery Limits	Q
106026 (1207292-03)	**Lab File ID: 1207292-03.D Analyzed: 07/26/12 14:05**						
Dibromofluoromethane	4.67	4.65	0.01	+/-0.5	98	85 - 118	
1,2-Dichloroethane-d4	5.26	5.26	0.01	+/-0.5	101	87 - 122	
Toluene-d8	8.35	8.34	0.01	+/-0.5	97	85 - 113	
4-Bromofluorobenzene	11.84	11.83	0.01	+/-0.5	90	82 - 110	
106038 (1207368-01)	**Lab File ID: 1207368-01.D Analyzed: 07/26/12 15:00**						
Dibromofluoromethane	4.67	4.65	0.01	+/-0.5	99	85 - 118	
1,2-Dichloroethane-d4	5.27	5.26	0.01	+/-0.5	101	87 - 122	
Toluene-d8	8.35	8.34	0.01	+/-0.5	98	85 - 113	
4-Bromofluorobenzene	11.84	11.83	0.01	+/-0.5	90	82 - 110	
106040 (1207368-02)	**Lab File ID: 1207368-02.D Analyzed: 07/26/12 15:28**						
Dibromofluoromethane	4.67	4.65	0.01	+/-0.5	98	85 - 118	
1,2-Dichloroethane-d4	5.27	5.26	0.01	+/-0.5	101	87 - 122	
Toluene-d8	8.35	8.34	0.01	+/-0.5	98	85 - 113	
4-Bromofluorobenzene	11.84	11.83	0.01	+/-0.5	90	82 - 110	
106104 (1207370-01)	**Lab File ID: 1207370-01.D Analyzed: 07/26/12 15:56**						
Dibromofluoromethane	4.67	4.65	0.01	+/-0.5	98	85 - 118	
1,2-Dichloroethane-d4	5.27	5.26	0.01	+/-0.5	100	87 - 122	
Toluene-d8	8.35	8.34	0.01	+/-0.5	97	85 - 113	
4-Bromofluorobenzene	11.84	11.83	0.01	+/-0.5	88	82 - 110	
10623 (1207370-02)	**Lab File ID: 1207370-02.D Analyzed: 07/26/12 16:24**						
Dibromofluoromethane	4.67	4.65	0.01	+/-0.5	99	85 - 118	
1,2-Dichloroethane-d4	5.27	5.26	0.01	+/-0.5	101	87 - 122	
Toluene-d8	8.35	8.34	0.01	+/-0.5	98	85 - 113	
4-Bromofluorobenzene	11.84	11.83	0.01	+/-0.5	90	82 - 110	
106063 (1207404-01)	**Lab File ID: 1207404-01.D Analyzed: 07/26/12 16:52**						
Dibromofluoromethane	4.67	4.65	0.01	+/-0.5	99	85 - 118	
1,2-Dichloroethane-d4	5.27	5.26	0.01	+/-0.5	101	87 - 122	
Toluene-d8	8.35	8.34	0.01	+/-0.5	98	85 - 113	
4-Bromofluorobenzene	11.84	11.83	0.01	+/-0.5	88	82 - 110	
106055 (1207404-02)	**Lab File ID: 1207404-02.D Analyzed: 07/26/12 17:20**						
Dibromofluoromethane	4.67	4.65	0.01	+/-0.5	98	85 - 118	
1,2-Dichloroethane-d4	5.27	5.26	0.01	+/-0.5	101	87 - 122	
Toluene-d8	8.35	8.34	0.01	+/-0.5	98	85 - 113	
4-Bromofluorobenzene	11.84	11.83	0.01	+/-0.5	89	82 - 110	

SURROGATE STANDARD RECOVERY AND RT SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2G27052

SDG: KNM070512
Project: KNM
Calibration: 2G27002
Instrument: 328

Lab Sample Id Surrogate Compound Name	RT	Calibration Mean RT	RT Diff	RT Diff Limit	% Recovery	Recovery Limits	Q
106102 (1207258-01)	**Lab File ID: 1207258-01A.D Analyzed: 07/26/12 17:47**						
Dibromofluoromethane	4.67	4.65	0.01	+/-0.5	99	85 - 118	
1,2-Dichloroethane-d4	5.27	5.26	0.01	+/-0.5	102	87 - 122	
Toluene-d8	8.35	8.34	0.01	+/-0.5	98	85 - 113	
4-Bromofluorobenzene	11.84	11.83	0.01	+/-0.5	89	82 - 110	

SURROGATE STANDARD RECOVERY AND RT SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2H07013

SDG: KNM070512
Project: KNM
Calibration: 2H01006
Instrument: 224

Lab Sample Id Surrogate Compound Name	RT	Calibration Mean RT	RT Diff	RT Diff Limit	% Recovery	Recovery Limits	Q
Calibration Check (2H07013-CCV1)		**Lab File ID: CCV0806.D**		**Analyzed: 08/06/12 08:36**			
Dibromofluoromethane	5.50	5.50	0.00	+/-0.5	102	75 - 125	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	100	75 - 125	
Toluene-d8	8.91	8.91	0.00	+/-0.5	101	75 - 125	
4-Bromofluorobenzene	12.30	12.30	0.00	+/-0.5	96	75 - 125	
LCS (1209584-BS1)		**Lab File ID: BS0806.D**		**Analyzed: 08/06/12 09:03**			
Dibromofluoromethane	5.50	5.50	0.00	+/-0.5	103	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	98	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	92	85 - 113	
4-Bromofluorobenzene	12.30	12.30	0.00	+/-0.5	101	82 - 110	
Blank (1209584-BLK1)		**Lab File ID: BLK0806.D**		**Analyzed: 08/06/12 09:57**			
Dibromofluoromethane	5.50	5.50	0.00	+/-0.5	102	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	98	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	88	85 - 113	
4-Bromofluorobenzene	12.30	12.30	0.00	+/-0.5	99	82 - 110	
106051 (1208015-01)		**Lab File ID: 1208015-01.D**		**Analyzed: 08/06/12 11:17**			
Dibromofluoromethane	5.50	5.50	0.00	+/-0.5	107	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	107	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	100	85 - 113	
4-Bromofluorobenzene	12.30	12.30	0.00	+/-0.5	92	82 - 110	
106035 (1208015-02)		**Lab File ID: 1208015-02.D**		**Analyzed: 08/06/12 11:43**			
Dibromofluoromethane	5.50	5.50	0.00	+/-0.5	104	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	107	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	101	85 - 113	
4-Bromofluorobenzene	12.30	12.30	0.00	+/-0.5	104	82 - 110	
106036 (1208015-03)		**Lab File ID: 1208015-03.D**		**Analyzed: 08/06/12 12:10**			
Dibromofluoromethane	5.50	5.50	0.00	+/-0.5	110	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	112	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	101	85 - 113	
4-Bromofluorobenzene	12.30	12.30	0.00	+/-0.5	100	82 - 110	
106037 (1208057-01)		**Lab File ID: 1208057-01.D**		**Analyzed: 08/06/12 12:37**			
Dibromofluoromethane	5.50	5.50	0.00	+/-0.5	106	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	108	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	100	85 - 113	
4-Bromofluorobenzene	12.30	12.30	0.00	+/-0.5	99	82 - 110	

SURROGATE STANDARD RECOVERY AND RT SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2H07013

SDG: KNM070512
Project: KNM
Calibration: 2H01006
Instrument: 224

Lab Sample Id Surrogate Compound Name	RT	Calibration Mean RT	RT Diff	RT Diff Limit	% Recovery	Recovery Limits	Q
Matrix Spike (1209584-MS1)	**Lab File ID: 1208015-01MSAnalyzed: 08/06/12 15:44**						
Dibromofluoromethane	5.50	5.50	0.00	+/-0.5	101	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	96	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	101	85 - 113	
4-Bromofluorobenzene	12.30	12.30	0.00	+/-0.5	99	82 - 110	
Matrix Spike Dup (1209584-MSD1)	**Lab File ID: 1208015-01MSAnalyzed: 08/06/12 16:11**						
Dibromofluoromethane	5.50	5.50	0.00	+/-0.5	100	85 - 118	
1,2-Dichloroethane-d4	6.05	6.05	0.00	+/-0.5	94	87 - 122	
Toluene-d8	8.91	8.91	0.00	+/-0.5	101	85 - 113	
4-Bromofluorobenzene	12.30	12.30	0.00	+/-0.5	101	82 - 110	

SURROGATE STANDARD RECOVERY AND RT SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2H20042

SDG: KNM070512
Project: KNM
Calibration: 2H10001
Instrument: 323

Lab Sample Id Surrogate Compound Name	RT	Calibration Mean RT	RT Diff	RT Diff Limit	% Recovery	Recovery Limits	Q
Calibration Check (2H20042-CCV1)		**Lab File ID: CCV0817A.D**		**Analyzed: 08/17/12 12:49**			
Dibromofluoromethane	4.25	4.26	-0.01	+/-0.5	102	75 - 125	
1,2-Dichloroethane-d4	4.82	4.83	-0.01	+/-0.5	98	75 - 125	
Toluene-d8	7.99	7.99	0.00	+/-0.5	102	75 - 125	
4-Bromofluorobenzene	11.45	11.45	0.00	+/-0.5	100	75 - 125	
LCS (1210102-BS1)		**Lab File ID: BS0817A.D**		**Analyzed: 08/17/12 13:16**			
Dibromofluoromethane	4.26	4.26	0.00	+/-0.5	101	85 - 118	
1,2-Dichloroethane-d4	4.82	4.83	-0.01	+/-0.5	97	87 - 122	
Toluene-d8	7.99	7.99	0.00	+/-0.5	101	85 - 113	
4-Bromofluorobenzene	11.45	11.45	0.00	+/-0.5	100	82 - 110	
Blank (1210102-BLK1)		**Lab File ID: BLK0817A.D**		**Analyzed: 08/17/12 14:10**			
Dibromofluoromethane	4.26	4.26	0.00	+/-0.5	99	85 - 118	
1,2-Dichloroethane-d4	4.82	4.83	-0.01	+/-0.5	100	87 - 122	
Toluene-d8	7.99	7.99	0.00	+/-0.5	99	85 - 113	
4-Bromofluorobenzene	11.45	11.45	0.00	+/-0.5	97	82 - 110	
1064 (1208169-02)		**Lab File ID: 1208169-02.D**		**Analyzed: 08/17/12 20:31**			
Dibromofluoromethane	4.25	4.26	-0.01	+/-0.5	100	85 - 118	
1,2-Dichloroethane-d4	4.82	4.83	-0.01	+/-0.5	98	87 - 122	
Toluene-d8	7.99	7.99	0.00	+/-0.5	100	85 - 113	
4-Bromofluorobenzene	11.45	11.45	0.00	+/-0.5	96	82 - 110	
106100 (1208170-01)		**Lab File ID: 1208170-01.D**		**Analyzed: 08/17/12 20:58**			
Dibromofluoromethane	4.25	4.26	-0.01	+/-0.5	100	85 - 118	
1,2-Dichloroethane-d4	4.82	4.83	-0.01	+/-0.5	99	87 - 122	
Toluene-d8	7.99	7.99	0.00	+/-0.5	100	85 - 113	
4-Bromofluorobenzene	11.45	11.45	0.00	+/-0.5	95	82 - 110	
106099 (1208170-02)		**Lab File ID: 1208170-02.D**		**Analyzed: 08/17/12 21:26**			
Dibromofluoromethane	4.25	4.26	-0.01	+/-0.5	101	85 - 118	
1,2-Dichloroethane-d4	4.83	4.83	0.00	+/-0.5	98	87 - 122	
Toluene-d8	7.99	7.99	0.00	+/-0.5	100	85 - 113	
4-Bromofluorobenzene	11.45	11.45	0.00	+/-0.5	96	82 - 110	
106066 (1208192-01)		**Lab File ID: 1208192-01.D**		**Analyzed: 08/17/12 21:53**			
Dibromofluoromethane	4.26	4.26	0.00	+/-0.5	99	85 - 118	
1,2-Dichloroethane-d4	4.82	4.83	-0.01	+/-0.5	98	87 - 122	
Toluene-d8	7.99	7.99	0.00	+/-0.5	100	85 - 113	
4-Bromofluorobenzene	11.45	11.45	0.00	+/-0.5	96	82 - 110	

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SURROGATE STANDARD RECOVERY AND RT SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2H20050

SDG: KNM070512
Project: KNM
Calibration: 2H10001
Instrument: 323

Lab Sample Id Surrogate Compound Name	RT	Calibration Mean RT	RT Diff	RT Diff Limit	% Recovery	Recovery Limits	Q
LCS (1210102-BS2)		**Lab File ID: CCV0820.D**		**Analyzed: 08/20/12 08:45**			
Dibromofluoromethane	4.25	4.26	-0.01	+/-0.5	101	85 - 118	
1,2-Dichloroethane-d4	4.82	4.83	-0.01	+/-0.5	96	87 - 122	
Toluene-d8	7.99	7.99	0.00	+/-0.5	100	85 - 113	
4-Bromofluorobenzene	11.45	11.45	0.00	+/-0.5	100	82 - 110	
Calibration Check (2H20050-CCV1)		**Lab File ID: CCV0820.D**		**Analyzed: 08/20/12 08:45**			
Dibromofluoromethane	4.25	4.26	-0.01	+/-0.5	101	75 - 125	
1,2-Dichloroethane-d4	4.82	4.83	-0.01	+/-0.5	96	75 - 125	
Toluene-d8	7.99	7.99	0.00	+/-0.5	100	75 - 125	
4-Bromofluorobenzene	11.45	11.45	0.00	+/-0.5	100	75 - 125	
LCS Dup (1210102-BSD2)		**Lab File ID: BS0820.D**		**Analyzed: 08/20/12 09:12**			
Dibromofluoromethane	4.25	4.26	-0.01	+/-0.5	100	85 - 118	
1,2-Dichloroethane-d4	4.82	4.83	-0.01	+/-0.5	97	87 - 122	
Toluene-d8	7.99	7.99	0.00	+/-0.5	101	85 - 113	
4-Bromofluorobenzene	11.45	11.45	0.00	+/-0.5	100	82 - 110	
Blank (1210102-BLK2)		**Lab File ID: BLK0820.D**		**Analyzed: 08/20/12 10:07**			
Dibromofluoromethane	4.25	4.26	-0.01	+/-0.5	101	85 - 118	
1,2-Dichloroethane-d4	4.82	4.83	-0.01	+/-0.5	97	87 - 122	
Toluene-d8	7.99	7.99	0.00	+/-0.5	99	85 - 113	
4-Bromofluorobenzene	11.45	11.45	0.00	+/-0.5	98	82 - 110	
106076 (1208169-01)		**Lab File ID: 1208169-01.D**		**Analyzed: 08/20/12 10:34**			
Dibromofluoromethane	4.25	4.26	-0.01	+/-0.5	98	85 - 118	
1,2-Dichloroethane-d4	4.82	4.83	-0.01	+/-0.5	98	87 - 122	
Toluene-d8	7.99	7.99	0.00	+/-0.5	100	85 - 113	
4-Bromofluorobenzene	11.45	11.45	0.00	+/-0.5	101	82 - 110	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

USEPA-8260B

KAFB015

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1208743

SDG: KNM070512

Project: KNM

Laboratory ID: 1208743-MS1

Preparation: 5030B Aqueous Purge & Trap

Initial/Final: 5 mL / 5 mL

Analyte	Spike Added	Sample Conc.	MS Conc.	MS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	ND	44.7	112	80 - 129	ug/L
Chlorobenzene	40.0	ND	43.4	108	80 - 121	ug/L
1,1-Dichloroethene	40.0	ND	45.3	113	74 - 134	ug/L
Toluene	40.0	ND	44.6	112	79 - 129	ug/L
Trichloroethene	40.0	ND	44.6	111	75 - 127	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

USEPA-8260B

KAFB015

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1208743

SDG: KNM070512

Project: KNM

Laboratory ID: 1208743-MSD1

Preparation: 5030B Aqueous Purge & Trap

Initial/Final: 5 mL / 5 mL

Analyte	Spike Added	MSD Conc.	MSD % Rec. #	% RPD #	QC Limits RPD	QC Limits Rec.	Units
Benzene	40.0	44.3	111	0.8	9	80 - 129	ug/L
Chlorobenzene	40.0	42.9	107	1	8	80 - 121	ug/L
1,1-Dichloroethene	40.0	45.3	113	0.02	11	74 - 134	ug/L
Toluene	40.0	43.8	109	2	9	79 - 129	ug/L
Trichloroethene	40.0	44.6	111	0.02	10	75 - 127	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

USEPA-8260B

106051

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1209584

SDG: KNM070512

Project: KNM

Laboratory ID: 1209584-MS1

Preparation: 5030B Aqueous Purge & Trap

Initial/Final: 5 mL / 5 mL

Analyte	Spike Added	Sample Conc.	MS Conc.	MS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	ND	46.0	115	80 - 129	ug/L
Chlorobenzene	40.0	ND	42.4	106	80 - 121	ug/L
1,1-Dichloroethene	40.0	ND	47.5	119	74 - 134	ug/L
Toluene	40.0	ND	44.9	112	79 - 129	ug/L
Trichloroethene	40.0	ND	46.0	115	75 - 127	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

USEPA-8260B

106051

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1209584

SDG: KNM070512

Project: KNM

Laboratory ID: 1209584-MSD1

Preparation: 5030B Aqueous Purge & Trap

Initial/Final: 5 mL / 5 mL

Analyte	Spike Added	MSD Conc.	MSD % Rec. #	% RPD #	QC Limits RPD	QC Limits Rec.	Units
Benzene	40.0	44.4	111	4	9	80 - 129	ug/L
Chlorobenzene	40.0	41.5	104	2	8	80 - 121	ug/L
1,1-Dichloroethene	40.0	46.8	117	1	11	74 - 134	ug/L
Toluene	40.0	43.6	109	3	9	79 - 129	ug/L
Trichloroethene	40.0	44.7	112	3	10	75 - 127	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water

SDG: KNM070512
Project: KNM
Laboratory ID: 1208743-BS1
Preparation: 5030B Aqueous Purge & Trap
Initial/Final: 5 mL / 5 mL

QC Batch: 1208743
Sequence: 2G19009

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	42.4	106	84 - 119	ug/L
Chlorobenzene	40.0	41.8	104	84 - 118	ug/L
1,1-Dichloroethene	40.0	43.9	110	77 - 123	ug/L
Toluene	40.0	42.5	106	85 - 118	ug/L
Trichloroethene	40.0	42.0	105	82 - 119	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water

SDG: KNM070512
Project: KNM
Laboratory ID: 1209178-BS1
Preparation: 5030B Aqueous Purge & Trap
Initial/Final: 5 mL / 5 mL

QC Batch: 1209178
Sequence: 2G27052

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	39.1	98	84 - 119	ug/L
Chlorobenzene	40.0	37.6	94	84 - 118	ug/L
1,1-Dichloroethene	40.0	38.6	96	77 - 123	ug/L
Toluene	40.0	39.3	98	85 - 118	ug/L
Trichloroethene	40.0	37.8	95	82 - 119	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water

SDG: KNM070512
Project: KNM
Laboratory ID: 1209584-BS1
Preparation: 5030B Aqueous Purge & Trap
Initial/Final: 5 mL / 5 mL

QC Batch: 1209584
Sequence: 2H07013

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	43.4	109	84 - 119	ug/L
Chlorobenzene	40.0	40.2	100	84 - 118	ug/L
1,1-Dichloroethene	40.0	45.2	113	77 - 123	ug/L
Toluene	40.0	38.1	95	85 - 118	ug/L
Trichloroethene	40.0	41.7	104	82 - 119	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water

SDG: KNM070512
Project: KNM
Laboratory ID: 1210102-BS1
Preparation: 5030B Aqueous Purge & Trap
Initial/Final: 5 mL / 5 mL

QC Batch: 1210102
Sequence: 2H20042

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	40.8	102	84 - 119	ug/L
Chlorobenzene	40.0	39.8	100	84 - 118	ug/L
1,1-Dichloroethene	40.0	42.1	105	77 - 123	ug/L
Toluene	40.0	41.0	102	85 - 118	ug/L
Trichloroethene	40.0	39.3	98	82 - 119	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1210102

SDG: KNM070512

Project: KNM

Laboratory ID: 1210102-BS2

Preparation: 5030B Aqueous Purge & Trap

Initial/Final: 5 mL / 5 mL

Sequence: 2H20050

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	42.5	106	84 - 119	ug/L
Chlorobenzene	40.0	40.7	102	84 - 118	ug/L
1,1-Dichloroethene	40.0	42.6	107	77 - 123	ug/L
Toluene	40.0	42.5	106	85 - 118	ug/L
Trichloroethene	40.0	40.8	102	82 - 119	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water

SDG: KNM070512
Project: KNM
Laboratory ID: 1210102-BSD2
Preparation: 5030B Aqueous Purge & Trap
Initial/Final: 5 mL / 5 mL
Sequence: 2H20050

QC Batch: 1210102

Analyte	Spike Added ug/L	LCSD Conc.	LCSD % Rec. #	% RPD #	QC Limits RPD	QC Limits Rec.	Units
Benzene	40.0	42.0	105	1	20	84 - 119	ug/L
Chlorobenzene	40.0	40.4	101	0.9	20	84 - 118	ug/L
1,1-Dichloroethene	40.0	43.4	108	2	20	77 - 123	ug/L
Toluene	40.0	41.8	104	2	20	85 - 118	ug/L
Trichloroethene	40.0	40.3	101	1	20	82 - 119	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208743-BLK1 File ID: BLK0718.D

Prepared: 07/18/12 08:00 Analyzed: 07/18/12 09:59

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
67-64-1	Acetone	5.0	ug/L	1.1	5.0	U
71-43-2	Benzene	1.0	ug/L	0.11	1.0	U
75-27-4	Bromodichloromethane	1.0	ug/L	0.13	1.0	U
75-25-2	Bromoform	1.0	ug/L	0.26	1.0	U
74-83-9	Bromomethane	1.0	ug/L	0.21	1.0	U
75-15-0	Carbon Disulfide	5.0	ug/L	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1.0	ug/L	0.26	1.0	U
108-90-7	Chlorobenzene	1.0	ug/L	0.17	1.0	U
75-00-3	Chloroethane	1.0	ug/L	0.14	1.0	U
67-66-3	Chloroform	1.0	ug/L	0.098	1.0	U
74-87-3	Chloromethane	1.0	ug/L	0.29	1.0	U
110-82-7	Cyclohexane	5.0	ug/L	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	ug/L	0.13	1.0	U
124-48-1	Dibromochloromethane	1.0	ug/L	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1.0	ug/L	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	ug/L	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	ug/L	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1.0	ug/L	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1.0	ug/L	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1.0	ug/L	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	ug/L	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	ug/L	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1.0	ug/L	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
100-41-4	Ethylbenzene	1.0	ug/L	0.21	1.0	U
591-78-6	2-Hexanone	5.0	ug/L	0.49	5.0	U
98-82-8	Isopropylbenzene	1.0	ug/L	0.22	1.0	U
79-20-9	Methyl Acetate	1.4	ug/L	0.42	5.0	**J**
1634-04-4	Methyl tert-Butyl Ether	1.0	ug/L	0.19	1.0	U
108-87-2	Methylcyclohexane	5.0	ug/L	0.37	5.0	U
75-09-2	Methylene Chloride	0.44	ug/L	0.24	1.0	**J**
78-93-3	2-Butanone (MEK)	5.0	ug/L	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	ug/L	0.40	5.0	U
100-42-5	Styrene	1.0	ug/L	0.20	1.0	U

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208743-BLK1 File ID: BLK0718.D

Prepared: 07/18/12 08:00 Analyzed: 07/18/12 09:59

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
79-34-5	1,1,2,2-Tetrachloroethane	1.0	ug/L	0.26	1.0	U
127-18-4	Tetrachloroethene	1.0	ug/L	0.23	1.0	U
108-88-3	Toluene	1.0	ug/L	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	ug/L	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	ug/L	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	ug/L	0.20	1.0	U
79-01-6	Trichloroethene	1.0	ug/L	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1.0	ug/L	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	ug/L	0.24	1.0	U
75-01-4	Vinyl Chloride	1.0	ug/L	0.21	1.0	U
1330-20-7	Xylene (Total)	3.0	ug/L	0.39	3.0	U

System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
Dibromofluoromethane	40.0	40.2	100	85 - 118	
1,2-Dichloroethane-d4	40.0	40.7	102	87 - 122	
Toluene-d8	40.0	39.2	98	85 - 113	
4-Bromofluorobenzene	40.0	39.2	98	82 - 110	

Internal Standard	Area	RT	% REC	Ref. RT	Q
Fluorobenzene	1043970	6.61	98	6.61	
Chlorobenzene-d5	843255	10.8	97	10.8	
1,4-Dichlorobenzene-d4	471755	13.75	92	13.75	

QC BATCH SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM070512

Client: TechLaw

Project: KNM

QC Batch: 1208743

QC Batch Matrix: Water

Preparation: 5030B Aqueous Purge & Trap

Sample Name	Lab Sample ID	Date Prepared	Observations
KAFB015	1207057-01	07/18/12 08:00	
KAFB016	1207057-02	07/18/12 08:00	
106042	1207122-01	07/18/12 08:00	
106043	1207122-02	07/18/12 08:00	
106058	1207213-01	07/18/12 08:00	
106057	1207213-02	07/18/12 08:00	
106107	1207239-01	07/18/12 08:00	
106106	1207239-02	07/18/12 08:00	
106105	1207239-03	07/18/12 08:00	
Blank	1208743-BLK1	07/18/12 08:00	
LCS	1208743-BS1	07/18/12 08:00	
KAFB015	1208743-MS1	07/18/12 08:00	
KAFB015	1208743-MSD1	07/18/12 08:00	

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1209178-BLK1 File ID: BLK0726.D

Prepared: 07/26/12 08:00 Analyzed: 07/26/12 10:23

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
67-64-1	Acetone	5.0	ug/L	1.1	5.0	U
71-43-2	Benzene	1.0	ug/L	0.11	1.0	U
75-27-4	Bromodichloromethane	1.0	ug/L	0.13	1.0	U
75-25-2	Bromoform	1.0	ug/L	0.26	1.0	U
74-83-9	Bromomethane	1.0	ug/L	0.21	1.0	U
75-15-0	Carbon Disulfide	5.0	ug/L	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1.0	ug/L	0.26	1.0	U
108-90-7	Chlorobenzene	1.0	ug/L	0.17	1.0	U
75-00-3	Chloroethane	1.0	ug/L	0.14	1.0	U
67-66-3	Chloroform	1.0	ug/L	0.098	1.0	U
74-87-3	Chloromethane	1.0	ug/L	0.29	1.0	U
110-82-7	Cyclohexane	5.0	ug/L	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	ug/L	0.13	1.0	U
124-48-1	Dibromochloromethane	1.0	ug/L	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1.0	ug/L	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	ug/L	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	ug/L	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1.0	ug/L	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1.0	ug/L	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1.0	ug/L	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	ug/L	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	ug/L	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1.0	ug/L	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
100-41-4	Ethylbenzene	1.0	ug/L	0.21	1.0	U
591-78-6	2-Hexanone	5.0	ug/L	0.49	5.0	U
98-82-8	Isopropylbenzene	1.0	ug/L	0.22	1.0	U
79-20-9	Methyl Acetate	5.0	ug/L	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1.0	ug/L	0.19	1.0	U
108-87-2	Methylcyclohexane	5.0	ug/L	0.37	5.0	U
75-09-2	Methylene Chloride	1.2	ug/L	0.24	1.0	
78-93-3	2-Butanone (MEK)	5.0	ug/L	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	ug/L	0.40	5.0	U
100-42-5	Styrene	1.0	ug/L	0.20	1.0	U

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1209178-BLK1 File ID: BLK0726.D

Prepared: 07/26/12 08:00 Analyzed: 07/26/12 10:23

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
79-34-5	1,1,2,2-Tetrachloroethane	1.0	ug/L	0.26	1.0	U
127-18-4	Tetrachloroethene	1.0	ug/L	0.23	1.0	U
108-88-3	Toluene	1.0	ug/L	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	0.33	ug/L	0.13	1.0	J
71-55-6	1,1,1-Trichloroethane	1.0	ug/L	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	ug/L	0.20	1.0	U
79-01-6	Trichloroethene	1.0	ug/L	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1.0	ug/L	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	ug/L	0.24	1.0	U
75-01-4	Vinyl Chloride	1.0	ug/L	0.21	1.0	U
1330-20-7	Xylene (Total)	3.0	ug/L	0.39	3.0	U

System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
Dibromofluoromethane	40.0	39.0	98	85 - 118	
1,2-Dichloroethane-d4	40.0	39.5	99	87 - 122	
Toluene-d8	40.0	38.8	97	85 - 113	
4-Bromofluorobenzene	40.0	35.8	89	82 - 110	

Internal Standard	Area	RT	% REC	Ref. RT	Q
Fluorobenzene	887820	5.885	104	5.872	
Chlorobenzene-d5	645514	10.298	96	10.286	
1,4-Dichlorobenzene-d4	281555	13.298	75	13.285	

QC BATCH SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM070512

Client: TechLaw

Project: KNM

QC Batch: 1209178

QC Batch Matrix: Water

Preparation: 5030B Aqueous Purge & Trap

Sample Name	Lab Sample ID	Date Prepared	Observations
106102	1207258-01	07/26/12 08:00	
106031	1207258-02	07/26/12 08:00	
106101	1207258-03	07/26/12 08:00	
106098	1207292-01	07/26/12 08:00	
106013	1207292-02	07/26/12 08:00	
106026	1207292-03	07/26/12 08:00	
106038	1207368-01	07/26/12 08:00	
106040	1207368-02	07/26/12 08:00	
106104	1207370-01	07/26/12 08:00	
10623	1207370-02	07/26/12 08:00	
106063	1207404-01	07/26/12 08:00	
106055	1207404-02	07/26/12 08:00	
Blank	1209178-BLK1	07/26/12 08:00	
LCS	1209178-BS1	07/26/12 08:00	

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1209584-BLK1 File ID: BLK0806.D

Prepared: 08/06/12 08:00 Analyzed: 08/06/12 09:57

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209584 Sequence: 2H07013 Calibration: 2H01006 Instrument: 224

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
67-64-1	Acetone	9.8	ug/L	1.1	5.0	
71-43-2	Benzene	1.0	ug/L	0.11	1.0	U
75-27-4	Bromodichloromethane	1.0	ug/L	0.13	1.0	U
75-25-2	Bromoform	1.0	ug/L	0.26	1.0	U
74-83-9	Bromomethane	1.0	ug/L	0.21	1.0	U
75-15-0	Carbon Disulfide	5.0	ug/L	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1.0	ug/L	0.26	1.0	U
108-90-7	Chlorobenzene	1.0	ug/L	0.17	1.0	U
75-00-3	Chloroethane	1.0	ug/L	0.14	1.0	U
67-66-3	Chloroform	1.0	ug/L	0.098	1.0	U
74-87-3	Chloromethane	1.0	ug/L	0.29	1.0	U
110-82-7	Cyclohexane	5.0	ug/L	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	ug/L	0.13	1.0	U
124-48-1	Dibromochloromethane	1.0	ug/L	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1.0	ug/L	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	ug/L	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	ug/L	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1.0	ug/L	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1.0	ug/L	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1.0	ug/L	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	ug/L	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	ug/L	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1.0	ug/L	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
100-41-4	Ethylbenzene	1.0	ug/L	0.21	1.0	U
591-78-6	2-Hexanone	5.0	ug/L	0.49	5.0	U
98-82-8	Isopropylbenzene	1.0	ug/L	0.22	1.0	U
79-20-9	Methyl Acetate	1.6	ug/L	0.42	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1.0	ug/L	0.19	1.0	U
108-87-2	Methylcyclohexane	5.0	ug/L	0.37	5.0	U
75-09-2	Methylene Chloride	1.0	ug/L	0.24	1.0	U
78-93-3	2-Butanone (MEK)	5.0	ug/L	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	ug/L	0.40	5.0	U
100-42-5	Styrene	1.0	ug/L	0.20	1.0	U

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1209584-BLK1 File ID: BLK0806.D

Prepared: 08/06/12 08:00 Analyzed: 08/06/12 09:57

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209584 Sequence: 2H07013 Calibration: 2H01006 Instrument: 224

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
79-34-5	1,1,2,2-Tetrachloroethane	1.0	ug/L	0.26	1.0	U
127-18-4	Tetrachloroethene	1.0	ug/L	0.23	1.0	U
108-88-3	Toluene	1.0	ug/L	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	ug/L	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	ug/L	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	ug/L	0.20	1.0	U
79-01-6	Trichloroethene	1.0	ug/L	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1.0	ug/L	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	ug/L	0.24	1.0	U
75-01-4	Vinyl Chloride	1.0	ug/L	0.21	1.0	U
1330-20-7	Xylene (Total)	3.0	ug/L	0.39	3.0	U

System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
Dibromofluoromethane	40.0	40.8	102	85 - 118	
1,2-Dichloroethane-d4	40.0	39.1	98	87 - 122	
Toluene-d8	40.0	35.0	88	85 - 113	
4-Bromofluorobenzene	40.0	39.6	99	82 - 110	

Internal Standard	Area	RT	% REC	Ref. RT	Q
Fluorobenzene	652883	6.6	103	6.6	
Chlorobenzene-d5	495887	10.8	86	10.8	
1,4-Dichlorobenzene-d4	281757	13.75	78	13.75	

QC BATCH SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM070512

Client: TechLaw

Project: KNM

QC Batch: 1209584

QC Batch Matrix: Water

Preparation: 5030B Aqueous Purge & Trap

Sample Name	Lab Sample ID	Date Prepared	Observations
106051	1208015-01	08/06/12 08:00	
106035	1208015-02	08/06/12 08:00	
106036	1208015-03	08/06/12 08:00	
106037	1208057-01	08/06/12 08:00	
Blank	1209584-BLK1	08/06/12 08:00	
LCS	1209584-BS1	08/06/12 08:00	
106051	1209584-MS1	08/06/12 08:00	
106051	1209584-MSD1	08/06/12 08:00	

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1210102-BLK1 File ID: BLK0817A.D

Prepared: 08/17/12 12:00 Analyzed: 08/17/12 14:10

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1210102 Sequence: 2H20042 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
67-64-1	Acetone	5.0	ug/L	1.1	5.0	U
71-43-2	Benzene	1.0	ug/L	0.11	1.0	U
75-27-4	Bromodichloromethane	1.0	ug/L	0.13	1.0	U
75-25-2	Bromoform	1.0	ug/L	0.26	1.0	U
74-83-9	Bromomethane	1.0	ug/L	0.21	1.0	U
75-15-0	Carbon Disulfide	5.0	ug/L	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1.0	ug/L	0.26	1.0	U
108-90-7	Chlorobenzene	1.0	ug/L	0.17	1.0	U
75-00-3	Chloroethane	1.0	ug/L	0.14	1.0	U
67-66-3	Chloroform	1.0	ug/L	0.098	1.0	U
74-87-3	Chloromethane	1.0	ug/L	0.29	1.0	U
110-82-7	Cyclohexane	5.0	ug/L	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	ug/L	0.13	1.0	U
124-48-1	Dibromochloromethane	1.0	ug/L	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1.0	ug/L	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	ug/L	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	ug/L	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1.0	ug/L	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1.0	ug/L	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1.0	ug/L	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	ug/L	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	ug/L	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1.0	ug/L	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
100-41-4	Ethylbenzene	1.0	ug/L	0.21	1.0	U
591-78-6	2-Hexanone	5.0	ug/L	0.49	5.0	U
98-82-8	Isopropylbenzene	1.0	ug/L	0.22	1.0	U
79-20-9	Methyl Acetate	0.88	ug/L	0.42	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1.0	ug/L	0.19	1.0	U
108-87-2	Methylcyclohexane	5.0	ug/L	0.37	5.0	U
75-09-2	Methylene Chloride	0.81	ug/L	0.24	1.0	J
78-93-3	2-Butanone (MEK)	5.0	ug/L	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	ug/L	0.40	5.0	U
100-42-5	Styrene	1.0	ug/L	0.20	1.0	U

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1210102-BLK1 File ID: BLK0817A.D

Prepared: 08/17/12 12:00 Analyzed: 08/17/12 14:10

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1210102 Sequence: 2H20042 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
79-34-5	1,1,2,2-Tetrachloroethane	1.0	ug/L	0.26	1.0	U
127-18-4	Tetrachloroethene	1.0	ug/L	0.23	1.0	U
108-88-3	Toluene	1.0	ug/L	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	ug/L	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	ug/L	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	ug/L	0.20	1.0	U
79-01-6	Trichloroethene	1.0	ug/L	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1.0	ug/L	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	ug/L	0.24	1.0	U
75-01-4	Vinyl Chloride	1.0	ug/L	0.21	1.0	U
1330-20-7	Xylene (Total)	3.0	ug/L	0.39	3.0	U

System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
Dibromofluoromethane	40.0	39.7	99	85 - 118	
1,2-Dichloroethane-d4	40.0	39.9	100	87 - 122	
Toluene-d8	40.0	39.7	99	85 - 113	
4-Bromofluorobenzene	40.0	38.9	97	82 - 110	

Internal Standard	Area	RT	% REC	Ref. RT	Q
Fluorobenzene	851141	5.46	99	5.46	
Chlorobenzene-d5	701668	9.93	100	9.93	
1,4-Dichlorobenzene-d4	438321	12.87	93	12.87	

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1210102-BLK2 File ID: BLK0820.D

Prepared: 08/20/12 08:00 Analyzed: 08/20/12 10:07

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1210102 Sequence: 2H20050 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
67-64-1	Acetone	5.0	ug/L	1.1	5.0	U
71-43-2	Benzene	1.0	ug/L	0.11	1.0	U
75-27-4	Bromodichloromethane	1.0	ug/L	0.13	1.0	U
75-25-2	Bromoform	1.0	ug/L	0.26	1.0	U
74-83-9	Bromomethane	1.0	ug/L	0.21	1.0	U
75-15-0	Carbon Disulfide	5.0	ug/L	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1.0	ug/L	0.26	1.0	U
108-90-7	Chlorobenzene	1.0	ug/L	0.17	1.0	U
75-00-3	Chloroethane	1.0	ug/L	0.14	1.0	U
67-66-3	Chloroform	1.0	ug/L	0.098	1.0	U
74-87-3	Chloromethane	1.0	ug/L	0.29	1.0	U
110-82-7	Cyclohexane	5.0	ug/L	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	ug/L	0.13	1.0	U
124-48-1	Dibromochloromethane	1.0	ug/L	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1.0	ug/L	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	ug/L	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	ug/L	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1.0	ug/L	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1.0	ug/L	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1.0	ug/L	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	ug/L	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	ug/L	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1.0	ug/L	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
100-41-4	Ethylbenzene	1.0	ug/L	0.21	1.0	U
591-78-6	2-Hexanone	5.0	ug/L	0.49	5.0	U
98-82-8	Isopropylbenzene	1.0	ug/L	0.22	1.0	U
79-20-9	Methyl Acetate	5.0	ug/L	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1.0	ug/L	0.19	1.0	U
108-87-2	Methylcyclohexane	5.0	ug/L	0.37	5.0	U
75-09-2	Methylene Chloride	0.32	ug/L	0.24	1.0	J
78-93-3	2-Butanone (MEK)	5.0	ug/L	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	ug/L	0.40	5.0	U
100-42-5	Styrene	1.0	ug/L	0.20	1.0	U

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1210102-BLK2 File ID: BLK0820.D

Prepared: 08/20/12 08:00 Analyzed: 08/20/12 10:07

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1210102 Sequence: 2H20050 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
79-34-5	1,1,2,2-Tetrachloroethane	1.0	ug/L	0.26	1.0	U
127-18-4	Tetrachloroethene	1.0	ug/L	0.23	1.0	U
108-88-3	Toluene	1.0	ug/L	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	ug/L	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	ug/L	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	ug/L	0.20	1.0	U
79-01-6	Trichloroethene	1.0	ug/L	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1.0	ug/L	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	ug/L	0.24	1.0	U
75-01-4	Vinyl Chloride	1.0	ug/L	0.21	1.0	U
1330-20-7	Xylene (Total)	3.0	ug/L	0.39	3.0	U

System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
Dibromofluoromethane	40.0	40.4	101	85 - 118	
1,2-Dichloroethane-d4	40.0	38.8	97	87 - 122	
Toluene-d8	40.0	39.7	99	85 - 113	
4-Bromofluorobenzene	40.0	39.4	98	82 - 110	

Internal Standard	Area	RT	% REC	Ref. RT	Q
Fluorobenzene	870568	5.46	97	5.46	
Chlorobenzene-d5	722754	9.93	99	9.93	
1,4-Dichlorobenzene-d4	458355	12.87	93	12.87	

QC BATCH SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM070512

Client: TechLaw

Project: KNM

QC Batch: 1210102

QC Batch Matrix: Water

Preparation: 5030B Aqueous Purge & Trap

Sample Name	Lab Sample ID	Date Prepared	Observations
106076	1208169-01	08/20/12 08:00	
1064	1208169-02	08/17/12 12:00	
106100	1208170-01	08/17/12 12:00	
106099	1208170-02	08/17/12 12:00	
106066	1208192-01	08/17/12 12:00	
Blank	1210102-BLK1	08/17/12 12:00	
Blank	1210102-BLK2	08/20/12 08:00	
LCS	1210102-BS1	08/17/12 12:00	
LCS	1210102-BS2	08/20/12 08:00	
LCS Dup	1210102-BSD2	08/20/12 08:00	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Lab Sample ID: 2G19007-TUN1
Injection Date: 07/17/12
Sequence: 2G19007

SDG: KNM070512
Project: KNM
Lab File ID: BFB0717A.D
Injection Time: 14:46
Calibration: 2G19002
Instrument ID: 224

m/z	Ion Abundance Criteria	% Relative Abundance	
50	15 - 40% of 95	17.5	PASS
75	30 - 60% of 95	46.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.91	PASS
173	Less than 2% of 174	0.365	PASS
174	50 - 100% of 95	95.7	PASS
175	5 - 9% of 174	7.31	PASS
176	95 - 101% of 174	97	PASS
177	5 - 9% of 176	6.79	PASS

INITIAL CALIBRATION STANDARDS
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Sequence: 2G19007

SDG: KNM070512
Project: KNM
Calibration: 2G19002
Instrument: 224

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
2031374	8260 Tune Working Standard 03-29-12	2G19007-TUN1	BFB0717A.D	07/17/12 14:46
2070506	1 UG/L B	2G19007-CAL1	1P0717.D	07/17/12 15:42
2070507	5 UG/L B	2G19007-CAL2	5P0717.D	07/17/12 16:08
2070509	10 UG/L B	2G19007-CAL3	10P0717.D	07/17/12 16:35
2070511	20 UG/L B	2G19007-CAL4	20P0717.D	07/17/12 17:02
2070512	40 UG/L B	2G19007-CAL5	40P0717.D	07/17/12 17:29
2070514	100 UG/L B	2G19007-CAL6	100P0717.D	07/17/12 17:56
2070516	200 UG/L B	2G19007-CAL7	200P0717.D	07/17/12 18:49
2070149	40 UG/L A	2G19007-SCV1	SCV0717.D	07/17/12 19:43

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM070512
Client: TechLaw
Project: KNM
Lab Sample ID: 2G19009-TUN1
Lab File ID: BFB0718.D
Injection Date: 07/18/12
Injection Time: 08:12
Sequence: 2G19009
Instrument ID: 224

m/z	Ion Abundance Criteria	% Relative Abundance	
50	15 - 40% of 95	18	PASS
75	30 - 60% of 95	46.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.82	PASS
173	Less than 2% of 174	0.472	PASS
174	50 - 100% of 95	99.8	PASS
175	5 - 9% of 174	6.98	PASS
176	95 - 101% of 174	96.7	PASS
177	5 - 9% of 176	6.08	PASS

ANALYSIS BATCH (SEQUENCE) SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Sequence: 2G19009

SDG: KNM070512
Project: KNM
Calibration: 2G19002
Instrument: 224

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2G19009-TUN1	BFB0718.D	07/18/12 08:12
Calibration Check	2G19009-CCV1	CCV0718.D	07/18/12 08:38
LCS	1208743-BS1	BS0718.D	07/18/12 09:05
Blank	1208743-BLK1	BLK0718.D	07/18/12 09:59
KAFB015	1207057-01	1207057-01.D	07/18/12 10:25
KAFB016	1207057-02	1207057-02.D	07/18/12 10:52
106042	1207122-01	1207122-01.D	07/18/12 11:19
106043	1207122-02	1207122-02.D	07/18/12 11:45
106058	1207213-01	1207213-01.D	07/18/12 12:12
106057	1207213-02	1207213-02.D	07/18/12 12:39
106107	1207239-01	1207239-01.D	07/18/12 13:06
106106	1207239-02	1207239-02.D	07/18/12 13:32
106105	1207239-03	1207239-03.D	07/18/12 13:59
KAFB015	1208743-MS1	05701MS.D	07/18/12 18:54
KAFB015	1208743-MSD1	05701MSD.D	07/18/12 19:20

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Lab Sample ID: 2G27017-TUN1
Injection Date: 07/23/12
Sequence: 2G27017

SDG: KNM070512
Project: KNM
Lab File ID: BFB0723.D
Injection Time: 07:40
Calibration: 2G27002
Instrument ID: 328

m/z	Ion Abundance Criteria	% Relative Abundance	
50	15 - 40% of 95	21	PASS
75	30 - 60% of 95	52.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.63	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	88	PASS
175	5 - 9% of 174	7.38	PASS
176	95 - 101% of 174	96.7	PASS
177	5 - 9% of 176	6.63	PASS

INITIAL CALIBRATION STANDARDS
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Sequence: 2G27017

SDG: KNM070512
Project: KNM
Calibration: 2G27002
Instrument: 328

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
2070719	8260 Tune Working Standard 07-19-12	2G27017-TUN1	BFB0723.D	07/23/12 07:40
2071180	1 UG/L A	2G27017-CAL1	1P0723.D	07/23/12 14:08
2071181	5.0 UG/L A	2G27017-CAL2	5P0723.D	07/23/12 14:36
2071182	10 UG/L A	2G27017-CAL3	10P0723.D	07/23/12 15:03
2071183	20 UG/L A	2G27017-CAL4	20P0723.D	07/23/12 15:31
2071184	40 UG/L A	2G27017-CAL5	40P0723.D	07/23/12 15:59
2071185	100 UG/L A	2G27017-CAL6	100P0723.D	07/23/12 16:27
2071186	200 UG/L A	2G27017-CAL7	200P0723.D	07/23/12 17:23
2070512	40 UG/L B	2G27017-SCV1	SCV0723.D	07/23/12 18:18

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM070512
Client: TechLaw
Project: KNM
Lab Sample ID: 2G27052-TUN1
Lab File ID: BFB0726.D
Injection Date: 07/26/12
Injection Time: 08:32
Sequence: 2G27052
Instrument ID: 328

m/z	Ion Abundance Criteria	% Relative Abundance	
50	15 - 40% of 95	21.6	PASS
75	30 - 60% of 95	53.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.18	PASS
173	Less than 2% of 174	0.945	PASS
174	50 - 100% of 95	89.6	PASS
175	5 - 9% of 174	6.84	PASS
176	95 - 101% of 174	98.7	PASS
177	5 - 9% of 176	6.16	PASS

ANALYSIS BATCH (SEQUENCE) SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Sequence: 2G27052

SDG: KNM070512
Project: KNM
Calibration: 2G27002
Instrument: 328

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2G27052-TUN1	BFB0726.D	07/26/12 08:32
Calibration Check	2G27052-CCV1	CCV0726.D	07/26/12 09:00
LCS	1209178-BS1	BS0726.D	07/26/12 09:27
Blank	1209178-BLK1	BLK0726.D	07/26/12 10:23
106031	1207258-02	1207258-02.D	07/26/12 12:14
106101	1207258-03	1207258-03.D	07/26/12 12:42
106098	1207292-01	1207292-01.D	07/26/12 13:10
106013	1207292-02	1207292-02.D	07/26/12 13:37
106026	1207292-03	1207292-03.D	07/26/12 14:05
106038	1207368-01	1207368-01.D	07/26/12 15:00
106040	1207368-02	1207368-02.D	07/26/12 15:28
106104	1207370-01	1207370-01.D	07/26/12 15:56
10623	1207370-02	1207370-02.D	07/26/12 16:24
106063	1207404-01	1207404-01.D	07/26/12 16:52
106055	1207404-02	1207404-02.D	07/26/12 17:20
106102	1207258-01	1207258-01A.D	07/26/12 17:47

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Lab Sample ID: 2H01030-TUN1
Injection Date: 07/26/12
Sequence: 2H01030

SDG: KNM070512
Project: KNM
Lab File ID: BFB0726.D
Injection Time: 09:05
Calibration: 2H01006
Instrument ID: 224

m/z	Ion Abundance Criteria	% Relative Abundance	
50	15 - 40% of 95	17.2	PASS
75	30 - 60% of 95	45.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.47	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	97.3	PASS
175	5 - 9% of 174	7.35	PASS
176	95 - 101% of 174	95.9	PASS
177	5 - 9% of 176	6.5	PASS

INITIAL CALIBRATION STANDARDS
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Sequence: 2H01030

SDG: KNM070512
Project: KNM
Calibration: 2H01006
Instrument: 224

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
2070719	8260 Tune Working Standard 07-19-12	2H01030-TUN1	BFB0726.D	07/26/12 09:05
2070506	1 UG/L B	2H01030-CAL1	1P0726.D	07/26/12 11:35
2070507	5 UG/L B	2H01030-CAL2	5P0726.D	07/26/12 12:02
2070509	10 UG/L B	2H01030-CAL3	10P0726.D	07/26/12 12:28
2070511	20 UG/L B	2H01030-CAL4	20P0726.D	07/26/12 12:55
2070512	40 UG/L B	2H01030-CAL5	40P0726.D	07/26/12 13:22
2070514	100 UG/L B	2H01030-CAL6	100P0726.D	07/26/12 13:49
2070516	200 UG/L B	2H01030-CAL7	200P0726.D	07/26/12 14:42
2071184	40 UG/L A	2H01030-SCV1	SCV0726.D	07/26/12 15:36

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM070512
Client: TechLaw
Project: KNM
Lab Sample ID: 2H07013-TUN1
Lab File ID: BFB0806.D
Injection Date: 08/06/12
Injection Time: 08:04
Sequence: 2H07013
Instrument ID: 224

m/z	Ion Abundance Criteria	% Relative Abundance	
50	15 - 40% of 95	16.9	PASS
75	30 - 60% of 95	44.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.36	PASS
173	Less than 2% of 174	0.184	PASS
174	50 - 100% of 95	99.6	PASS
175	5 - 9% of 174	7.72	PASS
176	95 - 101% of 174	97.8	PASS
177	5 - 9% of 176	6.72	PASS

ANALYSIS BATCH (SEQUENCE) SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Sequence: 2H07013

SDG: KNM070512
Project: KNM
Calibration: 2H01006
Instrument: 224

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2H07013-TUN1	BFB0806.D	08/06/12 08:04
Calibration Check	2H07013-CCV1	CCV0806.D	08/06/12 08:36
LCS	1209584-BS1	BS0806.D	08/06/12 09:03
Blank	1209584-BLK1	BLK0806.D	08/06/12 09:57
106051	1208015-01	1208015-01.D	08/06/12 11:17
106035	1208015-02	1208015-02.D	08/06/12 11:43
106036	1208015-03	1208015-03.D	08/06/12 12:10
106037	1208057-01	1208057-01.D	08/06/12 12:37
106051	1209584-MS1	1208015-01MS.D	08/06/12 15:44
106051	1209584-MSD1	1208015-01MSD.D	08/06/12 16:11

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Lab Sample ID: 2H10006-TUN1
Injection Date: 08/08/12
Sequence: 2H10006

SDG: KNM070512
Project: KNM
Lab File ID: BFB0808.D
Injection Time: 13:09
Calibration: 2H10001
Instrument ID: 323

m/z	Ion Abundance Criteria	% Relative Abundance	
50	15 - 40% of 95	20	PASS
75	30 - 60% of 95	48.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.54	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	96.9	PASS
175	5 - 9% of 174	7.46	PASS
176	95 - 101% of 174	96.6	PASS
177	5 - 9% of 176	6.68	PASS

INITIAL CALIBRATION STANDARDS
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Sequence: 2H10006

SDG: KNM070512
Project: KNM
Calibration: 2H10001
Instrument: 323

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
2070719	8260 Tune Working Standard 07-19-12	2H10006-TUN1	BFB0808.D	08/08/12 13:09
2080378	1 UG/L B	2H10006-CAL1	1P0808.D	08/08/12 14:31
2080379	5 UG/L B	2H10006-CAL2	5P0808.D	08/08/12 14:58
2080380	10 UG/L B	2H10006-CAL3	10P0808.D	08/08/12 15:25
2080381	20 UG/L B	2H10006-CAL4	20P0808.D	08/08/12 15:53
2080382	40 UG/L B	2H10006-CAL5	40P0808.D	08/08/12 16:20
2080383	100 UG/L B	2H10006-CAL6	100P0808.D	08/08/12 16:47
2080384	200 UG/L B	2H10006-CAL7	200P0808.D	08/08/12 17:41
2080055	40 UG/L A	2H10006-SCV1	SCV0808.D	08/08/12 18:36

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM070512
Client: TechLaw
Project: KNM
Lab Sample ID: 2H20042-TUN1
Lab File ID: BFB0817A.D
Injection Date: 08/17/12
Injection Time: 12:13
Sequence: 2H20042
Instrument ID: 323

m/z	Ion Abundance Criteria	% Relative Abundance	
50	15 - 40% of 95	22	PASS
75	30 - 60% of 95	50.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.31	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	95.5	PASS
175	5 - 9% of 174	7.34	PASS
176	95 - 101% of 174	97.9	PASS
177	5 - 9% of 176	6.81	PASS

ANALYSIS BATCH (SEQUENCE) SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Sequence: 2H20042

SDG: KNM070512
Project: KNM
Calibration: 2H10001
Instrument: 323

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2H20042-TUN1	BFB0817A.D	08/17/12 12:13
Calibration Check	2H20042-CCV1	CCV0817A.D	08/17/12 12:49
LCS	1210102-BS1	BS0817A.D	08/17/12 13:16
Blank	1210102-BLK1	BLK0817A.D	08/17/12 14:10
1064	1208169-02	1208169-02.D	08/17/12 20:31
106100	1208170-01	1208170-01.D	08/17/12 20:58
106099	1208170-02	1208170-02.D	08/17/12 21:26
106066	1208192-01	1208192-01.D	08/17/12 21:53

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Lab Sample ID: 2H20050-TUN1
Injection Date: 08/20/12
Sequence: 2H20050

SDG: KNM070512
Project: KNM
Lab File ID: BFB0820.D
Injection Time: 08:18
Instrument ID: 323

m/z	Ion Abundance Criteria	% Relative Abundance	
50	15 - 40% of 95	21.4	PASS
75	30 - 60% of 95	52.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.22	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	96	PASS
175	5 - 9% of 174	7.55	PASS
176	95 - 101% of 174	97.9	PASS
177	5 - 9% of 176	6.77	PASS

ANALYSIS BATCH (SEQUENCE) SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Sequence: 2H20050

SDG: KNM070512
Project: KNM
Calibration: 2H10001
Instrument: 323

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2H20050-TUN1	BFB0820.D	08/20/12 08:18
Calibration Check	2H20050-CCV1	CCV0820.D	08/20/12 08:45
LCS	1210102-BS2	CCV0820.D	08/20/12 08:45
LCS Dup	1210102-BSD2	BS0820.D	08/20/12 09:12
Blank	1210102-BLK2	BLK0820.D	08/20/12 10:07
106076	1208169-01	1208169-01.D	08/20/12 10:34

INTERNAL STANDARD AREA AND RT SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2G19009

SDG: KNM070512
Project: KNM
Calibration: 2G19002
Instrument: 224

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2G19009-CCV1)			**Lab File ID: CCV0718.D**			**Analyzed: 07/18/12 08:38**			
Fluorobenzene	1059433	6.61	1159482	6.61	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	872251	10.8	933349	10.8	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	514636	13.75	560180	13.75	92	50 - 200	0.0000	+/-0.50	
LCS (1208743-BS1)			**Lab File ID: BS0718.D**			**Analyzed: 07/18/12 09:05**			
Fluorobenzene	1087805	6.6	1059433	6.61	103	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	881621	10.8	872251	10.8	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	512167	13.75	514636	13.75	100	50 - 200	0.0000	+/-0.50	
Blank (1208743-BLK1)			**Lab File ID: BLK0718.D**			**Analyzed: 07/18/12 09:59**			
Fluorobenzene	1043970	6.61	1059433	6.61	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	843255	10.8	872251	10.8	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	471755	13.75	514636	13.75	92	50 - 200	0.0000	+/-0.50	
KAFB015 (1207057-01)			**Lab File ID: 1207057-01.D**			**Analyzed: 07/18/12 10:25**			
Fluorobenzene	1012984	6.61	1059433	6.61	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	826501	10.8	872251	10.8	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	462185	13.75	514636	13.75	90	50 - 200	0.0000	+/-0.50	
KAFB016 (1207057-02)			**Lab File ID: 1207057-02.D**			**Analyzed: 07/18/12 10:52**			
Fluorobenzene	1043611	6.61	1059433	6.61	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	846937	10.8	872251	10.8	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	469547	13.75	514636	13.75	91	50 - 200	0.0000	+/-0.50	
106042 (1207122-01)			**Lab File ID: 1207122-01.D**			**Analyzed: 07/18/12 11:19**			
Fluorobenzene	1032891	6.61	1059433	6.61	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	854657	10.8	872251	10.8	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	477594	13.75	514636	13.75	93	50 - 200	0.0000	+/-0.50	
106043 (1207122-02)			**Lab File ID: 1207122-02.D**			**Analyzed: 07/18/12 11:45**			
Fluorobenzene	1033548	6.61	1059433	6.61	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	834629	10.8	872251	10.8	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	466712	13.75	514636	13.75	91	50 - 200	0.0000	+/-0.50	
106058 (1207213-01)			**Lab File ID: 1207213-01.D**			**Analyzed: 07/18/12 12:12**			
Fluorobenzene	1028262	6.61	1059433	6.61	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	830982	10.8	872251	10.8	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	457831	13.75	514636	13.75	89	50 - 200	0.0000	+/-0.50	
106057 (1207213-02)			**Lab File ID: 1207213-02.D**			**Analyzed: 07/18/12 12:39**			
Fluorobenzene	1027082	6.61	1059433	6.61	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	847488	10.8	872251	10.8	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	468694	13.75	514636	13.75	91	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2G19009

SDG: KNM070512
Project: KNM
Calibration: 2G19002
Instrument: 224

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
106107 (1207239-01)			**Lab File ID: 1207239-01.D**			**Analyzed: 07/18/12 13:06**			
Fluorobenzene	1035815	6.61	1059433	6.61	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	843274	10.8	872251	10.8	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	471227	13.75	514636	13.75	92	50 - 200	0.0000	+/-0.50	
106106 (1207239-02)			**Lab File ID: 1207239-02.D**			**Analyzed: 07/18/12 13:32**			
Fluorobenzene	1006581	6.6	1059433	6.61	95	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	809750	10.8	872251	10.8	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	457265	13.75	514636	13.75	89	50 - 200	0.0000	+/-0.50	
106105 (1207239-03)			**Lab File ID: 1207239-03.D**			**Analyzed: 07/18/12 13:59**			
Fluorobenzene	1021248	6.61	1059433	6.61	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	824541	10.8	872251	10.8	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	459288	13.75	514636	13.75	89	50 - 200	0.0000	+/-0.50	
Matrix Spike (1208743-MS1)			**Lab File ID: 05701MS.D**			**Analyzed: 07/18/12 18:54**			
Fluorobenzene	1029310	6.61	1059433	6.61	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	833434	10.8	872251	10.8	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	496155	13.75	514636	13.75	96	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (1208743-MSD1)			**Lab File ID: 05701MSD.D**			**Analyzed: 07/18/12 19:20**			
Fluorobenzene	1039425	6.61	1059433	6.61	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	840017	10.8	872251	10.8	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	497772	13.75	514636	13.75	97	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2G27052

SDG: KNM070512
Project: KNM
Calibration: 2G27002
Instrument: 328

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2G27052-CCV1)			**Lab File ID: CCV0726.D**			**Analyzed: 07/26/12 09:00**			
Fluorobenzene	853587	5.884	969890	5.872	88	50 - 200	0.0120	+/-0.50	
Chlorobenzene-d5	673207	10.298	724510	10.286	93	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	375554	13.298	406555	13.285	92	50 - 200	0.0130	+/-0.50	
LCS (1209178-BS1)			**Lab File ID: BS0726.D**			**Analyzed: 07/26/12 09:27**			
Fluorobenzene	922508	5.878	853587	5.872	108	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	714262	10.298	673207	10.286	106	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	388675	13.291	375554	13.285	103	50 - 200	0.0060	+/-0.50	
Blank (1209178-BLK1)			**Lab File ID: BLK0726.D**			**Analyzed: 07/26/12 10:23**			
Fluorobenzene	887820	5.885	853587	5.872	104	50 - 200	0.0130	+/-0.50	
Chlorobenzene-d5	645514	10.298	673207	10.286	96	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	281555	13.298	375554	13.285	75	50 - 200	0.0130	+/-0.50	
106031 (1207258-02)			**Lab File ID: 1207258-02.D**			**Analyzed: 07/26/12 12:14**			
Fluorobenzene	962299	5.878	853587	5.872	113	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	700510	10.298	673207	10.286	104	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	317364	13.298	375554	13.285	85	50 - 200	0.0130	+/-0.50	
106101 (1207258-03)			**Lab File ID: 1207258-03.D**			**Analyzed: 07/26/12 12:42**			
Fluorobenzene	890515	5.878	853587	5.872	104	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	645394	10.298	673207	10.286	96	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	289280	13.292	375554	13.285	77	50 - 200	0.0070	+/-0.50	
106098 (1207292-01)			**Lab File ID: 1207292-01.D**			**Analyzed: 07/26/12 13:10**			
Fluorobenzene	885970	5.885	853587	5.872	104	50 - 200	0.0130	+/-0.50	
Chlorobenzene-d5	640498	10.298	673207	10.286	95	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	283189	13.292	375554	13.285	75	50 - 200	0.0070	+/-0.50	
106013 (1207292-02)			**Lab File ID: 1207292-02.D**			**Analyzed: 07/26/12 13:37**			
Fluorobenzene	849582	5.884	853587	5.872	100	50 - 200	0.0120	+/-0.50	
Chlorobenzene-d5	620367	10.298	673207	10.286	92	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	278935	13.292	375554	13.285	74	50 - 200	0.0070	+/-0.50	
106026 (1207292-03)			**Lab File ID: 1207292-03.D**			**Analyzed: 07/26/12 14:05**			
Fluorobenzene	830491	5.878	853587	5.872	97	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	609980	10.298	673207	10.286	91	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	267596	13.298	375554	13.285	71	50 - 200	0.0130	+/-0.50	
106038 (1207368-01)			**Lab File ID: 1207368-01.D**			**Analyzed: 07/26/12 15:00**			
Fluorobenzene	813029	5.879	853587	5.872	95	50 - 200	0.0070	+/-0.50	
Chlorobenzene-d5	601193	10.298	673207	10.286	89	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	270906	13.298	375554	13.285	72	50 - 200	0.0130	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2G27052

SDG: KNM070512
Project: KNM
Calibration: 2G27002
Instrument: 328

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
106040 (1207368-02)			**Lab File ID: 1207368-02.D**			**Analyzed: 07/26/12 15:28**			
Fluorobenzene	806080	5.884	853587	5.872	94	50 - 200	0.0120	+/-0.50	
Chlorobenzene-d5	591343	10.298	673207	10.286	88	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	259601	13.298	375554	13.285	69	50 - 200	0.0130	+/-0.50	
106104 (1207370-01)			**Lab File ID: 1207370-01.D**			**Analyzed: 07/26/12 15:56**			
Fluorobenzene	794410	5.885	853587	5.872	93	50 - 200	0.0130	+/-0.50	
Chlorobenzene-d5	582595	10.298	673207	10.286	87	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	250954	13.298	375554	13.285	67	50 - 200	0.0130	+/-0.50	
10623 (1207370-02)			**Lab File ID: 1207370-02.D**			**Analyzed: 07/26/12 16:24**			
Fluorobenzene	789729	5.885	853587	5.872	93	50 - 200	0.0130	+/-0.50	
Chlorobenzene-d5	579918	10.298	673207	10.286	86	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	256909	13.298	375554	13.285	68	50 - 200	0.0130	+/-0.50	
106063 (1207404-01)			**Lab File ID: 1207404-01.D**			**Analyzed: 07/26/12 16:52**			
Fluorobenzene	779905	5.885	853587	5.872	91	50 - 200	0.0130	+/-0.50	
Chlorobenzene-d5	577402	10.298	673207	10.286	86	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	244055	13.298	375554	13.285	65	50 - 200	0.0130	+/-0.50	
106055 (1207404-02)			**Lab File ID: 1207404-02.D**			**Analyzed: 07/26/12 17:20**			
Fluorobenzene	788498	5.884	853587	5.872	92	50 - 200	0.0120	+/-0.50	
Chlorobenzene-d5	590305	10.298	673207	10.286	88	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	253923	13.292	375554	13.285	68	50 - 200	0.0070	+/-0.50	
106102 (1207258-01)			**Lab File ID: 1207258-01A.D**			**Analyzed: 07/26/12 17:47**			
Fluorobenzene	778098	5.885	853587	5.872	91	50 - 200	0.0130	+/-0.50	
Chlorobenzene-d5	576351	10.298	673207	10.286	86	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	244882	13.298	375554	13.285	65	50 - 200	0.0130	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2H07013

SDG: KNM070512
Project: KNM
Calibration: 2H01006
Instrument: 224

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2H07013-CCV1)			**Lab File ID: CCV0806.D**			**Analyzed: 08/06/12 08:36**			
Fluorobenzene	635373	6.6	717487	6.6	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	575253	10.8	596522	10.8	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	359474	13.75	355721	13.75	101	50 - 200	0.0000	+/-0.50	
LCS (1209584-BS1)			**Lab File ID: BS0806.D**			**Analyzed: 08/06/12 09:03**			
Fluorobenzene	670869	6.6	635373	6.6	106	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	525417	10.8	575253	10.8	91	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	310324	13.75	359474	13.75	86	50 - 200	0.0000	+/-0.50	
Blank (1209584-BLK1)			**Lab File ID: BLK0806.D**			**Analyzed: 08/06/12 09:57**			
Fluorobenzene	652883	6.6	635373	6.6	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	495887	10.8	575253	10.8	86	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	281757	13.75	359474	13.75	78	50 - 200	0.0000	+/-0.50	
106051 (1208015-01)			**Lab File ID: 1208015-01.D**			**Analyzed: 08/06/12 11:17**			
Fluorobenzene	537593	6.6	635373	6.6	85	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	498089	10.8	575253	10.8	87	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	261781	13.75	359474	13.75	73	50 - 200	0.0000	+/-0.50	
106035 (1208015-02)			**Lab File ID: 1208015-02.D**			**Analyzed: 08/06/12 11:43**			
Fluorobenzene	525201	6.6	635373	6.6	83	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	484111	10.8	575253	10.8	84	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	260918	13.75	359474	13.75	73	50 - 200	0.0000	+/-0.50	
106036 (1208015-03)			**Lab File ID: 1208015-03.D**			**Analyzed: 08/06/12 12:10**			
Fluorobenzene	515693	6.6	635373	6.6	81	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	450676	10.8	575253	10.8	78	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	258927	13.75	359474	13.75	72	50 - 200	0.0000	+/-0.50	
106037 (1208057-01)			**Lab File ID: 1208057-01.D**			**Analyzed: 08/06/12 12:37**			
Fluorobenzene	512347	6.6	635373	6.6	81	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	445133	10.8	575253	10.8	77	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	250542	13.75	359474	13.75	70	50 - 200	0.0000	+/-0.50	
Matrix Spike (1209584-MS1)			**Lab File ID: 1208015-01MS.D**			**Analyzed: 08/06/12 15:44**			
Fluorobenzene	687317	6.6	635373	6.6	108	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	603590	10.8	575253	10.8	105	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	362753	13.74	359474	13.75	101	50 - 200	-0.0100	+/-0.50	
Matrix Spike Dup (1209584-MSD1)			**Lab File ID: 1208015-01MSD.D**			**Analyzed: 08/06/12 16:11**			
Fluorobenzene	698110	6.6	635373	6.6	110	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	601435	10.8	575253	10.8	105	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	359098	13.74	359474	13.75	100	50 - 200	-0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2H20042

SDG: KNM070512
Project: KNM
Calibration: 2H10001
Instrument: 323

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2H20042-CCV1)			**Lab File ID: CCV0817A.D**			**Analyzed: 08/17/12 12:49**			
Fluorobenzene	862893	5.46	1046300	5.46	82	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	701963	9.92	834338	9.93	84	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	473357	12.87	554342	12.87	85	50 - 200	0.0000	+/-0.50	
LCS (1210102-BS1)			**Lab File ID: BS0817A.D**			**Analyzed: 08/17/12 13:16**			
Fluorobenzene	888785	5.46	862893	5.46	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	728101	9.93	701963	9.93	104	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	492663	12.87	473357	12.87	104	50 - 200	0.0000	+/-0.50	
Blank (1210102-BLK1)			**Lab File ID: BLK0817A.D**			**Analyzed: 08/17/12 14:10**			
Fluorobenzene	851141	5.46	862893	5.46	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	701668	9.93	701963	9.93	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	438321	12.87	473357	12.87	93	50 - 200	0.0000	+/-0.50	
1064 (1208169-02)			**Lab File ID: 1208169-02.D**			**Analyzed: 08/17/12 20:31**			
Fluorobenzene	812675	5.46	862893	5.46	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	675494	9.92	701963	9.93	96	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	417385	12.87	473357	12.87	88	50 - 200	0.0000	+/-0.50	
106100 (1208170-01)			**Lab File ID: 1208170-01.D**			**Analyzed: 08/17/12 20:58**			
Fluorobenzene	812567	5.46	862893	5.46	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	681270	9.93	701963	9.93	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	415678	12.87	473357	12.87	88	50 - 200	0.0000	+/-0.50	
106099 (1208170-02)			**Lab File ID: 1208170-02.D**			**Analyzed: 08/17/12 21:26**			
Fluorobenzene	811821	5.46	862893	5.46	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	678612	9.93	701963	9.93	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	420393	12.87	473357	12.87	89	50 - 200	0.0000	+/-0.50	
106066 (1208192-01)			**Lab File ID: 1208192-01.D**			**Analyzed: 08/17/12 21:53**			
Fluorobenzene	810406	5.46	862893	5.46	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	679086	9.93	701963	9.93	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	414455	12.87	473357	12.87	88	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2H20050

SDG: KNM070512
Project: KNM
Calibration: 2H10001
Instrument: 323

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (1210102-BS2)			**Lab File ID: CCV0820.D**			**Analyzed: 08/20/12 08:45**			
Fluorobenzene	900274	5.46	1046300	5.46	86	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	730405	9.92	834338	9.93	88	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	491591	12.87	554342	12.87	89	50 - 200	0.0000	+/-0.50	
Calibration Check (2H20050-CCV1)			**Lab File ID: CCV0820.D**			**Analyzed: 08/20/12 08:45**			
Fluorobenzene	900274	5.46	1046300	5.46	86	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	730405	9.92	834338	9.93	88	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	491591	12.87	554342	12.87	89	50 - 200	0.0000	+/-0.50	
LCS Dup (1210102-BSD2)			**Lab File ID: BS0820.D**			**Analyzed: 08/20/12 09:12**			
Fluorobenzene	916974	5.46	900274	5.46	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	745518	9.92	730405	9.93	102	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	506962	12.87	491591	12.87	103	50 - 200	0.0000	+/-0.50	
Blank (1210102-BLK2)			**Lab File ID: BLK0820.D**			**Analyzed: 08/20/12 10:07**			
Fluorobenzene	870568	5.46	900274	5.46	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	722754	9.93	730405	9.93	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	458355	12.87	491591	12.87	93	50 - 200	0.0000	+/-0.50	
106076 (1208169-01)			**Lab File ID: 1208169-01.D**			**Analyzed: 08/20/12 10:34**			
Fluorobenzene	895259	5.46	900274	5.46	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	739627	9.93	730405	9.93	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	479287	12.87	491591	12.87	97	50 - 200	0.0000	+/-0.50	

HOLDING TIME SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM070512

Client: TechLaw

Project: KNM

Method: Volatile Organic Compounds by EPA Method 8260B

Sample Name	Date Collected	Date Received	Date Leached	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
KAFB015	07/05/12	07/06/12		07/18/12	13	NA	07/18/12	13	14	
KAFB016	07/05/12	07/06/12		07/18/12	13	NA	07/18/12	13	14	
106042	07/10/12	07/11/12		07/18/12	8	NA	07/18/12	8	14	
106043	07/10/12	07/11/12		07/18/12	8	NA	07/18/12	8	14	
106058	07/16/12	07/17/12		07/18/12	2	NA	07/18/12	2	14	
106057	07/16/12	07/17/12		07/18/12	2	NA	07/18/12	2	14	
106107	07/17/12	07/18/12		07/18/12	1	NA	07/18/12	1	14	
106106	07/17/12	07/18/12		07/18/12	1	NA	07/18/12	1	14	
106105	07/17/12	07/18/12		07/18/12	1	NA	07/18/12	1	14	
106102	07/18/12	07/19/12		07/26/12	8	NA	07/26/12	8	14	
106031	07/18/12	07/19/12		07/26/12	8	NA	07/26/12	8	14	
106101	07/18/12	07/19/12		07/26/12	8	NA	07/26/12	8	14	
106098	07/19/12	07/20/12		07/26/12	7	NA	07/26/12	7	14	
106013	07/19/12	07/20/12		07/26/12	7	NA	07/26/12	7	14	
106026	07/19/12	07/20/12		07/26/12	7	NA	07/26/12	7	14	
106038	07/24/12	07/25/12		07/26/12	2	NA	07/26/12	2	14	
106040	07/24/12	07/25/12		07/26/12	2	NA	07/26/12	2	14	
106104	07/21/12	07/25/12		07/26/12	5	NA	07/26/12	5	14	
10623	07/24/12	07/25/12		07/26/12	2	NA	07/26/12	2	14	
106063	07/25/12	07/26/12		07/26/12	1	NA	07/26/12	1	14	
106055	07/25/12	07/26/12		07/26/12	1	NA	07/26/12	1	14	
106051	07/31/12	08/01/12		08/06/12	6	NA	08/06/12	6	14	

HOLDING TIME SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM070512

Client: TechLaw

Project: KNM

Method: Volatile Organic Compounds by EPA Method 8260B

Sample Name	Date Collected	Date Received	Date Leached	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
106035	07/31/12	08/01/12		08/06/12	6	NA	08/06/12	6	14	
106036	07/31/12	08/01/12		08/06/12	6	NA	08/06/12	6	14	
106037	08/01/12	08/02/12		08/06/12	5	NA	08/06/12	5	14	
106076	08/07/12	08/08/12		08/20/12	13	NA	08/20/12	13	14	
1064	08/07/12	08/08/12		08/17/12	10	NA	08/17/12	10	14	
106100	08/07/12	08/08/12		08/17/12	10	NA	08/17/12	10	14	
106099	08/07/12	08/08/12		08/17/12	10	NA	08/17/12	10	14	
106066	08/08/12	08/09/12		08/17/12	9	NA	08/17/12	9	14	

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

KAFB015

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512
Client: TechLaw Project: KNM
Matrix: Water Laboratory ID: 1207057-01 File ID: 1207057-01.D
Sampled: 07/05/12 11:00 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 10:25
Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL
QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	5.0	1.1	5.0	U
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	1.5	0.42	5.0	**J**
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

KAFB015

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512
Client: TechLaw Project: KNM
Matrix: Water Laboratory ID: 1207057-01 File ID: 1207057-01.D
Sampled: 07/05/12 11:00 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 10:25
Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL
QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.6	102	85 - 118	
1,2-Dichloroethane-d4	40.0	40.5	101	87 - 122	
Toluene-d8	40.0	39.4	99	85 - 113	
4-Bromofluorobenzene	40.0	38.9	97	82 - 110	

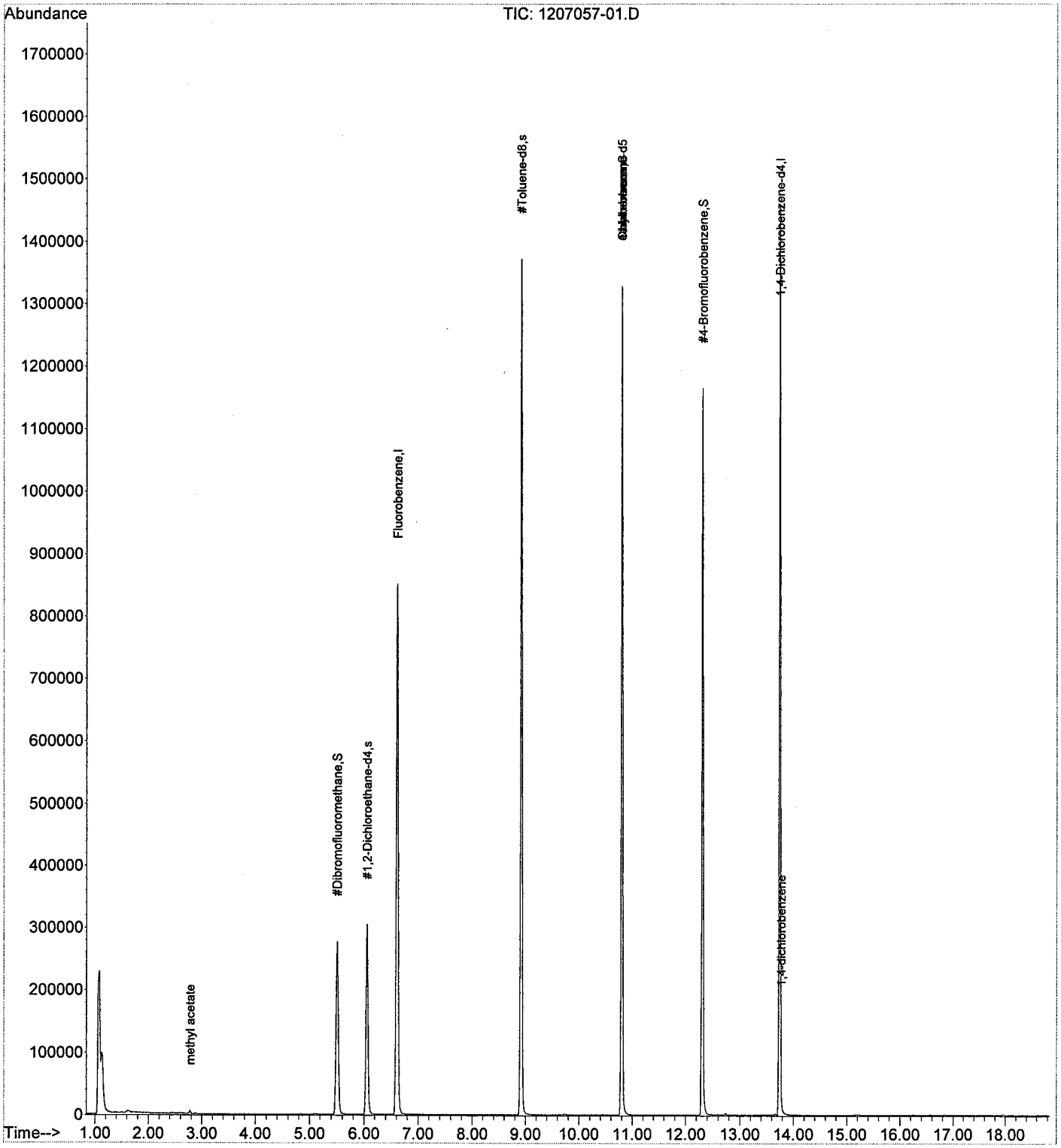
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	1012984	6.61	96	6.61	
Chlorobenzene-d5	826501	10.8	95	10.8	
1,4-Dichlorobenzene-d4	462185	13.75	90	13.75	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207057-01.D
Acq On : 18 Jul 2012 10:25
Operator : DLV
Sample : 1207057-01
Misc : TECH LAW
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 18 10:44:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207057-01.D
Acq On : 18 Jul 2012 10:25
Operator : DLV
Sample : 1207057-01
Misc : TECH LAW
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 18 10:44:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.61	96	1012984	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	826501	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	462185	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	241048	40.60 ug/L	0.00
Spiked Amount 40.000			Recovery	= 101.50%	
37) #1,2-Dichloroethane-d4	6.05	65	274060	40.53 ug/L	0.00
Spiked Amount 40.000			Recovery	= 101.33%	
47) #Toluene-d8	8.91	98	1018065	39.42 ug/L	0.00
Spiked Amount 40.000			Recovery	= 98.55%	
65) #4-Bromofluorobenzene	12.31	95	398982	38.91 ug/L	0.00
Spiked Amount 40.000			Recovery	= 97.27%	

Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	
3) chloromethane	0.00	50	0	N.D.	
4) vinyl chloride	0.00	62	0	N.D.	
5) bromomethane	0.00	94	0	N.D.	
6) chloroethane	0.00	64	0	N.D.	
7) dichlorofluoromethane	0.00	67	0	N.D.	
8) trichlorofluoromethane	0.00	101	0	N.D.	
9) ethyl ether	0.00	74	0	N.D.	
10) acrolein	0.00	56	0	N.D.	
11) 1,1,2-trichloro-1,2,2-trif	0.00	101	0	N.D.	
12) 1,1-dichloroethene	0.00	96	0	N.D.	
13) acetone	2.45	43	2348	Below Cal #	45
14) iodomethane	0.00	142	0	N.D.	
15) carbon disulfide	0.00	76	0	N.D.	
16) methyl acetate	2.77	43	7444	✓ 1.53 ug/L #	89
17) methylene chloride	0.00	49	0	N.D.	
18) acrylonitrile	0.00	53	0	N.D.	
19) trans-1,2-dichloroethene	0.00	96	0	N.D.	
20) methyl (tert) butyl ether	0.00	73	0	N.D.	
21) 1,1-dichloroethane	0.00	63	0	N.D.	
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	0.00	77	0	N.D.	
24) cis-1,2-dichloroethene	0.00	96	0	N.D.	
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	0.00	49	0	N.D.	
27) tetrahydrofuran	0.00	71	0	N.D.	
28) chloroform	0.00	83	0	N.D.	
30) 1,1,1-trichloroethane	0.00	97	0	N.D.	
31) cyclohexane	0.00	56	0	N.D.	
32) carbon tetrachloride	0.00	117	0	N.D.	
33) 1,1-dichloropropene	0.00	75	0	N.D.	
34) benzene	0.00	78	0	N.D.	
35) 1,2-dichloroethane	0.00	62	0	N.D.	
36) heptane	6.60	57	31105	No Calib #	
38) trichloroethene	0.00	130	0	N.D.	
39) methylcyclohexane	0.00	83	0	N.D.	
40) 1,2-dichloropropane	0.00	63	0	N.D.	
41) dibromomethane	0.00	93	0	N.D.	

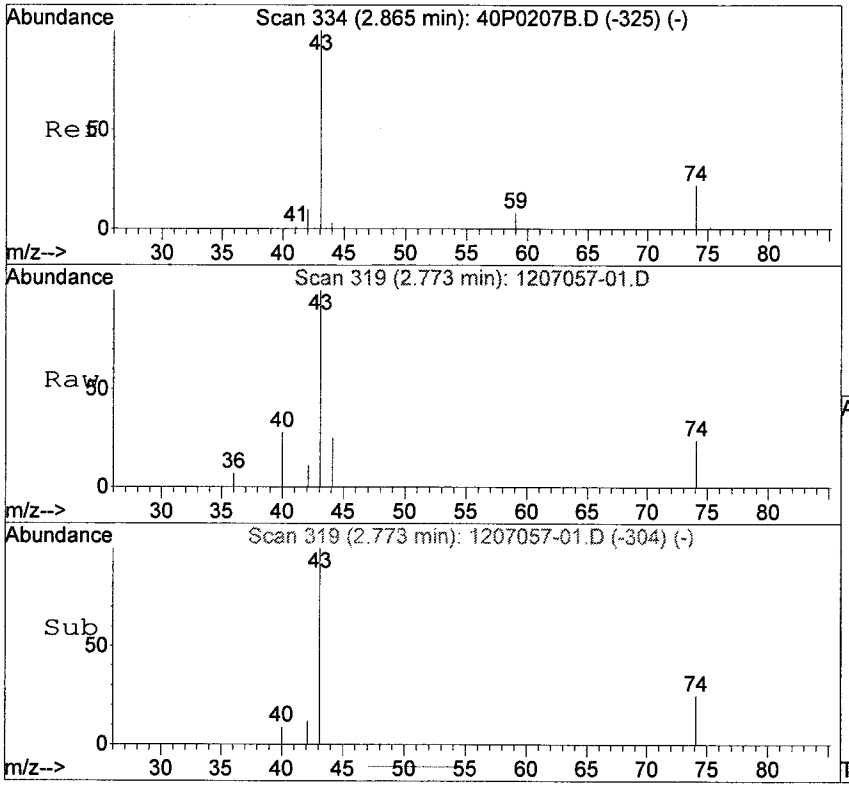
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207057-01.D
Acq On : 18 Jul 2012 10:25
Operator : DLV
Sample : 1207057-01
Misc : TECH LAW
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 18 10:44:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	0.00	83	0	N.D.	
44) 2-chloroethyl vinyl ether	0.00	63	0	N.D.	
45) cis-1,3-dichloropropene	0.00	75	0	N.D.	
46) 4-methyl-2-pentanone (MIBK	0.00	43	0	N.D.	
48) toluene	0.00	91	0	N.D.	
49) trans-1,3-dichloropropene	0.00	75	0	N.D.	
50) 1,1,2-trichloroethane	0.00	83	0	N.D.	
52) tetrachloroethene	0.00	166	0	N.D.	
53) 1,3-dichloropropane	0.00	76	0	N.D.	
54) 2-hexanone (MBK)	0.00	43	0	N.D.	
55) dibromochloromethane	0.00	129	0	N.D.	
56) 1,2-dibromoethane	0.00	109	0	N.D.	
57) chlorobenzene	0.00	112	0	N.D.	
58) 1-chlorohexane	10.80	55	6426	1.11 ug/L #	7
59) 1,1,1,2-tetrachloroethane	0.00	131	0	N.D.	
60) ethylbenzene	10.80	91	1365	0.05 ug/L #	44
61) m+p-xylene	0.00	106	0	N.D.	
62) o-xylene	0.00	106	0	N.D.	
63) styrene	0.00	104	0	N.D.	
64) bromoform	0.00	173	0	N.D.	
67) isopropylbenzene	0.00	105	0	N.D.	
68) bromobenzene	0.00	77	0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.00	83	0	N.D.	
70) 1,2,3-trichloropropane	0.00	110	0	N.D.	
71) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
72) n-propylbenzene	0.00	120	0	N.D.	
73) 2-chlorotoluene	0.00	126	0	N.D.	
74) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
75) 4-chlorotoluene	0.00	126	0	N.D.	
76) tert-butylbenzene	0.00	119	0	N.D.	
77) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
78) sec-butylbenzene	0.00	105	0	N.D.	
79) 1,3-dichlorobenzene	0.00	146	0	N.D.	
80) 4-isopropyltoluene	0.00	119	0	N.D.	
81) 1,4-dichlorobenzene	13.78	146	1583	0.12 ug/L #	50
82) 1,2-dichlorobenzene	0.00	146	0	N.D.	
83) n-butylbenzene	0.00	91	0	N.D.	
84) hexachloroethane	0.00	201	0	N.D.	
85) 1,2-dibromo-3-chloropropan	0.00	157	0	N.D.	
86) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
87) hexachlorobutadiene	0.00	225	0	N.D.	
88) naphthalene	0.00	128	0	N.D.	
89) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
90) 2-methylnaphthalene	0.00	142	0	N.D.	

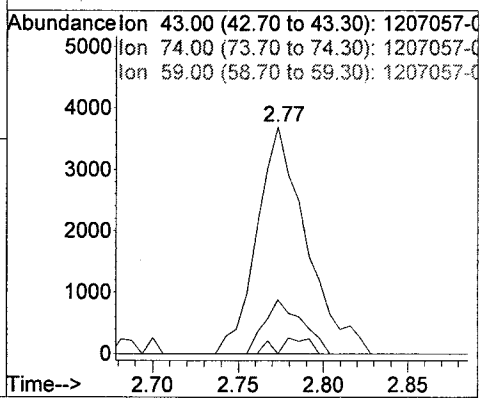
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#16
methyl acetate
Concen: 1.53 ug/L
RT: 2.77 min Scan# 319
Delta R.T. -0.01 min
Lab File: 1207057-01.D
Acq: 18 Jul 2012 10:25

Tgt Ion: 43 Resp: 7444

Ion	Ratio	Lower	Upper
43	100		
74	18.2	1.9	41.9
59	0.0	0.0	27.7



ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

KAFB016

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512
Client: TechLaw Project: KNM
Matrix: Water Laboratory ID: 1207057-02 File ID: 1207057-02.D
Sampled: 07/05/12 11:45 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 10:52
Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL
QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	5.0	1.1	5.0	U
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	1.4	0.42	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

KAFB016

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512
Client: TechLaw Project: KNM
Matrix: Water Laboratory ID: 1207057-02 File ID: 1207057-02.D
Sampled: 07/05/12 11:45 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 10:52
Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL
QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.0	100	85 - 118	
1,2-Dichloroethane-d4	40.0	40.5	101	87 - 122	
Toluene-d8	40.0	39.2	98	85 - 113	
4-Bromofluorobenzene	40.0	38.8	97	82 - 110	

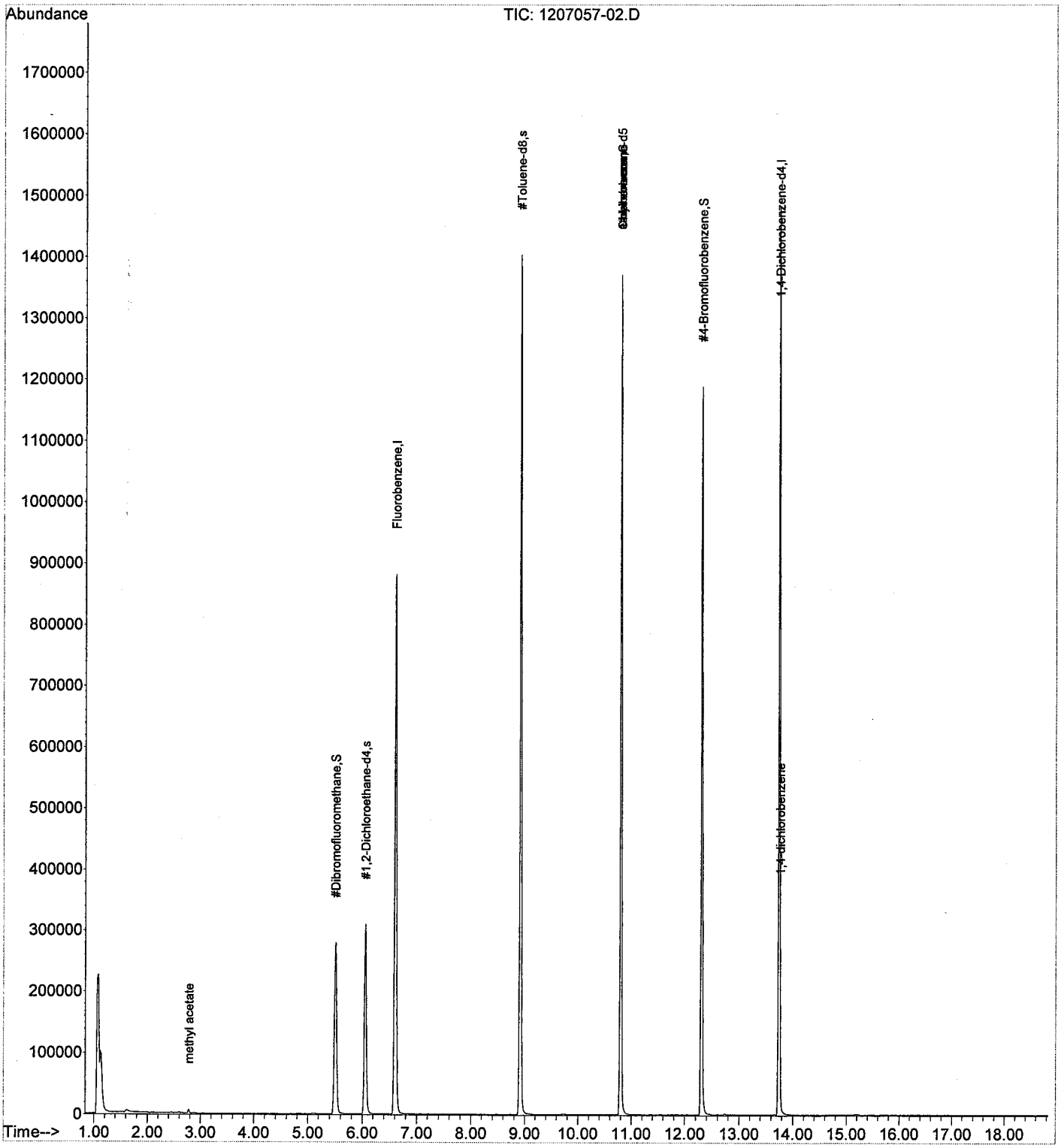
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	1043611	6.61	98	6.61	
Chlorobenzene-d5	846937	10.8	97	10.8	
1,4-Dichlorobenzene-d4	469547	13.75	91	13.75	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207057-02.D
Acq On : 18 Jul 2012 10:52
Operator : DLV
Sample : 1207057-02
Misc : TECH LAW
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 11:11:24 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207057-02.D
Acq On : 18 Jul 2012 10:52
Operator : DLV
Sample : 1207057-02
Misc : TECH LAW
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 11:11:24 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.61	96	1043611	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	846937	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	469547	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	244443	39.96 ug/L	0.00
Spiked Amount 40.000			Recovery	= 99.90%	
37) #1,2-Dichloroethane-d4	6.05	65	282168	40.51 ug/L	0.00
Spiked Amount 40.000			Recovery	= 101.28%	
47) #Toluene-d8	8.91	98	1044266	39.24 ug/L	0.00
Spiked Amount 40.000			Recovery	= 98.10%	
65) #4-Bromofluorobenzene	12.31	95	408155	38.84 ug/L	0.00
Spiked Amount 40.000			Recovery	= 97.10%	

Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	
3) chloromethane	0.00	50	0	N.D.	
4) vinyl chloride	0.00	62	0	N.D.	
5) bromomethane	0.00	94	0	N.D.	
6) chloroethane	0.00	64	0	N.D.	
7) dichlorofluoromethane	0.00	67	0	N.D.	
8) trichlorofluoromethane	0.00	101	0	N.D.	
9) ethyl ether	0.00	74	0	N.D.	
10) acrolein	0.00	56	0	N.D.	
11) 1,1,2-trichloro-1,2,2-trif	0.00	101	0	N.D.	
12) 1,1-dichloroethene	0.00	96	0	N.D.	
13) acetone	2.45	43	2562	Below Cal #	45
14) iodomethane	0.00	142	0	N.D.	
15) carbon disulfide	0.00	76	0	N.D.	
16) methyl acetate	2.78	43	7132	✓ 1.43 ug/L #	91
17) methylene chloride	0.00	49	0	N.D.	
18) acrylonitrile	0.00	53	0	N.D.	
19) trans-1,2-dichloroethene	0.00	96	0	N.D.	
20) methyl (tert) butyl ether	0.00	73	0	N.D.	
21) 1,1-dichloroethane	0.00	63	0	N.D.	
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	0.00	77	0	N.D.	
24) cis-1,2-dichloroethene	0.00	96	0	N.D.	
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	0.00	49	0	N.D.	
27) tetrahydrofuran	0.00	71	0	N.D.	
28) chloroform	0.00	83	0	N.D.	
30) 1,1,1-trichloroethane	0.00	97	0	N.D.	
31) cyclohexane	0.00	56	0	N.D.	
32) carbon tetrachloride	0.00	117	0	N.D.	
33) 1,1-dichloropropene	0.00	75	0	N.D.	
34) benzene	0.00	78	0	N.D.	
35) 1,2-dichloroethane	0.00	62	0	N.D.	
36) heptane	6.60	57	32550	No Calib #	
38) trichloroethene	0.00	130	0	N.D.	
39) methylcyclohexane	0.00	83	0	N.D.	
40) 1,2-dichloropropane	0.00	63	0	N.D.	
41) dibromomethane	0.00	93	0	N.D.	

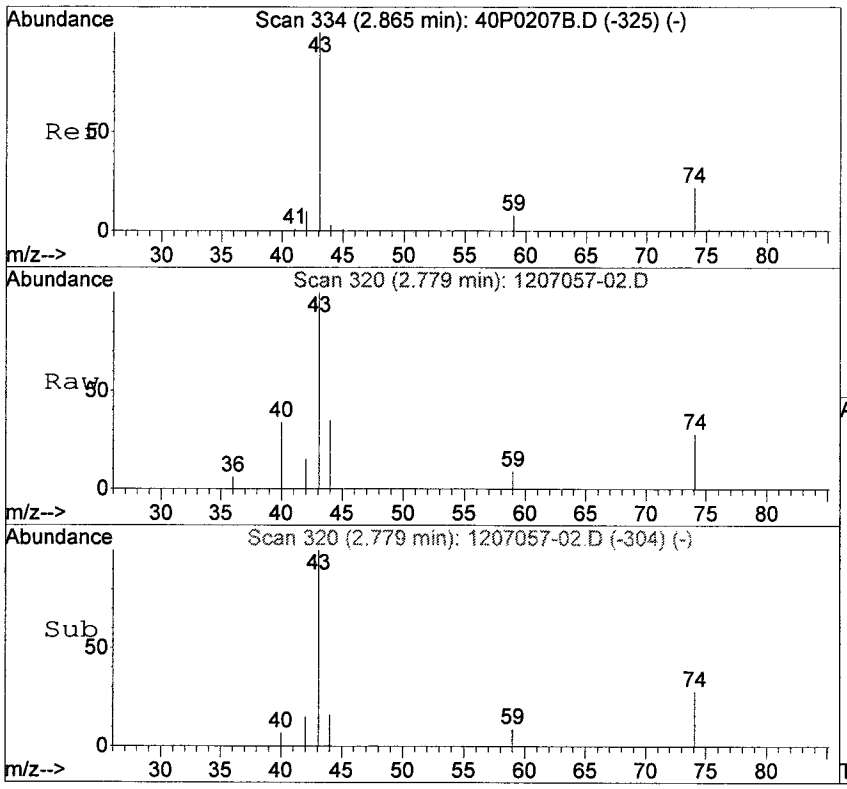
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207057-02.D
Acq On : 18 Jul 2012 10:52
Operator : DLV
Sample : 1207057-02
Misc : TECH LAW
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 11:11:24 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	0.00	83	0	N.D.	
44) 2-chloroethyl vinyl ether	0.00	63	0	N.D.	
45) cis-1,3-dichloropropene	0.00	75	0	N.D.	
46) 4-methyl-2-pentanone (MIBK	0.00	43	0	N.D.	
48) toluene	0.00	91	0	N.D.	
49) trans-1,3-dichloropropene	0.00	75	0	N.D.	
50) 1,1,2-trichloroethane	0.00	83	0	N.D.	
52) tetrachloroethene	0.00	166	0	N.D.	
53) 1,3-dichloropropane	0.00	76	0	N.D.	
54) 2-hexanone (MBK)	0.00	43	0	N.D.	
55) dibromochloromethane	0.00	129	0	N.D.	
56) 1,2-dibromoethane	0.00	109	0	N.D.	
57) chlorobenzene	0.00	112	0	N.D.	
58) 1-chlorohexane	10.80	55	6411	1.08 ug/L #	8
59) 1,1,1,2-tetrachloroethane	0.00	131	0	N.D.	
60) ethylbenzene	10.80	91	1364	0.05 ug/L #	44
61) m+p-xylene	0.00	106	0	N.D.	
62) o-xylene	0.00	106	0	N.D.	
63) styrene	0.00	104	0	N.D.	
64) bromoform	0.00	173	0	N.D.	
67) isopropylbenzene	0.00	105	0	N.D.	
68) bromobenzene	0.00	77	0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.00	83	0	N.D.	
70) 1,2,3-trichloropropane	0.00	110	0	N.D.	
71) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
72) n-propylbenzene	0.00	120	0	N.D.	
73) 2-chlorotoluene	0.00	126	0	N.D.	
74) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
75) 4-chlorotoluene	0.00	126	0	N.D.	
76) tert-butylbenzene	0.00	119	0	N.D.	
77) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
78) sec-butylbenzene	0.00	105	0	N.D.	
79) 1,3-dichlorobenzene	0.00	146	0	N.D.	
80) 4-isopropyltoluene	0.00	119	0	N.D.	
81) 1,4-dichlorobenzene	13.77	146	1366	0.10 ug/L #	26
82) 1,2-dichlorobenzene	0.00	146	0	N.D.	
83) n-butylbenzene	0.00	91	0	N.D.	
84) hexachloroethane	0.00	201	0	N.D.	
85) 1,2-dibromo-3-chloropropan	0.00	157	0	N.D.	
86) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
87) hexachlorobutadiene	0.00	225	0	N.D.	
88) naphthalene	0.00	128	0	N.D.	
89) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
90) 2-methylnaphthalene	0.00	142	0	N.D.	

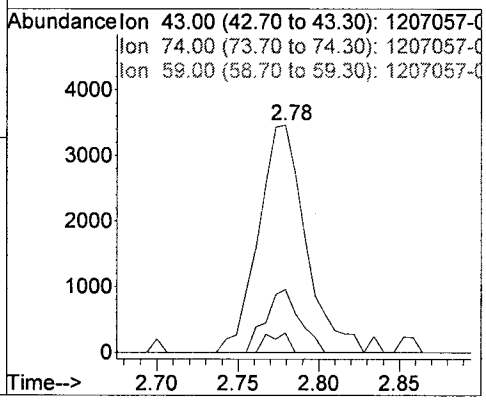
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#16
methyl acetate
Concen: 1.43 ug/L
RT: 2.78 min Scan# 320
Delta R.T. 0.00 min
Lab File: 1207057-02.D
Acq: 18 Jul 2012 10:52

Tgt Ion: 43 Resp: 7132

Ion	Ratio	Lower	Upper
43	100		
74	19.9	1.9	41.9
59	0.0	0.0	27.7



ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106042

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207122-01 File ID: 1207122-01.D

Sampled: 07/10/12 13:00 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 11:19

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	5.0	1.1	5.0	U
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	0.27	0.15	1.0	J
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	0.31	0.21	1.0	J
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	1.4	0.42	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106042

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207122-01 File ID: 1207122-01.D

Sampled: 07/10/12 13:00 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 11:19

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.5	101	85 - 118	
1,2-Dichloroethane-d4	40.0	41.2	103	87 - 122	
Toluene-d8	40.0	40.4	101	85 - 113	
4-Bromofluorobenzene	40.0	38.4	96	82 - 110	

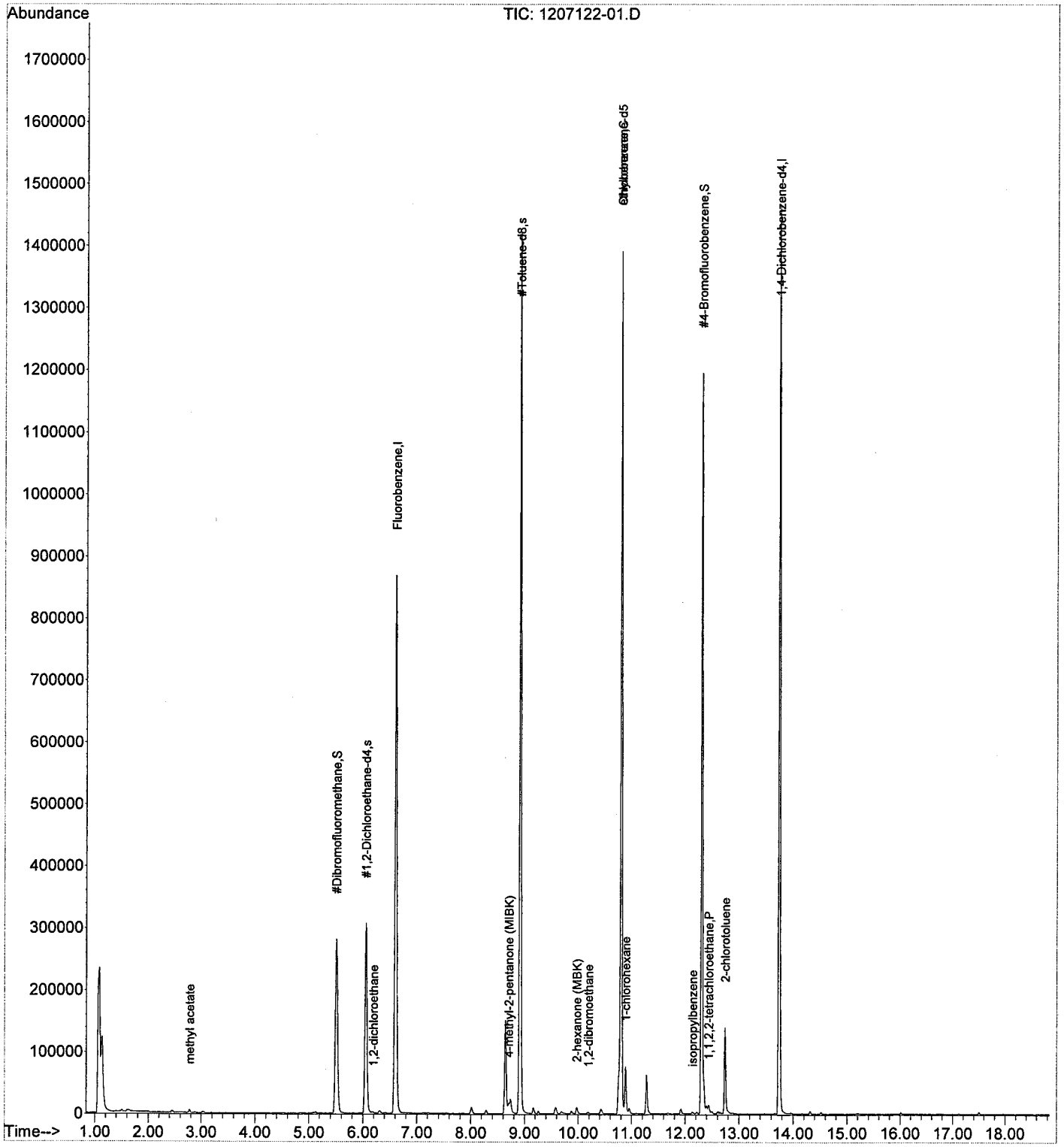
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	1032891	6.61	98	6.61	
Chlorobenzene-d5	854657	10.8	98	10.8	
1,4-Dichlorobenzene-d4	477594	13.75	93	13.75	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207122-01.D
Acq On : 18 Jul 2012 11:19
Operator : DLV
Sample : 1207122-01
Misc : TECH LAW
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 18 11:38:04 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207122-01.D
Acq On : 18 Jul 2012 11:19
Operator : DLV
Sample : 1207122-01
Misc : TECH LAW
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 18 11:38:04 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.61	96	1032891	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	854657	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	477594	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	245102	40.49 ug/L	0.00
Spiked Amount 40.000			Recovery	= 101.23%	
37) #1,2-Dichloroethane-d4	6.05	65	284268	41.23 ug/L	0.00
Spiked Amount 40.000			Recovery	= 103.07%	
47) #Toluene-d8	8.91	98	1063084	40.37 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.93%	
65) #4-Bromofluorobenzene	12.31	95	407253	38.41 ug/L	0.00
Spiked Amount 40.000			Recovery	= 96.02%	

Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	
3) chloromethane	0.00	50	0	N.D.	
4) vinyl chloride	0.00	62	0	N.D.	
5) bromomethane	0.00	94	0	N.D.	
6) chloroethane	0.00	64	0	N.D.	
7) dichlorofluoromethane	0.00	67	0	N.D.	
8) trichlorofluoromethane	0.00	101	0	N.D.	
9) ethyl ether	0.00	74	0	N.D.	
10) acrolein	0.00	56	0	N.D.	
11) 1,1,2-trichloro-1,2,2-trif	0.00	101	0	N.D.	
12) 1,1-dichloroethene	0.00	96	0	N.D.	
13) acetone	2.45	43	5194	Below Cal #	45
14) iodomethane	0.00	142	0	N.D.	
15) carbon disulfide	0.00	76	0	N.D.	
16) methyl acetate	2.77	43	7036	1.42 ug/L #	91
17) methylene chloride	0.00	49	0	N.D.	
18) acrylonitrile	0.00	53	0	N.D.	
19) trans-1,2-dichloroethene	0.00	96	0	N.D.	
20) methyl (tert) butyl ether	0.00	73	0	N.D.	
21) 1,1-dichloroethane	0.00	63	0	N.D.	
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	0.00	77	0	N.D.	
24) cis-1,2-dichloroethene	0.00	96	0	N.D.	
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	0.00	49	0	N.D.	
27) tetrahydrofuran	0.00	71	0	N.D.	
28) chloroform	0.00	83	0	N.D.	
30) 1,1,1-trichloroethane	0.00	97	0	N.D.	
31) cyclohexane	0.00	56	0	N.D.	
32) carbon tetrachloride	0.00	117	0	N.D.	
33) 1,1-dichloropropene	0.00	75	0	N.D.	
34) benzene	0.00	78	0	N.D.	
35) 1,2-dichloroethane	6.19	62	2245	0.31 ug/L #	73
36) heptane	6.61	57	32104	No Calib #	
38) trichloroethene	0.00	130	0	N.D.	
39) methylcyclohexane	0.00	83	0	N.D.	
40) 1,2-dichloropropane	0.00	63	0	N.D.	
41) dibromomethane	0.00	93	0	N.D.	

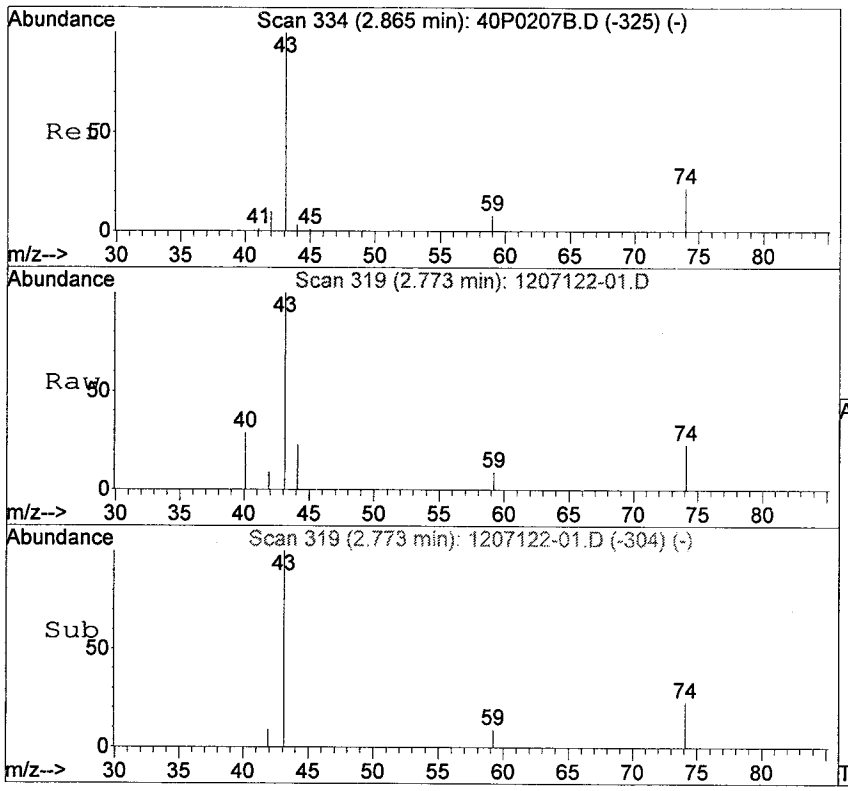
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207122-01.D
Acq On : 18 Jul 2012 11:19
Operator : DLV
Sample : 1207122-01
Misc : TECH LAW
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 18 11:38:04 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	0.00	83	0	N.D.	
44) 2-chloroethyl vinyl ether	0.00	63	0	N.D.	
45) cis-1,3-dichloropropene	0.00	75	0	N.D.	
46) 4-methyl-2-pentanone (MIBK	8.70	43	10887	RT ~~2.16~~ ug/L #	48
48) toluene	0.00	91	0	N.D.	
49) trans-1,3-dichloropropene	0.00	75	0	N.D.	
50) 1,1,2-trichloroethane	0.00	83	0	N.D.	
52) tetrachloroethene	0.00	166	0	N.D.	
53) 1,3-dichloropropane	0.00	76	0	N.D.	
54) 2-hexanone (MBK)	9.97	43	2877	B ~~3.75~~ ug/L #	39
55) dibromochloromethane	0.00	129	0	N.D.	
56) 1,2-dibromoethane	10.19	109	1349	✓ 0.27 ug/L #	89
57) chlorobenzene	0.00	112	0	N.D.	
58) 1-chlorohexane	10.89	55	22491	NOL 3.76 ug/L #	1
59) 1,1,1,2-tetrachloroethane	0.00	131	0	N.D.	
60) ethylbenzene	10.80	91	1757	0.06 ug/L #	44
61) m+p-xylene	0.00	106	0	N.D.	
62) o-xylene	0.00	106	0	N.D.	
63) styrene	0.00	104	0	N.D.	
64) bromoform	0.00	173	0	N.D.	
67) isopropylbenzene	12.14	105	3008	0.12 ug/L #	49
68) bromobenzene	0.00	77	0	N.D.	
69) 1,1,2,2-tetrachloroethane	12.44	83	6472	RT ~~0.89~~ ug/L #	19
70) 1,2,3-trichloropropane	0.00	110	0	N.D.	
71) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
72) n-propylbenzene	0.00	120	0	N.D.	
73) 2-chlorotoluene	12.74	126	4774	0.72 ug/L #	1
74) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
75) 4-chlorotoluene	0.00	126	0	N.D.	
76) tert-butylbenzene	0.00	119	0	N.D.	
77) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
78) sec-butylbenzene	0.00	105	0	N.D.	
79) 1,3-dichlorobenzene	0.00	146	0	N.D.	
80) 4-isopropyltoluene	0.00	119	0	N.D.	
81) 1,4-dichlorobenzene	0.00	146	0	N.D.	
82) 1,2-dichlorobenzene	0.00	146	0	N.D.	
83) n-butylbenzene	0.00	91	0	N.D.	
84) hexachloroethane	0.00	201	0	N.D.	
85) 1,2-dibromo-3-chloropropan	0.00	157	0	N.D.	
86) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
87) hexachlorobutadiene	0.00	225	0	N.D.	
88) naphthalene	0.00	128	0	N.D.	
89) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
90) 2-methylnaphthalene	0.00	142	0	N.D.	

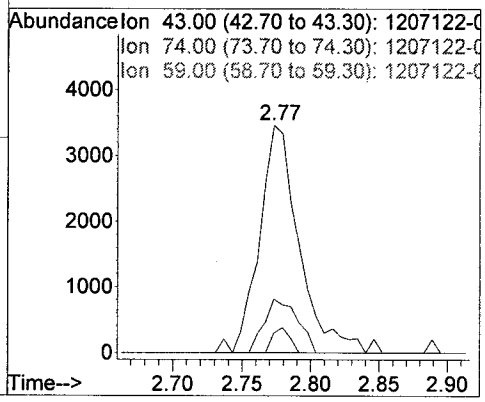
(#) = qualifier out of range (m) = manual integration (+) = signals summed

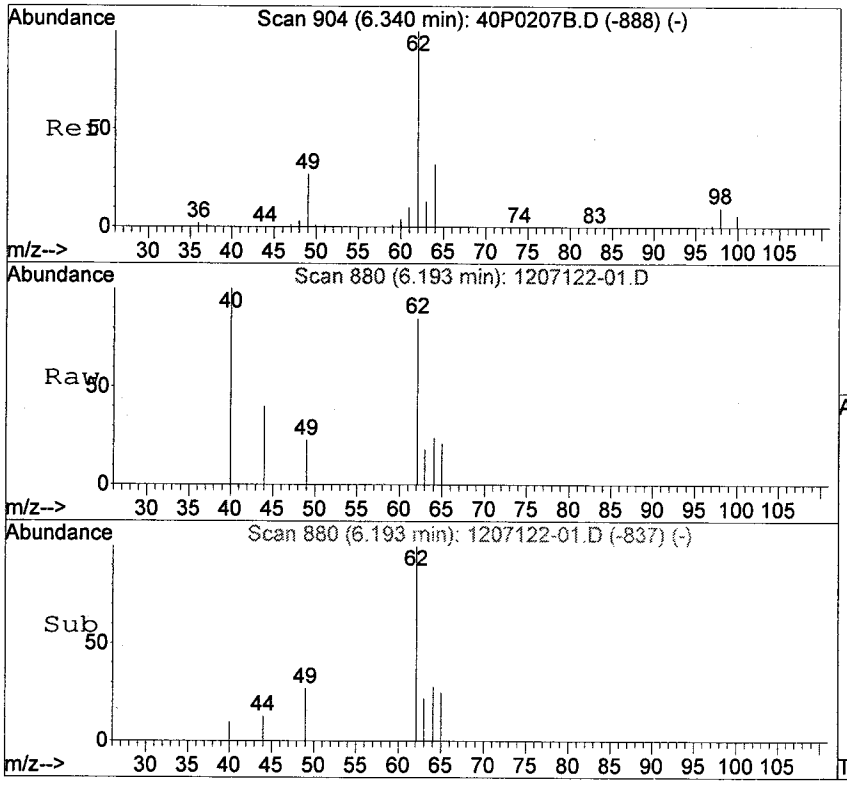


#16
methyl acetate
Concen: 1.42 ug/L
RT: 2.77 min Scan# 319
Delta R.T. -0.01 min
Lab File: 1207122-01.D
Acq: 18 Jul 2012 11:19

Tgt Ion: 43 Resp: 7036

Ion	Ratio	Lower	Upper
43	100		
74	19.5	1.9	41.9
59	0.0	0.0	27.7

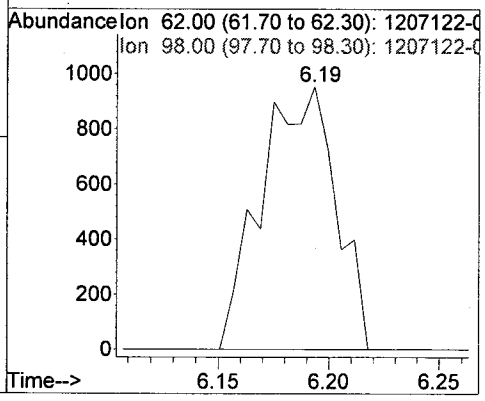


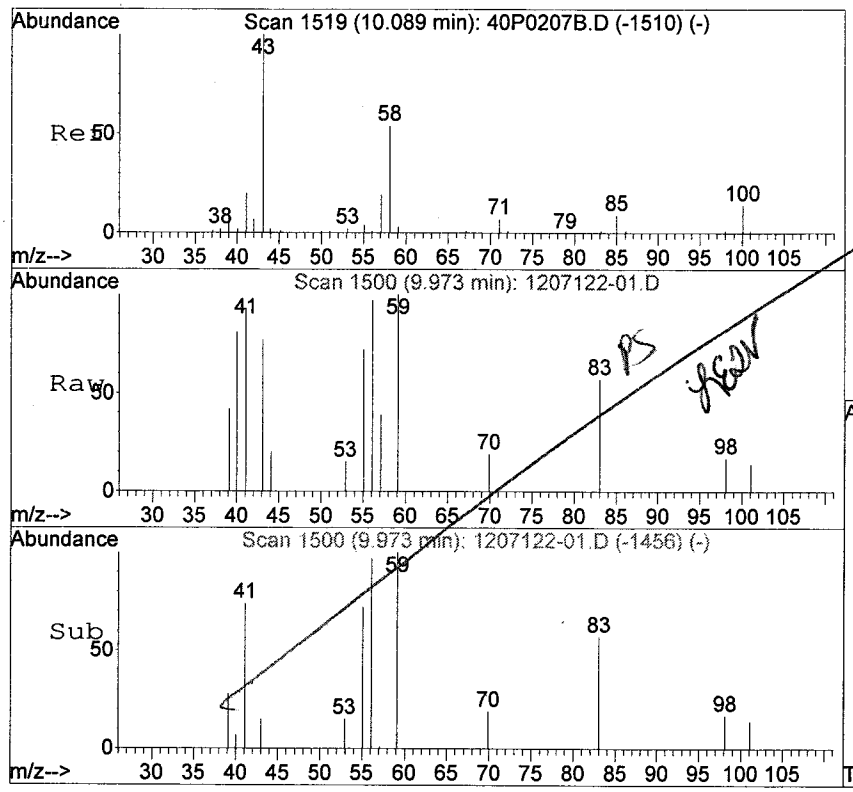


#35
1,2-dichloroethane
Concen: 0.31 ug/L
RT: 6.19 min Scan# 880
Delta R.T. 0.01 min
Lab File: 1207122-01.D
Acq: 18 Jul 2012 11:19

Tgt Ion: 62 Resp: 2245

Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	30.2

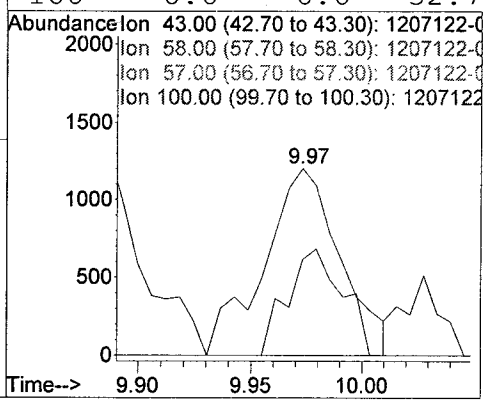


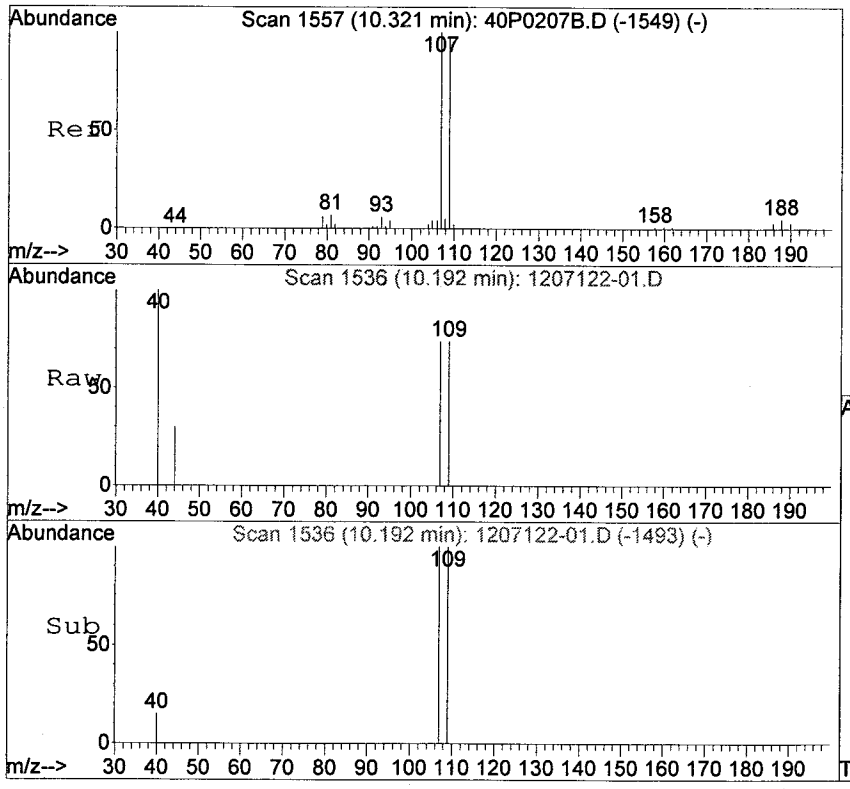


#54
2-hexanone (MBK)
Concen: 3.75 ug/L
RT: 9.97 min Scan# 1500
Delta R.T. 0.02 min
Lab File: 1207122-01.D
Acq: 18 Jul 2012 11:19

Tgt Ion: 43 Resp: 2877

Ion	Ratio	Lower	Upper
43	100		
58	0.0	33.2	73.2#
57	0.0	0.0	38.4
100	0.0	0.0	32.7

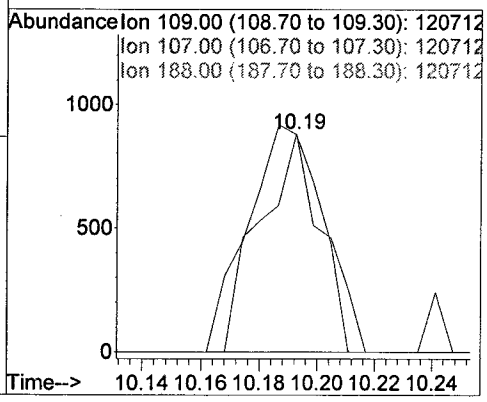




#56
1,2-dibromoethane
Concen: 0.27 ug/L
RT: 10.19 min Scan# 1536
Delta R.T. 0.01 min
Lab File: 1207122-01.D
Acq: 18 Jul 2012 11:19

Tgt Ion:109 Resp: 1349

Ion	Ratio	Lower	Upper
109	100		
107	117.6	86.5	126.5
188	0.0	0.0	25.2



ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106043

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207122-02 File ID: 1207122-02.D

Sampled: 07/10/12 11:00 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 11:45

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	5.0	1.1	5.0	U
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	0.16	0.098	1.0	J
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	1.4	0.42	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106043

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512
Client: TechLaw Project: KNM
Matrix: Water Laboratory ID: 1207122-02 File ID: 1207122-02.D
Sampled: 07/10/12 11:00 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 11:45
Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL
QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.1	100	85 - 118	
1,2-Dichloroethane-d4	40.0	40.8	102	87 - 122	
Toluene-d8	40.0	39.2	98	85 - 113	
4-Bromofluorobenzene	40.0	39.2	98	82 - 110	

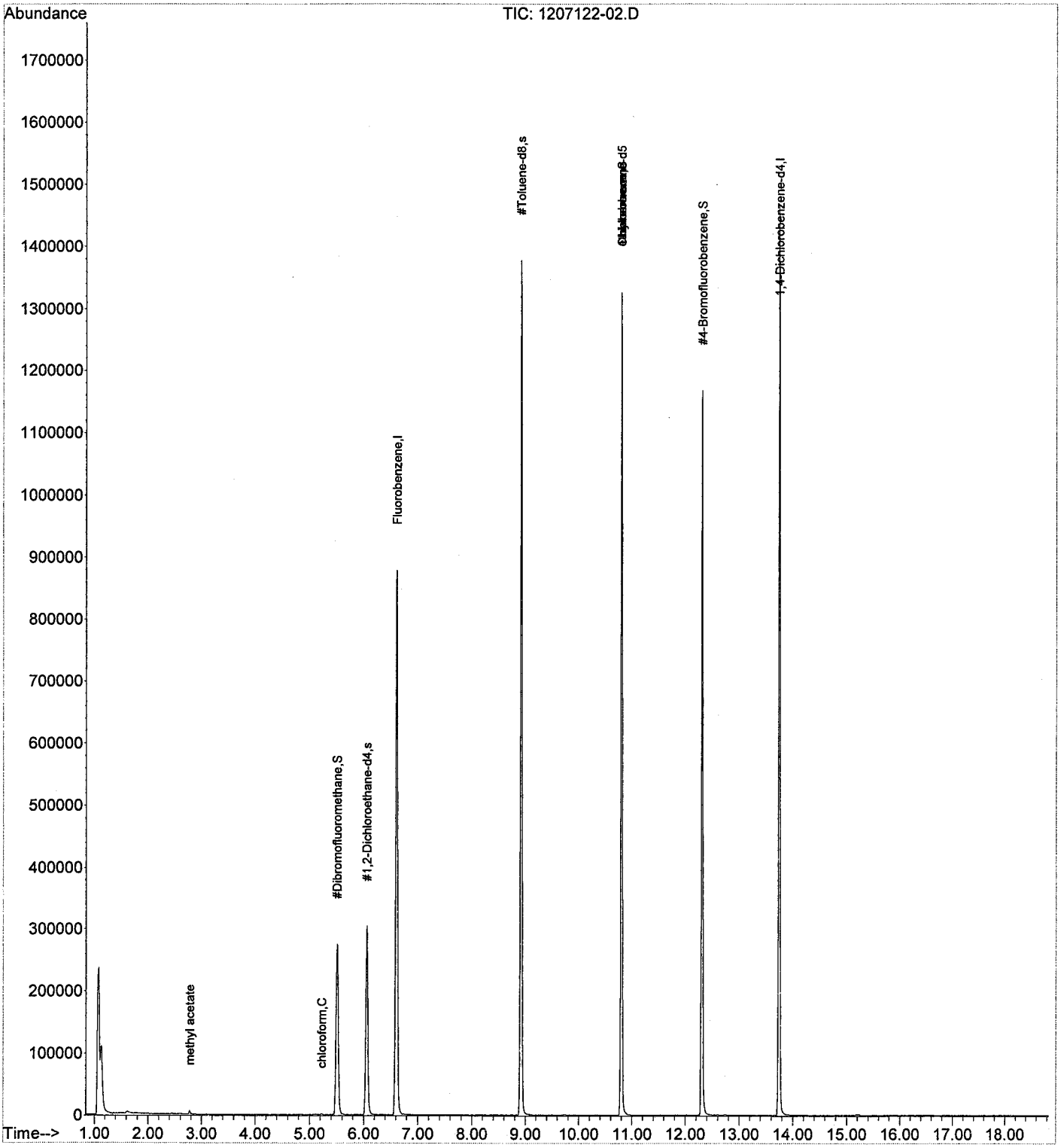
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	1033548	6.61	98	6.61	
Chlorobenzene-d5	834629	10.8	96	10.8	
1,4-Dichlorobenzene-d4	466712	13.75	91	13.75	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207122-02.D
Acq On : 18 Jul 2012 11:45
Operator : DLV
Sample : 1207122-02
Misc : TECH LAW
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 18 12:04:48 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207122-02.D
Acq On : 18 Jul 2012 11:45
Operator : DLV
Sample : 1207122-02
Misc : TECH LAW
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 18 12:04:48 2012
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QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.61	96	1033548	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	834629	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	466712	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	242949	40.11 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.28%	
37) #1,2-Dichloroethane-d4	6.05	65	281635	40.82 ug/L	0.00
Spiked Amount 40.000			Recovery	= 102.05%	
47) #Toluene-d8	8.91	98	1034115	39.24 ug/L	0.00
Spiked Amount 40.000			Recovery	= 98.10%	
65) #4-Bromofluorobenzene	12.31	95	406339	39.24 ug/L	0.00
Spiked Amount 40.000			Recovery	= 98.10%	

Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	
3) chloromethane	0.00	50	0	N.D.	
4) vinyl chloride	0.00	62	0	N.D.	
5) bromomethane	0.00	94	0	N.D.	
6) chloroethane	0.00	64	0	N.D.	
7) dichlorofluoromethane	0.00	67	0	N.D.	
8) trichlorofluoromethane	0.00	101	0	N.D.	
9) ethyl ether	0.00	74	0	N.D.	
10) acrolein	0.00	56	0	N.D.	
11) 1,1,2-trichloro-1,2,2-trif	0.00	101	0	N.D.	
12) 1,1-dichloroethene	0.00	96	0	N.D.	
13) acetone	2.44	43	1927	Below Cal #	45
14) iodomethane	0.00	142	0	N.D.	
15) carbon disulfide	0.00	76	0	N.D.	
16) methyl acetate	2.78	43	6953	✓ 1.40 ug/L #	92
17) methylene chloride	0.00	49	0	N.D.	
18) acrylonitrile	0.00	53	0	N.D.	
19) trans-1,2-dichloroethene	0.00	96	0	N.D.	
20) methyl (tert) butyl ether	0.00	73	0	N.D.	
21) 1,1-dichloroethane	0.00	63	0	N.D.	
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	0.00	77	0	N.D.	
24) cis-1,2-dichloroethene	0.00	96	0	N.D.	
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	0.00	49	0	N.D.	
27) tetrahydrofuran	0.00	71	0	N.D.	
28) chloroform	5.23	83	1515	✓ 0.16 ug/L #	18
30) 1,1,1-trichloroethane	0.00	97	0	N.D.	
31) cyclohexane	0.00	56	0	N.D.	
32) carbon tetrachloride	0.00	117	0	N.D.	
33) 1,1-dichloropropene	0.00	75	0	N.D.	
34) benzene	0.00	78	0	N.D.	
35) 1,2-dichloroethane	0.00	62	0	N.D.	
36) heptane	6.61	57	31850	No Calib #	
38) trichloroethene	0.00	130	0	N.D.	
39) methylcyclohexane	0.00	83	0	N.D.	
40) 1,2-dichloropropane	0.00	63	0	N.D.	
41) dibromomethane	0.00	93	0	N.D.	

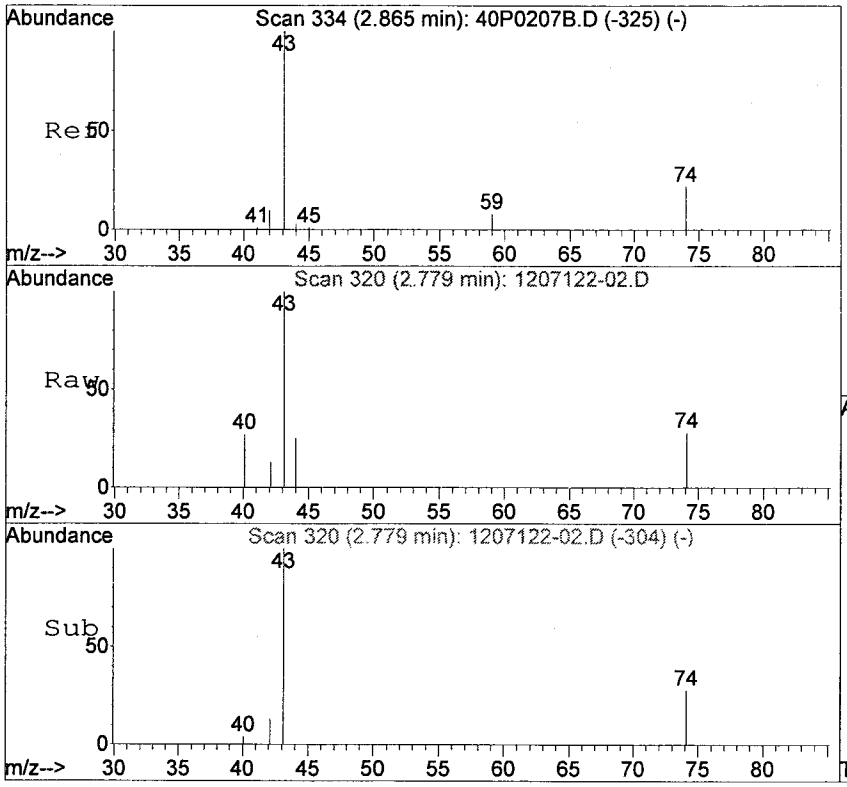
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207122-02.D
Acq On : 18 Jul 2012 11:45
Operator : DLV
Sample : 1207122-02
Misc : TECH LAW
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 18 12:04:48 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	0.00	83	0	N.D.	
44) 2-chloroethyl vinyl ether	0.00	63	0	N.D.	
45) cis-1,3-dichloropropene	0.00	75	0	N.D.	
46) 4-methyl-2-pentanone (MIBK	0.00	43	0	N.D.	
48) toluene	0.00	91	0	N.D.	
49) trans-1,3-dichloropropene	0.00	75	0	N.D.	
50) 1,1,2-trichloroethane	0.00	83	0	N.D.	
52) tetrachloroethene	0.00	166	0	N.D.	
53) 1,3-dichloropropane	0.00	76	0	N.D.	
54) 2-hexanone (MBK)	0.00	43	0	N.D.	
55) dibromochloromethane	0.00	129	0	N.D.	
56) 1,2-dibromoethane	0.00	109	0	N.D.	
57) chlorobenzene	0.00	112	0	N.D.	
58) 1-chlorohexane	10.80	55	6247	1.07 ug/L #	9
59) 1,1,1,2-tetrachloroethane	0.00	131	0	N.D.	
60) ethylbenzene	10.80	91	1375	0.05 ug/L #	44
61) m+p-xylene	0.00	106	0	N.D.	
62) o-xylene	0.00	106	0	N.D.	
63) styrene	0.00	104	0	N.D.	
64) bromoform	0.00	173	0	N.D.	
67) isopropylbenzene	0.00	105	0	N.D.	
68) bromobenzene	0.00	77	0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.00	83	0	N.D.	
70) 1,2,3-trichloropropane	0.00	110	0	N.D.	
71) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
72) n-propylbenzene	0.00	120	0	N.D.	
73) 2-chlorotoluene	0.00	126	0	N.D.	
74) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
75) 4-chlorotoluene	0.00	126	0	N.D.	
76) tert-butylbenzene	0.00	119	0	N.D.	
77) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
78) sec-butylbenzene	0.00	105	0	N.D.	
79) 1,3-dichlorobenzene	0.00	146	0	N.D.	
80) 4-isopropyltoluene	0.00	119	0	N.D.	
81) 1,4-dichlorobenzene	0.00	146	0	N.D.	
82) 1,2-dichlorobenzene	0.00	146	0	N.D.	
83) n-butylbenzene	0.00	91	0	N.D.	
84) hexachloroethane	0.00	201	0	N.D.	
85) 1,2-dibromo-3-chloropropan	0.00	157	0	N.D.	
86) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
87) hexachlorobutadiene	0.00	225	0	N.D.	
88) naphthalene	0.00	128	0	N.D.	
89) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
90) 2-methylnaphthalene	0.00	142	0	N.D.	

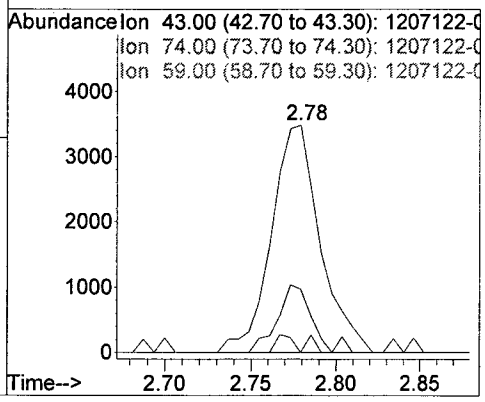
(#) = qualifier out of range (m) = manual integration (+) = signals summed

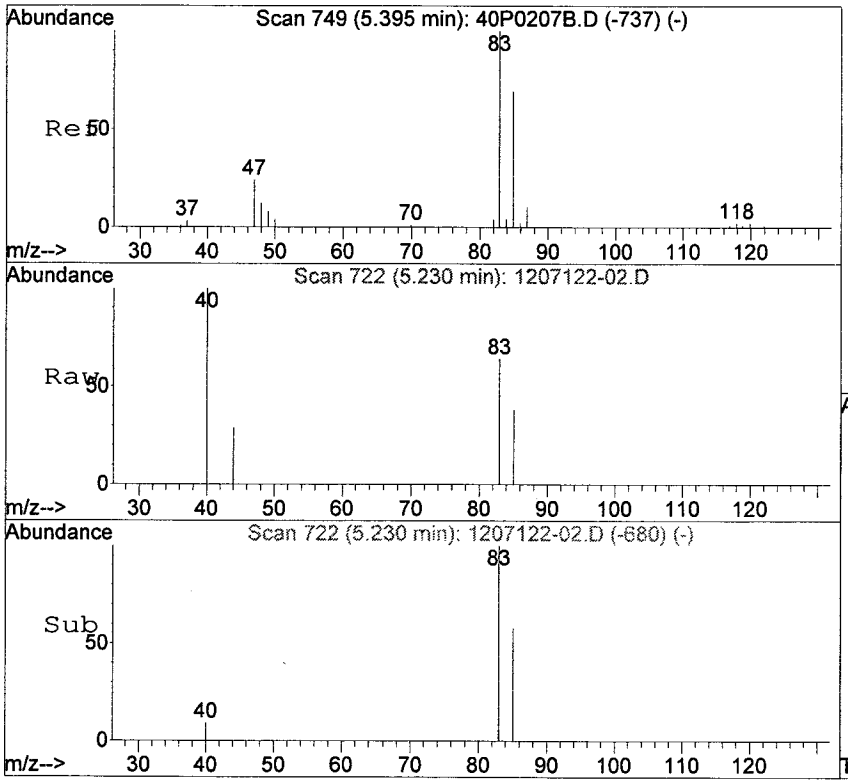


#16
methyl acetate
Concen: 1.40 ug/L
RT: 2.78 min Scan# 320
Delta R.T. 0.00 min
Lab File: 1207122-02.D
Acq: 18 Jul 2012 11:45

Tgt Ion: 43 Resp: 6953

Ion	Ratio	Lower	Upper
43	100		
74	20.1	1.9	41.9
59	0.0	0.0	27.7

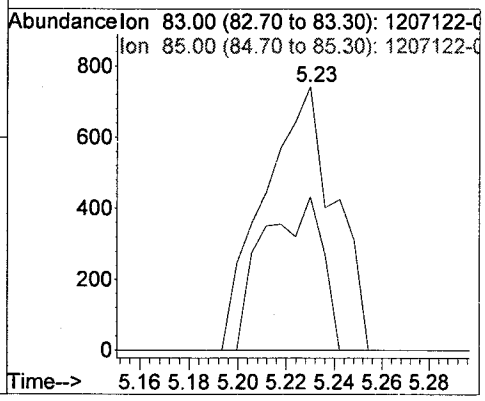




#28
chloroform
Concen: 0.16 ug/L
RT: 5.23 min Scan# 722
Delta R.T. 0.01 min
Lab File: 1207122-02.D
Acq: 18 Jul 2012 11:45

Tgt Ion: 83 Resp: 1515

Ion	Ratio	Lower	Upper
83	100		
85	0.0	44.6	84.6#



ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106058

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207213-01 File ID: 1207213-01.D

Sampled: 07/16/12 11:45 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 12:12

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	3.3	1.1	5.0	J
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	0.50	0.15	1.0	J
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	1.4	0.42	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106058

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207213-01 File ID: 1207213-01.D

Sampled: 07/16/12 11:45 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 12:12

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.5	101	85 - 118	
1,2-Dichloroethane-d4	40.0	41.2	103	87 - 122	
Toluene-d8	40.0	39.0	97	85 - 113	
4-Bromofluorobenzene	40.0	38.9	97	82 - 110	

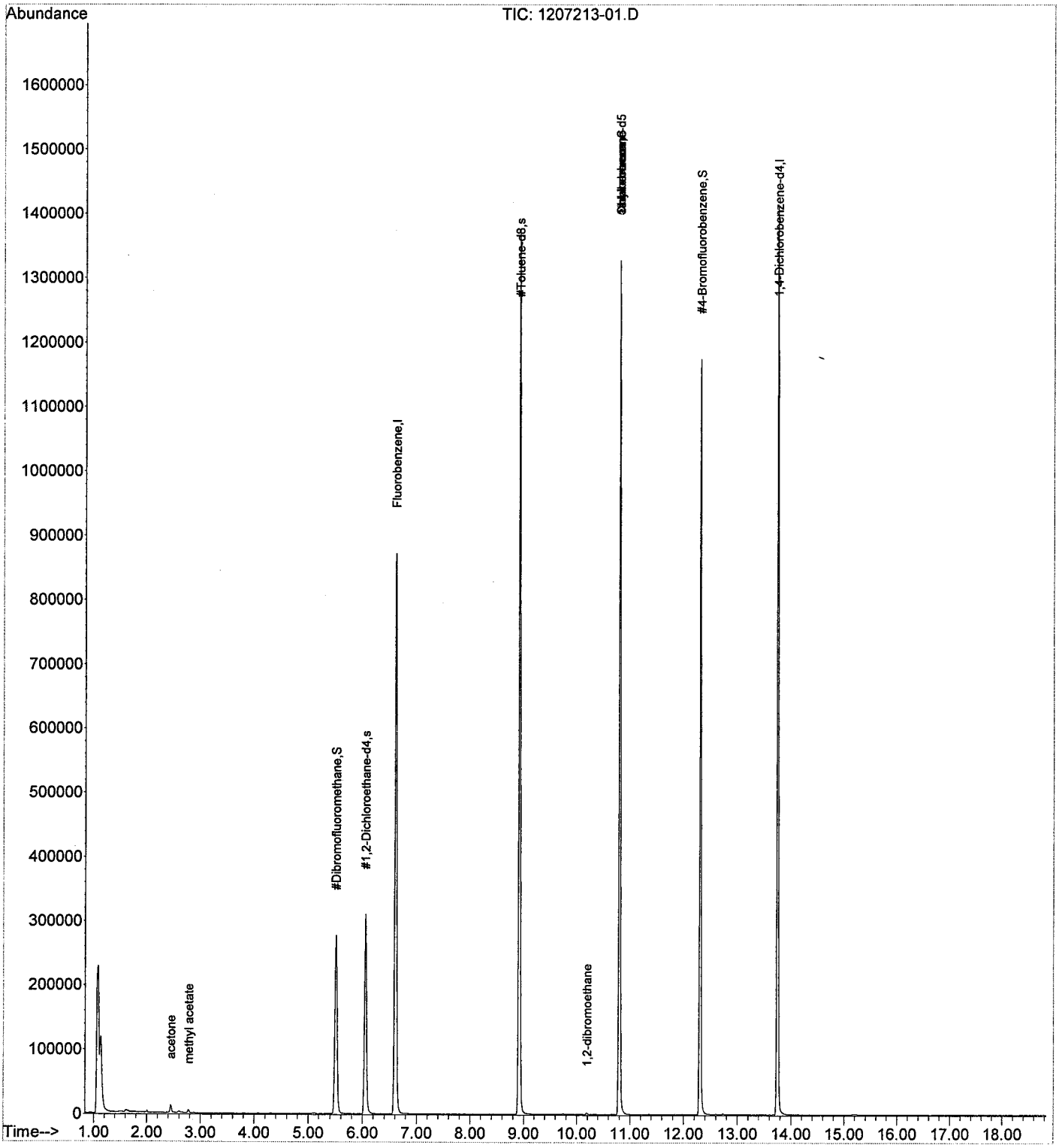
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	1028262	6.61	97	6.61	
Chlorobenzene-d5	830982	10.8	95	10.8	
1,4-Dichlorobenzene-d4	457831	13.75	89	13.75	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207213-01.D
Acq On : 18 Jul 2012 12:12
Operator : DLV
Sample : 1207213-01
Misc : TECH LAW
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 18 12:31:33 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207213-01.D
Acq On : 18 Jul 2012 12:12
Operator : DLV
Sample : 1207213-01
Misc : TECH LAW
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 18 12:31:33 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.61	96	1028262	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	830982	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	457831	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.50	111	244065	40.50	ug/L	0.00
Spiked Amount 40.000			Recovery =	101.25%		
37) #1,2-Dichloroethane-d4	6.05	65	282696	41.19	ug/L	0.00
Spiked Amount 40.000			Recovery =	102.97%		
47) #Toluene-d8	8.91	98	1022070	38.98	ug/L	0.00
Spiked Amount 40.000			Recovery =	97.45%		
65) #4-Bromofluorobenzene	12.31	95	401430	38.93	ug/L	0.00
Spiked Amount 40.000			Recovery =	97.32%		

Target Compounds						Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.		
3) chloromethane	0.00	50	0	N.D.		
4) vinyl chloride	0.00	62	0	N.D.		
5) bromomethane	0.00	94	0	N.D.		
6) chloroethane	0.00	64	0	N.D.		
7) dichlorofluoromethane	0.00	67	0	N.D.		
8) trichlorofluoromethane	0.00	101	0	N.D.		
9) ethyl ether	0.00	74	0	N.D.		
10) acrolein	0.00	56	0	N.D.		
11) 1,1,2-trichloro-1,2,2-trif	0.00	101	0	N.D.		
12) 1,1-dichloroethene	0.00	96	0	N.D.		
13) acetone	2.44	43	16365	3.27	ug/L	91
14) iodomethane	0.00	142	0	N.D.		
15) carbon disulfide	0.00	76	0	N.D.		
16) methyl acetate	2.78	43	7126	1.45	ug/L #	87
17) methylene chloride	0.00	49	0	N.D.		
18) acrylonitrile	0.00	53	0	N.D.		
19) trans-1,2-dichloroethene	0.00	96	0	N.D.		
20) methyl (tert) butyl ether	0.00	73	0	N.D.		
21) 1,1-dichloroethane	0.00	63	0	N.D.		
22) vinyl acetate	0.00	43	0	N.D.		
23) 2,2-dichloropropane	0.00	77	0	N.D.		
24) cis-1,2-dichloroethene	0.00	96	0	N.D.		
25) 2-butanone (MEK)	0.00	43	0	N.D.		
26) bromochloromethane	0.00	49	0	N.D.		
27) tetrahydrofuran	0.00	71	0	N.D.		
28) chloroform	0.00	83	0	N.D.		
30) 1,1,1-trichloroethane	0.00	97	0	N.D.		
31) cyclohexane	0.00	56	0	N.D.		
32) carbon tetrachloride	0.00	117	0	N.D.		
33) 1,1-dichloropropene	0.00	75	0	N.D.		
34) benzene	0.00	78	0	N.D.		
35) 1,2-dichloroethane	0.00	62	0	N.D.		
36) heptane	6.60	57	31359	No Calib	#	
38) trichloroethene	0.00	130	0	N.D.		
39) methylcyclohexane	0.00	83	0	N.D.		
40) 1,2-dichloropropane	0.00	63	0	N.D.		
41) dibromomethane	0.00	93	0	N.D.		

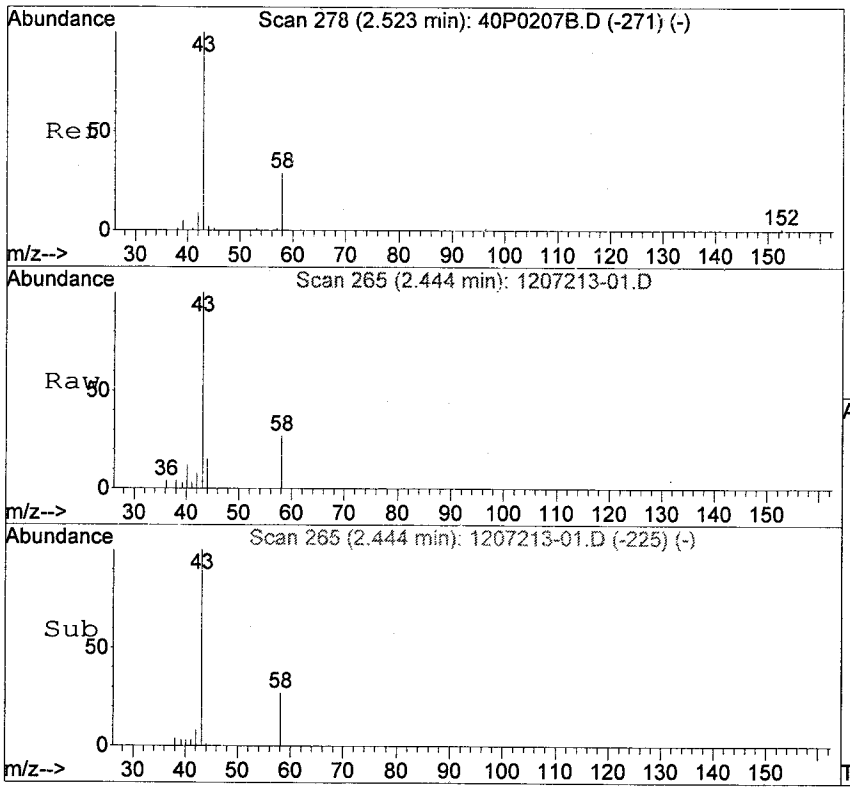
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207213-01.D
Acq On : 18 Jul 2012 12:12
Operator : DLV
Sample : 1207213-01
Misc : TECH LAW
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 18 12:31:33 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	0.00	83	0	N.D.	
44) 2-chloroethyl vinyl ether	0.00	63	0	N.D.	
45) cis-1,3-dichloropropene	0.00	75	0	N.D.	
46) 4-methyl-2-pentanone (MIBK	0.00	43	0	N.D.	
48) toluene	0.00	91	0	N.D.	
49) trans-1,3-dichloropropene	0.00	75	0	N.D.	
50) 1,1,2-trichloroethane	0.00	83	0	N.D.	
52) tetrachloroethene	0.00	166	0	N.D.	
53) 1,3-dichloropropane	0.00	76	0	N.D.	
54) 2-hexanone (MBK)	0.00	43	0	N.D.	
55) dibromochloromethane	0.00	129	0	N.D.	
56) 1,2-dibromoethane	10.19	109	2433	0.50 ug/L #	88
57) chlorobenzene	0.00	112	0	N.D.	
58) 1-chlorohexane	10.80	55	6321	1.09 ug/L #	10
59) 1,1,1,2-tetrachloroethane	0.00	131	0	N.D.	
60) ethylbenzene	10.80	91	1593	0.05 ug/L #	44
61) m+p-xylene	0.00	106	0	N.D.	
62) o-xylene	0.00	106	0	N.D.	
63) styrene	0.00	104	0	N.D.	
64) bromoform	0.00	173	0	N.D.	
67) isopropylbenzene	0.00	105	0	N.D.	
68) bromobenzene	0.00	77	0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.00	83	0	N.D.	
70) 1,2,3-trichloropropane	0.00	110	0	N.D.	
71) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
72) n-propylbenzene	0.00	120	0	N.D.	
73) 2-chlorotoluene	0.00	126	0	N.D.	
74) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
75) 4-chlorotoluene	0.00	126	0	N.D.	
76) tert-butylbenzene	0.00	119	0	N.D.	
77) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
78) sec-butylbenzene	0.00	105	0	N.D.	
79) 1,3-dichlorobenzene	0.00	146	0	N.D.	
80) 4-isopropyltoluene	0.00	119	0	N.D.	
81) 1,4-dichlorobenzene	0.00	146	0	N.D.	
82) 1,2-dichlorobenzene	0.00	146	0	N.D.	
83) n-butylbenzene	0.00	91	0	N.D.	
84) hexachloroethane	0.00	201	0	N.D.	
85) 1,2-dibromo-3-chloropropan	0.00	157	0	N.D.	
86) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
87) hexachlorobutadiene	0.00	225	0	N.D.	
88) naphthalene	0.00	128	0	N.D.	
89) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
90) 2-methylnaphthalene	0.00	142	0	N.D.	

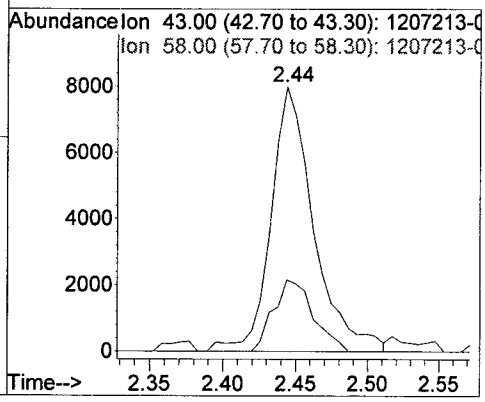
(#) = qualifier out of range (m) = manual integration (+) = signals summed

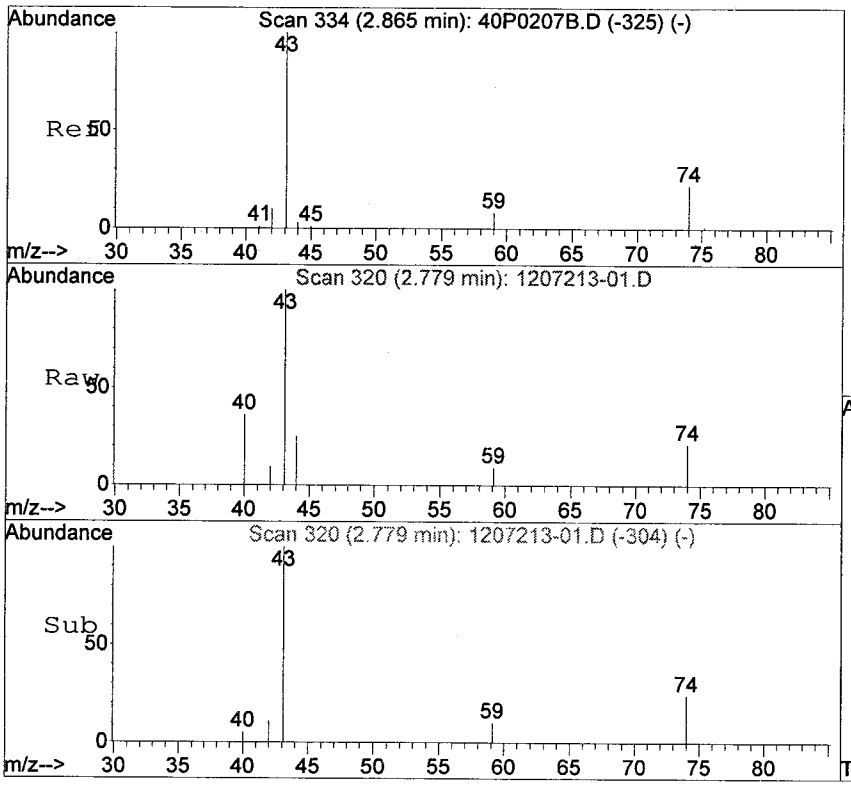


#13
acetone
Concen: 3.27 ug/L
RT: 2.44 min Scan# 265
Delta R.T. -0.01 min
Lab File: 1207213-01.D
Acq: 18 Jul 2012 12:12

Tgt Ion: 43 Resp: 16365

Ion	Ratio	Lower	Upper
43	100		
58	25.1	9.7	49.7

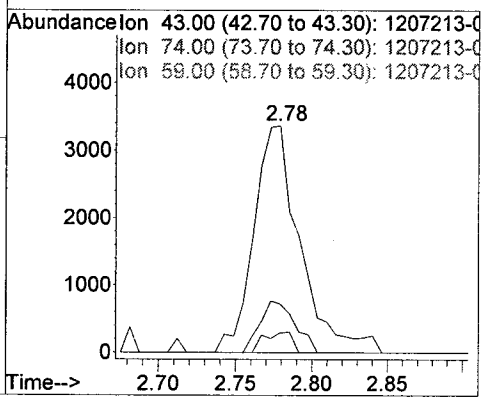


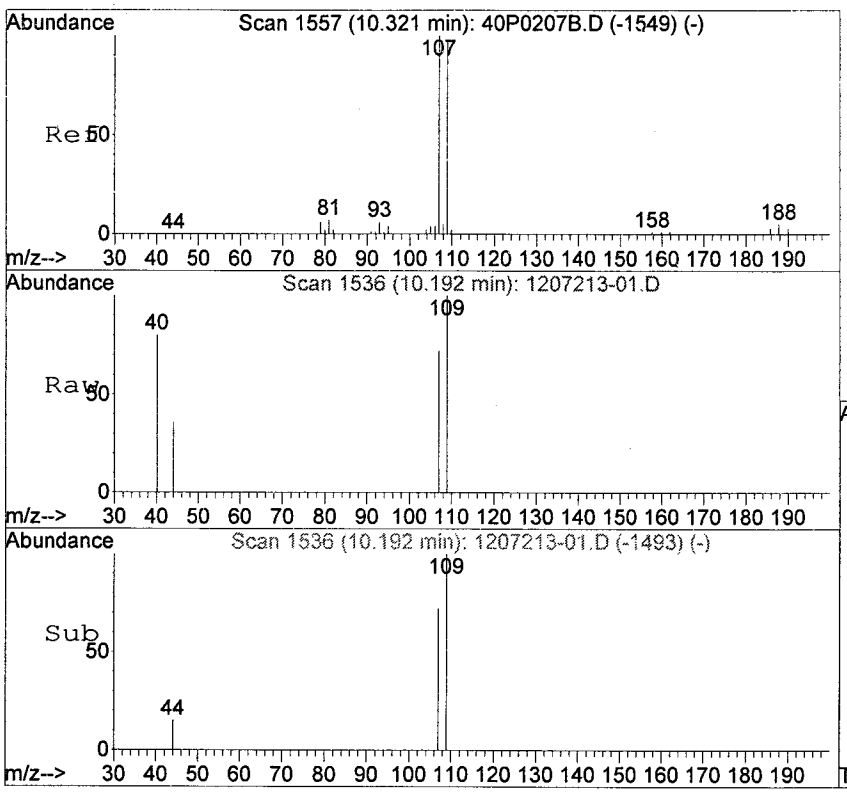


#16
methyl acetate
Concen: 1.45 ug/L
RT: 2.78 min Scan# 320
Delta R.T. 0.00 min
Lab File: 1207213-01.D
Acq: 18 Jul 2012 12:12

Tgt Ion: 43 Resp: 7126

Ion	Ratio	Lower	Upper
43	100		
74	17.1	1.9	41.9
59	0.0	0.0	27.7

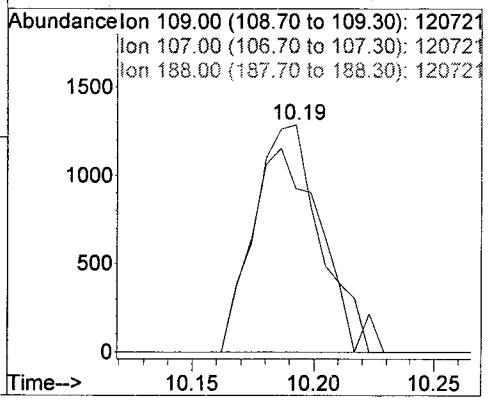




#56
1,2-dibromoethane
Concen: 0.50 ug/L
RT: 10.19 min Scan# 1536
Delta R.T. 0.01 min
Lab File: 1207213-01.D
Acq: 18 Jul 2012 12:12

Tgt Ion:109 Resp: 2433

Ion	Ratio	Lower	Upper
109	100		
107	94.5	86.5	126.5
188	0.0	0.0	25.2



ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106057

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512
Client: TechLaw Project: KNM
Matrix: Water Laboratory ID: 1207213-02 File ID: 1207213-02.D
Sampled: 07/16/12 14:55 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 12:39
Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL
QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	4.3	1.1	5.0	J
71-43-2	Benzene	1	0.23	0.11	1.0	J
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	0.33	0.15	1.0	J
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	0.27	0.22	1.0	J
79-20-9	Methyl Acetate	1	1.4	0.42	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106057

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207213-02 File ID: 1207213-02.D

Sampled: 07/16/12 14:55 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 12:39

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.8	100	85 - 118	
1,2-Dichloroethane-d4	40.0	40.7	102	87 - 122	
Toluene-d8	40.0	39.7	99	85 - 113	
4-Bromofluorobenzene	40.0	38.8	97	82 - 110	

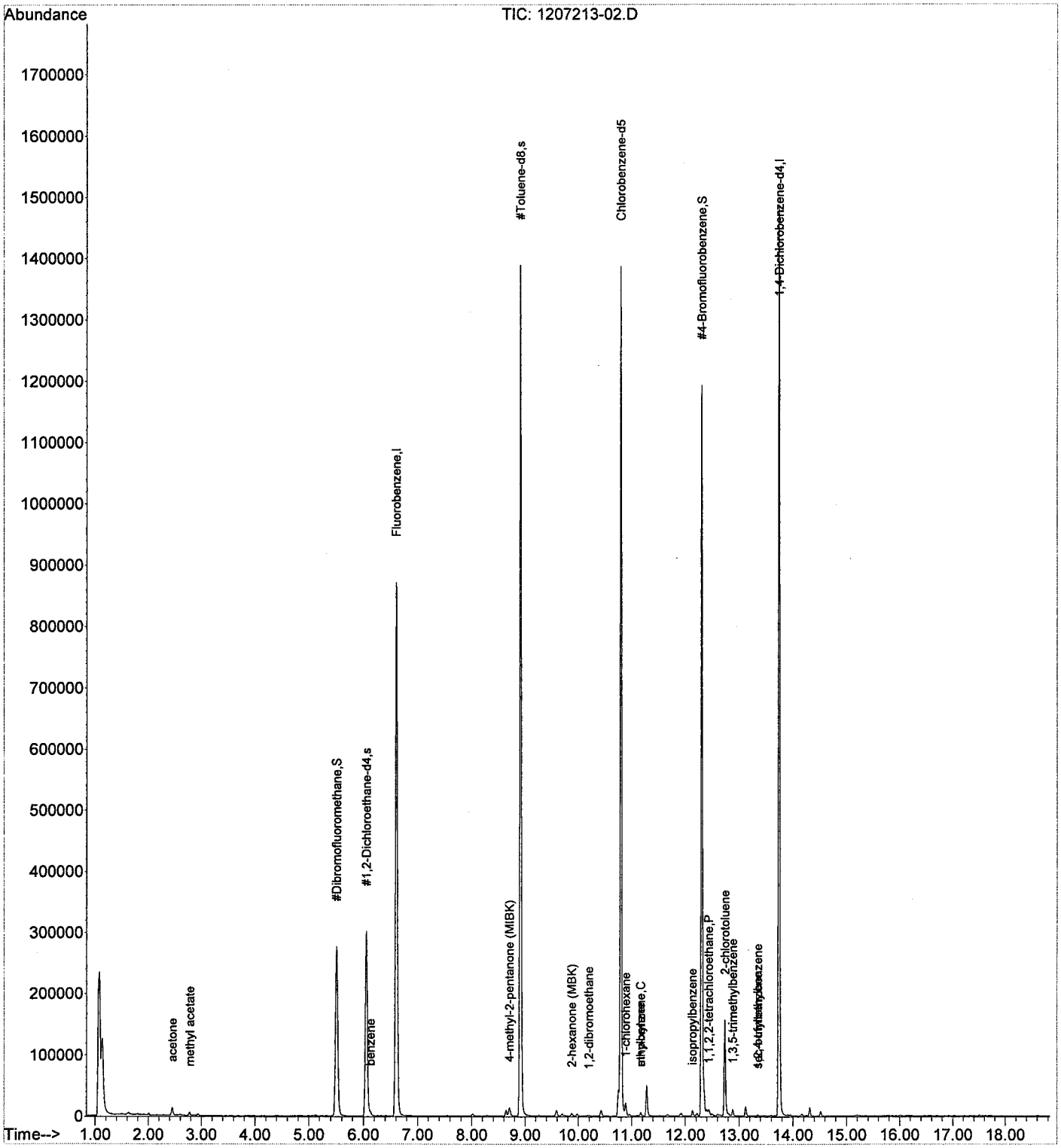
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	1027082	6.61	97	6.61	
Chlorobenzene-d5	847488	10.8	97	10.8	
1,4-Dichlorobenzene-d4	468694	13.75	91	13.75	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207213-02.D
Acq On : 18 Jul 2012 12:39
Operator : DLV
Sample : 1207213-02
Misc : TECH LAW
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 18 12:58:17 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207213-02.D
Acq On : 18 Jul 2012 12:39
Operator : DLV
Sample : 1207213-02
Misc : TECH LAW
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 18 12:58:17 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.61	96	1027082	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	847488	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	468694	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.50	111	239874	39.85	ug/L	0.00
Spiked Amount 40.000			Recovery = 99.63%			
37) #1,2-Dichloroethane-d4	6.05	65	279090	40.71	ug/L	0.00
Spiked Amount 40.000			Recovery = 101.77%			
47) #Toluene-d8	8.91	98	1039640	39.70	ug/L	0.00
Spiked Amount 40.000			Recovery = 99.25%			
65) #4-Bromofluorobenzene	12.31	95	408119	38.81	ug/L	0.00
Spiked Amount 40.000			Recovery = 97.03%			

Target Compounds						Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.		
3) chloromethane	0.00	50	0	N.D.		
4) vinyl chloride	0.00	62	0	N.D.		
5) bromomethane	0.00	94	0	N.D.		
6) chloroethane	0.00	64	0	N.D.		
7) dichlorofluoromethane	0.00	67	0	N.D.		
8) trichlorofluoromethane	0.00	101	0	N.D.		
9) ethyl ether	0.00	74	0	N.D.		
10) acrolein	0.00	56	0	N.D.		
11) 1,1,2-trichloro-1,2,2-trif	0.00	101	0	N.D.		
12) 1,1-dichloroethene	0.00	96	0	N.D.		
13) acetone	2.44	43	17917	✓ 4.28	ug/L	97
14) iodomethane	0.00	142	0	N.D.		
15) carbon disulfide	0.00	76	0	N.D.		
16) methyl acetate	2.78	43	7036	✓ 1.43	ug/L #	60
17) methylene chloride	0.00	49	0	N.D.		
18) acrylonitrile	0.00	53	0	N.D.		
19) trans-1,2-dichloroethene	0.00	96	0	N.D.		
20) methyl (tert) butyl ether	0.00	73	0	N.D.		
21) 1,1-dichloroethane	0.00	63	0	N.D.		
22) vinyl acetate	0.00	43	0	N.D.		
23) 2,2-dichloropropane	0.00	77	0	N.D.		
24) cis-1,2-dichloroethene	0.00	96	0	N.D.		
25) 2-butanone (MEK)	0.00	43	0	N.D.		
26) bromochloromethane	0.00	49	0	N.D.		
27) tetrahydrofuran	0.00	71	0	N.D.		
28) chloroform	0.00	83	0	N.D.		
30) 1,1,1-trichloroethane	0.00	97	0	N.D.		
31) cyclohexane	0.00	56	0	N.D.		
32) carbon tetrachloride	0.00	117	0	N.D.		
33) 1,1-dichloropropene	0.00	75	0	N.D.		
34) benzene	6.13	78	5322	✓ 0.23	ug/L #	61
35) 1,2-dichloroethane	0.00	62	0	N.D.		
36) heptane	6.61	57	32545	No Calib	#	
38) trichloroethene	0.00	130	0	N.D.		
39) methylcyclohexane	0.00	83	0	N.D.		
40) 1,2-dichloropropane	0.00	63	0	N.D.		
41) dibromomethane	0.00	93	0	N.D.		

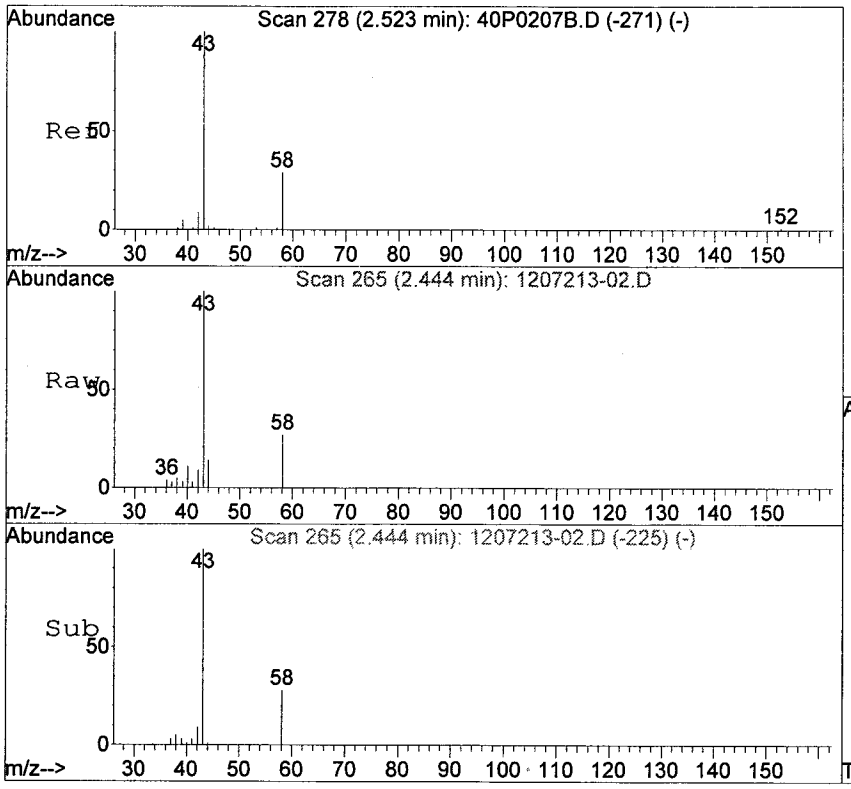
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207213-02.D
Acq On : 18 Jul 2012 12:39
Operator : DLV
Sample : 1207213-02
Misc : TECH LAW
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 18 12:58:17 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	0.00	83	0	N.D.	
44) 2-chloroethyl vinyl ether	0.00	63	0	N.D.	
45) cis-1,3-dichloropropene	0.00	75	0	N.D.	
46) 4-methyl-2-pentanone (MIBK	8.71	43	8100	RT ~~1.62~~ ug/L #	48
48) toluene	0.00	91	0	N.D.	
49) trans-1,3-dichloropropene	0.00	75	0	N.D.	
50) 1,1,2-trichloroethane	0.00	83	0	N.D.	
52) tetrachloroethene	0.00	166	0	N.D.	
53) 1,3-dichloropropane	0.00	76	0	N.D.	
54) 2-hexanone (MBK)	9.88	43	4656	RT ~~4.17~~ ug/L #	39
55) dibromochloromethane	0.00	129	0	N.D.	
56) 1,2-dibromoethane	10.19	109	1621	✓ 0.33 ug/L #	85
57) chlorobenzene	0.00	112	0	N.D.	
58) 1-chlorohexane	10.89	55	6202	1.05 ug/L #	1
59) 1,1,1,2-tetrachloroethane	0.00	131	0	N.D.	
60) ethylbenzene	11.17	91	4116	0.14 ug/L #	58
61) m+p-xylene	11.17	106	2218	0.19 ug/L	89
62) o-xylene	0.00	106	0	N.D.	
63) styrene	0.00	104	0	N.D.	
64) bromoform	0.00	173	0	N.D.	
67) isopropylbenzene	12.13	105	6615	✓ 0.27 ug/L	98
68) bromobenzene	0.00	77	0	N.D.	
69) 1,1,2,2-tetrachloroethane	12.44	83	3325	RT ~~0.46~~ ug/L #	19
70) 1,2,3-trichloropropane	0.00	110	0	N.D.	
71) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
72) n-propylbenzene	0.00	120	0	N.D.	
73) 2-chlorotoluene	12.74	126	5839	0.89 ug/L #	1
74) 1,3,5-trimethylbenzene	12.89	105	6433	0.32 ug/L	98
75) 4-chlorotoluene	0.00	126	0	N.D.	
76) tert-butylbenzene	0.00	119	0	N.D.	
77) 1,2,4-trimethylbenzene	13.35	105	2217	0.11 ug/L #	30
78) sec-butylbenzene	13.35	105	2217	0.09 ug/L #	55
79) 1,3-dichlorobenzene	0.00	146	0	N.D.	
80) 4-isopropyltoluene	0.00	119	0	N.D.	
81) 1,4-dichlorobenzene	0.00	146	0	N.D.	
82) 1,2-dichlorobenzene	0.00	146	0	N.D.	
83) n-butylbenzene	0.00	91	0	N.D.	
84) hexachloroethane	0.00	201	0	N.D.	
85) 1,2-dibromo-3-chloropropan	0.00	157	0	N.D.	
86) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
87) hexachlorobutadiene	0.00	225	0	N.D.	
88) naphthalene	0.00	128	0	N.D.	
89) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
90) 2-methylnaphthalene	0.00	142	0	N.D.	

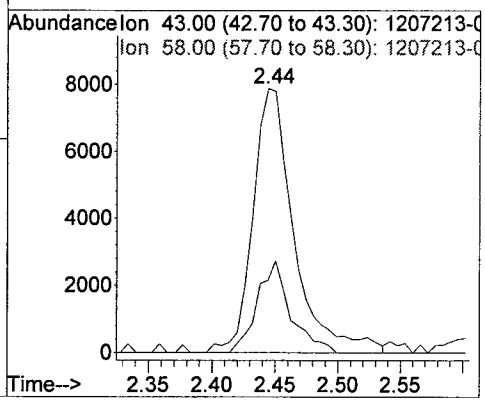
(#) = qualifier out of range (m) = manual integration (+) = signals summed

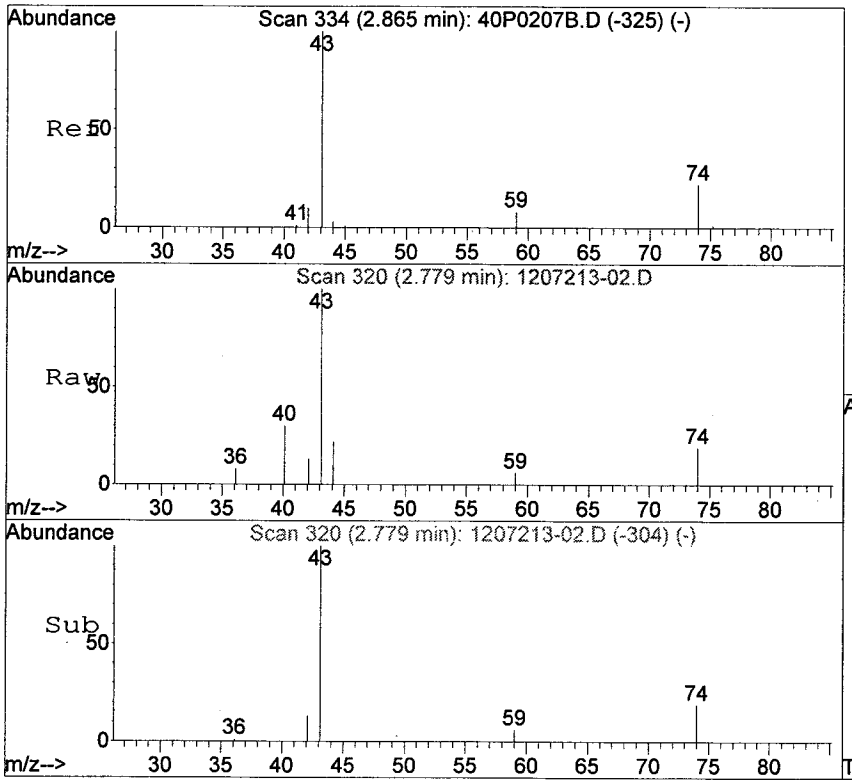


#13
acetone
Concen: 4.28 ug/L
RT: 2.44 min Scan# 265
Delta R.T. -0.01 min
Lab File: 1207213-02.D
Acq: 18 Jul 2012 12:39

Tgt Ion: 43 Resp: 17917

Ion	Ratio	Lower	Upper
43	100		
58	28.1	9.7	49.7

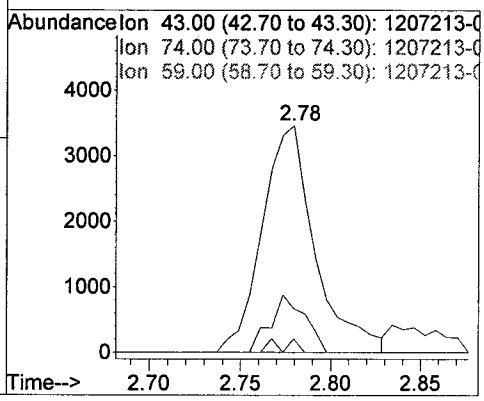


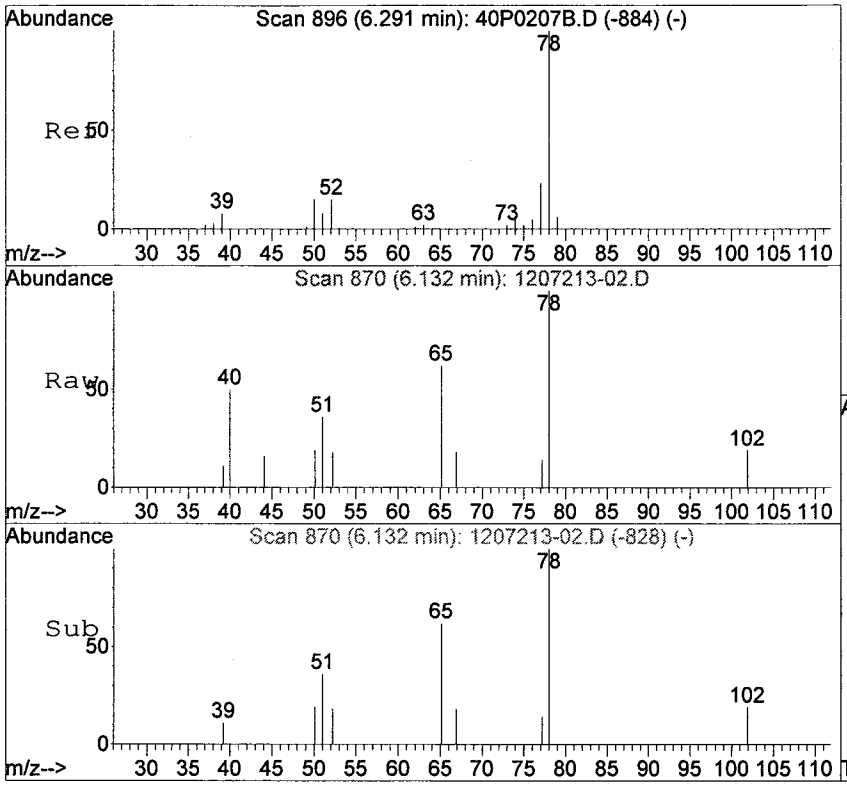


#16
methyl acetate
Concen: 1.43 ug/L
RT: 2.78 min Scan# 320
Delta R.T. 0.00 min
Lab File: 1207213-02.D
Acq: 18 Jul 2012 12:39

Tgt Ion: 43 Resp: 7036

Ion	Ratio	Lower	Upper
43	100		
74	0.0	1.9	41.9#
59	0.0	0.0	27.7

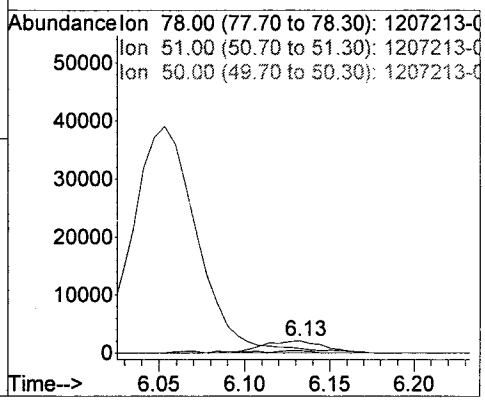


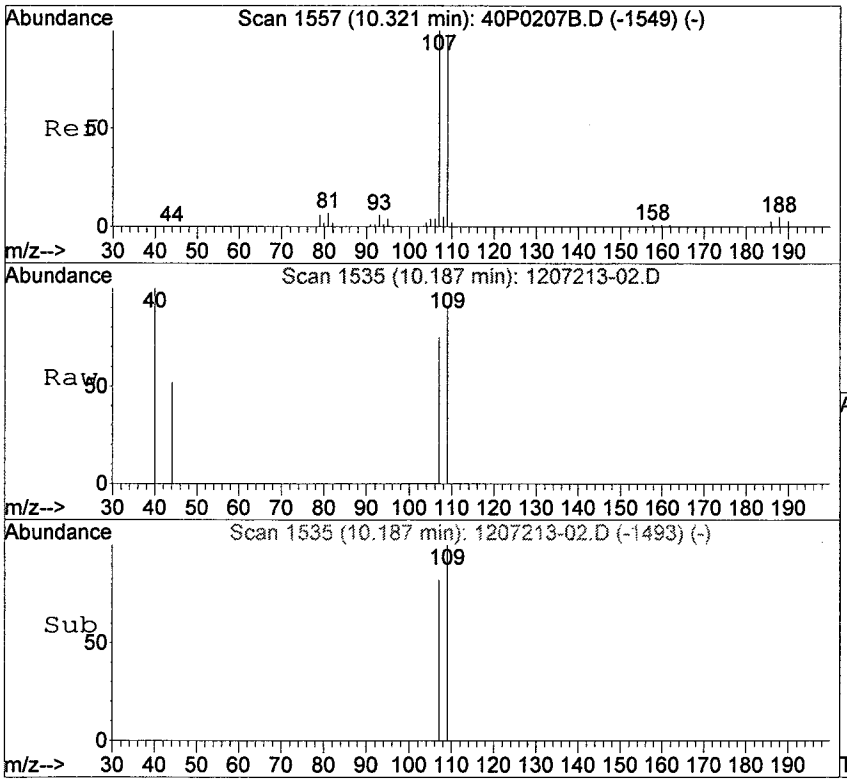


#34
benzene
Concen: 0.23 ug/L
RT: 6.13 min Scan# 870
Delta R.T. 0.01 min
Lab File: 1207213-02.D
Acq: 18 Jul 2012 12:39

Tgt Ion: 78 Resp: 5322

Ion	Ratio	Lower	Upper
78	100		
51	0.0	0.0	38.4
50	0.0	0.0	34.5

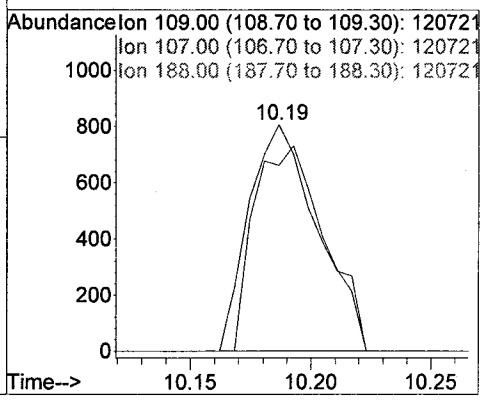


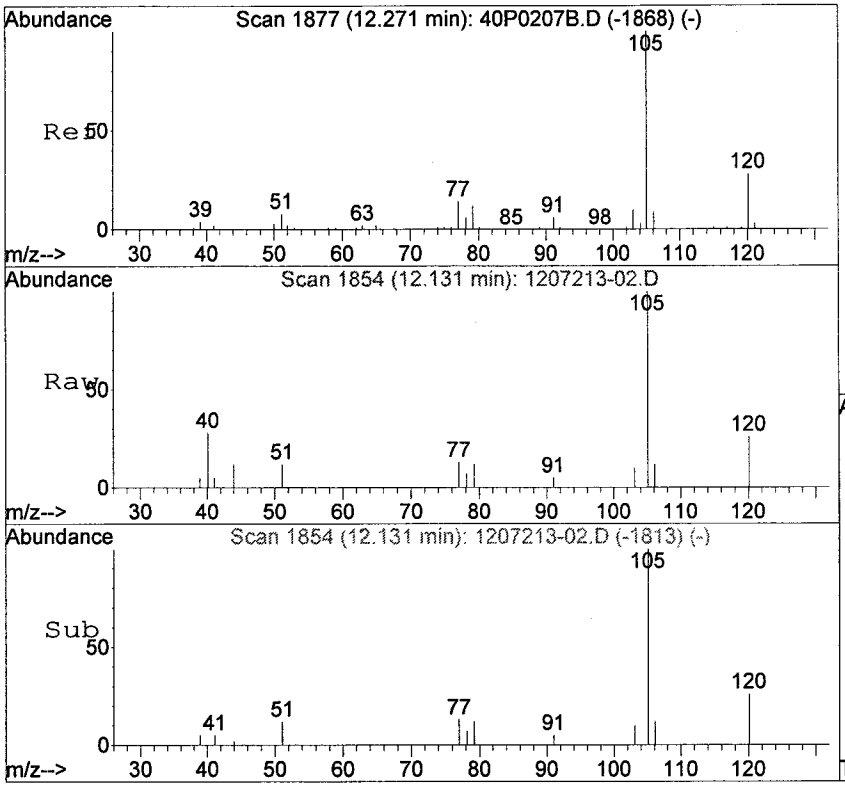


#56
1,2-dibromoethane
Concen: 0.33 ug/L
RT: 10.19 min Scan# 1535
Delta R.T. 0.01 min
Lab File: 1207213-02.D
Acq: 18 Jul 2012 12:39

Tgt Ion:109 Resp: 1621

Ion	Ratio	Lower	Upper
109	100		
107	90.7	86.5	126.5
188	0.0	0.0	25.2

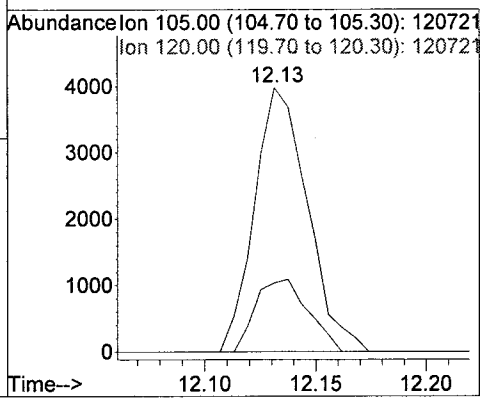




#67
isopropylbenzene
Concen: 0.27 ug/L
RT: 12.13 min Scan# 1854
Delta R.T. 0.00 min
Lab File: 1207213-02.D
Acq: 18 Jul 2012 12:39

Tgt Ion:105 Resp: 6615

Ion	Ratio	Lower	Upper
105	100		
120	27.2	6.3	46.3



ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106107

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207239-01 File ID: 1207239-01.D

Sampled: 07/17/12 10:00 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 13:06

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	5.0	1.1	5.0	U
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	1.3	0.42	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106107

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207239-01 File ID: 1207239-01.D

Sampled: 07/17/12 10:00 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 13:06

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.4	101	85 - 118	
1,2-Dichloroethane-d4	40.0	40.8	102	87 - 122	
Toluene-d8	40.0	39.3	98	85 - 113	
4-Bromofluorobenzene	40.0	38.7	97	82 - 110	

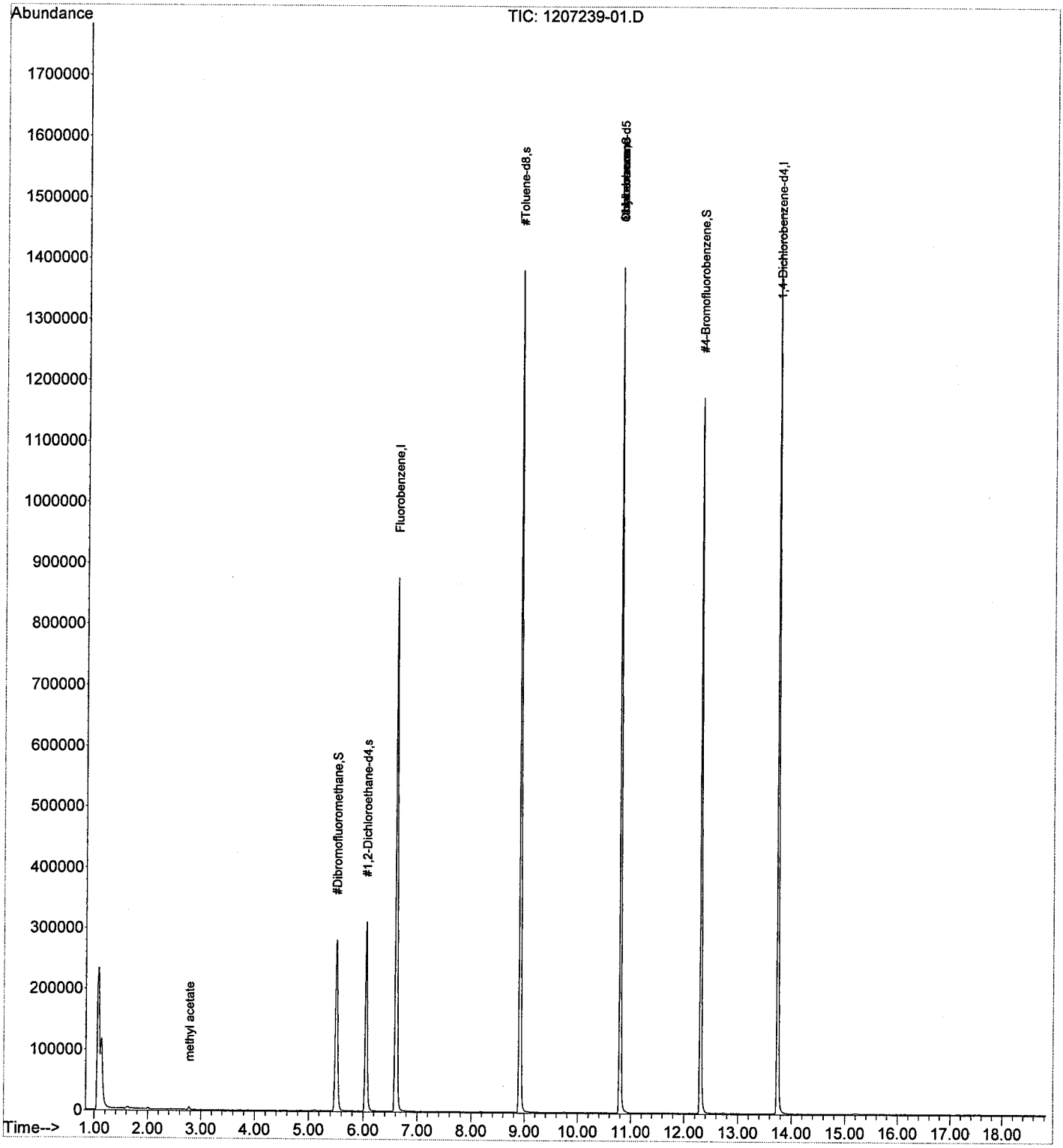
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	1035815	6.61	98	6.61	
Chlorobenzene-d5	843274	10.8	97	10.8	
1,4-Dichlorobenzene-d4	471227	13.75	92	13.75	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207239-01.D
Acq On : 18 Jul 2012 13:06
Operator : DLV
Sample : 1207239-01
Misc : TECH LAW
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 18 13:25:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207239-01.D
Acq On : 18 Jul 2012 13:06
Operator : DLV
Sample : 1207239-01
Misc : TECH LAW
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 18 13:25:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.61	96	1035815	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	843274	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	471227	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.50	111	245525	40.44	ug/L	0.00
Spiked Amount 40.000			Recovery	=	101.10%	
37) #1,2-Dichloroethane-d4	6.05	65	282193	40.82	ug/L	0.00
Spiked Amount 40.000			Recovery	=	102.05%	
47) #Toluene-d8	8.91	98	1038736	39.33	ug/L	0.00
Spiked Amount 40.000			Recovery	=	98.32%	
65) #4-Bromofluorobenzene	12.31	95	404752	38.68	ug/L	0.00
Spiked Amount 40.000			Recovery	=	96.70%	

Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	
3) chloromethane	0.00	50	0	N.D.	
4) vinyl chloride	0.00	62	0	N.D.	
5) bromomethane	0.00	94	0	N.D.	
6) chloroethane	0.00	64	0	N.D.	
7) dichlorofluoromethane	0.00	67	0	N.D.	
8) trichlorofluoromethane	0.00	101	0	N.D.	
9) ethyl ether	0.00	74	0	N.D.	
10) acrolein	0.00	56	0	N.D.	
11) 1,1,2-trichloro-1,2,2-trif	0.00	101	0	N.D.	
12) 1,1-dichloroethene	0.00	96	0	N.D.	
13) acetone	2.45	43	2594	Below Cal #	45
14) iodomethane	0.00	142	0	N.D.	
15) carbon disulfide	0.00	76	0	N.D.	
16) methyl acetate	2.77	43	6630	✓ 1.33 ug/L #	60
17) methylene chloride	0.00	49	0	N.D.	
18) acrylonitrile	0.00	53	0	N.D.	
19) trans-1,2-dichloroethene	0.00	96	0	N.D.	
20) methyl (tert) butyl ether	0.00	73	0	N.D.	
21) 1,1-dichloroethane	0.00	63	0	N.D.	
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	0.00	77	0	N.D.	
24) cis-1,2-dichloroethene	0.00	96	0	N.D.	
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	0.00	49	0	N.D.	
27) tetrahydrofuran	0.00	71	0	N.D.	
28) chloroform	0.00	83	0	N.D.	
30) 1,1,1-trichloroethane	0.00	97	0	N.D.	
31) cyclohexane	0.00	56	0	N.D.	
32) carbon tetrachloride	0.00	117	0	N.D.	
33) 1,1-dichloropropene	0.00	75	0	N.D.	
34) benzene	0.00	78	0	N.D.	
35) 1,2-dichloroethane	0.00	62	0	N.D.	
36) heptane	6.61	57	32644	No Calib #	
38) trichloroethene	0.00	130	0	N.D.	
39) methylcyclohexane	0.00	83	0	N.D.	
40) 1,2-dichloropropane	0.00	63	0	N.D.	
41) dibromomethane	0.00	93	0	N.D.	

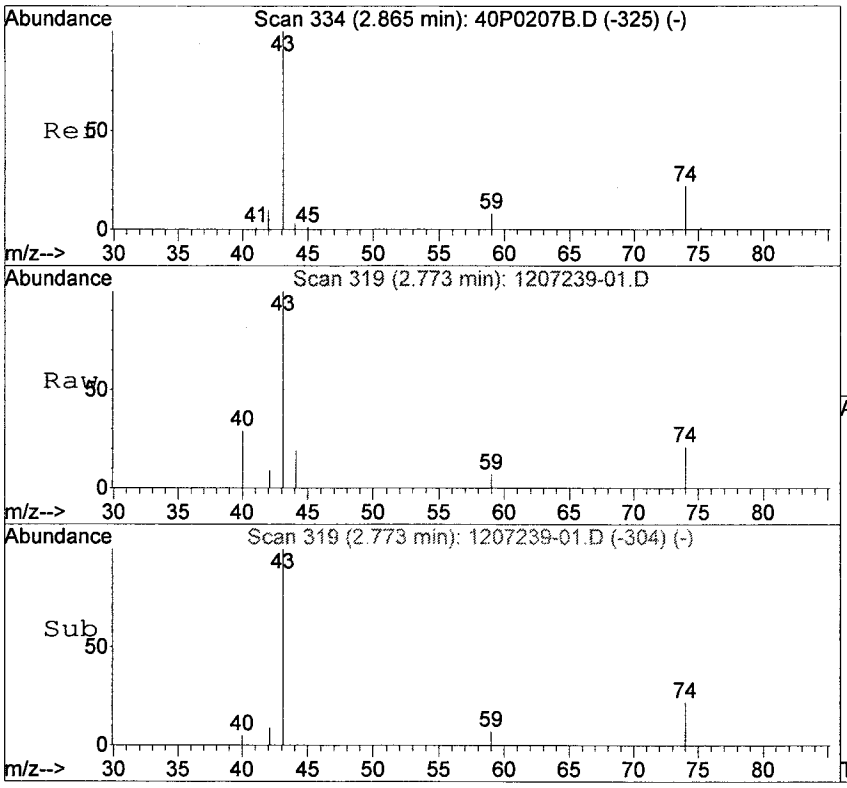
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207239-01.D
Acq On : 18 Jul 2012 13:06
Operator : DLV
Sample : 1207239-01
Misc : TECH LAW
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 18 13:25:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	0.00	83	0	N.D.	
44) 2-chloroethyl vinyl ether	0.00	63	0	N.D.	
45) cis-1,3-dichloropropene	0.00	75	0	N.D.	
46) 4-methyl-2-pentanone (MIBK	0.00	43	0	N.D.	
48) toluene	0.00	91	0	N.D.	
49) trans-1,3-dichloropropene	0.00	75	0	N.D.	
50) 1,1,2-trichloroethane	0.00	83	0	N.D.	
52) tetrachloroethene	0.00	166	0	N.D.	
53) 1,3-dichloropropane	0.00	76	0	N.D.	
54) 2-hexanone (MBK)	0.00	43	0	N.D.	
55) dibromochloromethane	0.00	129	0	N.D.	
56) 1,2-dibromoethane	0.00	109	0	N.D.	
57) chlorobenzene	0.00	112	0	N.D.	
58) 1-chlorohexane	10.80	55	6702	1.14 ug/L #	12
59) 1,1,1,2-tetrachloroethane	0.00	131	0	N.D.	
60) ethylbenzene	10.80	91	1741	0.06 ug/L #	44
61) m+p-xylene	0.00	106	0	N.D.	
62) o-xylene	0.00	106	0	N.D.	
63) styrene	0.00	104	0	N.D.	
64) bromoform	0.00	173	0	N.D.	
67) isopropylbenzene	0.00	105	0	N.D.	
68) bromobenzene	0.00	77	0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.00	83	0	N.D.	
70) 1,2,3-trichloropropane	0.00	110	0	N.D.	
71) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
72) n-propylbenzene	0.00	120	0	N.D.	
73) 2-chlorotoluene	0.00	126	0	N.D.	
74) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
75) 4-chlorotoluene	0.00	126	0	N.D.	
76) tert-butylbenzene	0.00	119	0	N.D.	
77) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
78) sec-butylbenzene	0.00	105	0	N.D.	
79) 1,3-dichlorobenzene	0.00	146	0	N.D.	
80) 4-isopropyltoluene	0.00	119	0	N.D.	
81) 1,4-dichlorobenzene	0.00	146	0	N.D.	
82) 1,2-dichlorobenzene	0.00	146	0	N.D.	
83) n-butylbenzene	0.00	91	0	N.D.	
84) hexachloroethane	0.00	201	0	N.D.	
85) 1,2-dibromo-3-chloropropan	0.00	157	0	N.D.	
86) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
87) hexachlorobutadiene	0.00	225	0	N.D.	
88) naphthalene	0.00	128	0	N.D.	
89) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
90) 2-methylnaphthalene	0.00	142	0	N.D.	

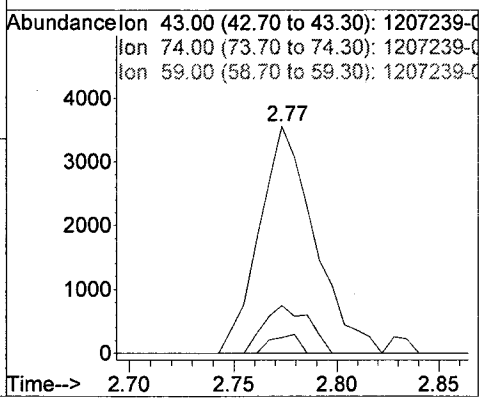
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#16
methyl acetate
Concen: 1.33 ug/L
RT: 2.77 min Scan# 319
Delta R.T. -0.01 min
Lab File: 1207239-01.D
Acq: 18 Jul 2012 13:06

Tgt Ion: 43 Resp: 6630

Ion	Ratio	Lower	Upper
43	100		
74	0.0	1.9	41.9#
59	0.0	0.0	27.7



ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106106

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207239-02 File ID: 1207239-02.D

Sampled: 07/17/12 12:15 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 13:32

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	5.0	1.1	5.0	U
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	1.5	0.42	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106106

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207239-02 File ID: 1207239-02.D

Sampled: 07/17/12 12:15 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 13:32

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.3	101	85 - 118	
1,2-Dichloroethane-d4	40.0	40.8	102	87 - 122	
Toluene-d8	40.0	39.1	98	85 - 113	
4-Bromofluorobenzene	40.0	39.0	98	82 - 110	

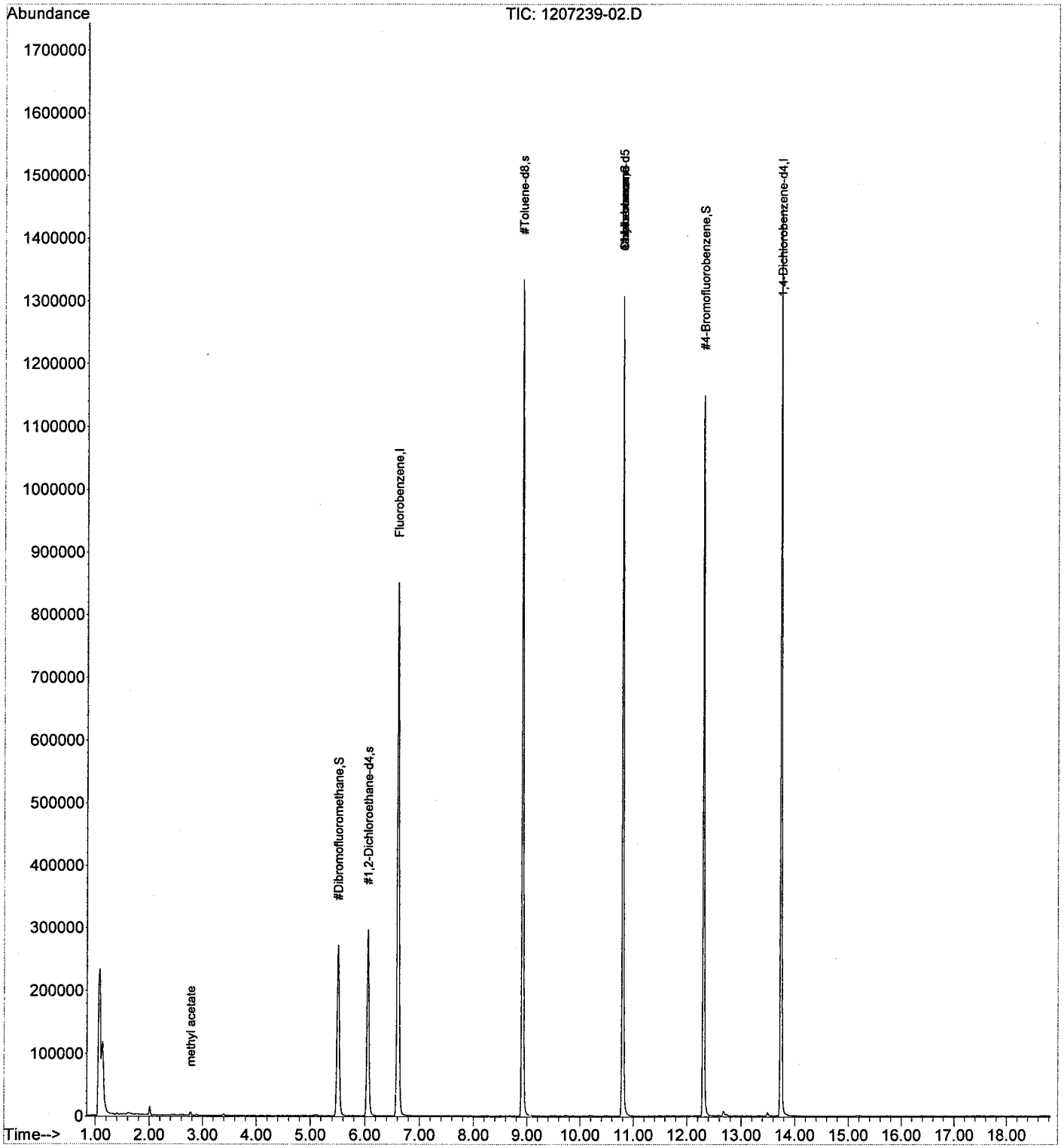
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	1006581	6.6	95	6.61	
Chlorobenzene-d5	809750	10.8	93	10.8	
1,4-Dichlorobenzene-d4	457265	13.75	89	13.75	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207239-02.D
Acq On : 18 Jul 2012 13:32
Operator : DLV
Sample : 1207239-02
Misc : TECH LAW
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 18 13:51:47 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration



00879

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207239-02.D
Acq On : 18 Jul 2012 13:32
Operator : DLV
Sample : 1207239-02
Misc : TECH LAW
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 18 13:51:47 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.60	96	1006581	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	809750	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	457265	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	237721	40.29 ug/L	0.00
Spiked Amount 40.000			Recovery =	100.72%	
37) #1,2-Dichloroethane-d4	6.05	65	273878	40.76 ug/L	0.00
Spiked Amount 40.000			Recovery =	101.90%	
47) #Toluene-d8	8.91	98	1004089	39.12 ug/L	0.00
Spiked Amount 40.000			Recovery =	97.80%	
65) #4-Bromofluorobenzene	12.31	95	392127	39.03 ug/L	0.00
Spiked Amount 40.000			Recovery =	97.58%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	
3) chloromethane	0.00	50	0	N.D.	
4) vinyl chloride	0.00	62	0	N.D.	
5) bromomethane	0.00	94	0	N.D.	
6) chloroethane	0.00	64	0	N.D.	
7) dichlorofluoromethane	0.00	67	0	N.D.	
8) trichlorofluoromethane	0.00	101	0	N.D.	
9) ethyl ether	0.00	74	0	N.D.	
10) acrolein	0.00	56	0	N.D.	
11) 1,1,2-trichloro-1,2,2-trif	0.00	101	0	N.D.	
12) 1,1-dichloroethene	0.00	96	0	N.D.	
13) acetone	0.00	43	0	N.D.	
14) iodomethane	0.00	142	0	N.D.	
15) carbon disulfide	0.00	76	0	N.D.	
16) methyl acetate	2.77	43	7242	1.50 ug/L #	60
17) methylene chloride	0.00	49	0	N.D.	
18) acrylonitrile	0.00	53	0	N.D.	
19) trans-1,2-dichloroethene	0.00	96	0	N.D.	
20) methyl (tert) butyl ether	0.00	73	0	N.D.	
21) 1,1-dichloroethane	0.00	63	0	N.D.	
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	0.00	77	0	N.D.	
24) cis-1,2-dichloroethene	0.00	96	0	N.D.	
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	0.00	49	0	N.D.	
27) tetrahydrofuran	0.00	71	0	N.D.	
28) chloroform	0.00	83	0	N.D.	
30) 1,1,1-trichloroethane	0.00	97	0	N.D.	
31) cyclohexane	0.00	56	0	N.D.	
32) carbon tetrachloride	0.00	117	0	N.D.	
33) 1,1-dichloropropene	0.00	75	0	N.D.	
34) benzene	0.00	78	0	N.D.	
35) 1,2-dichloroethane	0.00	62	0	N.D.	
36) heptane	6.60	57	30966	No Calib #	
38) trichloroethene	0.00	130	0	N.D.	
39) methylcyclohexane	0.00	83	0	N.D.	
40) 1,2-dichloropropane	0.00	63	0	N.D.	
41) dibromomethane	0.00	93	0	N.D.	

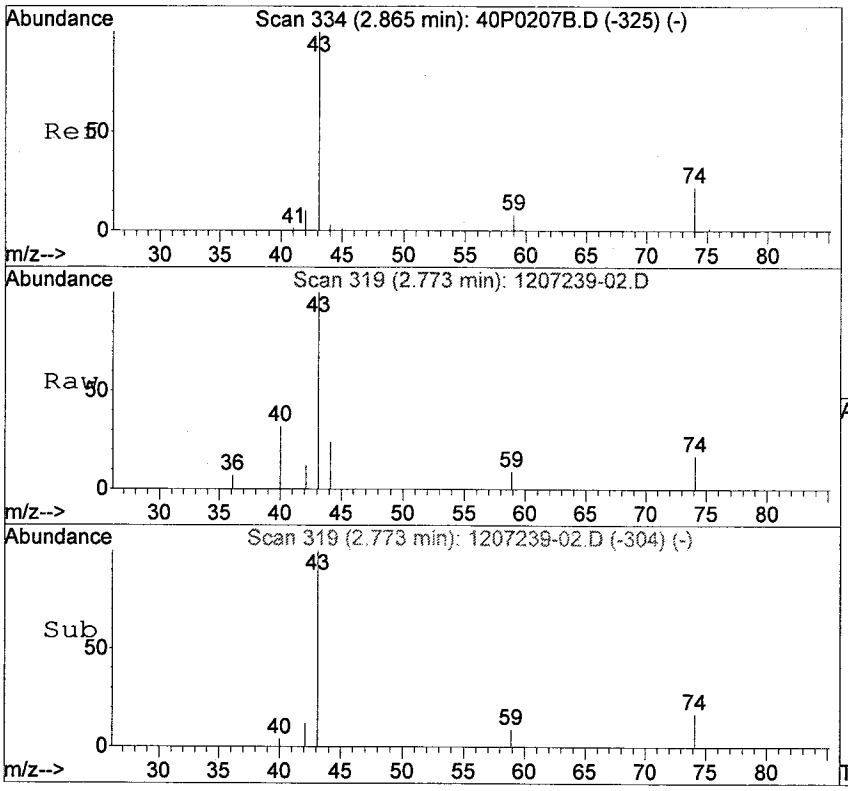
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207239-02.D
Acq On : 18 Jul 2012 13:32
Operator : DLV
Sample : 1207239-02
Misc : TECH LAW
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 18 13:51:47 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	0.00	83	0	N.D.	
44) 2-chloroethyl vinyl ether	0.00	63	0	N.D.	
45) cis-1,3-dichloropropene	0.00	75	0	N.D.	
46) 4-methyl-2-pentanone (MIBK	0.00	43	0	N.D.	
48) toluene	0.00	91	0	N.D.	
49) trans-1,3-dichloropropene	0.00	75	0	N.D.	
50) 1,1,2-trichloroethane	0.00	83	0	N.D.	
52) tetrachloroethene	0.00	166	0	N.D.	
53) 1,3-dichloropropane	0.00	76	0	N.D.	
54) 2-hexanone (MBK)	0.00	43	0	N.D.	
55) dibromochloromethane	0.00	129	0	N.D.	
56) 1,2-dibromoethane	0.00	109	0	N.D.	
57) chlorobenzene	0.00	112	0	N.D.	
58) 1-chlorohexane	10.80	55	6142	1.08 ug/L #	9
59) 1,1,1,2-tetrachloroethane	0.00	131	0	N.D.	
60) ethylbenzene	10.80	91	1393	0.05 ug/L #	44
61) m+p-xylene	0.00	106	0	N.D.	
62) o-xylene	0.00	106	0	N.D.	
63) styrene	0.00	104	0	N.D.	
64) bromoform	0.00	173	0	N.D.	
67) isopropylbenzene	0.00	105	0	N.D.	
68) bromobenzene	0.00	77	0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.00	83	0	N.D.	
70) 1,2,3-trichloropropane	0.00	110	0	N.D.	
71) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
72) n-propylbenzene	0.00	120	0	N.D.	
73) 2-chlorotoluene	0.00	126	0	N.D.	
74) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
75) 4-chlorotoluene	0.00	126	0	N.D.	
76) tert-butylbenzene	0.00	119	0	N.D.	
77) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
78) sec-butylbenzene	0.00	105	0	N.D.	
79) 1,3-dichlorobenzene	0.00	146	0	N.D.	
80) 4-isopropyltoluene	0.00	119	0	N.D.	
81) 1,4-dichlorobenzene	0.00	146	0	N.D.	
82) 1,2-dichlorobenzene	0.00	146	0	N.D.	
83) n-butylbenzene	0.00	91	0	N.D.	
84) hexachloroethane	0.00	201	0	N.D.	
85) 1,2-dibromo-3-chloropropan	0.00	157	0	N.D.	
86) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
87) hexachlorobutadiene	0.00	225	0	N.D.	
88) naphthalene	0.00	128	0	N.D.	
89) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
90) 2-methylnaphthalene	0.00	142	0	N.D.	

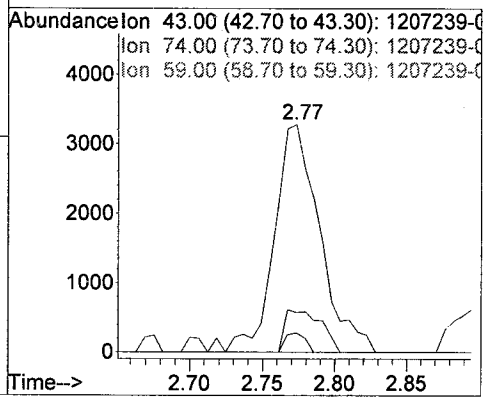
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#16
methyl acetate
Concen: 1.50 ug/L
RT: 2.77 min Scan# 319
Delta R.T. -0.01 min
Lab File: 1207239-02.D
Acq: 18 Jul 2012 13:32

Tgt Ion: 43 Resp: 7242

Ion	Ratio	Lower	Upper
43	100		
74	0.0	1.9	41.9#
59	0.0	0.0	27.7



ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106105

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207239-03 File ID: 1207239-03.D

Sampled: 07/17/12 14:40 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 13:59

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	5.0	1.1	5.0	U
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	1.4	0.42	5.0	**J**
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106105

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207239-03 File ID: 1207239-03.D

Sampled: 07/17/12 14:40 Prepared: 07/18/12 08:00 Analyzed: 07/18/12 13:59

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.3	101	85 - 118	
1,2-Dichloroethane-d4	40.0	41.0	103	87 - 122	
Toluene-d8	40.0	39.1	98	85 - 113	
4-Bromofluorobenzene	40.0	39.0	98	82 - 110	

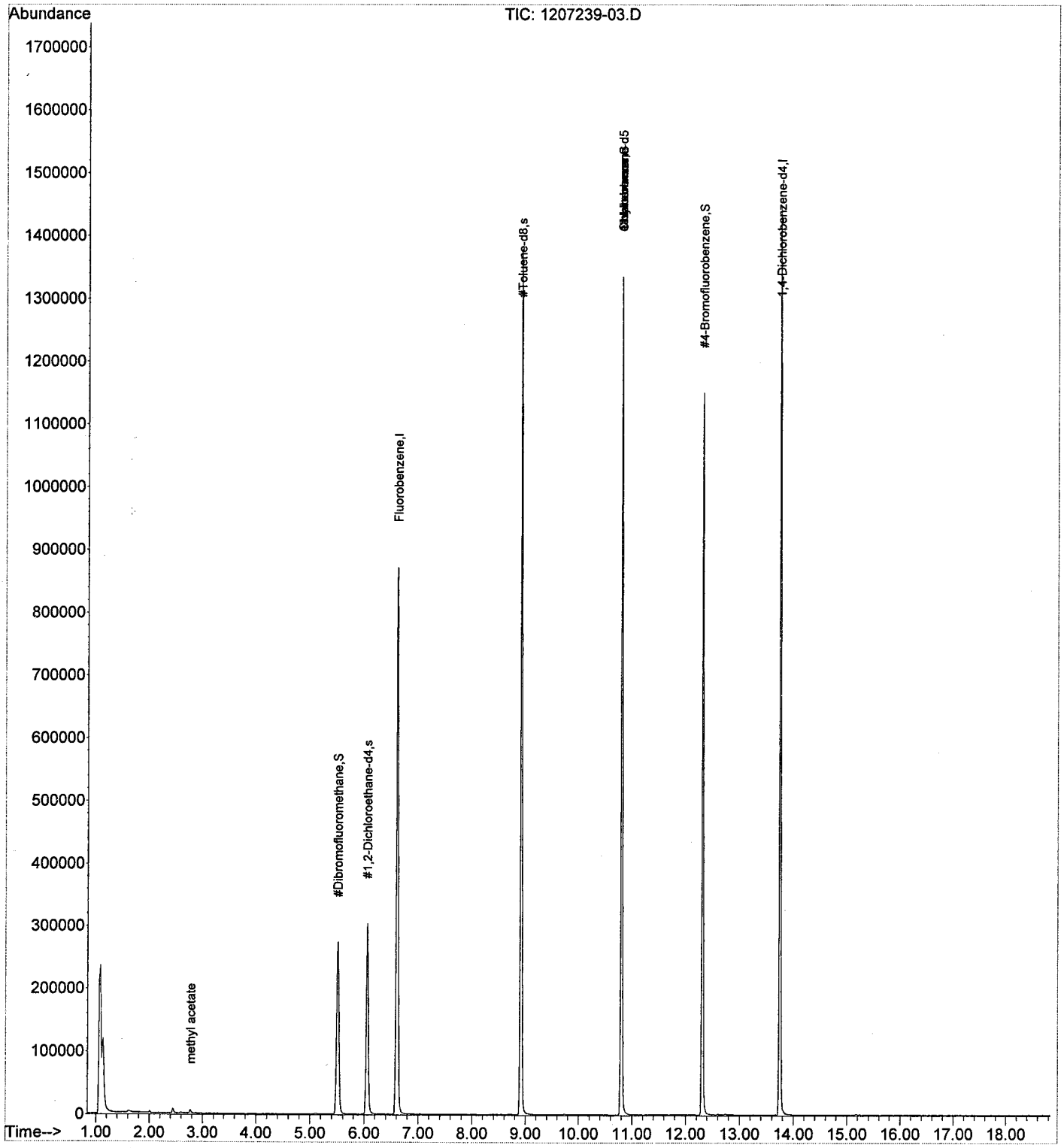
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	1021248	6.61	96	6.61	
Chlorobenzene-d5	824541	10.8	94	10.8	
1,4-Dichlorobenzene-d4	459288	13.75	89	13.75	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207239-03.D
Acq On : 18 Jul 2012 13:59
Operator : DLV
Sample : 1207239-03
Misc : TECH LAW
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 18 14:18:33 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207239-03.D
Acq On : 18 Jul 2012 13:59
Operator : DLV
Sample : 1207239-03
Misc : TECH LAW
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 18 14:18:33 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.61	96	1021248	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	824541	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	459288	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.50	111	241314	40.32	ug/L	0.00
Spiked Amount 40.000			Recovery	=	100.80%	
37) #1,2-Dichloroethane-d4	6.05	65	279792	41.05	ug/L	0.00
Spiked Amount 40.000			Recovery	=	102.62%	
47) #Toluene-d8	8.91	98	1019107	39.14	ug/L	0.00
Spiked Amount 40.000			Recovery	=	97.85%	
65) #4-Bromofluorobenzene	12.31	95	399355	39.04	ug/L	0.00
Spiked Amount 40.000			Recovery	=	97.60%	

Target Compounds						Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.		
3) chloromethane	0.00	50	0	N.D.		
4) vinyl chloride	0.00	62	0	N.D.		
5) bromomethane	0.00	94	0	N.D.		
6) chloroethane	0.00	64	0	N.D.		
7) dichlorofluoromethane	0.00	67	0	N.D.		
8) trichlorofluoromethane	0.00	101	0	N.D.		
9) ethyl ether	0.00	74	0	N.D.		
10) acrolein	0.00	56	0	N.D.		
11) 1,1,2-trichloro-1,2,2-trif	0.00	101	0	N.D.		
12) 1,1-dichloroethene	0.00	96	0	N.D.		
13) acetone	2.44	43	11141	Below Cal		85
14) iodomethane	0.00	142	0	N.D.		
15) carbon disulfide	0.00	76	0	N.D.		
16) methyl acetate	2.77	43	6902	✓ 1.41	ug/L #	60
17) methylene chloride	0.00	49	0	N.D.		
18) acrylonitrile	0.00	53	0	N.D.		
19) trans-1,2-dichloroethene	0.00	96	0	N.D.		
20) methyl (tert) butyl ether	0.00	73	0	N.D.		
21) 1,1-dichloroethane	0.00	63	0	N.D.		
22) vinyl acetate	0.00	43	0	N.D.		
23) 2,2-dichloropropane	0.00	77	0	N.D.		
24) cis-1,2-dichloroethene	0.00	96	0	N.D.		
25) 2-butanone (MEK)	0.00	43	0	N.D.		
26) bromochloromethane	0.00	49	0	N.D.		
27) tetrahydrofuran	0.00	71	0	N.D.		
28) chloroform	0.00	83	0	N.D.		
30) 1,1,1-trichloroethane	0.00	97	0	N.D.		
31) cyclohexane	0.00	56	0	N.D.		
32) carbon tetrachloride	0.00	117	0	N.D.		
33) 1,1-dichloropropene	0.00	75	0	N.D.		
34) benzene	0.00	78	0	N.D.		
35) 1,2-dichloroethane	0.00	62	0	N.D.		
36) heptane	6.60	57	31609	No Calib	#	
38) trichloroethene	0.00	130	0	N.D.		
39) methylcyclohexane	0.00	83	0	N.D.		
40) 1,2-dichloropropane	0.00	63	0	N.D.		
41) dibromomethane	0.00	93	0	N.D.		

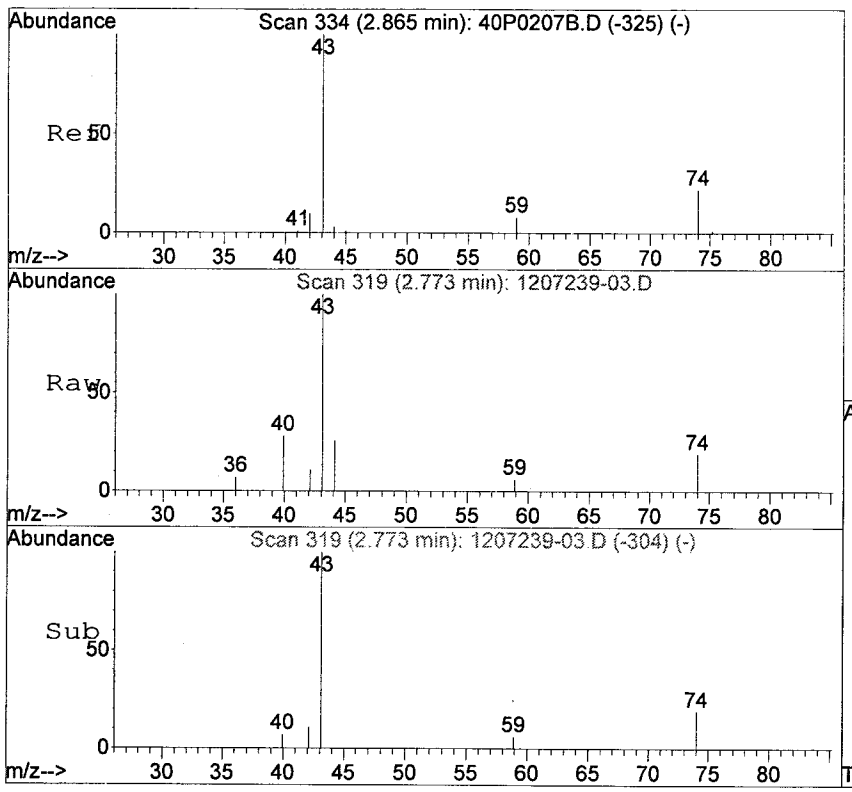
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 1207239-03.D
Acq On : 18 Jul 2012 13:59
Operator : DLV
Sample : 1207239-03
Misc : TECH LAW
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 18 14:18:33 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	0.00	83	0	N.D.	
44) 2-chloroethyl vinyl ether	0.00	63	0	N.D.	
45) cis-1,3-dichloropropene	0.00	75	0	N.D.	
46) 4-methyl-2-pentanone (MIBK	0.00	43	0	N.D.	
48) toluene	0.00	91	0	N.D.	
49) trans-1,3-dichloropropene	0.00	75	0	N.D.	
50) 1,1,2-trichloroethane	0.00	83	0	N.D.	
52) tetrachloroethene	0.00	166	0	N.D.	
53) 1,3-dichloropropane	0.00	76	0	N.D.	
54) 2-hexanone (MBK)	0.00	43	0	N.D.	
55) dibromochloromethane	0.00	129	0	N.D.	
56) 1,2-dibromoethane	0.00	109	0	N.D.	
57) chlorobenzene	0.00	112	0	N.D.	
58) 1-chlorohexane	10.80	55	6163	1.07 ug/L #	9
59) 1,1,1,2-tetrachloroethane	0.00	131	0	N.D.	
60) ethylbenzene	10.80	91	1438	0.05 ug/L #	44
61) m+p-xylene	0.00	106	0	N.D.	
62) o-xylene	0.00	106	0	N.D.	
63) styrene	0.00	104	0	N.D.	
64) bromoform	0.00	173	0	N.D.	
67) isopropylbenzene	0.00	105	0	N.D.	
68) bromobenzene	0.00	77	0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.00	83	0	N.D.	
70) 1,2,3-trichloropropane	0.00	110	0	N.D.	
71) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
72) n-propylbenzene	0.00	120	0	N.D.	
73) 2-chlorotoluene	0.00	126	0	N.D.	
74) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
75) 4-chlorotoluene	0.00	126	0	N.D.	
76) tert-butylbenzene	0.00	119	0	N.D.	
77) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
78) sec-butylbenzene	0.00	105	0	N.D.	
79) 1,3-dichlorobenzene	0.00	146	0	N.D.	
80) 4-isopropyltoluene	0.00	119	0	N.D.	
81) 1,4-dichlorobenzene	0.00	146	0	N.D.	
82) 1,2-dichlorobenzene	0.00	146	0	N.D.	
83) n-butylbenzene	0.00	91	0	N.D.	
84) hexachloroethane	0.00	201	0	N.D.	
85) 1,2-dibromo-3-chloropropan	0.00	157	0	N.D.	
86) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
87) hexachlorobutadiene	0.00	225	0	N.D.	
88) naphthalene	0.00	128	0	N.D.	
89) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
90) 2-methylnaphthalene	0.00	142	0	N.D.	

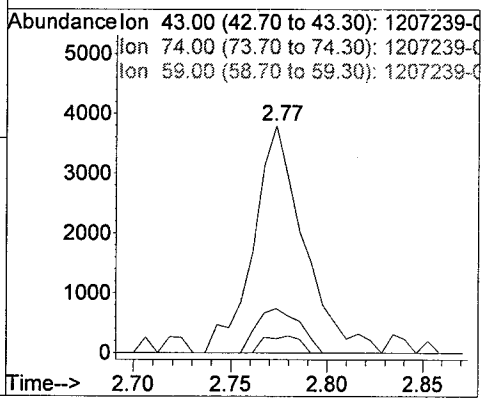
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#16
methyl acetate
Concen: 1.41 ug/L
RT: 2.77 min Scan# 319
Delta R.T. -0.01 min
Lab File: 1207239-03.D
Acq: 18 Jul 2012 13:59

Tgt Ion: 43 Resp: 6902

Ion	Ratio	Lower	Upper
43	100		
74	0.0	1.9	41.9#
59	0.0	0.0	27.7



ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106102

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207258-01 File ID: 1207258-01A.D

Sampled: 07/18/12 10:11 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 17:47

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	4.3	1.1	5.0	J
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	5.0	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106102

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207258-01 File ID: 1207258-01A.D

Sampled: 07/18/12 10:11 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 17:47

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.7	99	85 - 118	
1,2-Dichloroethane-d4	40.0	40.9	102	87 - 122	
Toluene-d8	40.0	39.2	98	85 - 113	
4-Bromofluorobenzene	40.0	35.5	89	82 - 110	

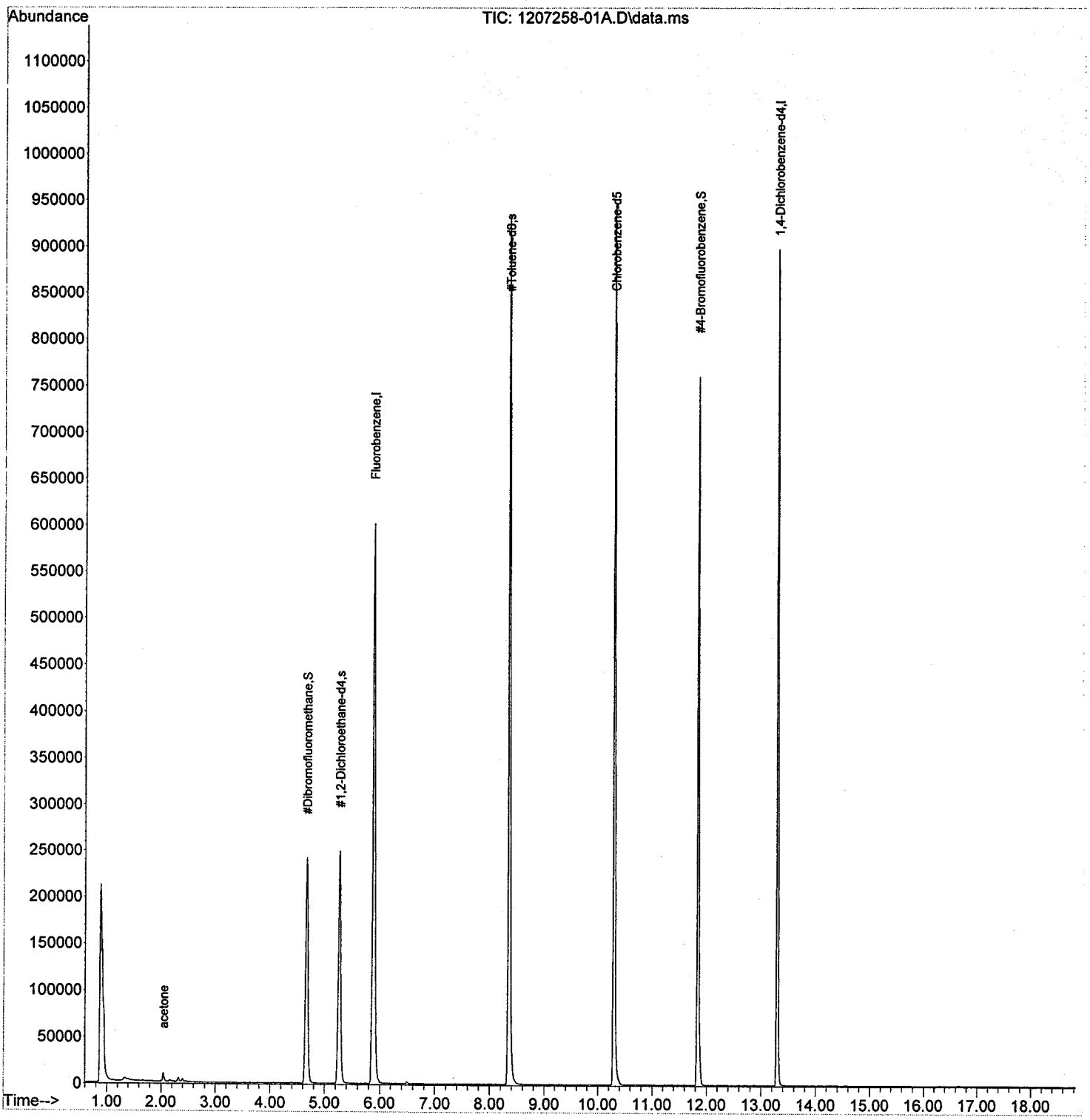
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	778098	5.885	91	5.872	
Chlorobenzene-d5	576351	10.298	86	10.286	
1,4-Dichlorobenzene-d4	244882	13.298	65	13.285	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207258-01A.D
Acq On : 26 Jul 2012 17:47
Operator : LEW
Sample : 1207258-01
Misc : Tech Law
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 27 07:04:45 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207258-01A.D
Acq On : 26 Jul 2012 17:47
Operator : LEW
Sample : 1207258-01
Misc : Tech Law
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 27 07:04:45 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.885	96	778098	40.00 ug/L	0.01
51) Chlorobenzene-d5	10.298	117	576351	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.298	152	244882	40.00 ug/L	# 0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	4.665	111	220980	39.69 ug/L	0.00
Spiked Amount 40.000			Recovery = 99.22%		
37) #1,2-Dichloroethane-d4	5.269	67	139440	40.89 ug/L	0.01
Spiked Amount 40.000			Recovery = 102.23%		
47) #Toluene-d8	8.354	98	751931	39.17 ug/L	0.01
Spiked Amount 40.000			Recovery = 97.93%		
65) #4-Bromofluorobenzene	11.841	95	261716	35.48 ug/L	0.00
Spiked Amount 40.000			Recovery = 88.70%		
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.000		0	N.D.	
3) chloromethane	0.000		0	N.D.	
4) vinyl chloride	0.000		0	N.D.	
5) bromomethane	0.000		0	N.D.	
6) chloroethane	0.000		0	N.D.	
7) dichlorofluoromethane	0.000		0	N.D.	
8) trichlorofluoromethane	0.000		0	N.D.	
9) ethyl ether	0.000		0	N.D.	
10) acrolein	0.000		0	N.D.	
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.	
12) 1,1-dichloroethene	0.000		0	N.D.	
13) acetone	2.044	43	12203	4.32 ug/L	97
14) iodomethane	0.000		0	N.D.	
15) carbon disulfide	0.000		0	N.D.	
16) methyl acetate	2.318	43	6360	Below Cal #	58
17) methylene chloride	2.398	49	1656	Below Cal #	69
18) acrylonitrile	0.000		0	N.D.	
19) trans-1,2-dichloroethene	0.000		0	N.D.	
20) methyl (tert) butyl ether	0.000		0	N.D.	
21) 1,1-dichloroethane	0.000		0	N.D.	
22) vinyl acetate	0.000		0	N.D.	
23) 2,2-dichloropropane	0.000		0	N.D.	
24) cis-1,2-dichloroethene	0.000		0	N.D.	
25) 2-butanone (MEK)	0.000		0	N.D.	
26) bromochloromethane	0.000		0	N.D.	
27) tetrahydrofuran	0.000		0	N.D.	
28) chloroform	0.000		0	N.D.	
30) 1,1,1-trichloroethane	0.000		0	N.D.	
31) cyclohexane	0.000		0	N.D.	
32) carbon tetrachloride	0.000		0	N.D.	
33) 1,1-dichloropropene	0.000		0	N.D.	
34) benzene	0.000		0	N.D.	
35) 1,2-dichloroethane	0.000		0	N.D.	
36) heptane	5.885	57	28966	No Calib	
38) trichloroethene	0.000		0	N.D.	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207258-01A.D
Acq On : 26 Jul 2012 17:47
Operator : LEW
Sample : 1207258-01
Misc : Tech Law
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 27 07:04:45 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

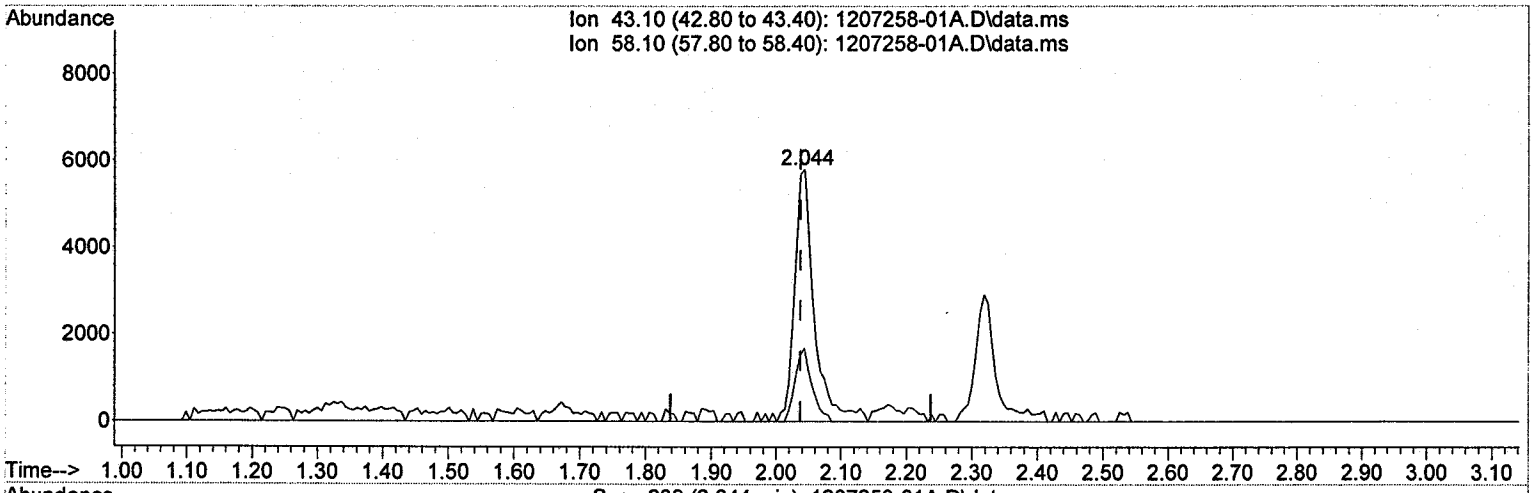
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	0.000		0	N.D.	
40) 1,2-dichloropropane	0.000		0	N.D.	
41) dibromomethane	0.000		0	N.D.	
42) 1,4-dioxane	0.000		0	N.D.	
43) bromodichloromethane	0.000		0	N.D.	
44) 2-chloroethyl vinyl ether	0.000		0	N.D.	
45) cis-1,3-dichloropropene	0.000		0	N.D.	
46) 4-methyl-2-pentanone (...	0.000		0	N.D.	
48) toluene	0.000		0	N.D.	
49) trans-1,3-dichloropropene	0.000		0	N.D.	
50) 1,1,2-trichloroethane	0.000		0	N.D.	
52) tetrachloroethene	0.000		0	N.D.	
53) 1,3-dichloropropane	0.000		0	N.D.	
54) 2-hexanone (MBK)	0.000		0	N.D.	
55) dibromochloromethane	0.000		0	N.D.	
56) 1,2-dibromoethane	0.000		0	N.D.	
57) chlorobenzene	0.000		0	N.D.	
58) 1-chlorohexane	0.000		0	N.D.	
59) 1,1,1,2-tetrachloroethane	0.000		0	N.D.	
60) ethylbenzene	0.000		0	N.D.	
61) m+p-xylene	0.000		0	N.D.	
62) o-xylene	0.000		0	N.D.	
63) styrene	0.000		0	N.D.	
64) bromoform	0.000		0	N.D.	
67) isopropylbenzene	0.000		0	N.D.	
68) bromobenzene	0.000		0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	
70) 1,2,3-trichloropropane	0.000		0	N.D.	
71) 1,4-dichloro-2-butene	0.000		0	N.D.	
72) n-propylbenzene	0.000		0	N.D.	
73) 2-chlorotoluene	0.000		0	N.D.	
74) 1,3,5-trimethylbenzene	0.000		0	N.D.	
75) 4-chlorotoluene	0.000		0	N.D.	
76) tert-butylbenzene	0.000		0	N.D.	
77) 1,2,4-trimethylbenzene	0.000		0	N.D.	
78) sec-butylbenzene	0.000		0	N.D.	
79) 1,3-dichlorobenzene	0.000		0	N.D.	
80) 4-isopropyltoluene	0.000		0	N.D.	
81) 1,4-dichlorobenzene	0.000		0	N.D.	
82) 1,2-dichlorobenzene	0.000		0	N.D.	
83) n-butylbenzene	0.000		0	N.D.	
84) hexachloroethane	0.000		0	N.D.	
85) 1,2-dibromo-3-chloropr...	0.000		0	N.D.	
86) 1,2,4-trichlorobenzene	0.000		0	N.D.	
87) hexachlorobutadiene	0.000		0	N.D.	
88) naphthalene	0.000		0	N.D.	
89) 1,2,3-trichlorobenzene	0.000		0	N.D.	
90) 2-methylnaphthalene	0.000		0	N.D.	

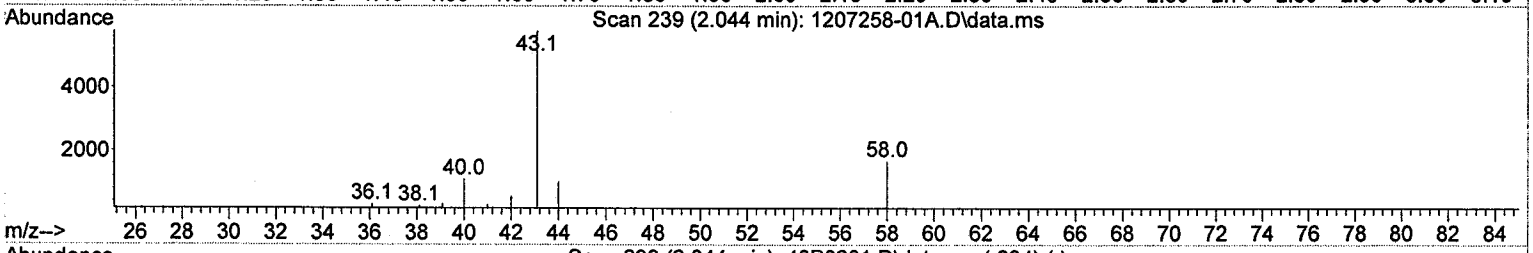
(#) = qualifier out of range (m) = manual integration (+) = signals summed

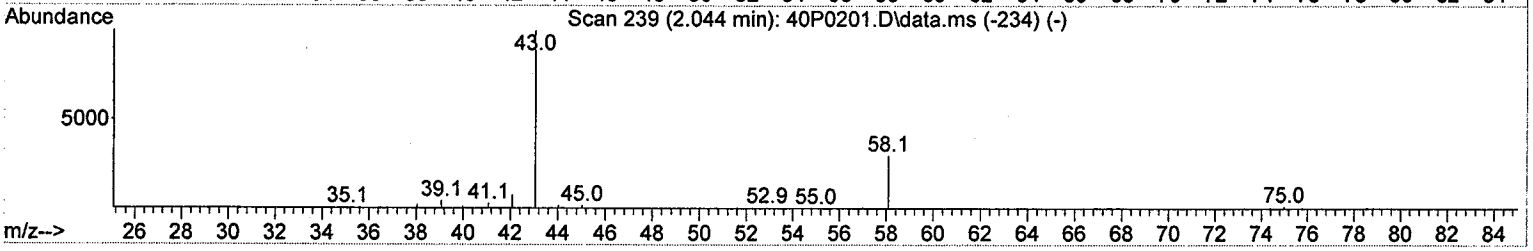
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207258-01A.D
Acq On : 26 Jul 2012 17:47
Operator : LEW
Sample : 1207258-01
Misc : Tech Law
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 27 07:04:45 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: 1207258-01A.D\data.ms

(13) acetone

2.044min (+0.006) 4.32 ug/L

response 12203

Ion	Exp%	Act%
43.10	100	100
58.10	23.00	24.63
0.00	0.00	0.00
0.00	0.00	0.00

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106031

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207258-02 File ID: 1207258-02.D

Sampled: 07/18/12 11:06 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 12:14

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	5.0	1.1	5.0	U
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	0.11	0.098	1.0	J
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	5.0	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106031

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207258-02 File ID: 1207258-02.D

Sampled: 07/18/12 11:06 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 12:14

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	38.4	96	85 - 118	
1,2-Dichloroethane-d4	40.0	39.6	99	87 - 122	
Toluene-d8	40.0	38.8	97	85 - 113	
4-Bromofluorobenzene	40.0	36.8	92	82 - 110	

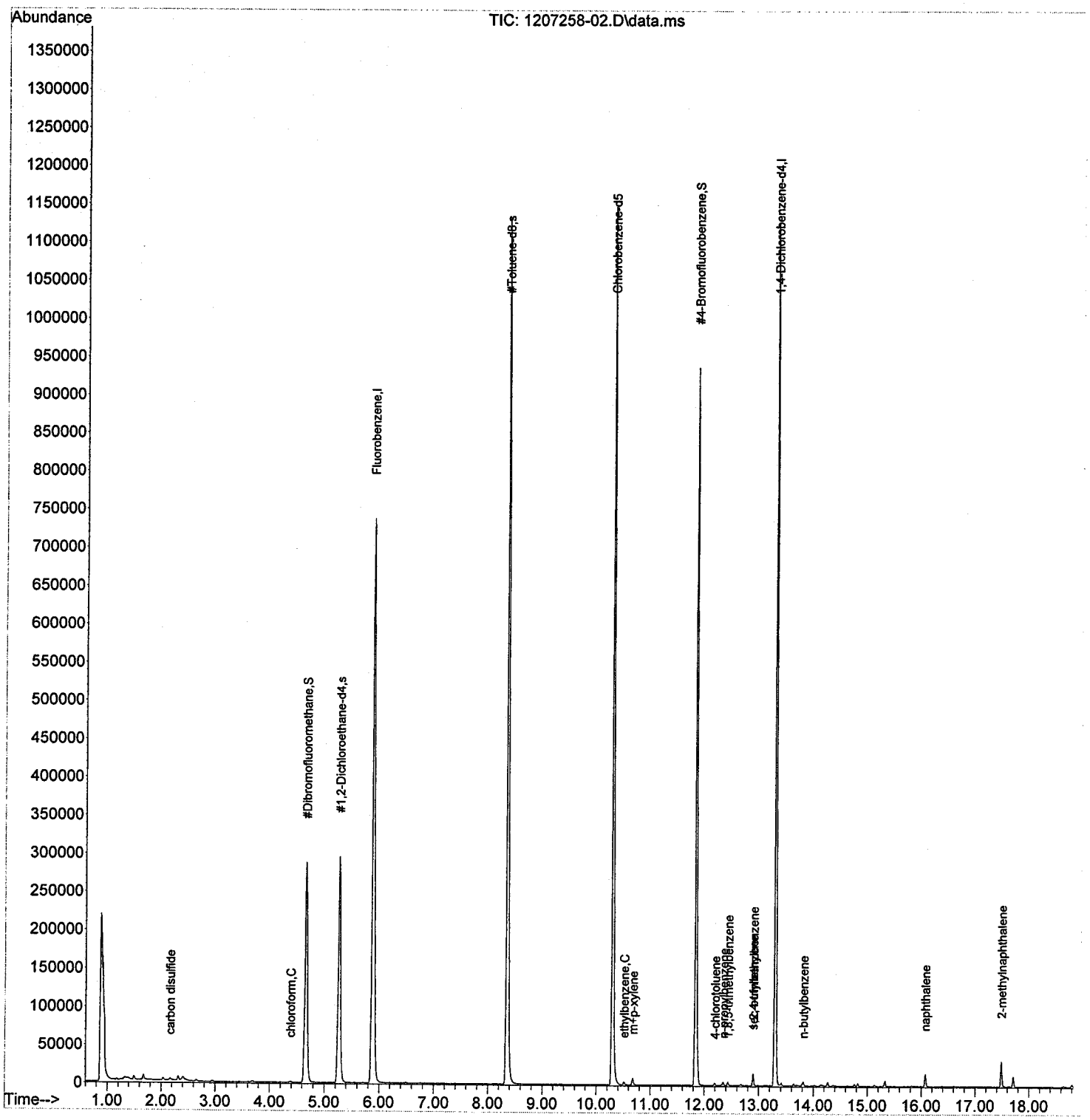
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	962299	5.878	113	5.872	
Chlorobenzene-d5	700510	10.298	104	10.286	
1,4-Dichlorobenzene-d4	317364	13.298	84	13.285	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207258-02.D
Acq On : 26 Jul 2012 12:14
Operator : LEW
Sample : 1207258-02
Misc : Tech Law
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 26 12:35:43 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



00897

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207258-02.D
Acq On : 26 Jul 2012 12:14
Operator : LEW
Sample : 1207258-02
Misc : Tech Law
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 26 12:35:43 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.878	96	962299	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.298	117	700510	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.298	152	317364	40.00 ug/L	# 0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	4.665	111	264399	38.39 ug/L	0.00
Spiked Amount 40.000			Recovery = 95.97%		
37) #1,2-Dichloroethane-d4	5.269	67	166870	39.57 ug/L	0.01
Spiked Amount 40.000			Recovery = 98.92%		
47) #Toluene-d8	8.347	98	922014	38.83 ug/L	0.00
Spiked Amount 40.000			Recovery = 97.08%		
65) #4-Bromofluorobenzene	11.841	95	330372	36.85 ug/L	0.00
Spiked Amount 40.000			Recovery = 92.13%		
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.000		0	N.D.	
3) chloromethane	0.000		0	N.D.	
4) vinyl chloride	0.000		0	N.D.	
5) bromomethane	0.000		0	N.D.	
6) chloroethane	0.000		0	N.D.	
7) dichlorofluoromethane	0.000		0	N.D.	
8) trichlorofluoromethane	0.000		0	N.D.	
9) ethyl ether	0.000		0	N.D.	
10) acrolein	0.000		0	N.D.	
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.	
12) 1,1-dichloroethene	0.000		0	N.D.	
13) acetone	2.044	43	3664	Below Cal	# 53
14) iodomethane	0.000		0	N.D.	
15) carbon disulfide	2.160	76	1309	0.08 ug/L	# 75
16) methyl acetate	2.318	43	6759	Below Cal	# 87
17) methylene chloride	2.397	49	1649	Below Cal	# 69
18) acrylonitrile	0.000		0	N.D.	
19) trans-1,2-dichloroethene	0.000		0	N.D.	
20) methyl (tert) butyl ether	0.000		0	N.D.	
21) 1,1-dichloroethane	0.000		0	N.D.	
22) vinyl acetate	0.000		0	N.D.	
23) 2,2-dichloropropane	0.000		0	N.D.	
24) cis-1,2-dichloroethene	0.000		0	N.D.	
25) 2-butanone (MEK)	0.000		0	N.D.	
26) bromochloromethane	0.000		0	N.D.	
27) tetrahydrofuran	0.000		0	N.D.	
28) chloroform	4.385	83	1603	0.11 ug/L	# 18
30) 1,1,1-trichloroethane	0.000		0	N.D.	
31) cyclohexane	0.000		0	N.D.	
32) carbon tetrachloride	0.000		0	N.D.	
33) 1,1-dichloropropene	0.000		0	N.D.	
34) benzene	0.000		0	N.D.	
35) 1,2-dichloroethane	0.000		0	N.D.	
36) heptane	5.878	57	35865	No Calib	
38) trichloroethene	0.000		0	N.D.	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207258-02.D
Acq On : 26 Jul 2012 12:14
Operator : LEW
Sample : 1207258-02
Misc : Tech Law
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 26 12:35:43 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

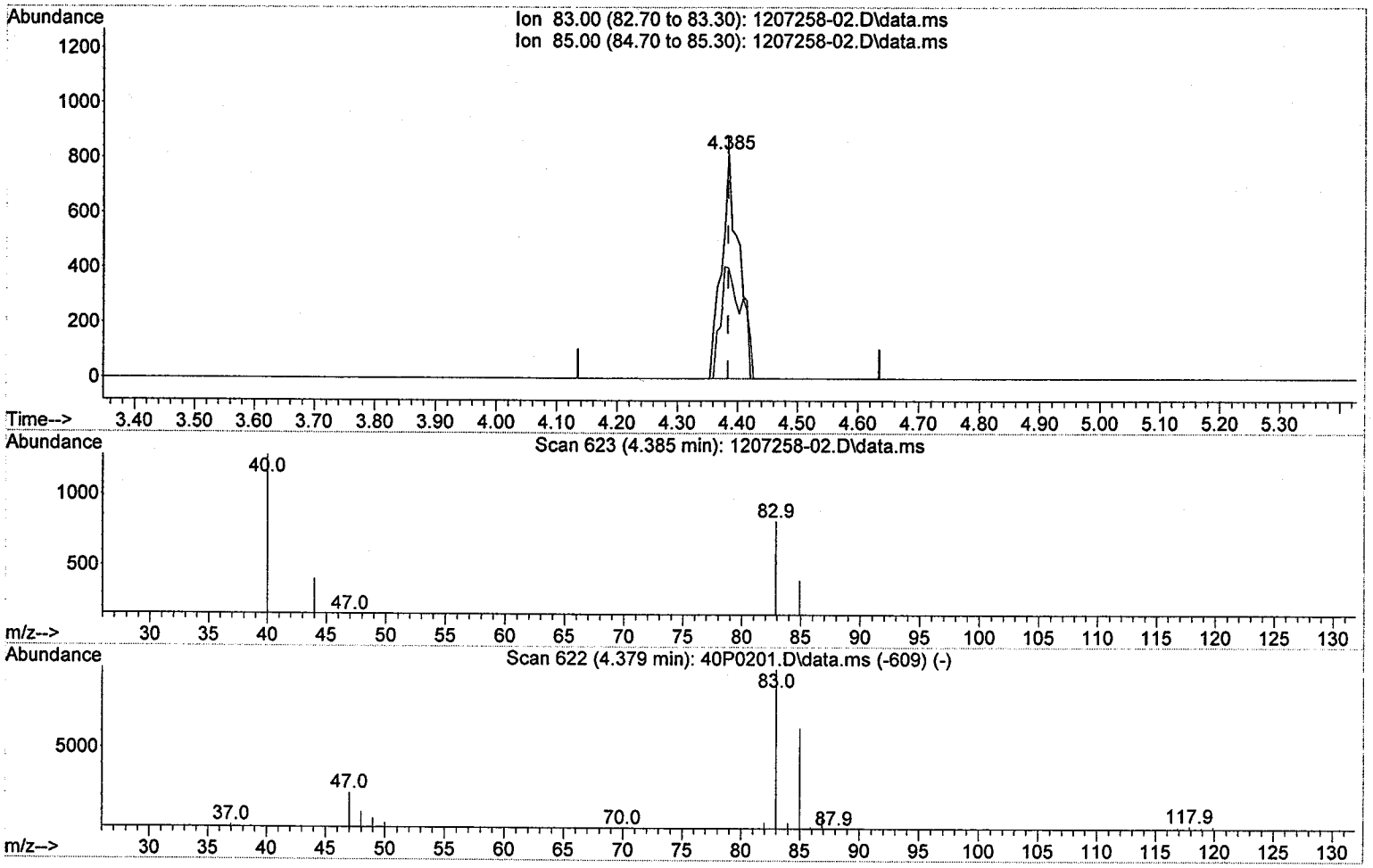
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39)	methylcyclohexane	0.000		0	N.D.	
40)	1,2-dichloropropane	0.000		0	N.D.	
41)	dibromomethane	0.000		0	N.D.	
42)	1,4-dioxane	0.000		0	N.D.	
43)	bromodichloromethane	0.000		0	N.D.	
44)	2-chloroethyl vinyl ether	0.000		0	N.D.	
45)	cis-1,3-dichloropropene	0.000		0	N.D.	
46)	4-methyl-2-pentanone (...	0.000		0	N.D.	
48)	toluene	0.000		0	N.D.	
49)	trans-1,3-dichloropropene	0.000		0	N.D.	
50)	1,1,2-trichloroethane	0.000		0	N.D.	
52)	tetrachloroethene	0.000		0	N.D.	
53)	1,3-dichloropropane	0.000		0	N.D.	
54)	2-hexanone (MBK)	0.000		0	N.D.	
55)	dibromochloromethane	0.000		0	N.D.	
56)	1,2-dibromoethane	0.000		0	N.D.	
57)	chlorobenzene	0.000		0	N.D.	
58)	1-chlorohexane	0.000		0	N.D.	
59)	1,1,1,2-tetrachloroethane	0.000		0	N.D.	
60)	ethylbenzene	10.512	91	4424	0.13 ug/L	95
61)	m+p-xylene	10.676	106	3250	0.25 ug/L	95
62)	o-xylene	0.000		0	N.D.	
63)	styrene	0.000		0	N.D.	
64)	bromoform	0.000		0	N.D.	
67)	isopropylbenzene	0.000		0	N.D.	
68)	bromobenzene	0.000		0	N.D.	
69)	1,1,2,2-tetrachloroethane	0.000		0	N.D.	
70)	1,2,3-trichloropropane	0.000		0	N.D.	
71)	1,4-dichloro-2-butene	0.000		0	N.D.	
72)	n-propylbenzene	12.347	120	1437	0.22 ug/L #	1
73)	2-chlorotoluene	0.000		0	N.D.	
74)	1,3,5-trimethylbenzene	12.432	105	3539	0.17 ug/L	99
75)	4-chlorotoluene	12.194	91	3404	0.16 ug/L #	45
76)	tert-butylbenzene	0.000		0	N.D.	
77)	1,2,4-trimethylbenzene	12.895	105	10328	0.54 ug/L	97
78)	sec-butylbenzene	12.895	105	10153	2.92 ug/L #	54
79)	1,3-dichlorobenzene	0.000		0	N.D.	
80)	4-isopropyltoluene	0.000		0	N.D.	
81)	1,4-dichlorobenzene	0.000		0	N.D.	
82)	1,2-dichlorobenzene	0.000		0	N.D.	
83)	n-butylbenzene	13.816	91	1799	3.49 ug/L #	15
84)	hexachloroethane	0.000		0	N.D.	
85)	1,2-dibromo-3-chloropr...	0.000		0	N.D.	
86)	1,2,4-trichlorobenzene	0.000		0	N.D.	
87)	hexachlorobutadiene	0.000		0	N.D.	
88)	naphthalene	16.072	128	14399	5.26 ug/L #	77
89)	1,2,3-trichlorobenzene	0.000		0	N.D.	
90)	2-methylnaphthalene	17.486	142	17298	8.13 ug/L	97

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207258-02.D
Acq On : 26 Jul 2012 12:14
Operator : LEW
Sample : 1207258-02
Misc : Tech Law
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 26 12:35:43 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



TIC: 1207258-02.D\data.ms

(28) chloroform (C)

4.385min (-0.000) 0.11 ug/L

response 1603

Ion	Exp%	Act%
83.00	100	100
85.00	64.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106101

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207258-03 File ID: 1207258-03.D

Sampled: 07/18/12 12:10 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 12:42

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	2.7	1.1	5.0	J
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	5.0	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106101

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM070512
Client: TechLaw
Project: KNM
Matrix: Water
Laboratory ID: 1207258-03
File ID: 1207258-03.D
Sampled: 07/18/12 12:10
Prepared: 07/26/12 08:00
Analyzed: 07/26/12 12:42
Solids:
Preparation: 5030B Aqueous Purge &
Initial/Final: 5 mL / 5 mL
QC Batch: 1209178
Sequence: 2G27052
Calibration: 2G27002
Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	38.8	97	85 - 118	
1,2-Dichloroethane-d4	40.0	40.0	100	87 - 122	
Toluene-d8	40.0	38.4	96	85 - 113	
4-Bromofluorobenzene	40.0	36.8	92	82 - 110	

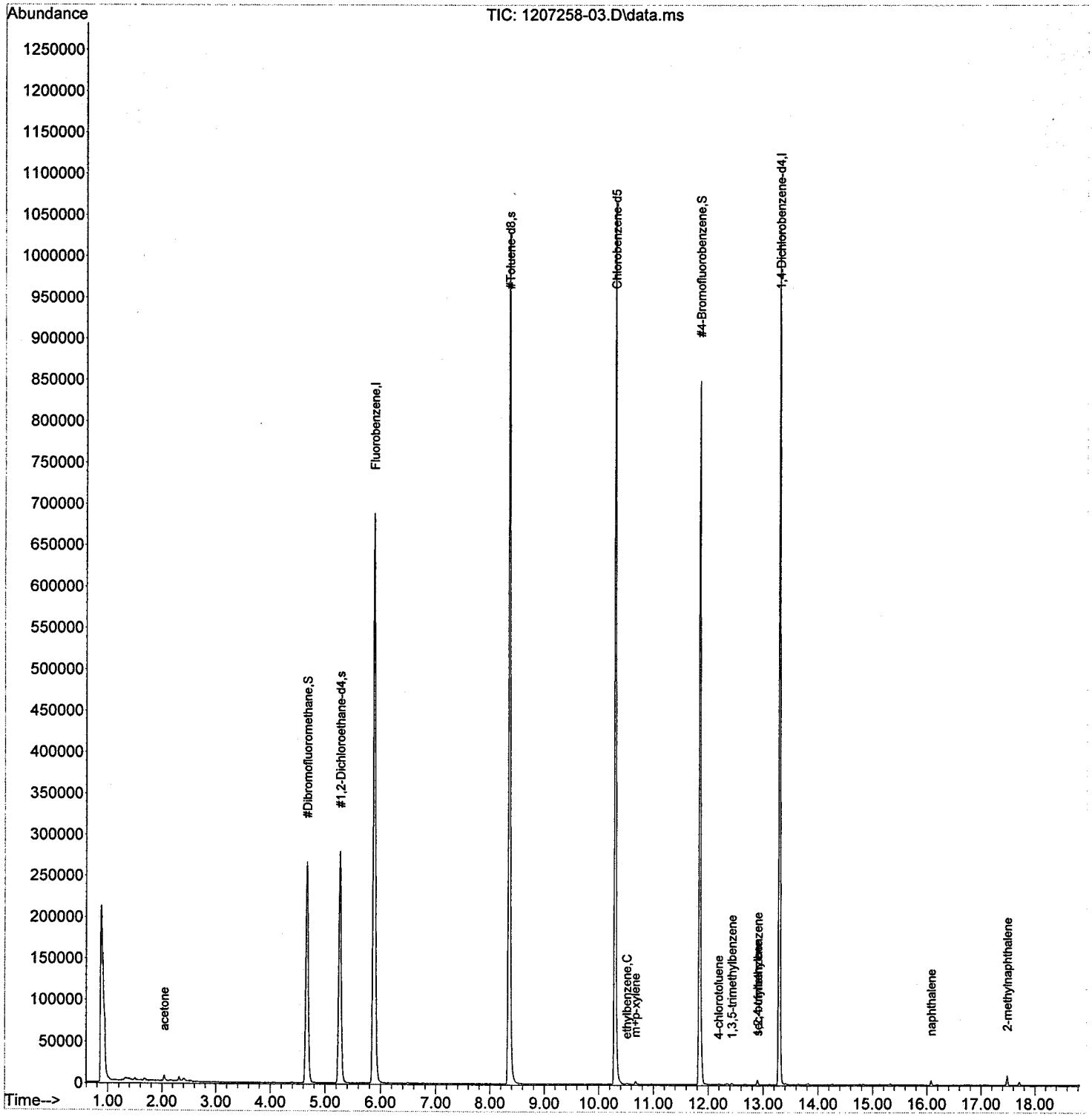
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	890515	5.878	104	5.872	
Chlorobenzene-d5	645394	10.298	96	10.286	
1,4-Dichlorobenzene-d4	289280	13.292	77	13.285	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207258-03.D
Acq On : 26 Jul 2012 12:42
Operator : LEW
Sample : 1207258-03
Misc : Tech Law
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 26 14:06:35 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207258-03.D
Acq On : 26 Jul 2012 12:42
Operator : LEW
Sample : 1207258-03
Misc : Tech Law
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 26 14:06:35 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.878	96	890515	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.298	117	645394	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.292	152	289280	40.00 ug/L	# 0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	4.665	111	247394	38.82 ug/L	0.00
Spiked Amount 40.000			Recovery = 97.05%		
37) #1,2-Dichloroethane-d4	5.269	67	156163	40.01 ug/L	0.01
Spiked Amount 40.000			Recovery = 100.02%		
47) #Toluene-d8	8.348	98	844136	38.42 ug/L	0.00
Spiked Amount 40.000			Recovery = 96.05%		
65) #4-Bromofluorobenzene	11.841	95	303778	36.77 ug/L	0.00
Spiked Amount 40.000			Recovery = 91.93%		
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.000		0	N.D.	
3) chloromethane	0.000		0	N.D.	
4) vinyl chloride	0.000		0	N.D.	
5) bromomethane	0.000		0	N.D.	
6) chloroethane	0.000		0	N.D.	
7) dichlorofluoromethane	0.000		0	N.D.	
8) trichlorofluoromethane	0.000		0	N.D.	
9) ethyl ether	0.000		0	N.D.	
10) acrolein	0.000		0	N.D.	
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.	
12) 1,1-dichloroethene	0.000		0	N.D.	
13) acetone	2.038	43	10764	2.68 ug/L	94
14) iodomethane	0.000		0	N.D.	
15) carbon disulfide	0.000		0	N.D.	
16) methyl acetate	2.318	43	5885	Below Cal #	58
17) methylene chloride	2.397	49	1393	Below Cal #	14
18) acrylonitrile	0.000		0	N.D.	
19) trans-1,2-dichloroethene	0.000		0	N.D.	
20) methyl (tert) butyl ether	0.000		0	N.D.	
21) 1,1-dichloroethane	0.000		0	N.D.	
22) vinyl acetate	0.000		0	N.D.	
23) 2,2-dichloropropane	0.000		0	N.D.	
24) cis-1,2-dichloroethene	0.000		0	N.D.	
25) 2-butanone (MEK)	0.000		0	N.D.	
26) bromochloromethane	0.000		0	N.D.	
27) tetrahydrofuran	0.000		0	N.D.	
28) chloroform	0.000		0	N.D.	
30) 1,1,1-trichloroethane	0.000		0	N.D.	
31) cyclohexane	0.000		0	N.D.	
32) carbon tetrachloride	0.000		0	N.D.	
33) 1,1-dichloropropene	0.000		0	N.D.	
34) benzene	0.000		0	N.D.	
35) 1,2-dichloroethane	0.000		0	N.D.	
36) heptane	5.885	57	33435	No Calib #	
38) trichloroethene	0.000		0	N.D.	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207258-03.D
Acq On : 26 Jul 2012 12:42
Operator : LEW
Sample : 1207258-03
Misc : Tech Law
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 26 14:06:35 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

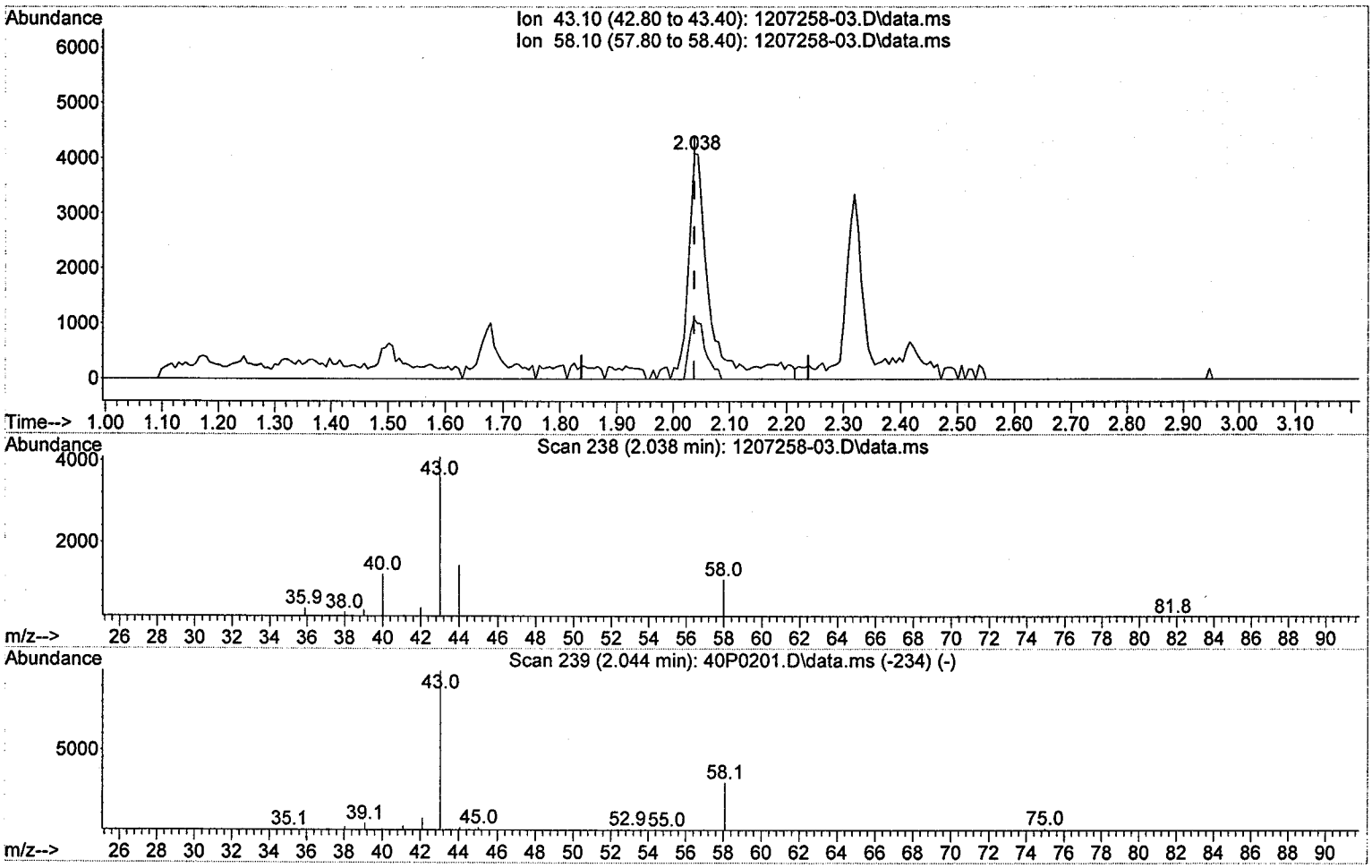
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39)	methylcyclohexane	0.000		0	N.D.	
40)	1,2-dichloropropane	0.000		0	N.D.	
41)	dibromomethane	0.000		0	N.D.	
42)	1,4-dioxane	0.000		0	N.D.	
43)	bromodichloromethane	0.000		0	N.D.	
44)	2-chloroethyl vinyl ether	0.000		0	N.D.	
45)	cis-1,3-dichloropropene	0.000		0	N.D.	
46)	4-methyl-2-pentanone (...	0.000		0	N.D.	
48)	toluene	0.000		0	N.D.	
49)	trans-1,3-dichloropropene	0.000		0	N.D.	
50)	1,1,2-trichloroethane	0.000		0	N.D.	
52)	tetrachloroethene	0.000		0	N.D.	
53)	1,3-dichloropropane	0.000		0	N.D.	
54)	2-hexanone (MBK)	0.000		0	N.D.	
55)	dibromochloromethane	0.000		0	N.D.	
56)	1,2-dibromoethane	0.000		0	N.D.	
57)	chlorobenzene	0.000		0	N.D.	
58)	1-chlorohexane	0.000		0	N.D.	
59)	1,1,1,2-tetrachloroethane	0.000		0	N.D.	
60)	ethylbenzene	10.512	91	2059	0.07 ug/L #	44
61)	m+p-xylene	10.670	106	1459	0.12 ug/L	98
62)	o-xylene	0.000		0	N.D.	
63)	styrene	0.000		0	N.D.	
64)	bromoform	0.000		0	N.D.	
67)	isopropylbenzene	0.000		0	N.D.	
68)	bromobenzene	0.000		0	N.D.	
69)	1,1,2,2-tetrachloroethane	0.000		0	N.D.	
70)	1,2,3-trichloropropane	0.000		0	N.D.	
71)	1,4-dichloro-2-butene	0.000		0	N.D.	
72)	n-propylbenzene	0.000		0	N.D.	
73)	2-chlorotoluene	0.000		0	N.D.	
74)	1,3,5-trimethylbenzene	12.432	105	1460	0.08 ug/L #	29
75)	4-chlorotoluene	12.188	91	1343	0.07 ug/L #	45
76)	tert-butylbenzene	0.000		0	N.D.	
77)	1,2,4-trimethylbenzene	12.902	105	4355	0.25 ug/L	97
78)	sec-butylbenzene	12.902	105	4294	2.71 ug/L #	54
79)	1,3-dichlorobenzene	0.000		0	N.D.	
80)	4-isopropyltoluene	0.000		0	N.D.	
81)	1,4-dichlorobenzene	0.000		0	N.D.	
82)	1,2-dichlorobenzene	0.000		0	N.D.	
83)	n-butylbenzene	0.000		0	N.D.	
84)	hexachloroethane	0.000		0	N.D.	
85)	1,2-dibromo-3-chloropr...	0.000		0	N.D.	
86)	1,2,4-trichlorobenzene	0.000		0	N.D.	
87)	hexachlorobutadiene	0.000		0	N.D.	
88)	naphthalene	16.078	128	5509	4.52 ug/L #	77
89)	1,2,3-trichlorobenzene	0.000		0	N.D.	
90)	2-methylnaphthalene	17.486	142	6380	5.12 ug/L	98

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207258-03.D
Acq On : 26 Jul 2012 12:42
Operator : LEW
Sample : 1207258-03
Misc : Tech Law
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 26 14:06:35 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



TIC: 1207258-03.D\data.ms

(13) acetone

2.038min (-0.000) 2.68 ug/L

response 10764

Ion	Exp%	Act%
43.10	100	100
58.10	23.00	20.13
0.00	0.00	0.00
0.00	0.00	0.00

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106098

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207292-01 File ID: 1207292-01.D

Sampled: 07/19/12 10:54 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 13:10

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	5.0	1.1	5.0	U
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	5.0	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106098

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207292-01 File ID: 1207292-01.D

Sampled: 07/19/12 10:54 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 13:10

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.0	97	85 - 118	
1,2-Dichloroethane-d4	40.0	40.2	100	87 - 122	
Toluene-d8	40.0	38.6	96	85 - 113	
4-Bromofluorobenzene	40.0	36.4	91	82 - 110	

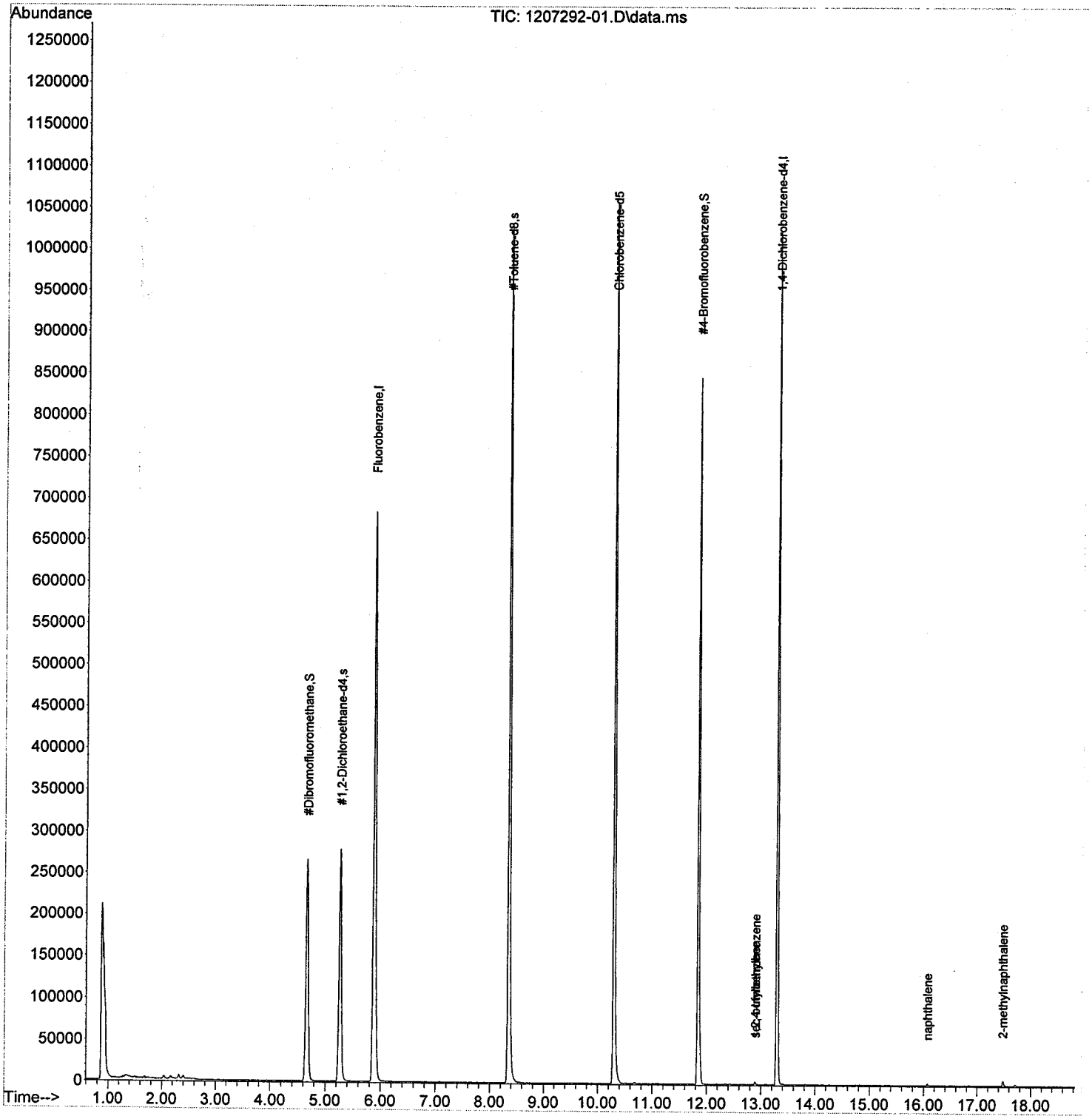
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	885970	5.885	104	5.872	
Chlorobenzene-d5	640498	10.298	95	10.286	
1,4-Dichlorobenzene-d4	283189	13.292	75	13.285	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207292-01.D
Acq On : 26 Jul 2012 13:10
Operator : LEW
Sample : 1207292-01
Misc : Tech Law
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 26 14:07:14 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207292-01.D
Acq On : 26 Jul 2012 13:10
Operator : LEW
Sample : 1207292-01
Misc : Tech Law
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 26 14:07:14 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.885	96	885970	40.00 ug/L	0.01
51) Chlorobenzene-d5	10.298	117	640498	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.292	152	283189	40.00 ug/L	# 0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	4.665	111	246938	38.95 ug/L	0.00
Spiked Amount 40.000			Recovery	= 97.38%	
37) #1,2-Dichloroethane-d4	5.269	67	156101	40.20 ug/L	0.01
Spiked Amount 40.000			Recovery	= 100.50%	
47) #Toluene-d8	8.354	98	843303	38.58 ug/L	0.01
Spiked Amount 40.000			Recovery	= 96.45%	
65) #4-Bromofluorobenzene	11.841	95	298704	36.44 ug/L	0.00
Spiked Amount 40.000			Recovery	= 91.10%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.000		0	N.D.	
3) chloromethane	0.000		0	N.D.	
4) vinyl chloride	0.000		0	N.D.	
5) bromomethane	0.000		0	N.D.	
6) chloroethane	0.000		0	N.D.	
7) dichlorofluoromethane	0.000		0	N.D.	
8) trichlorofluoromethane	0.000		0	N.D.	
9) ethyl ether	0.000		0	N.D.	
10) acrolein	0.000		0	N.D.	
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.	
12) 1,1-dichloroethene	0.000		0	N.D.	
13) acetone	2.038	43	4773	Below Cal	# 53
14) iodomethane	0.000		0	N.D.	
15) carbon disulfide	0.000		0	N.D.	
16) methyl acetate	2.318	43	8421	Below Cal	# 58
17) methylene chloride	2.397	49	1719	Below Cal	# 62
18) acrylonitrile	0.000		0	N.D.	
19) trans-1,2-dichloroethene	0.000		0	N.D.	
20) methyl (tert) butyl ether	0.000		0	N.D.	
21) 1,1-dichloroethane	0.000		0	N.D.	
22) vinyl acetate	0.000		0	N.D.	
23) 2,2-dichloropropane	0.000		0	N.D.	
24) cis-1,2-dichloroethene	0.000		0	N.D.	
25) 2-butanone (MEK)	0.000		0	N.D.	
26) bromochloromethane	0.000		0	N.D.	
27) tetrahydrofuran	0.000		0	N.D.	
28) chloroform	0.000		0	N.D.	
30) 1,1,1-trichloroethane	0.000		0	N.D.	
31) cyclohexane	0.000		0	N.D.	
32) carbon tetrachloride	0.000		0	N.D.	
33) 1,1-dichloropropene	0.000		0	N.D.	
34) benzene	0.000		0	N.D.	
35) 1,2-dichloroethane	0.000		0	N.D.	
36) heptane	5.885	57	33395	No Calib	
38) trichloroethene	0.000		0	N.D.	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207292-01.D
Acq On : 26 Jul 2012 13:10
Operator : LEW
Sample : 1207292-01
Misc : Tech Law
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 26 14:07:14 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	0.000		0	N.D.	
40) 1,2-dichloropropane	0.000		0	N.D.	
41) dibromomethane	0.000		0	N.D.	
42) 1,4-dioxane	0.000		0	N.D.	
43) bromodichloromethane	0.000		0	N.D.	
44) 2-chloroethyl vinyl ether	0.000		0	N.D.	
45) cis-1,3-dichloropropene	0.000		0	N.D.	
46) 4-methyl-2-pentanone (...	0.000		0	N.D.	
48) toluene	0.000		0	N.D.	
49) trans-1,3-dichloropropene	0.000		0	N.D.	
50) 1,1,2-trichloroethane	0.000		0	N.D.	
52) tetrachloroethene	0.000		0	N.D.	
53) 1,3-dichloropropane	0.000		0	N.D.	
54) 2-hexanone (MBK)	0.000		0	N.D.	
55) dibromochloromethane	0.000		0	N.D.	
56) 1,2-dibromoethane	0.000		0	N.D.	
57) chlorobenzene	0.000		0	N.D.	
58) 1-chlorohexane	0.000		0	N.D.	
59) 1,1,1,2-tetrachloroethane	0.000		0	N.D.	
60) ethylbenzene	0.000		0	N.D.	
61) m+p-xylene	0.000		0	N.D.	
62) o-xylene	0.000		0	N.D.	
63) styrene	0.000		0	N.D.	
64) bromoform	0.000		0	N.D.	
67) isopropylbenzene	0.000		0	N.D.	
68) bromobenzene	0.000		0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	
70) 1,2,3-trichloropropane	0.000		0	N.D.	
71) 1,4-dichloro-2-butene	0.000		0	N.D.	
72) n-propylbenzene	0.000		0	N.D.	
73) 2-chlorotoluene	0.000		0	N.D.	
74) 1,3,5-trimethylbenzene	0.000		0	N.D.	
75) 4-chlorotoluene	0.000		0	N.D.	
76) tert-butylbenzene	0.000		0	N.D.	
77) 1,2,4-trimethylbenzene	12.895	105	2501	0.15 ug/L #	32
78) sec-butylbenzene	12.895	105	2501	2.63 ug/L #	54
79) 1,3-dichlorobenzene	0.000		0	N.D.	
80) 4-isopropyltoluene	0.000		0	N.D.	
81) 1,4-dichlorobenzene	0.000		0	N.D.	
82) 1,2-dichlorobenzene	0.000		0	N.D.	
83) n-butylbenzene	0.000		0	N.D.	
84) hexachloroethane	0.000		0	N.D.	
85) 1,2-dibromo-3-chloropr...	0.000		0	N.D.	
86) 1,2,4-trichlorobenzene	0.000		0	N.D.	
87) hexachlorobutadiene	0.000		0	N.D.	
88) naphthalene	16.072	128	2814	4.26 ug/L #	77
89) 1,2,3-trichlorobenzene	0.000		0	N.D.	
90) 2-methylnaphthalene	17.480	142	3799	4.31 ug/L	97

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

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106013

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207292-02 File ID: 1207292-02.D

Sampled: 07/19/12 11:37 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 13:37

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	5.0	1.1	5.0	U
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	5.0	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106013

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207292-02 File ID: 1207292-02.D

Sampled: 07/19/12 11:37 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 13:37

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	0.41	0.18	1.0	J
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.4	98	85 - 118	
1,2-Dichloroethane-d4	40.0	40.3	101	87 - 122	
Toluene-d8	40.0	38.9	97	85 - 113	
4-Bromofluorobenzene	40.0	36.3	91	82 - 110	

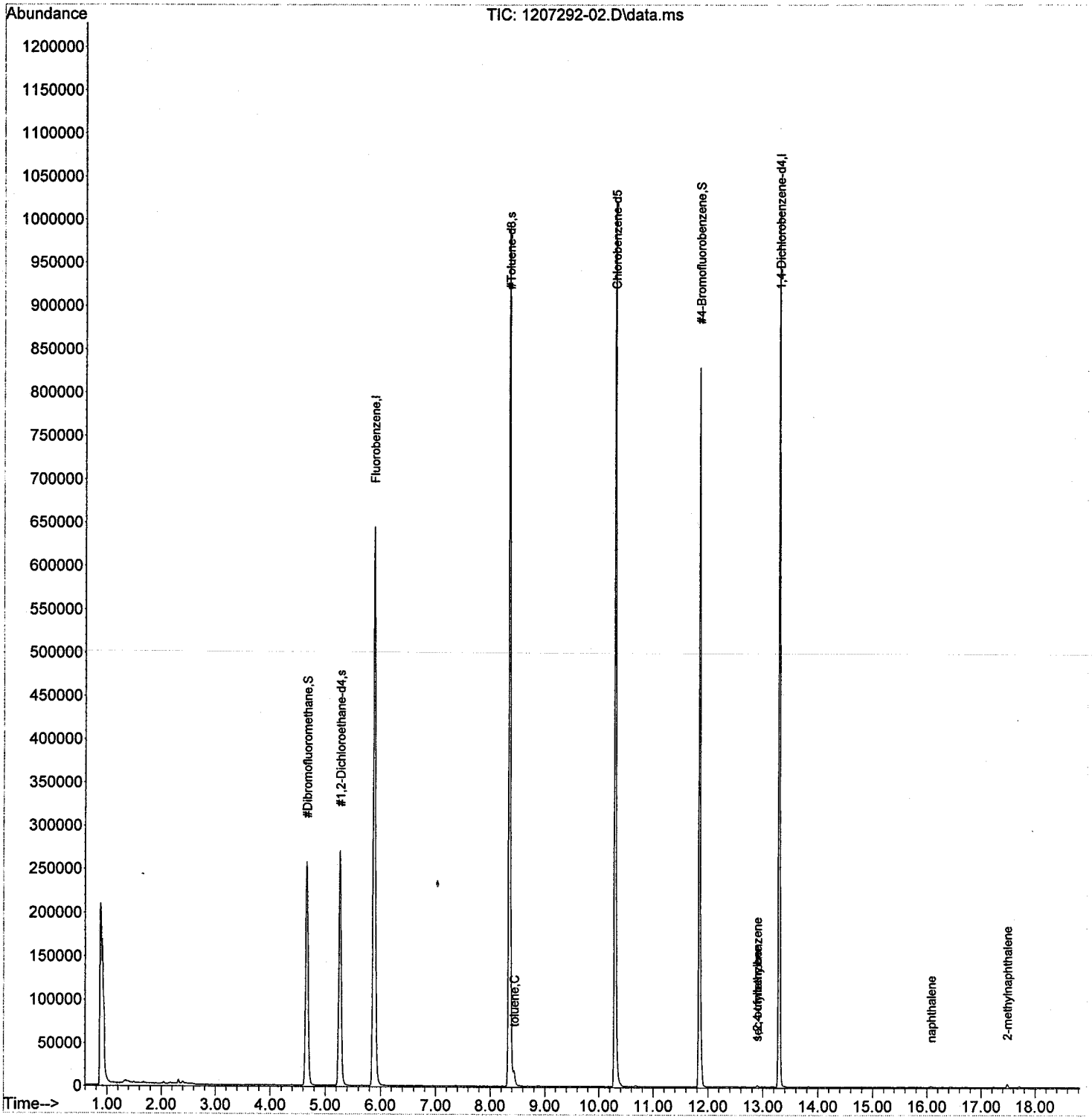
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	849582	5.884	100	5.872	
Chlorobenzene-d5	620367	10.298	92	10.286	
1,4-Dichlorobenzene-d4	278935	13.292	74	13.285	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207292-02.D
Acq On : 26 Jul 2012 13:37
Operator : LEW
Sample : 1207292-02
Misc : Tech Law
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 26 14:07:33 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



00914

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207292-02.D
Acq On : 26 Jul 2012 13:37
Operator : LEW
Sample : 1207292-02
Misc : Tech Law
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 26 14:07:33 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.884	96	849582	40.00 ug/L	0.01
51) Chlorobenzene-d5	10.298	117	620367	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.292	152	278935	40.00 ug/L	# 0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	4.665	111	239285	39.36 ug/L	0.00
Spiked Amount 40.000			Recovery	= 98.40%	
37) #1,2-Dichloroethane-d4	5.269	67	150198	40.34 ug/L	0.01
Spiked Amount 40.000			Recovery	= 100.85%	
47) #Toluene-d8	8.354	98	815649	38.91 ug/L	0.01
Spiked Amount 40.000			Recovery	= 97.27%	
65) #4-Bromofluorobenzene	11.841	95	288372	36.32 ug/L	0.00
Spiked Amount 40.000			Recovery	= 90.80%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.000		0	N.D.	
3) chloromethane	0.000		0	N.D.	
4) vinyl chloride	0.000		0	N.D.	
5) bromomethane	0.000		0	N.D.	
6) chloroethane	0.000		0	N.D.	
7) dichlorofluoromethane	0.000		0	N.D.	
8) trichlorofluoromethane	0.000		0	N.D.	
9) ethyl ether	0.000		0	N.D.	
10) acrolein	0.000		0	N.D.	
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.	
12) 1,1-dichloroethene	0.000		0	N.D.	
13) acetone	2.044	43	3256	Below Cal	# 53
14) iodomethane	0.000		0	N.D.	
15) carbon disulfide	0.000		0	N.D.	
16) methyl acetate	2.318	43	7958	Below Cal	# 58
17) methylene chloride	2.397	49	1255	Below Cal	# 14
18) acrylonitrile	0.000		0	N.D.	
19) trans-1,2-dichloroethene	0.000		0	N.D.	
20) methyl (tert) butyl ether	0.000		0	N.D.	
21) 1,1-dichloroethane	0.000		0	N.D.	
22) vinyl acetate	0.000		0	N.D.	
23) 2,2-dichloropropane	0.000		0	N.D.	
24) cis-1,2-dichloroethene	0.000		0	N.D.	
25) 2-butanone (MEK)	0.000		0	N.D.	
26) bromochloromethane	0.000		0	N.D.	
27) tetrahydrofuran	0.000		0	N.D.	
28) chloroform	0.000		0	N.D.	
30) 1,1,1-trichloroethane	0.000		0	N.D.	
31) cyclohexane	0.000		0	N.D.	
32) carbon tetrachloride	0.000		0	N.D.	
33) 1,1-dichloropropene	0.000		0	N.D.	
34) benzene	0.000		0	N.D.	
35) 1,2-dichloroethane	0.000		0	N.D.	
36) heptane	5.884	57	32497	No Calib	
38) trichloroethene	0.000		0	N.D.	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207292-02.D
Acq On : 26 Jul 2012 13:37
Operator : LEW
Sample : 1207292-02
Misc : Tech Law
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 26 14:07:33 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

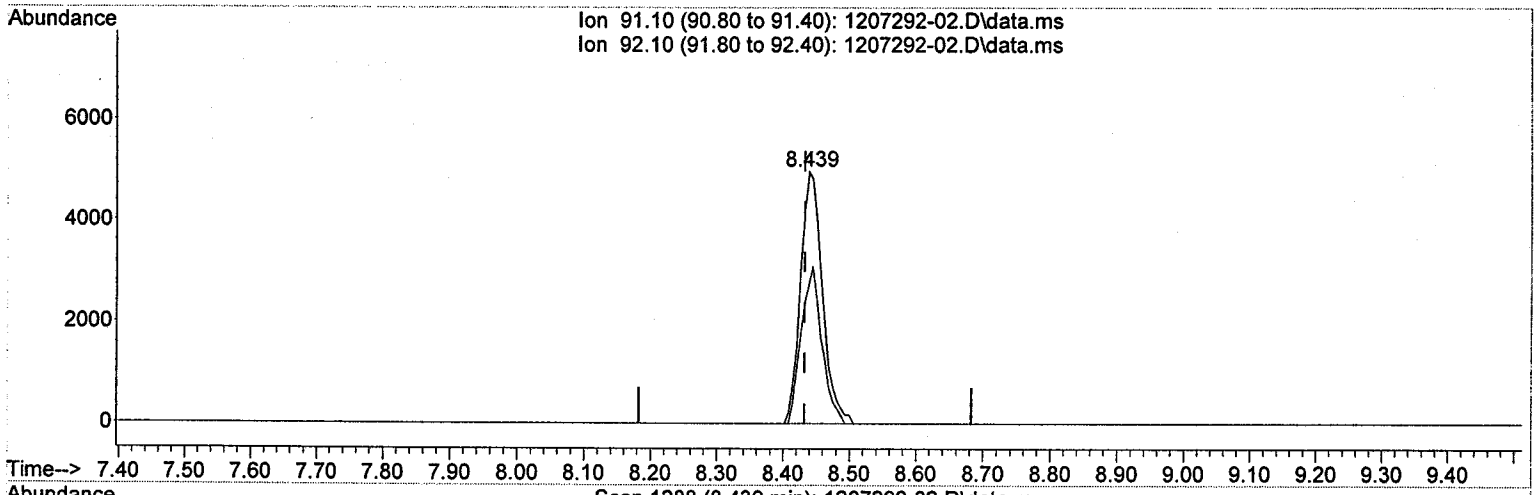
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39)	methylcyclohexane	0.000		0	N.D.	
40)	1,2-dichloropropane	0.000		0	N.D.	
41)	dibromomethane	0.000		0	N.D.	
42)	1,4-dioxane	0.000		0	N.D.	
43)	bromodichloromethane	0.000		0	N.D.	
44)	2-chloroethyl vinyl ether	0.000		0	N.D.	
45)	cis-1,3-dichloropropene	0.000		0	N.D.	
46)	4-methyl-2-pentanone (...	0.000		0	N.D.	
48)	toluene	8.439	91	11445	0.41 ug/L	99
49)	trans-1,3-dichloropropene	0.000		0	N.D.	
50)	1,1,2-trichloroethane	0.000		0	N.D.	
52)	tetrachloroethene	0.000		0	N.D.	
53)	1,3-dichloropropane	0.000		0	N.D.	
54)	2-hexanone (MBK)	0.000		0	N.D.	
55)	dibromochloromethane	0.000		0	N.D.	
56)	1,2-dibromoethane	0.000		0	N.D.	
57)	chlorobenzene	0.000		0	N.D.	
58)	1-chlorohexane	0.000		0	N.D.	
59)	1,1,1,2-tetrachloroethane	0.000		0	N.D.	
60)	ethylbenzene	0.000		0	N.D.	
61)	m+p-xylene	0.000		0	N.D.	
62)	o-xylene	0.000		0	N.D.	
63)	styrene	0.000		0	N.D.	
64)	bromoform	0.000		0	N.D.	
67)	isopropylbenzene	0.000		0	N.D.	
68)	bromobenzene	0.000		0	N.D.	
69)	1,1,2,2-tetrachloroethane	0.000		0	N.D.	
70)	1,2,3-trichloropropane	0.000		0	N.D.	
71)	1,4-dichloro-2-butene	0.000		0	N.D.	
72)	n-propylbenzene	0.000		0	N.D.	
73)	2-chlorotoluene	0.000		0	N.D.	
74)	1,3,5-trimethylbenzene	0.000		0	N.D.	
75)	4-chlorotoluene	0.000		0	N.D.	
76)	tert-butylbenzene	0.000		0	N.D.	
77)	1,2,4-trimethylbenzene	12.895	105	1494	0.09 ug/L #	32
78)	sec-butylbenzene	12.895	105	1493	2.59 ug/L #	54
79)	1,3-dichlorobenzene	0.000		0	N.D.	
80)	4-isopropyltoluene	0.000		0	N.D.	
81)	1,4-dichlorobenzene	0.000		0	N.D.	
82)	1,2-dichlorobenzene	0.000		0	N.D.	
83)	n-butylbenzene	0.000		0	N.D.	
84)	hexachloroethane	0.000		0	N.D.	
85)	1,2-dibromo-3-chloropr...	0.000		0	N.D.	
86)	1,2,4-trichlorobenzene	0.000		0	N.D.	
87)	hexachlorobutadiene	0.000		0	N.D.	
88)	naphthalene	16.078	128	1634	4.15 ug/L #	77
89)	1,2,3-trichlorobenzene	0.000		0	N.D.	
90)	2-methylnaphthalene	17.486	142	2865	4.02 ug/L #	72

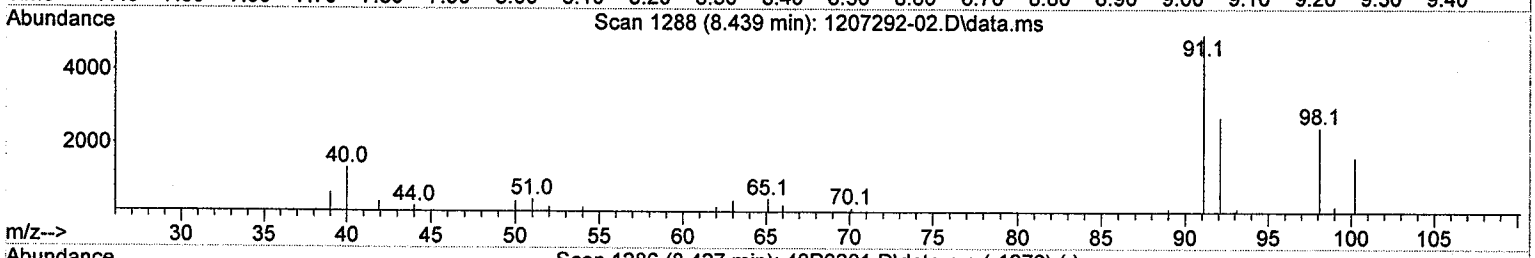
(#) = qualifier out of range (m) = manual integration (+) = signals summed

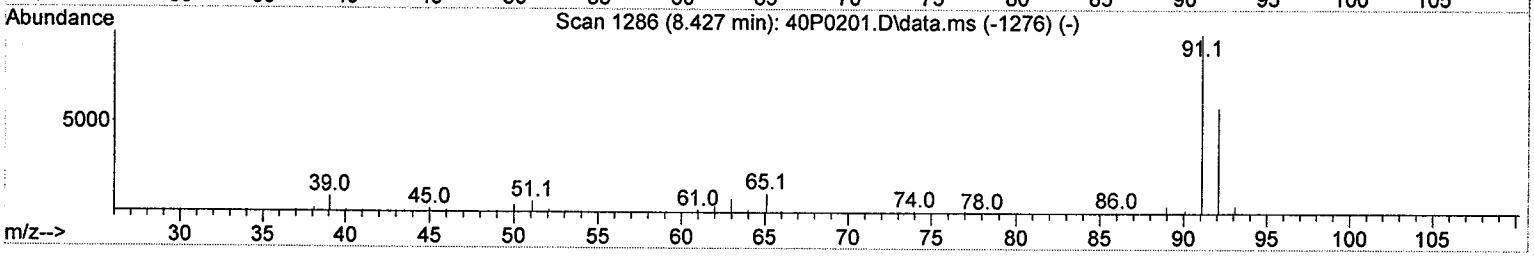
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207292-02.D
Acq On : 26 Jul 2012 13:37
Operator : LEW
Sample : 1207292-02
Misc : Tech Law
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 26 14:07:33 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: 1207292-02.D\data.ms

(48) toluene (C)

8.439min (+0.006) 0.41 ug/L

response 11445

Ion	Exp%	Act%
91.10	100	100
92.10	59.40	58.60
0.00	0.00	0.00
0.00	0.00	0.00

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106026

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207292-03 File ID: 1207292-03.D

Sampled: 07/19/12 16:00 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 14:05

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	8.5	1.1	5.0	
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	5.0	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106026

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM070512
Client: TechLaw
Project: KNM
Matrix: Water
Laboratory ID: 1207292-03
File ID: 1207292-03.D
Sampled: 07/19/12 16:00
Prepared: 07/26/12 08:00
Analyzed: 07/26/12 14:05
Solids:
Preparation: 5030B Aqueous Purge &
Initial/Final: 5 mL / 5 mL
QC Batch: 1209178
Sequence: 2G27052
Calibration: 2G27002
Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	0.45	0.18	1.0	J
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.2	98	85 - 118	
1,2-Dichloroethane-d4	40.0	40.3	101	87 - 122	
Toluene-d8	40.0	38.9	97	85 - 113	
4-Bromofluorobenzene	40.0	36.1	90	82 - 110	

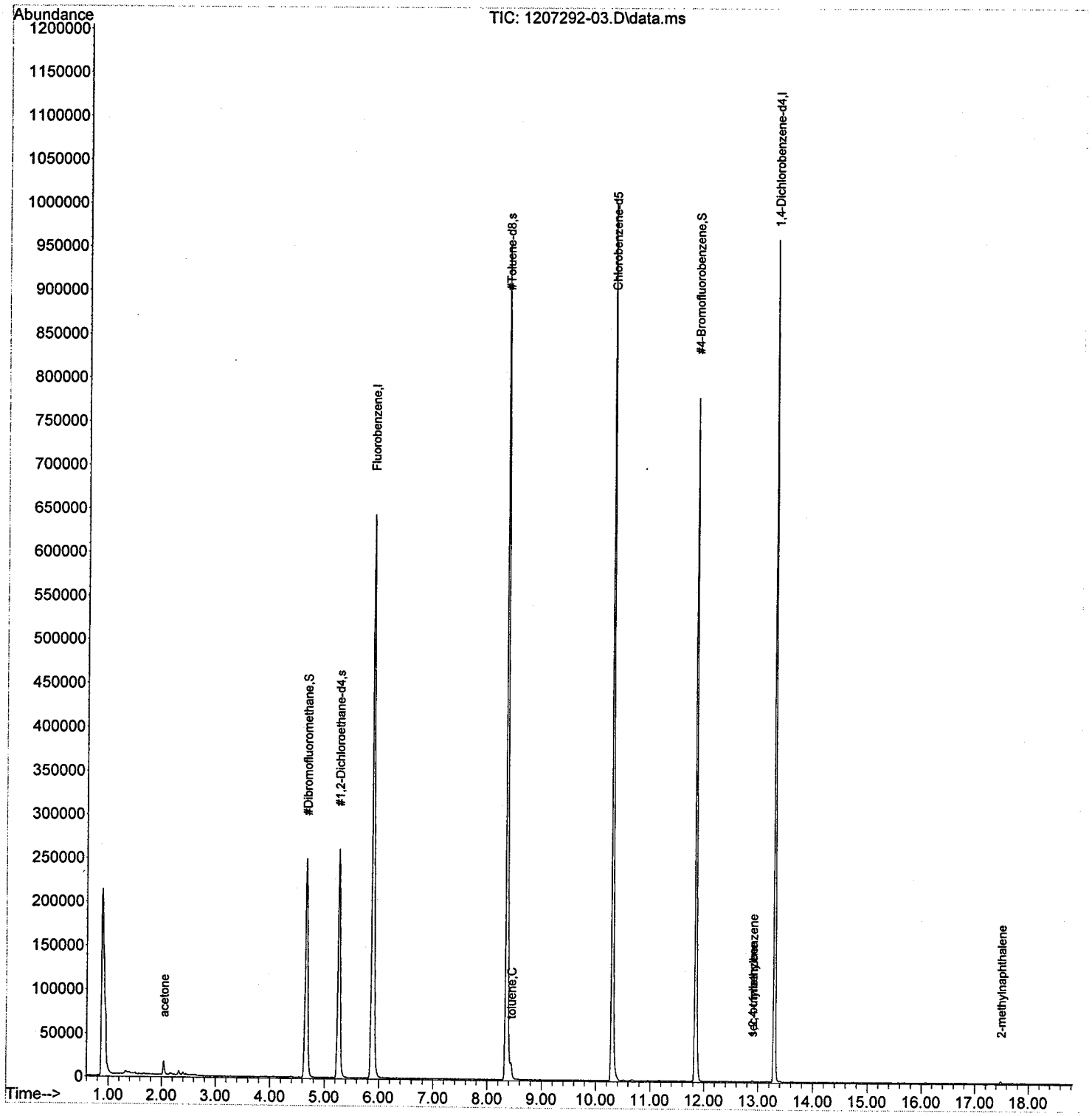
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	830491	5.878	97	5.872	
Chlorobenzene-d5	609980	10.298	91	10.286	
1,4-Dichlorobenzene-d4	267596	13.298	71	13.285	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207292-03.D
Acq On : 26 Jul 2012 14:05
Operator : LEW
Sample : 1207292-03
Misc : Tech Law
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 26 15:08:06 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



00920

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207292-03.D
Acq On : 26 Jul 2012 14:05
Operator : LEW
Sample : 1207292-03
Misc : Tech Law
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 26 15:08:06 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.878	96	830491	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.298	117	609980	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.298	152	267596	40.00 ug/L	# 0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	4.665	111	233015	39.21 ug/L	0.00
Spiked Amount 40.000			Recovery	= 98.03%	
37) #1,2-Dichloroethane-d4	5.263	67	146719	40.31 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.78%	
47) #Toluene-d8	8.347	98	797732	38.93 ug/L	0.00
Spiked Amount 40.000			Recovery	= 97.32%	
65) #4-Bromofluorobenzene	11.841	95	281813	36.09 ug/L	0.00
Spiked Amount 40.000			Recovery	= 90.23%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.000		0	N.D.	
3) chloromethane	0.000		0	N.D.	
4) vinyl chloride	0.000		0	N.D.	
5) bromomethane	0.000		0	N.D.	
6) chloroethane	0.000		0	N.D.	
7) dichlorofluoromethane	0.000		0	N.D.	
8) trichlorofluoromethane	0.000		0	N.D.	
9) ethyl ether	0.000		0	N.D.	
10) acrolein	0.000		0	N.D.	
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.	
12) 1,1-dichloroethene	0.000		0	N.D.	
13) acetone	2.038	43	20636	8.52 ug/L	91
14) iodomethane	0.000		0	N.D.	
15) carbon disulfide	0.000		0	N.D.	
16) methyl acetate	2.318	43	7795	Below Cal #	58
17) methylene chloride	2.404	49	1469	Below Cal #	14
18) acrylonitrile	0.000		0	N.D.	
19) trans-1,2-dichloroethene	0.000		0	N.D.	
20) methyl (tert) butyl ether	0.000		0	N.D.	
21) 1,1-dichloroethane	0.000		0	N.D.	
22) vinyl acetate	0.000		0	N.D.	
23) 2,2-dichloropropane	0.000		0	N.D.	
24) cis-1,2-dichloroethene	0.000		0	N.D.	
25) 2-butanone (MEK)	0.000		0	N.D.	
26) bromochloromethane	0.000		0	N.D.	
27) tetrahydrofuran	0.000		0	N.D.	
28) chloroform	0.000		0	N.D.	
30) 1,1,1-trichloroethane	0.000		0	N.D.	
31) cyclohexane	0.000		0	N.D.	
32) carbon tetrachloride	0.000		0	N.D.	
33) 1,1-dichloropropene	0.000		0	N.D.	
34) benzene	0.000		0	N.D.	
35) 1,2-dichloroethane	0.000		0	N.D.	
36) heptane	5.878	57	31428	No Calib	
38) trichloroethene	0.000		0	N.D.	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207292-03.D
Acq On : 26 Jul 2012 14:05
Operator : LEW
Sample : 1207292-03
Misc : Tech Law
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 26 15:08:06 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

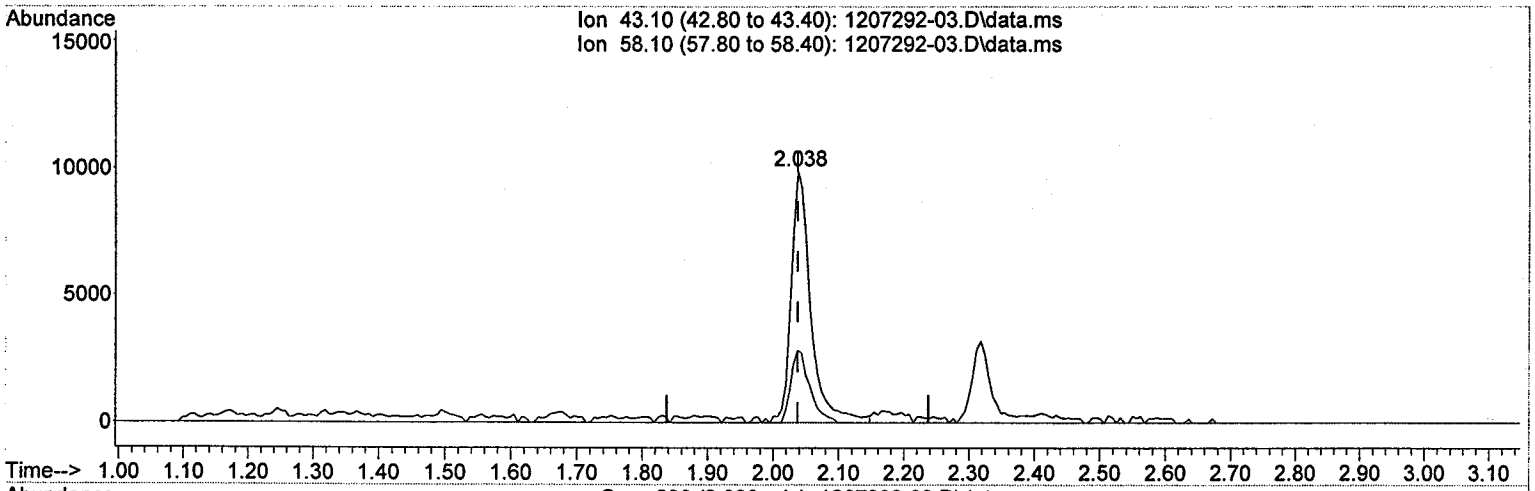
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39)	methylcyclohexane	0.000		0	N.D.	
40)	1,2-dichloropropane	0.000		0	N.D.	
41)	dibromomethane	0.000		0	N.D.	
42)	1,4-dioxane	0.000		0	N.D.	
43)	bromodichloromethane	0.000		0	N.D.	
44)	2-chloroethyl vinyl ether	0.000		0	N.D.	
45)	cis-1,3-dichloropropene	0.000		0	N.D.	
46)	4-methyl-2-pentanone (...	0.000		0	N.D.	
48)	toluene	8.439	91	12080	0.45 ug/L	100
49)	trans-1,3-dichloropropene	0.000		0	N.D.	
50)	1,1,2-trichloroethane	0.000		0	N.D.	
52)	tetrachloroethene	0.000		0	N.D.	
53)	1,3-dichloropropane	0.000		0	N.D.	
54)	2-hexanone (MBK)	0.000		0	N.D.	
55)	dibromochloromethane	0.000		0	N.D.	
56)	1,2-dibromoethane	0.000		0	N.D.	
57)	chlorobenzene	0.000		0	N.D.	
58)	1-chlorohexane	0.000		0	N.D.	
59)	1,1,1,2-tetrachloroethane	0.000		0	N.D.	
60)	ethylbenzene	0.000		0	N.D.	
61)	m+p-xylene	0.000		0	N.D.	
62)	o-xylene	0.000		0	N.D.	
63)	styrene	0.000		0	N.D.	
64)	bromoform	0.000		0	N.D.	
67)	isopropylbenzene	0.000		0	N.D.	
68)	bromobenzene	0.000		0	N.D.	
69)	1,1,2,2-tetrachloroethane	0.000		0	N.D.	
70)	1,2,3-trichloropropane	0.000		0	N.D.	
71)	1,4-dichloro-2-butene	0.000		0	N.D.	
72)	n-propylbenzene	0.000		0	N.D.	
73)	2-chlorotoluene	0.000		0	N.D.	
74)	1,3,5-trimethylbenzene	0.000		0	N.D.	
75)	4-chlorotoluene	0.000		0	N.D.	
76)	tert-butylbenzene	0.000		0	N.D.	
77)	1,2,4-trimethylbenzene	12.895	105	1420	0.09 ug/L #	32
78)	sec-butylbenzene	12.895	105	1420	2.59 ug/L #	54
79)	1,3-dichlorobenzene	0.000		0	N.D.	
80)	4-isopropyltoluene	0.000		0	N.D.	
81)	1,4-dichlorobenzene	0.000		0	N.D.	
82)	1,2-dichlorobenzene	0.000		0	N.D.	
83)	n-butylbenzene	0.000		0	N.D.	
84)	hexachloroethane	0.000		0	N.D.	
85)	1,2-dibromo-3-chloropr...	0.000		0	N.D.	
86)	1,2,4-trichlorobenzene	0.000		0	N.D.	
87)	hexachlorobutadiene	0.000		0	N.D.	
88)	naphthalene	0.000		0	N.D.	
89)	1,2,3-trichlorobenzene	0.000		0	N.D.	
90)	2-methylnaphthalene	17.492	142	2090	3.79 ug/L #	79

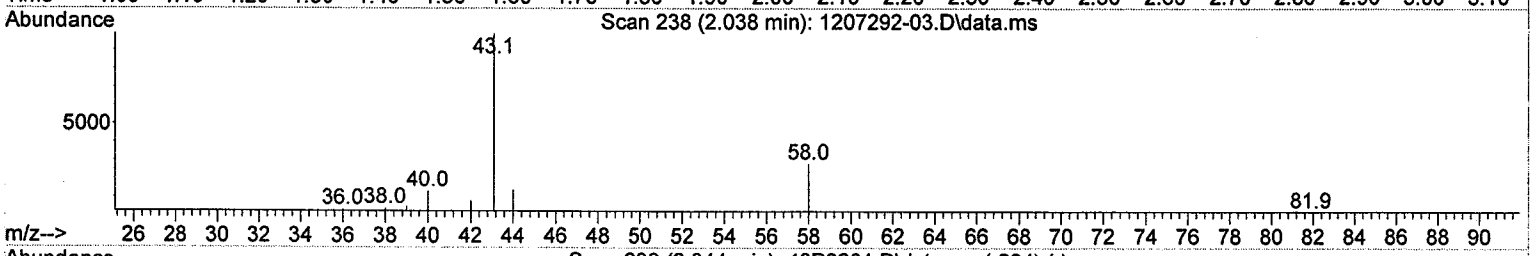
(#) = qualifier out of range (m) = manual integration (+) = signals summed

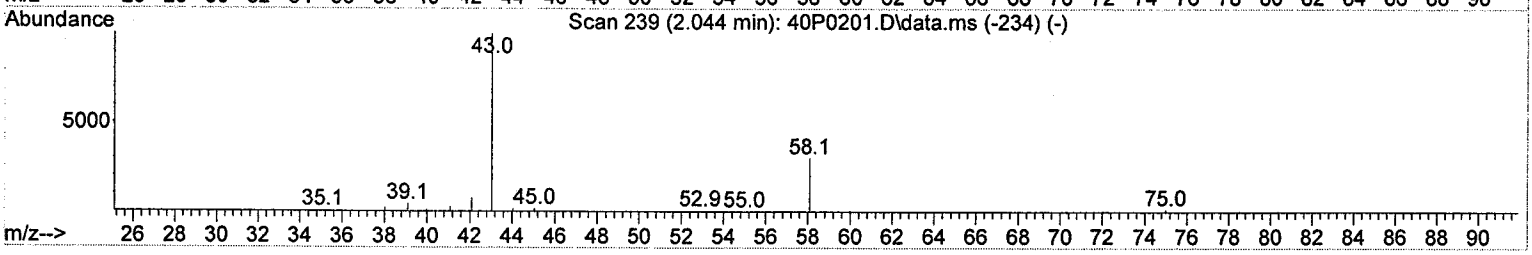
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207292-03.D
Acq On : 26 Jul 2012 14:05
Operator : LEW
Sample : 1207292-03
Misc : Tech Law
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 26 15:08:06 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: 1207292-03.D\data.ms

(13) acetone

2.038min (-0.000) 8.52 ug/L

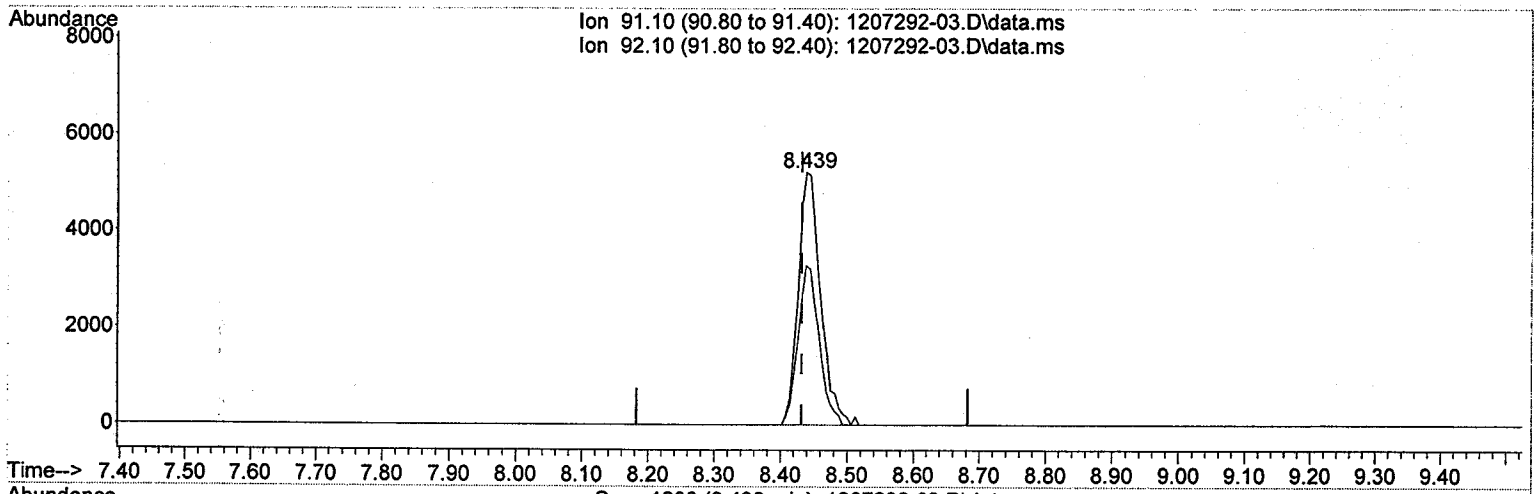
response 20636

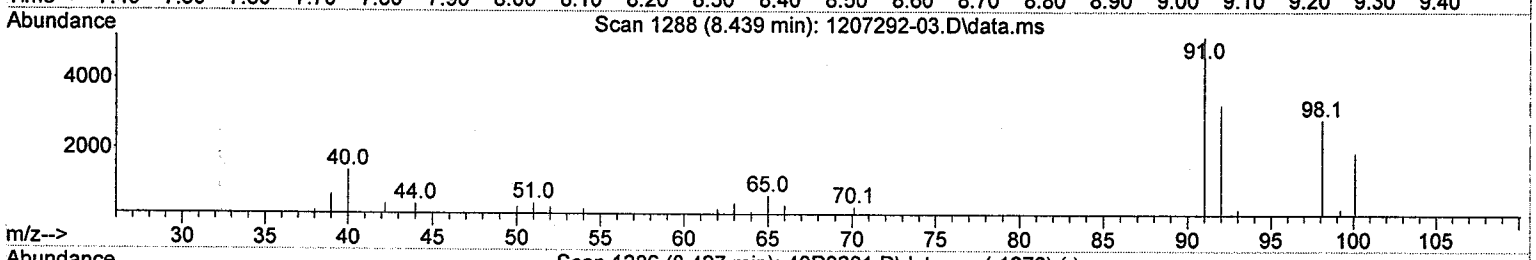
Ion	Exp%	Act%
43.10	100	100
58.10	23.00	27.49
0.00	0.00	0.00
0.00	0.00	0.00

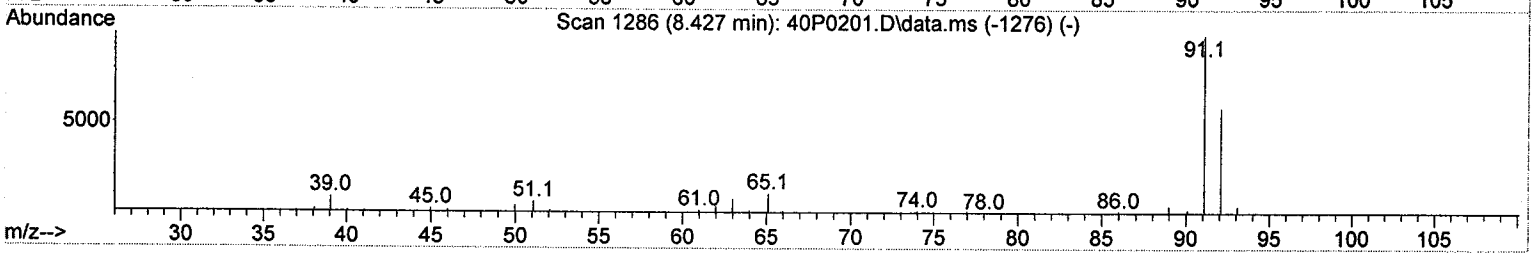
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207292-03.D
Acq On : 26 Jul 2012 14:05
Operator : LEW
Sample : 1207292-03
Misc : Tech Law
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 26 15:08:06 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: 1207292-03.D\data.ms

(48) toluene (C)

8.439min (+0.006) 0.45 ug/L

response 12080

Ion	Exp%	Act%
91.10	100	100
92.10	59.40	59.71
0.00	0.00	0.00
0.00	0.00	0.00

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106038

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207368-01 File ID: 1207368-01.D

Sampled: 07/24/12 12:38 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 15:00

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	7.3	1.1	5.0	
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	5.0	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106038

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207368-01 File ID: 1207368-01.D

Sampled: 07/24/12 12:38 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 15:00

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.6	99	85 - 118	
1,2-Dichloroethane-d4	40.0	40.3	101	87 - 122	
Toluene-d8	40.0	39.4	98	85 - 113	
4-Bromofluorobenzene	40.0	36.0	90	82 - 110	

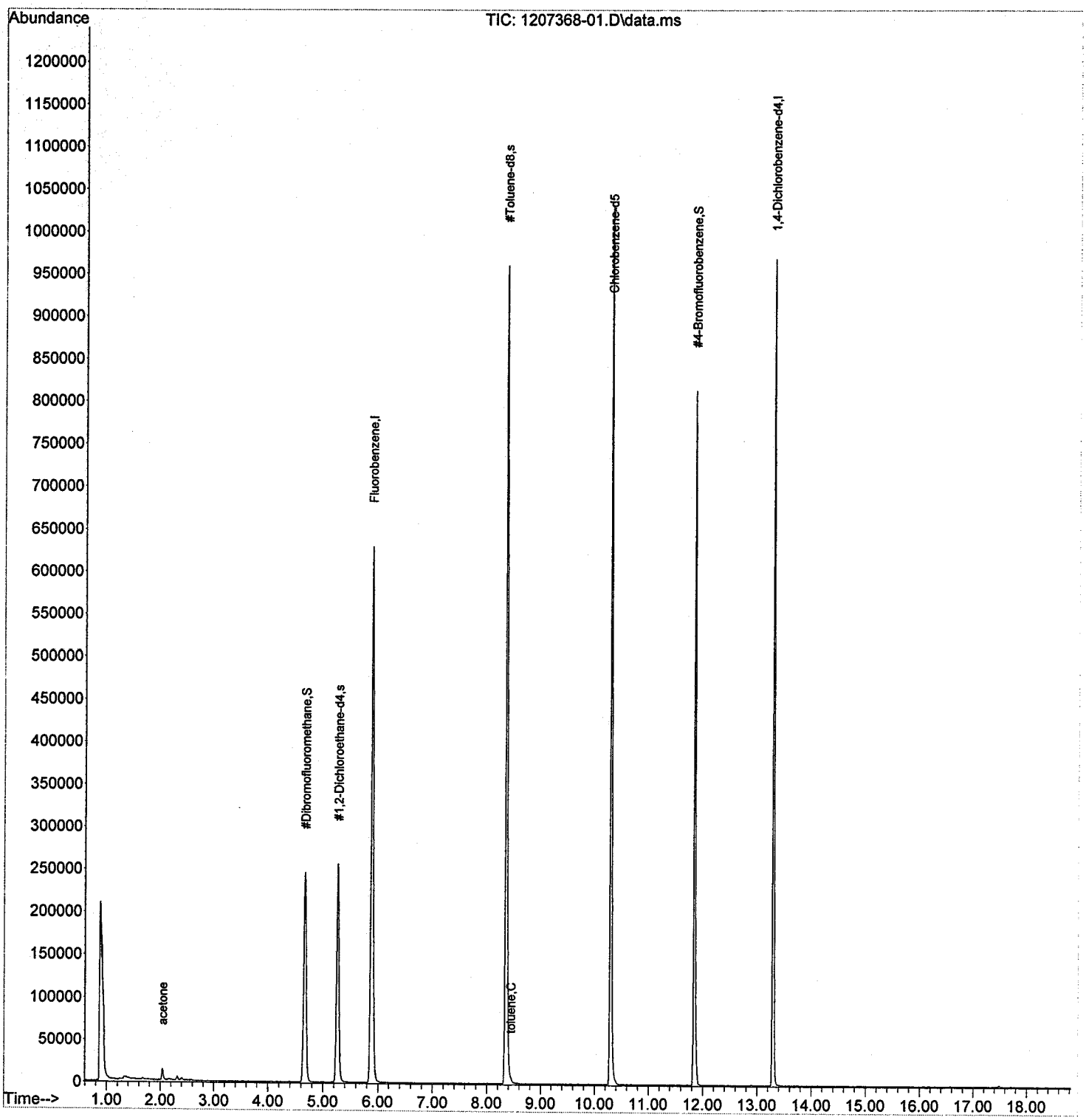
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	813029	5.879	95	5.872	
Chlorobenzene-d5	601193	10.298	89	10.286	
1,4-Dichlorobenzene-d4	270906	13.298	72	13.285	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207368-01.D
Acq On : 26 Jul 2012 15:00
Operator : LEW
Sample : 1207368-01
Misc : Tech Law
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 27 07:03:39 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



00927

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207368-01.D
Acq On : 26 Jul 2012 15:00
Operator : LEW
Sample : 1207368-01
Misc : Tech Law
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 27 07:03:39 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	5.879	96	813029	40.00	ug/L		0.00
51) Chlorobenzene-d5	10.298	117	601193	40.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4	13.298	152	270906	40.00	ug/L	#	0.00
System Monitoring Compounds							
29) #Dibromofluoromethane	4.665	111	230484	39.61	ug/L		0.00
Spiked Amount 40.000			Recovery = 99.02%				
37) #1,2-Dichloroethane-d4	5.269	67	143713	40.33	ug/L		0.01
Spiked Amount 40.000			Recovery = 100.82%				
47) #Toluene-d8	8.354	98	789379	39.35	ug/L		0.01
Spiked Amount 40.000			Recovery = 98.38%				
65) #4-Bromofluorobenzene	11.841	95	276670	35.95	ug/L		0.00
Spiked Amount 40.000			Recovery = 89.88%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	0.000		0	N.D.			
3) chloromethane	0.000		0	N.D.			
4) vinyl chloride	0.000		0	N.D.			
5) bromomethane	0.000		0	N.D.			
6) chloroethane	0.000		0	N.D.			
7) dichlorofluoromethane	0.000		0	N.D.			
8) trichlorofluoromethane	0.000		0	N.D.			
9) ethyl ether	0.000		0	N.D.			
10) acrolein	0.000		0	N.D.			
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.			
12) 1,1-dichloroethene	0.000		0	N.D.			
13) acetone	2.038	43	17973	7.26	ug/L		97
14) iodomethane	0.000		0	N.D.			
15) carbon disulfide	0.000		0	N.D.			
16) methyl acetate	2.318	43	6753	Below Cal		#	58
17) methylene chloride	2.398	49	1258	Below Cal		#	14
18) acrylonitrile	0.000		0	N.D.			
19) trans-1,2-dichloroethene	0.000		0	N.D.			
20) methyl (tert) butyl ether	0.000		0	N.D.			
21) 1,1-dichloroethane	0.000		0	N.D.			
22) vinyl acetate	0.000		0	N.D.			
23) 2,2-dichloropropane	0.000		0	N.D.			
24) cis-1,2-dichloroethene	0.000		0	N.D.			
25) 2-butanone (MEK)	0.000		0	N.D.			
26) bromochloromethane	0.000		0	N.D.			
27) tetrahydrofuran	0.000		0	N.D.			
28) chloroform	0.000		0	N.D.			
30) 1,1,1-trichloroethane	0.000		0	N.D.			
31) cyclohexane	0.000		0	N.D.			
32) carbon tetrachloride	0.000		0	N.D.			
33) 1,1-dichloropropene	0.000		0	N.D.			
34) benzene	0.000		0	N.D.			
35) 1,2-dichloroethane	0.000		0	N.D.			
36) heptane	5.879	57	30849	No Calib			
38) trichloroethene	0.000		0	N.D.			

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207368-01.D
Acq On : 26 Jul 2012 15:00
Operator : LEW
Sample : 1207368-01
Misc : Tech Law
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 27 07:03:39 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

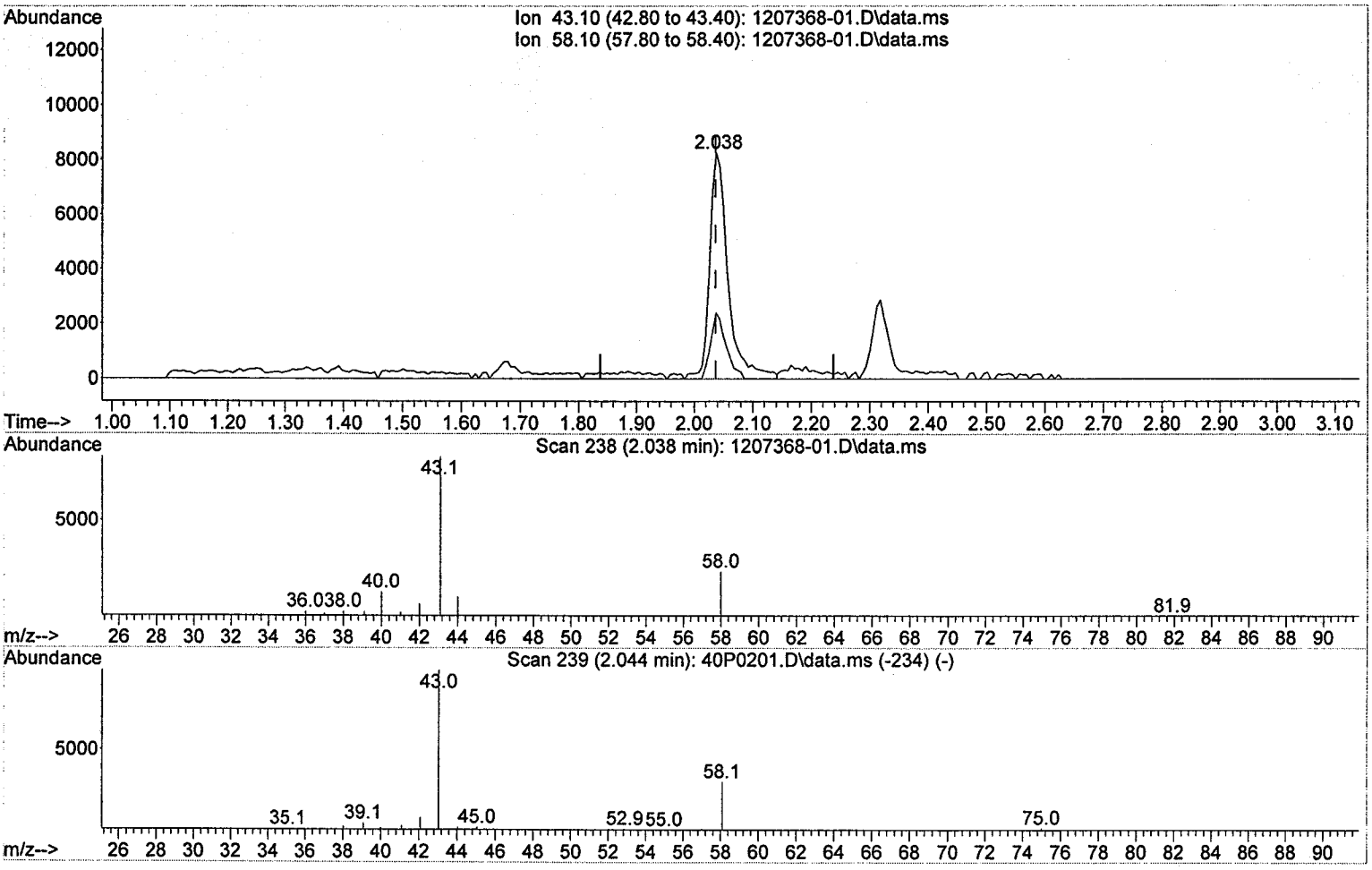
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	0.000		0	N.D.	
40) 1,2-dichloropropane	0.000		0	N.D.	
41) dibromomethane	0.000		0	N.D.	
42) 1,4-dioxane	0.000		0	N.D.	
43) bromodichloromethane	0.000		0	N.D.	
44) 2-chloroethyl vinyl ether	0.000		0	N.D.	
45) cis-1,3-dichloropropene	0.000		0	N.D.	
46) 4-methyl-2-pentanone (...	0.000		0	N.D.	
48) toluene	8.439	91	1328	0.05 ug/L #	21
49) trans-1,3-dichloropropene	0.000		0	N.D.	
50) 1,1,2-trichloroethane	0.000		0	N.D.	
52) tetrachloroethene	0.000		0	N.D.	
53) 1,3-dichloropropane	0.000		0	N.D.	
54) 2-hexanone (MBK)	0.000		0	N.D.	
55) dibromochloromethane	0.000		0	N.D.	
56) 1,2-dibromoethane	0.000		0	N.D.	
57) chlorobenzene	0.000		0	N.D.	
58) 1-chlorohexane	0.000		0	N.D.	
59) 1,1,1,2-tetrachloroethane	0.000		0	N.D.	
60) ethylbenzene	0.000		0	N.D.	
61) m+p-xylene	0.000		0	N.D.	
62) o-xylene	0.000		0	N.D.	
63) styrene	0.000		0	N.D.	
64) bromoform	0.000		0	N.D.	
67) isopropylbenzene	0.000		0	N.D.	
68) bromobenzene	0.000		0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	
70) 1,2,3-trichloropropane	0.000		0	N.D.	
71) 1,4-dichloro-2-butene	0.000		0	N.D.	
72) n-propylbenzene	0.000		0	N.D.	
73) 2-chlorotoluene	0.000		0	N.D.	
74) 1,3,5-trimethylbenzene	0.000		0	N.D.	
75) 4-chlorotoluene	0.000		0	N.D.	
76) tert-butylbenzene	0.000		0	N.D.	
77) 1,2,4-trimethylbenzene	0.000		0	N.D.	
78) sec-butylbenzene	0.000		0	N.D.	
79) 1,3-dichlorobenzene	0.000		0	N.D.	
80) 4-isopropyltoluene	0.000		0	N.D.	
81) 1,4-dichlorobenzene	0.000		0	N.D.	
82) 1,2-dichlorobenzene	0.000		0	N.D.	
83) n-butylbenzene	0.000		0	N.D.	
84) hexachloroethane	0.000		0	N.D.	
85) 1,2-dibromo-3-chloropr...	0.000		0	N.D.	
86) 1,2,4-trichlorobenzene	0.000		0	N.D.	
87) hexachlorobutadiene	0.000		0	N.D.	
88) naphthalene	0.000		0	N.D.	
89) 1,2,3-trichlorobenzene	0.000		0	N.D.	
90) 2-methylnaphthalene	0.000		0	N.D.	

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207368-01.D
Acq On : 26 Jul 2012 15:00
Operator : LEW
Sample : 1207368-01
Misc : Tech Law
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 27 07:03:39 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



TIC: 1207368-01.D\data.ms

(13) acetone

2.038min (-0.000) 7.26 ug/L

response 17973

Ion	Exp%	Act%
43.10	100	100
58.10	23.00	24.46
0.00	0.00	0.00
0.00	0.00	0.00

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106040

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207368-02 File ID: 1207368-02.D

Sampled: 07/24/12 10:22 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 15:28

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	28	1.1	5.0	
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	5.0	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106040

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207368-02 File ID: 1207368-02.D

Sampled: 07/24/12 10:22 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 15:28

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.1	98	85 - 118	
1,2-Dichloroethane-d4	40.0	40.5	101	87 - 122	
Toluene-d8	40.0	39.0	98	85 - 113	
4-Bromofluorobenzene	40.0	35.9	90	82 - 110	

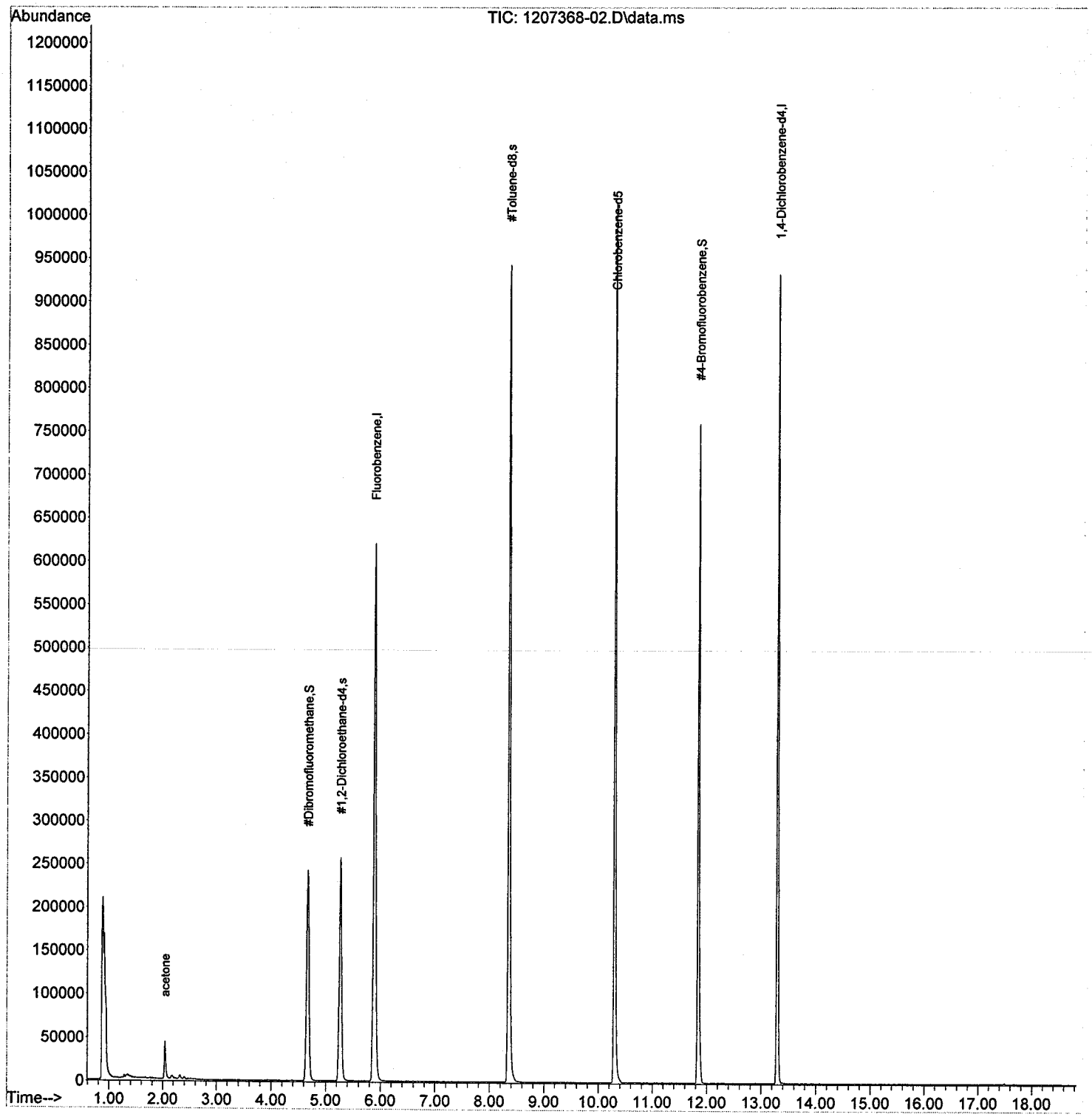
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	806080	5.884	94	5.872	
Chlorobenzene-d5	591343	10.298	88	10.286	
1,4-Dichlorobenzene-d4	259601	13.298	69	13.285	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207368-02.D
Acq On : 26 Jul 2012 15:28
Operator : LEW
Sample : 1207368-02
Misc : Tech Law
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 27 07:03:53 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207368-02.D
Acq On : 26 Jul 2012 15:28
Operator : LEW
Sample : 1207368-02
Misc : Tech Law
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 27 07:03:53 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.884	96	806080	40.00 ug/L	0.01
51) Chlorobenzene-d5	10.298	117	591343	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.298	152	259601	40.00 ug/L	# 0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	4.665	111	225564	39.10 ug/L	0.00
Spiked Amount 40.000			Recovery = 97.75%		
37) #1,2-Dichloroethane-d4	5.269	67	143191	40.53 ug/L	0.01
Spiked Amount 40.000			Recovery = 101.33%		
47) #Toluene-d8	8.354	98	776636	39.05 ug/L	0.01
Spiked Amount 40.000			Recovery = 97.63%		
65) #4-Bromofluorobenzene	11.841	95	271977	35.93 ug/L	0.00
Spiked Amount 40.000			Recovery = 89.83%		
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.000		0	N.D.	
3) chloromethane	0.000		0	N.D.	
4) vinyl chloride	0.000		0	N.D.	
5) bromomethane	0.000		0	N.D.	
6) chloroethane	0.000		0	N.D.	
7) dichlorofluoromethane	0.000		0	N.D.	
8) trichlorofluoromethane	0.000		0	N.D.	
9) ethyl ether	0.000		0	N.D.	
10) acrolein	0.000		0	N.D.	
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.	
12) 1,1-dichloroethene	0.000		0	N.D.	
13) acetone	2.038	43	55219	28.50 ug/L #	90
14) iodomethane	0.000		0	N.D.	
15) carbon disulfide	0.000		0	N.D.	
16) methyl acetate	2.318	43	6269	Below Cal #	58
17) methylene chloride	0.000		0	N.D.	
18) acrylonitrile	0.000		0	N.D.	
19) trans-1,2-dichloroethene	0.000		0	N.D.	
20) methyl (tert) butyl ether	0.000		0	N.D.	
21) 1,1-dichloroethane	0.000		0	N.D.	
22) vinyl acetate	0.000		0	N.D.	
23) 2,2-dichloropropane	0.000		0	N.D.	
24) cis-1,2-dichloroethene	0.000		0	N.D.	
25) 2-butanone (MEK)	0.000		0	N.D.	
26) bromochloromethane	0.000		0	N.D.	
27) tetrahydrofuran	0.000		0	N.D.	
28) chloroform	0.000		0	N.D.	
30) 1,1,1-trichloroethane	0.000		0	N.D.	
31) cyclohexane	0.000		0	N.D.	
32) carbon tetrachloride	0.000		0	N.D.	
33) 1,1-dichloropropene	0.000		0	N.D.	
34) benzene	0.000		0	N.D.	
35) 1,2-dichloroethane	0.000		0	N.D.	
36) heptane	5.878	57	30128	No Calib	
38) trichloroethene	0.000		0	N.D.	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207368-02.D
Acq On : 26 Jul 2012 15:28
Operator : LEW
Sample : 1207368-02
Misc : Tech Law
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 27 07:03:53 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

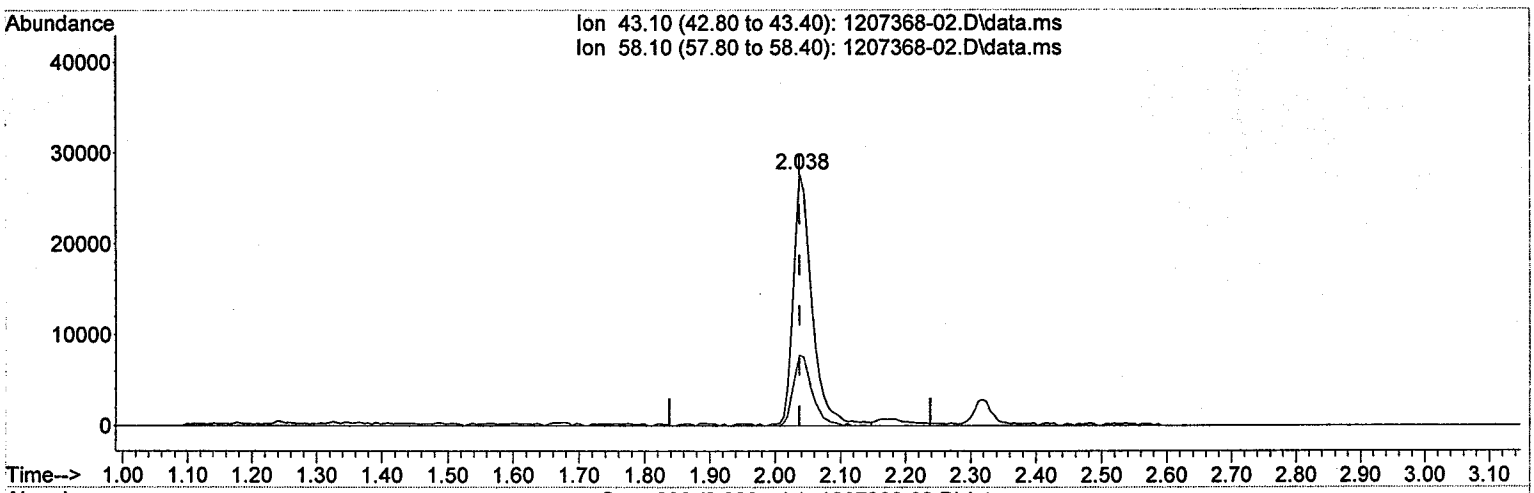
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	0.000		0	N.D.	
40) 1,2-dichloropropane	0.000		0	N.D.	
41) dibromomethane	0.000		0	N.D.	
42) 1,4-dioxane	0.000		0	N.D.	
43) bromodichloromethane	0.000		0	N.D.	
44) 2-chloroethyl vinyl ether	0.000		0	N.D.	
45) cis-1,3-dichloropropene	0.000		0	N.D.	
46) 4-methyl-2-pentanone (...	0.000		0	N.D.	
48) toluene	0.000		0	N.D.	
49) trans-1,3-dichloropropene	0.000		0	N.D.	
50) 1,1,2-trichloroethane	0.000		0	N.D.	
52) tetrachloroethene	0.000		0	N.D.	
53) 1,3-dichloropropane	0.000		0	N.D.	
54) 2-hexanone (MBK)	0.000		0	N.D.	
55) dibromochloromethane	0.000		0	N.D.	
56) 1,2-dibromoethane	0.000		0	N.D.	
57) chlorobenzene	0.000		0	N.D.	
58) 1-chlorohexane	0.000		0	N.D.	
59) 1,1,1,2-tetrachloroethane	0.000		0	N.D.	
60) ethylbenzene	0.000		0	N.D.	
61) m+p-xylene	0.000		0	N.D.	
62) o-xylene	0.000		0	N.D.	
63) styrene	0.000		0	N.D.	
64) bromoform	0.000		0	N.D.	
67) isopropylbenzene	0.000		0	N.D.	
68) bromobenzene	0.000		0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	
70) 1,2,3-trichloropropane	0.000		0	N.D.	
71) 1,4-dichloro-2-butene	0.000		0	N.D.	
72) n-propylbenzene	0.000		0	N.D.	
73) 2-chlorotoluene	0.000		0	N.D.	
74) 1,3,5-trimethylbenzene	0.000		0	N.D.	
75) 4-chlorotoluene	0.000		0	N.D.	
76) tert-butylbenzene	0.000		0	N.D.	
77) 1,2,4-trimethylbenzene	0.000		0	N.D.	
78) sec-butylbenzene	0.000		0	N.D.	
79) 1,3-dichlorobenzene	0.000		0	N.D.	
80) 4-isopropyltoluene	0.000		0	N.D.	
81) 1,4-dichlorobenzene	0.000		0	N.D.	
82) 1,2-dichlorobenzene	0.000		0	N.D.	
83) n-butylbenzene	0.000		0	N.D.	
84) hexachloroethane	0.000		0	N.D.	
85) 1,2-dibromo-3-chloropr...	0.000		0	N.D.	
86) 1,2,4-trichlorobenzene	0.000		0	N.D.	
87) hexachlorobutadiene	0.000		0	N.D.	
88) naphthalene	0.000		0	N.D.	
89) 1,2,3-trichlorobenzene	0.000		0	N.D.	
90) 2-methylnaphthalene	0.000		0	N.D.	

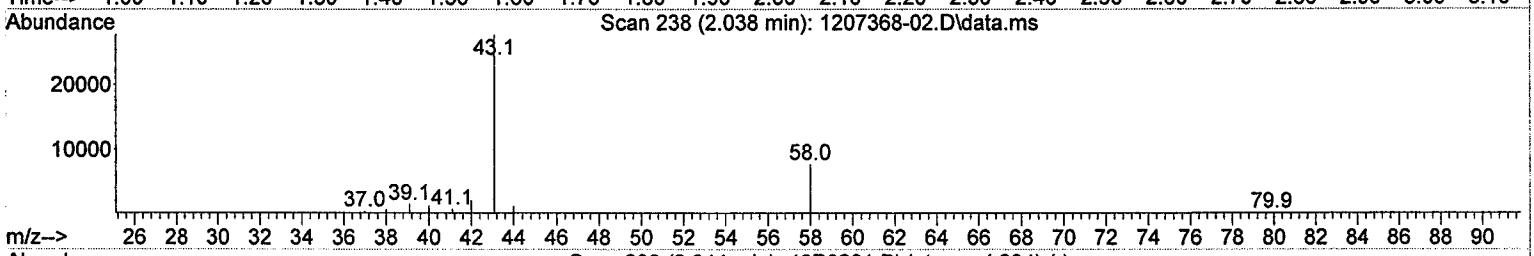
(#) = qualifier out of range (m) = manual integration (+) = signals summed

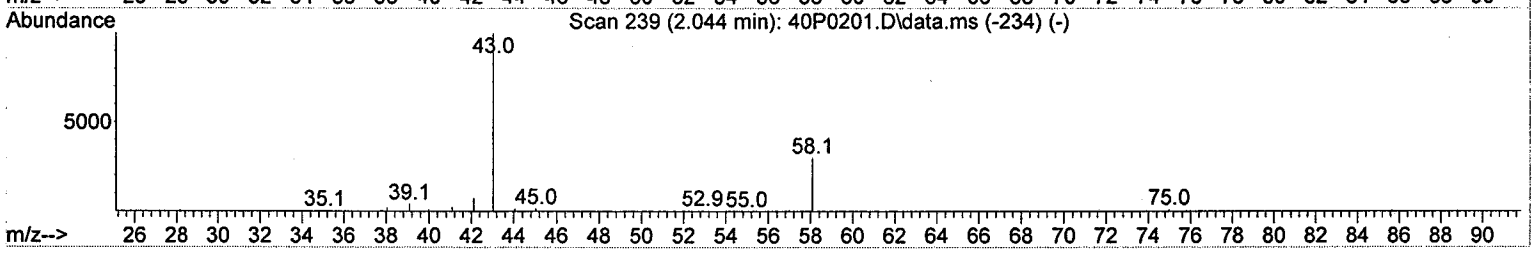
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207368-02.D
Acq On : 26 Jul 2012 15:28
Operator : LEW
Sample : 1207368-02
Misc : Tech Law
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 27 07:03:53 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: 1207368-02.D\data.ms

(13) acetone

2.038min (-0.000) 28.50 ug/L

response 55219

Ion	Exp%	Act%
43.10	100	100
58.10	23.00	27.89#
0.00	0.00	0.00
0.00	0.00	0.00

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106104

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207370-01 File ID: 1207370-01.D

Sampled: 07/21/12 10:35 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 15:56

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	5.0	1.1	5.0	U
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	5.0	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106104

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM070512
Client: TechLaw
Project: KNM
Matrix: Water
Laboratory ID: 1207370-01
File ID: 1207370-01.D
Sampled: 07/21/12 10:35
Prepared: 07/26/12 08:00
Analyzed: 07/26/12 15:56
Solids:
Preparation: 5030B Aqueous Purge &
Initial/Final: 5 mL / 5 mL
QC Batch: 1209178
Sequence: 2G27052
Calibration: 2G27002
Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.3	98	85 - 118	
1,2-Dichloroethane-d4	40.0	40.0	100	87 - 122	
Toluene-d8	40.0	38.9	97	85 - 113	
4-Bromofluorobenzene	40.0	35.2	88	82 - 110	

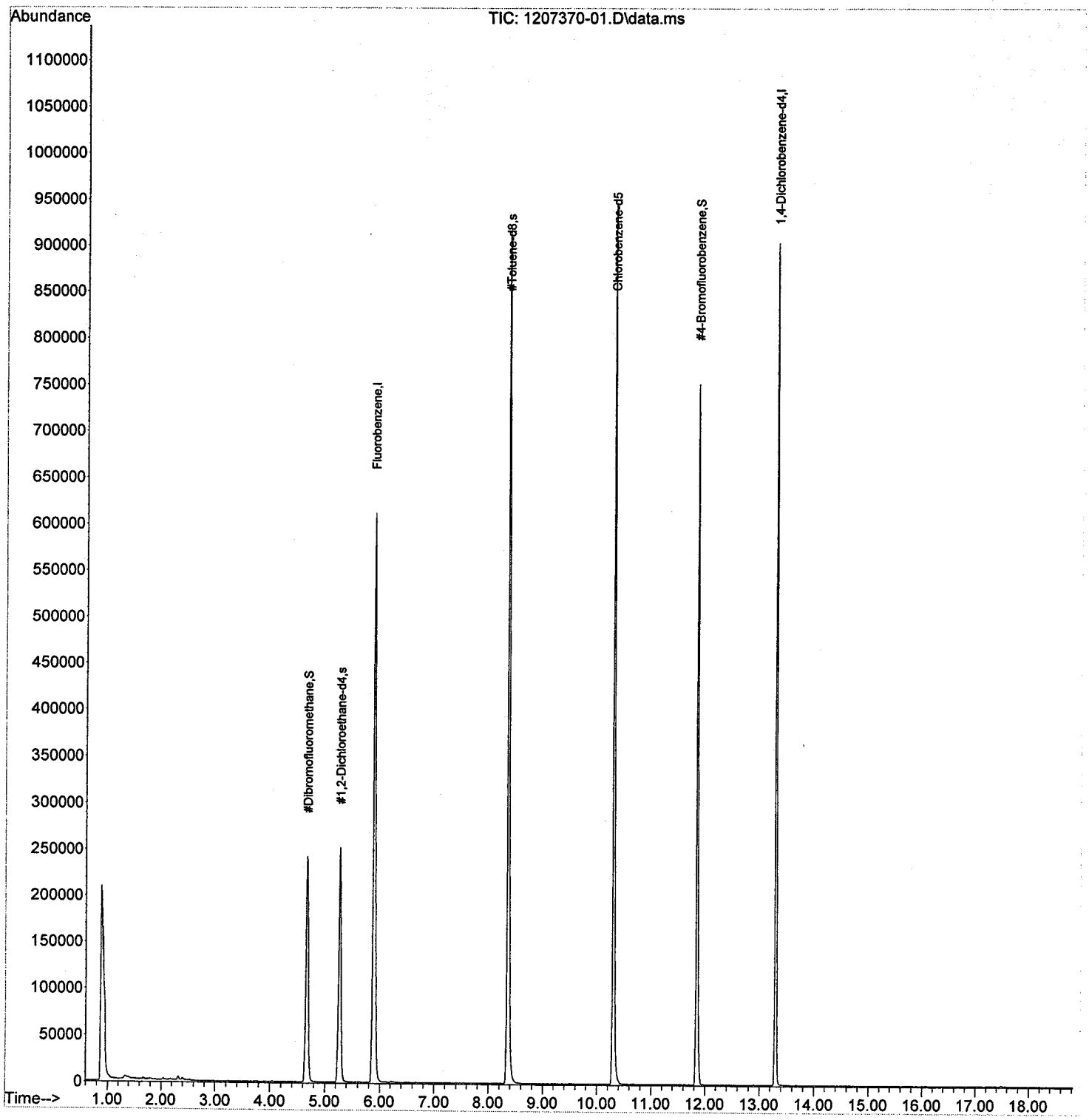
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	794410	5.885	93	5.872	
Chlorobenzene-d5	582595	10.298	86	10.286	
1,4-Dichlorobenzene-d4	250954	13.298	67	13.285	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207370-01.D
Acq On : 26 Jul 2012 15:56
Operator : LEW
Sample : 1207370-01
Misc : Tech Law
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 27 07:04:14 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207370-01.D
Acq On : 26 Jul 2012 15:56
Operator : LEW
Sample : 1207370-01
Misc : Tech Law
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 27 07:04:14 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.885	96	794410	40.00 ug/L	0.01
51) Chlorobenzene-d5	10.298	117	582595	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.298	152	250954	40.00 ug/L	# 0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	4.665	111	223530	39.32 ug/L	0.00
Spiked Amount 40.000			Recovery = 98.30%		
37) #1,2-Dichloroethane-d4	5.269	67	139347	40.02 ug/L	0.01
Spiked Amount 40.000			Recovery = 100.05%		
47) #Toluene-d8	8.354	98	763132	38.93 ug/L	0.01
Spiked Amount 40.000			Recovery = 97.32%		
65) #4-Bromofluorobenzene	11.841	95	262729	35.23 ug/L	0.00
Spiked Amount 40.000			Recovery = 88.07%		
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.000		0	N.D.	
3) chloromethane	0.000		0	N.D.	
4) vinyl chloride	0.000		0	N.D.	
5) bromomethane	0.000		0	N.D.	
6) chloroethane	0.000		0	N.D.	
7) dichlorofluoromethane	0.000		0	N.D.	
8) trichlorofluoromethane	0.000		0	N.D.	
9) ethyl ether	0.000		0	N.D.	
10) acrolein	0.000		0	N.D.	
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.	
12) 1,1-dichloroethene	0.000		0	N.D.	
13) acetone	2.044	43	4254	Below Cal #	53
14) iodomethane	0.000		0	N.D.	
15) carbon disulfide	0.000		0	N.D.	
16) methyl acetate	2.318	43	6445	Below Cal #	58
17) methylene chloride	2.397	49	1374	Below Cal #	14
18) acrylonitrile	0.000		0	N.D.	
19) trans-1,2-dichloroethene	0.000		0	N.D.	
20) methyl (tert) butyl ether	0.000		0	N.D.	
21) 1,1-dichloroethane	0.000		0	N.D.	
22) vinyl acetate	0.000		0	N.D.	
23) 2,2-dichloropropane	0.000		0	N.D.	
24) cis-1,2-dichloroethene	0.000		0	N.D.	
25) 2-butanone (MEK)	0.000		0	N.D.	
26) bromochloromethane	0.000		0	N.D.	
27) tetrahydrofuran	0.000		0	N.D.	
28) chloroform	0.000		0	N.D.	
30) 1,1,1-trichloroethane	0.000		0	N.D.	
31) cyclohexane	0.000		0	N.D.	
32) carbon tetrachloride	0.000		0	N.D.	
33) 1,1-dichloropropene	0.000		0	N.D.	
34) benzene	0.000		0	N.D.	
35) 1,2-dichloroethane	0.000		0	N.D.	
36) heptane	5.885	57	29816	No Calib	
38) trichloroethene	0.000		0	N.D.	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207370-01.D
Acq On : 26 Jul 2012 15:56
Operator : LEW
Sample : 1207370-01
Misc : Tech Law
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 27 07:04:14 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	0.000		0	N.D.	
40) 1,2-dichloropropane	0.000		0	N.D.	
41) dibromomethane	0.000		0	N.D.	
42) 1,4-dioxane	0.000		0	N.D.	
43) bromodichloromethane	0.000		0	N.D.	
44) 2-chloroethyl vinyl ether	0.000		0	N.D.	
45) cis-1,3-dichloropropene	0.000		0	N.D.	
46) 4-methyl-2-pentanone (...	0.000		0	N.D.	
48) toluene	0.000		0	N.D.	
49) trans-1,3-dichloropropene	0.000		0	N.D.	
50) 1,1,2-trichloroethane	0.000		0	N.D.	
52) tetrachloroethene	0.000		0	N.D.	
53) 1,3-dichloropropane	0.000		0	N.D.	
54) 2-hexanone (MBK)	0.000		0	N.D.	
55) dibromochloromethane	0.000		0	N.D.	
56) 1,2-dibromoethane	0.000		0	N.D.	
57) chlorobenzene	0.000		0	N.D.	
58) 1-chlorohexane	0.000		0	N.D.	
59) 1,1,1,2-tetrachloroethane	0.000		0	N.D.	
60) ethylbenzene	0.000		0	N.D.	
61) m+p-xylene	0.000		0	N.D.	
62) o-xylene	0.000		0	N.D.	
63) styrene	0.000		0	N.D.	
64) bromoform	0.000		0	N.D.	
67) isopropylbenzene	0.000		0	N.D.	
68) bromobenzene	0.000		0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	
70) 1,2,3-trichloropropane	0.000		0	N.D.	
71) 1,4-dichloro-2-butene	0.000		0	N.D.	
72) n-propylbenzene	0.000		0	N.D.	
73) 2-chlorotoluene	0.000		0	N.D.	
74) 1,3,5-trimethylbenzene	0.000		0	N.D.	
75) 4-chlorotoluene	0.000		0	N.D.	
76) tert-butylbenzene	0.000		0	N.D.	
77) 1,2,4-trimethylbenzene	0.000		0	N.D.	
78) sec-butylbenzene	0.000		0	N.D.	
79) 1,3-dichlorobenzene	0.000		0	N.D.	
80) 4-isopropyltoluene	0.000		0	N.D.	
81) 1,4-dichlorobenzene	0.000		0	N.D.	
82) 1,2-dichlorobenzene	0.000		0	N.D.	
83) n-butylbenzene	0.000		0	N.D.	
84) hexachloroethane	0.000		0	N.D.	
85) 1,2-dibromo-3-chloropr...	0.000		0	N.D.	
86) 1,2,4-trichlorobenzene	0.000		0	N.D.	
87) hexachlorobutadiene	0.000		0	N.D.	
88) naphthalene	0.000		0	N.D.	
89) 1,2,3-trichlorobenzene	0.000		0	N.D.	
90) 2-methylnaphthalene	0.000		0	N.D.	

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

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

10623

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207370-02 File ID: 1207370-02.D

Sampled: 07/24/12 14:20 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 16:24

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	5.0	1.1	5.0	U
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	5.0	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

10623

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207370-02 File ID: 1207370-02.D

Sampled: 07/24/12 14:20 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 16:24

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.4	99	85 - 118	
1,2-Dichloroethane-d4	40.0	40.6	101	87 - 122	
Toluene-d8	40.0	39.2	98	85 - 113	
4-Bromofluorobenzene	40.0	35.9	90	82 - 110	

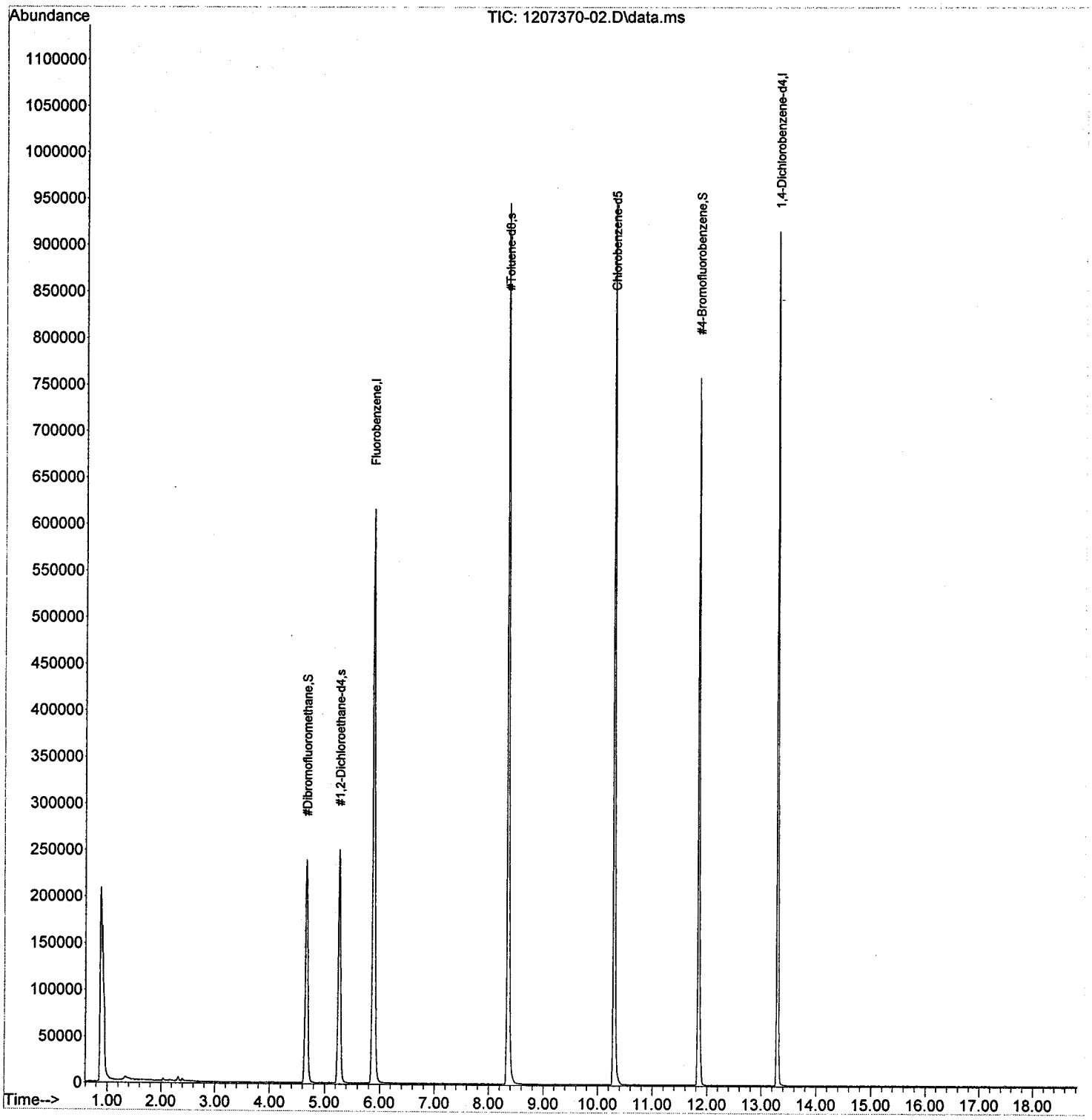
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	789729	5.885	92	5.872	
Chlorobenzene-d5	579918	10.298	86	10.286	
1,4-Dichlorobenzene-d4	256909	13.298	68	13.285	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207370-02.D
Acq On : 26 Jul 2012 16:24
Operator : LEW
Sample : 1207370-02
Misc : Tech Law
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 27 07:04:26 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207370-02.D
Acq On : 26 Jul 2012 16:24
Operator : LEW
Sample : 1207370-02
Misc : Tech Law
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 27 07:04:26 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.885	96	789729	40.00 ug/L	0.01
51) Chlorobenzene-d5	10.298	117	579918	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.298	152	256909	40.00 ug/L	# 0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	4.665	111	222849	39.43 ug/L	0.00
Spiked Amount 40.000			Recovery = 98.58%		
37) #1,2-Dichloroethane-d4	5.269	67	140339	40.55 ug/L	0.01
Spiked Amount 40.000			Recovery = 101.38%		
47) #Toluene-d8	8.354	98	763983	39.21 ug/L	0.01
Spiked Amount 40.000			Recovery = 98.03%		
65) #4-Bromofluorobenzene	11.841	95	266371	35.89 ug/L	0.00
Spiked Amount 40.000			Recovery = 89.72%		
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.000		0	N.D.	
3) chloromethane	0.000		0	N.D.	
4) vinyl chloride	0.000		0	N.D.	
5) bromomethane	0.000		0	N.D.	
6) chloroethane	0.000		0	N.D.	
7) dichlorofluoromethane	0.000		0	N.D.	
8) trichlorofluoromethane	0.000		0	N.D.	
9) ethyl ether	0.000		0	N.D.	
10) acrolein	0.000		0	N.D.	
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.	
12) 1,1-dichloroethene	0.000		0	N.D.	
13) acetone	2.038	43	3719	Below Cal #	53
14) iodomethane	0.000		0	N.D.	
15) carbon disulfide	0.000		0	N.D.	
16) methyl acetate	2.318	43	6300	Below Cal #	58
17) methylene chloride	2.404	49	1286	Below Cal #	14
18) acrylonitrile	0.000		0	N.D.	
19) trans-1,2-dichloroethene	0.000		0	N.D.	
20) methyl (tert) butyl ether	0.000		0	N.D.	
21) 1,1-dichloroethane	0.000		0	N.D.	
22) vinyl acetate	0.000		0	N.D.	
23) 2,2-dichloropropane	0.000		0	N.D.	
24) cis-1,2-dichloroethene	0.000		0	N.D.	
25) 2-butanone (MEK)	0.000		0	N.D.	
26) bromochloromethane	0.000		0	N.D.	
27) tetrahydrofuran	0.000		0	N.D.	
28) chloroform	0.000		0	N.D.	
30) 1,1,1-trichloroethane	0.000		0	N.D.	
31) cyclohexane	0.000		0	N.D.	
32) carbon tetrachloride	0.000		0	N.D.	
33) 1,1-dichloropropene	0.000		0	N.D.	
34) benzene	0.000		0	N.D.	
35) 1,2-dichloroethane	0.000		0	N.D.	
36) heptane	5.885	57	29564	No Calib	
38) trichloroethene	0.000		0	N.D.	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207370-02.D
Acq On : 26 Jul 2012 16:24
Operator : LEW
Sample : 1207370-02
Misc : Tech Law
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 27 07:04:26 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	0.000		0	N.D.	
40) 1,2-dichloropropane	0.000		0	N.D.	
41) dibromomethane	0.000		0	N.D.	
42) 1,4-dioxane	0.000		0	N.D.	
43) bromodichloromethane	0.000		0	N.D.	
44) 2-chloroethyl vinyl ether	0.000		0	N.D.	
45) cis-1,3-dichloropropene	0.000		0	N.D.	
46) 4-methyl-2-pentanone (...	0.000		0	N.D.	
48) toluene	0.000		0	N.D.	
49) trans-1,3-dichloropropene	0.000		0	N.D.	
50) 1,1,2-trichloroethane	0.000		0	N.D.	
52) tetrachloroethene	0.000		0	N.D.	
53) 1,3-dichloropropane	0.000		0	N.D.	
54) 2-hexanone (MBK)	0.000		0	N.D.	
55) dibromochloromethane	0.000		0	N.D.	
56) 1,2-dibromoethane	0.000		0	N.D.	
57) chlorobenzene	0.000		0	N.D.	
58) 1-chlorohexane	0.000		0	N.D.	
59) 1,1,1,2-tetrachloroethane	0.000		0	N.D.	
60) ethylbenzene	0.000		0	N.D.	
61) m+p-xylene	0.000		0	N.D.	
62) o-xylene	0.000		0	N.D.	
63) styrene	0.000		0	N.D.	
64) bromoform	0.000		0	N.D.	
67) isopropylbenzene	0.000		0	N.D.	
68) bromobenzene	0.000		0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	
70) 1,2,3-trichloropropane	0.000		0	N.D.	
71) 1,4-dichloro-2-butene	0.000		0	N.D.	
72) n-propylbenzene	0.000		0	N.D.	
73) 2-chlorotoluene	0.000		0	N.D.	
74) 1,3,5-trimethylbenzene	0.000		0	N.D.	
75) 4-chlorotoluene	0.000		0	N.D.	
76) tert-butylbenzene	0.000		0	N.D.	
77) 1,2,4-trimethylbenzene	0.000		0	N.D.	
78) sec-butylbenzene	0.000		0	N.D.	
79) 1,3-dichlorobenzene	0.000		0	N.D.	
80) 4-isopropyltoluene	0.000		0	N.D.	
81) 1,4-dichlorobenzene	0.000		0	N.D.	
82) 1,2-dichlorobenzene	0.000		0	N.D.	
83) n-butylbenzene	0.000		0	N.D.	
84) hexachloroethane	0.000		0	N.D.	
85) 1,2-dibromo-3-chloropr...	0.000		0	N.D.	
86) 1,2,4-trichlorobenzene	0.000		0	N.D.	
87) hexachlorobutadiene	0.000		0	N.D.	
88) naphthalene	0.000		0	N.D.	
89) 1,2,3-trichlorobenzene	0.000		0	N.D.	
90) 2-methylnaphthalene	0.000		0	N.D.	

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

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106063

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207404-01 File ID: 1207404-01.D

Sampled: 07/25/12 10:05 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 16:52

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	10	1.1	5.0	
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	
75-34-3	1,1-Dichloroethane	1	0.45	0.18	1.0	J
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	5.0	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106063

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207404-01 File ID: 1207404-01.D

Sampled: 07/25/12 10:05 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 16:52

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	0.43	0.23	1.0	J
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	0.50	0.21	1.0	J
75-69-4	Trichlorofluoromethane	1	0.40	0.27	1.0	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.5	99	85 - 118	
1,2-Dichloroethane-d4	40.0	40.5	101	87 - 122	
Toluene-d8	40.0	39.2	98	85 - 113	
4-Bromofluorobenzene	40.0	35.3	88	82 - 110	

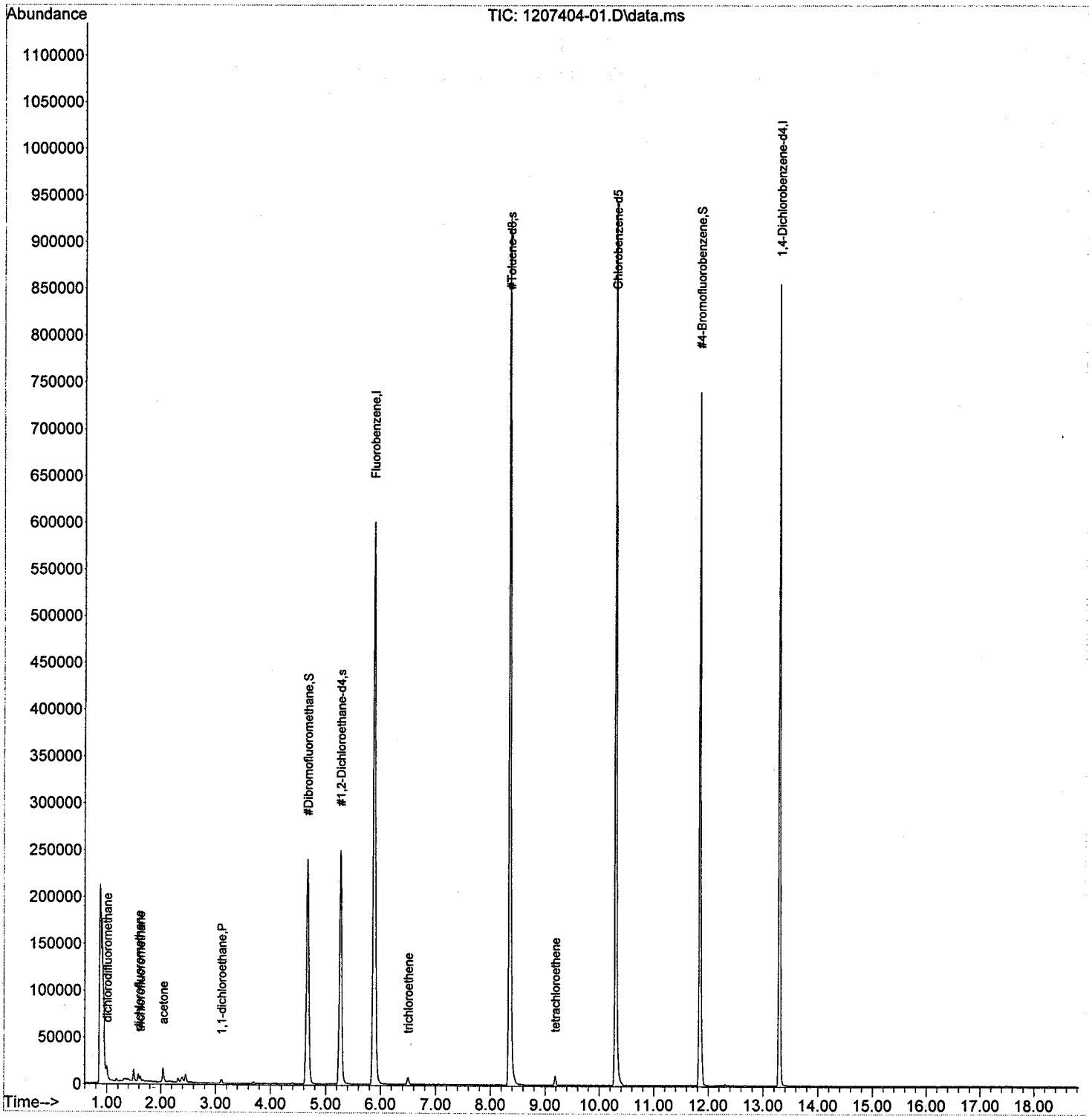
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	779905	5.885	91	5.872	
Chlorobenzene-d5	577402	10.298	86	10.286	
1,4-Dichlorobenzene-d4	244055	13.298	65	13.285	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207404-01.D
Acq On : 26 Jul 2012 16:52
Operator : LEW
Sample : 1207404-01
Misc : Tech Law
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 30 11:01:03 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



00949

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207404-01.D
Acq On : 26 Jul 2012 16:52
Operator : LEW
Sample : 1207404-01
Misc : Tech Law
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 30 11:01:03 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.885	96	779905	40.00 ug/L	0.01
51) Chlorobenzene-d5	10.298	117	577402	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.298	152	244055	40.00 ug/L	# 0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	4.665	111	220250	39.46 ug/L	0.00
Spiked Amount 40.000			Recovery	= 98.65%	
37) #1,2-Dichloroethane-d4	5.269	67	138370	40.48 ug/L	0.01
Spiked Amount 40.000			Recovery	= 101.20%	
47) #Toluene-d8	8.354	98	754689	39.22 ug/L	0.01
Spiked Amount 40.000			Recovery	= 98.05%	
65) #4-Bromofluorobenzene	11.841	95	261213	35.34 ug/L	0.00
Spiked Amount 40.000			Recovery	= 88.35%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.001	85	7813	1.00 ug/L	97
3) chloromethane	0.000		0	N.D.	
4) vinyl chloride	0.000		0	N.D.	
5) bromomethane	0.000		0	N.D.	
6) chloroethane	0.000		0	N.D.	
7) dichlorofluoromethane	1.587	67	6792	0.59 ug/L	100
8) trichlorofluoromethane	1.623	101	4437	0.40 ug/L #	94
9) ethyl ether	0.000		0	N.D.	
10) acrolein	0.000		0	N.D.	
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.	
12) 1,1-dichloroethene	0.000		0	N.D.	
13) acetone	2.044	43	21930	10.02 ug/L	97
14) iodomethane	0.000		0	N.D.	
15) carbon disulfide	0.000		0	N.D.	
16) methyl acetate	2.318	43	5563	Below Cal #	58
17) methylene chloride	2.398	49	2346	Below Cal #	64
18) acrylonitrile	0.000		0	N.D.	
19) trans-1,2-dichloroethene	0.000		0	N.D.	
20) methyl (tert) butyl ether	0.000		0	N.D.	
21) 1,1-dichloroethane	3.105	63	5077	0.45 ug/L #	88
22) vinyl acetate	0.000		0	N.D.	
23) 2,2-dichloropropane	0.000		0	N.D.	
24) cis-1,2-dichloroethene	0.000		0	N.D.	
25) 2-butanone (MEK)	0.000		0	N.D.	
26) bromochloromethane	0.000		0	N.D.	
27) tetrahydrofuran	0.000		0	N.D.	
28) chloroform	0.000		0	N.D.	
30) 1,1,1-trichloroethane	0.000		0	N.D.	
31) cyclohexane	0.000		0	N.D.	
32) carbon tetrachloride	0.000		0	N.D.	
33) 1,1-dichloropropene	0.000		0	N.D.	
34) benzene	0.000		0	N.D.	
35) 1,2-dichloroethane	0.000		0	N.D.	
36) heptane	5.879	57	28952	No Calib	
38) trichloroethene	6.500	130	3343	0.50 ug/L	93

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207404-01.D
Acq On : 26 Jul 2012 16:52
Operator : LEW
Sample : 1207404-01
Misc : Tech Law
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 30 11:01:03 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

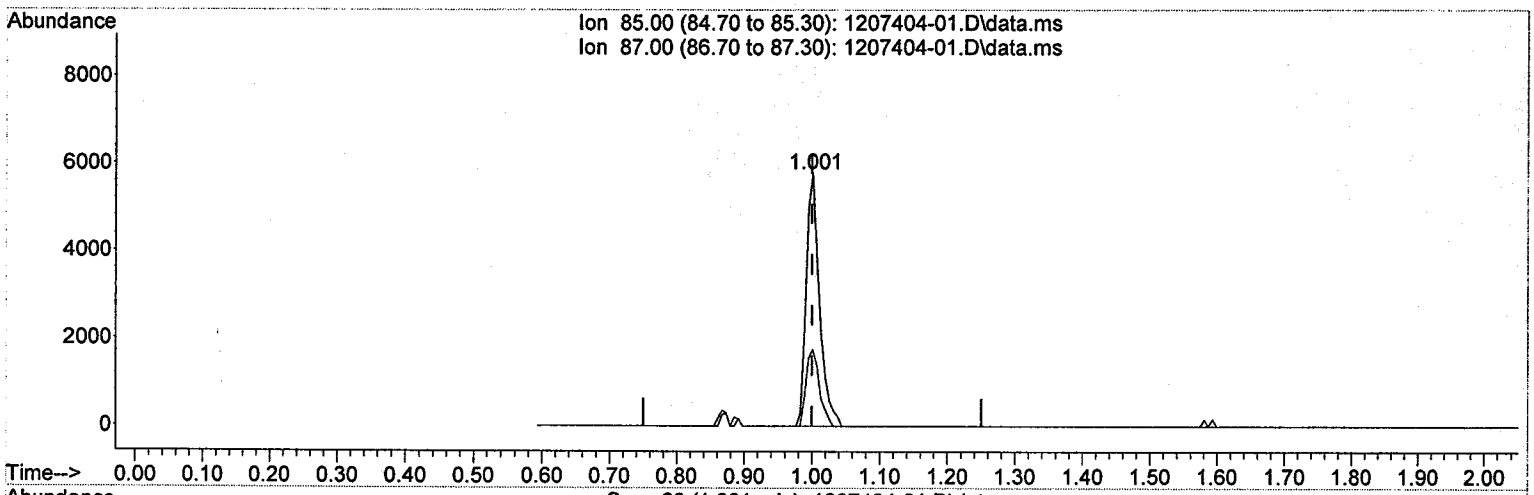
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) methylcyclohexane	0.000		0	N.D.		
40) 1,2-dichloropropane	0.000		0	N.D.		
41) dibromomethane	0.000		0	N.D.		
42) 1,4-dioxane	0.000		0	N.D.		
43) bromodichloromethane	0.000		0	N.D.		
44) 2-chloroethyl vinyl ether	0.000		0	N.D.		
45) cis-1,3-dichloropropene	0.000		0	N.D.		
46) 4-methyl-2-pentanone (...	0.000		0	N.D.		
48) toluene	0.000		0	N.D.		
49) trans-1,3-dichloropropene	0.000		0	N.D.		
50) 1,1,2-trichloroethane	0.000		0	N.D.		
52) tetrachloroethene	9.183	166	3288	0.43	ug/L	95
53) 1,3-dichloropropane	0.000		0	N.D.		
54) 2-hexanone (MBK)	0.000		0	N.D.		
55) dibromochloromethane	0.000		0	N.D.		
56) 1,2-dibromoethane	0.000		0	N.D.		
57) chlorobenzene	0.000		0	N.D.		
58) 1-chlorohexane	0.000		0	N.D.		
59) 1,1,1,2-tetrachloroethane	0.000		0	N.D.		
60) ethylbenzene	0.000		0	N.D.		
61) m+p-xylene	0.000		0	N.D.		
62) o-xylene	0.000		0	N.D.		
63) styrene	0.000		0	N.D.		
64) bromoform	0.000		0	N.D.		
67) isopropylbenzene	0.000		0	N.D.		
68) bromobenzene	0.000		0	N.D.		
69) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
70) 1,2,3-trichloropropane	0.000		0	N.D.		
71) 1,4-dichloro-2-butene	0.000		0	N.D.		
72) n-propylbenzene	0.000		0	N.D.		
73) 2-chlorotoluene	0.000		0	N.D.		
74) 1,3,5-trimethylbenzene	0.000		0	N.D.		
75) 4-chlorotoluene	0.000		0	N.D.		
76) tert-butylbenzene	0.000		0	N.D.		
77) 1,2,4-trimethylbenzene	0.000		0	N.D.		
78) sec-butylbenzene	0.000		0	N.D.		
79) 1,3-dichlorobenzene	0.000		0	N.D.		
80) 4-isopropyltoluene	0.000		0	N.D.		
81) 1,4-dichlorobenzene	0.000		0	N.D.		
82) 1,2-dichlorobenzene	0.000		0	N.D.		
83) n-butylbenzene	0.000		0	N.D.		
84) hexachloroethane	0.000		0	N.D.		
85) 1,2-dibromo-3-chloropr...	0.000		0	N.D.		
86) 1,2,4-trichlorobenzene	0.000		0	N.D.		
87) hexachlorobutadiene	0.000		0	N.D.		
88) naphthalene	0.000		0	N.D.		
89) 1,2,3-trichlorobenzene	0.000		0	N.D.		
90) 2-methylnaphthalene	0.000		0	N.D.		

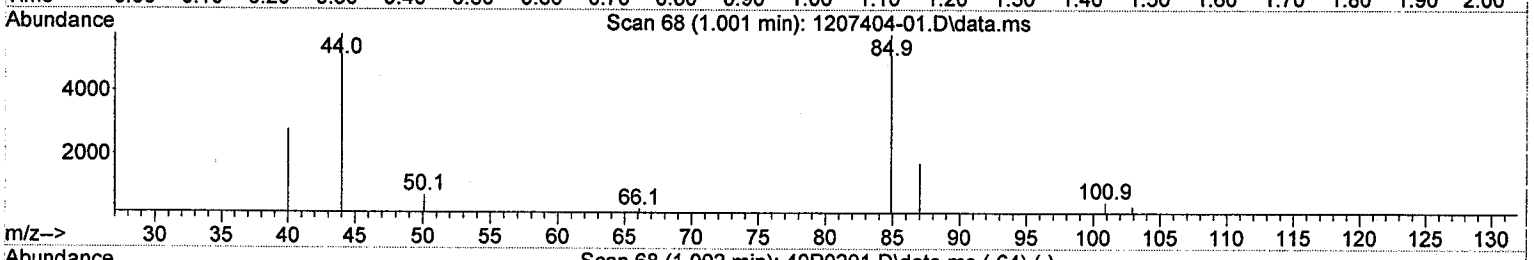
(#) = qualifier out of range (m) = manual integration (+) = signals summed

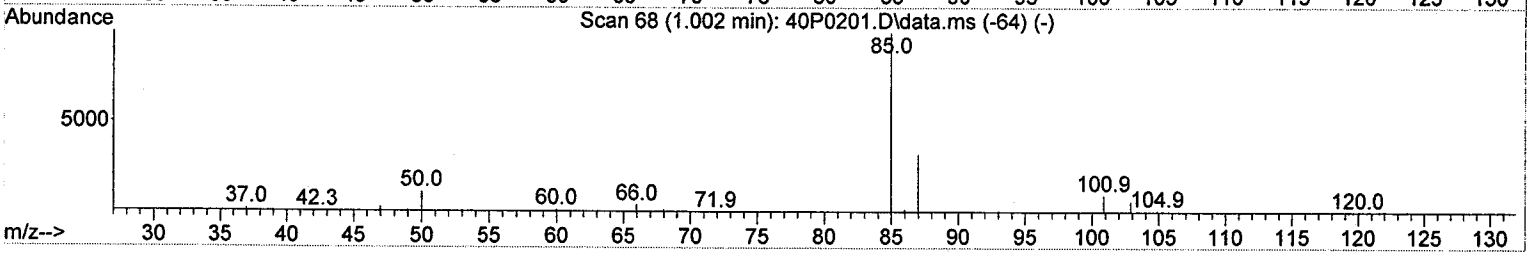
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207404-01.D
Acq On : 26 Jul 2012 16:52
Operator : LEW
Sample : 1207404-01
Misc : Tech Law
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 30 11:01:03 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: 1207404-01.D\data.ms

(2) dichlorodifluoromethane

1.001min (+0.000) 1.00 ug/L

response 7813

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	30.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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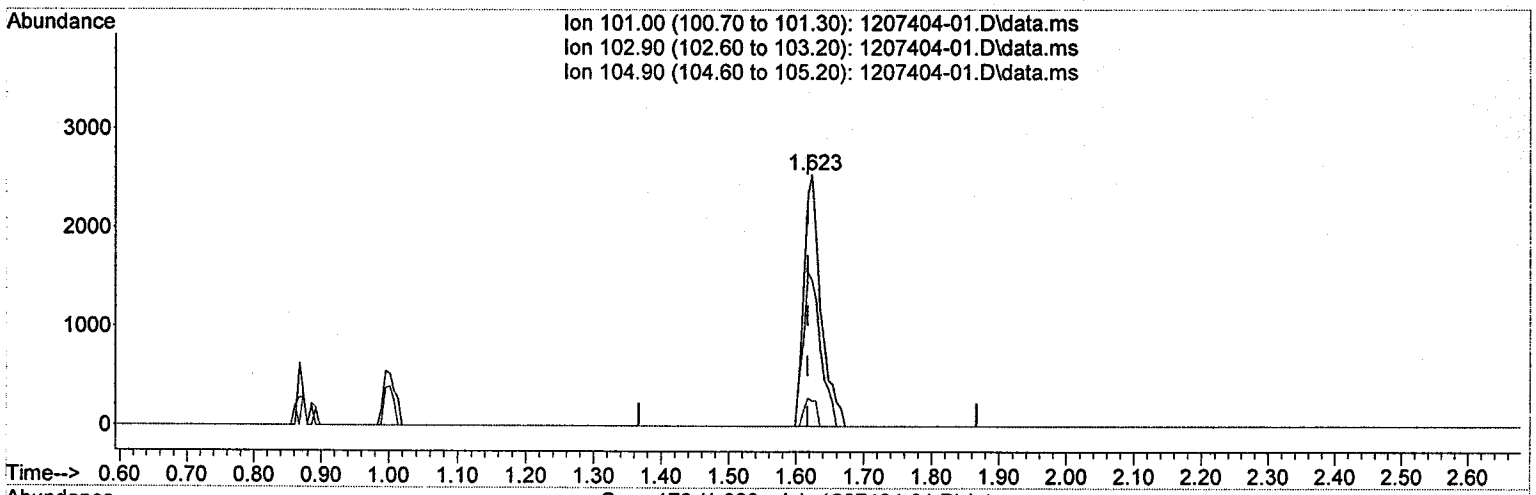

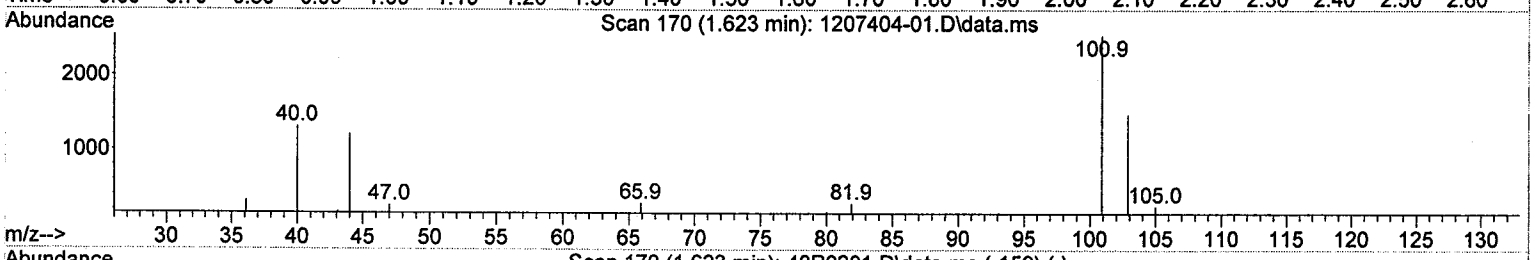

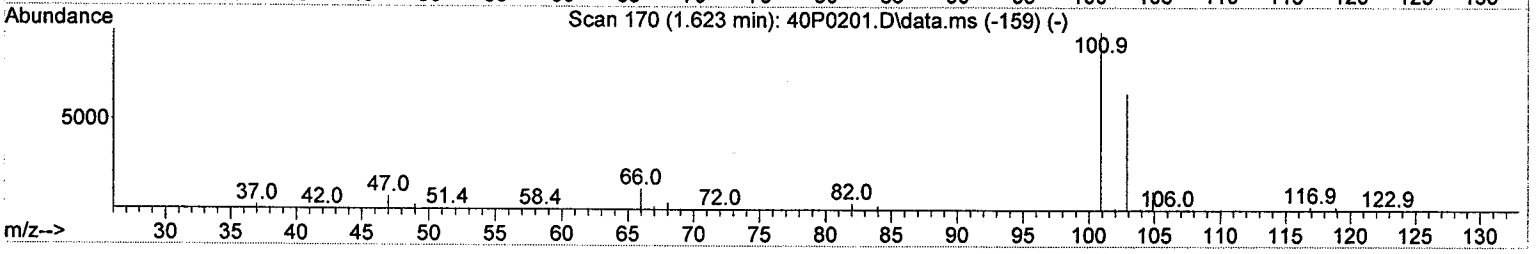

TIC: 1207404-01.D\data.ms

(8) trichlorofluoromethane

1.623min (+0.006) 0.40 ug/L

response 4437

Ion	Exp%	Act%
101.00	100	100
102.90	64.70	62.43
104.90	10.50	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
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Sample : 1207404-01
Misc : Tech Law
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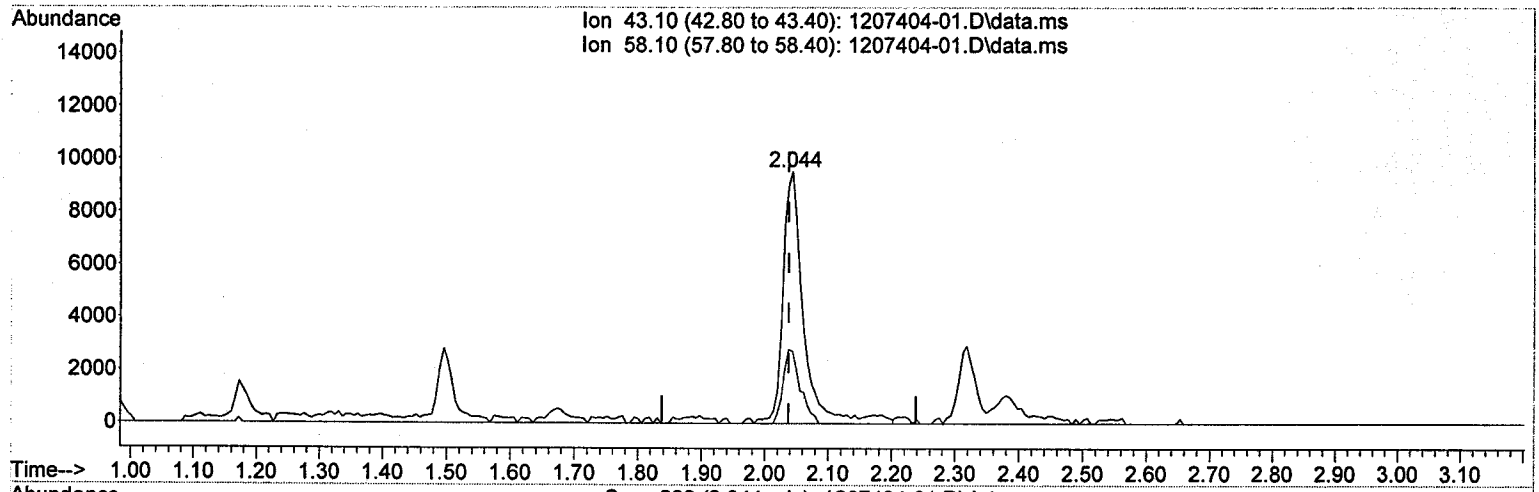
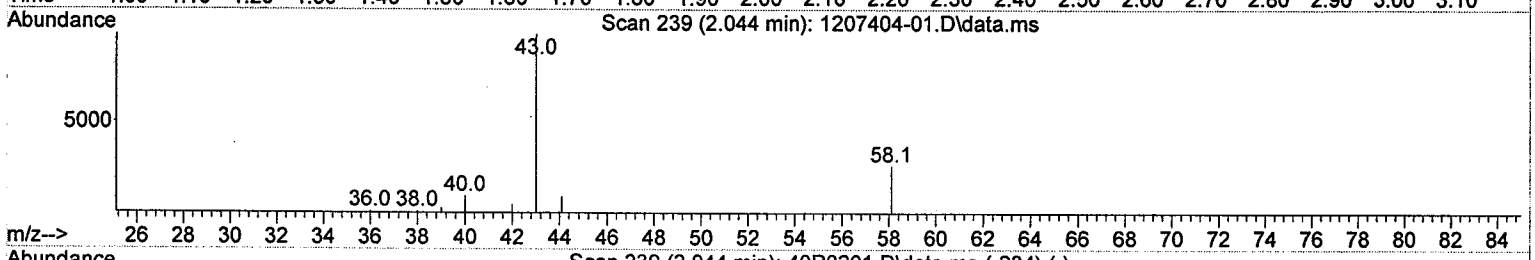
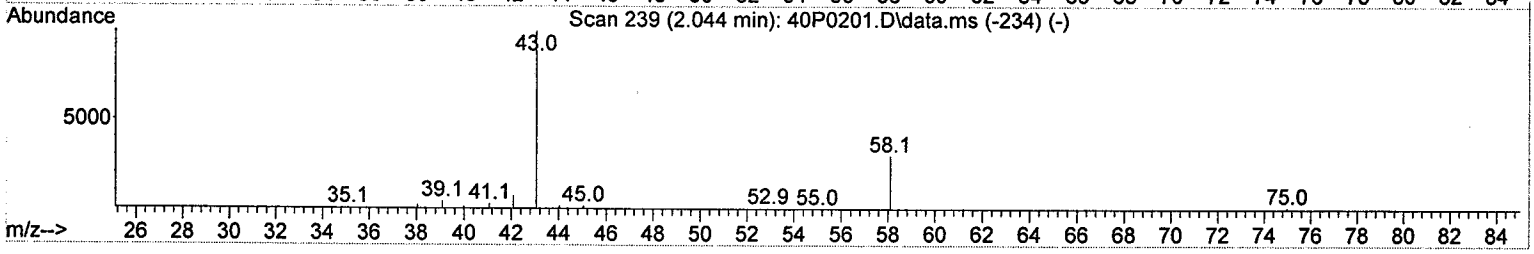
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: 1207404-01.D\data.ms

(13) acetone

2.044min (+0.006) 10.02 ug/L

response 21930

Ion	Exp%	Act%
43.10	100	100
58.10	23.00	24.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207404-01.D
Acq On : 26 Jul 2012 16:52
Operator : LEW
Sample : 1207404-01
Misc : Tech Law
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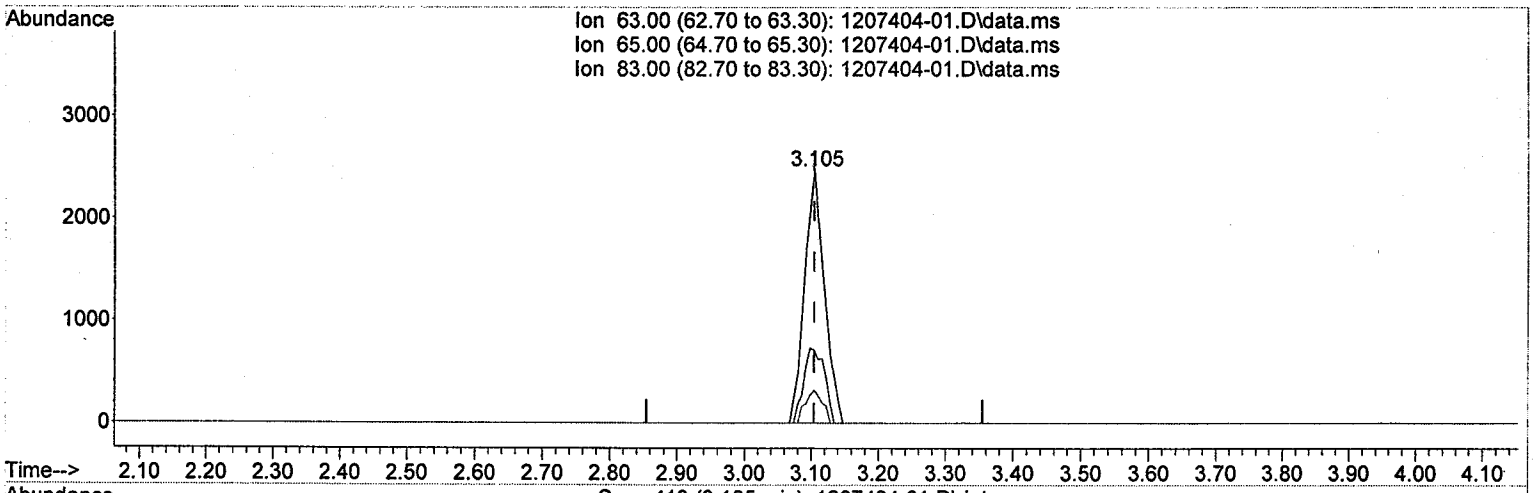
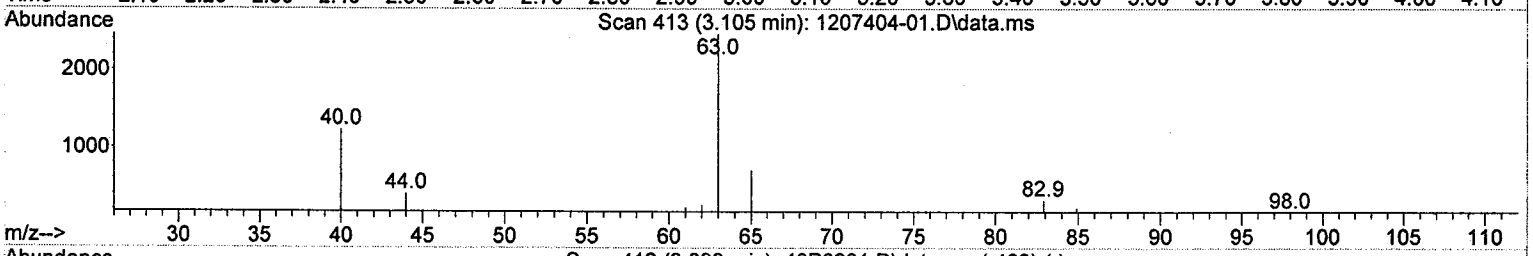
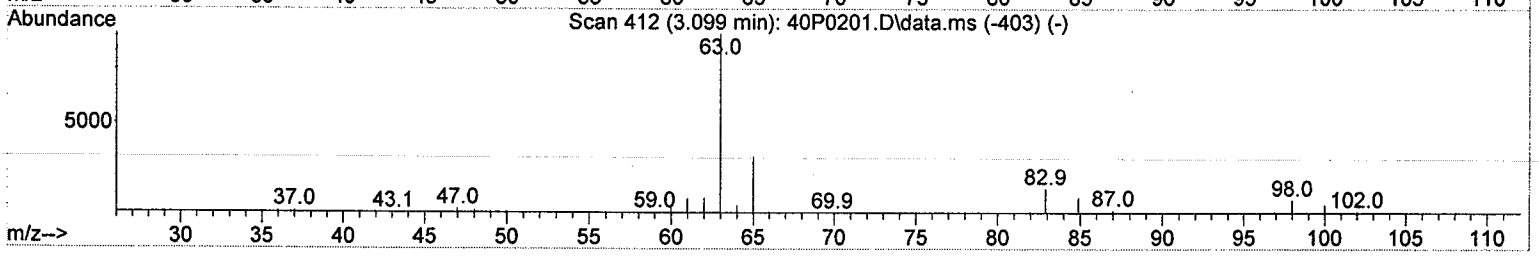
Quant Time: Jul 30 11:01:03 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: 1207404-01.D\data.ms

(21) 1,1-dichloroethane (P)

3.105min (-0.000) 0.45 ug/L

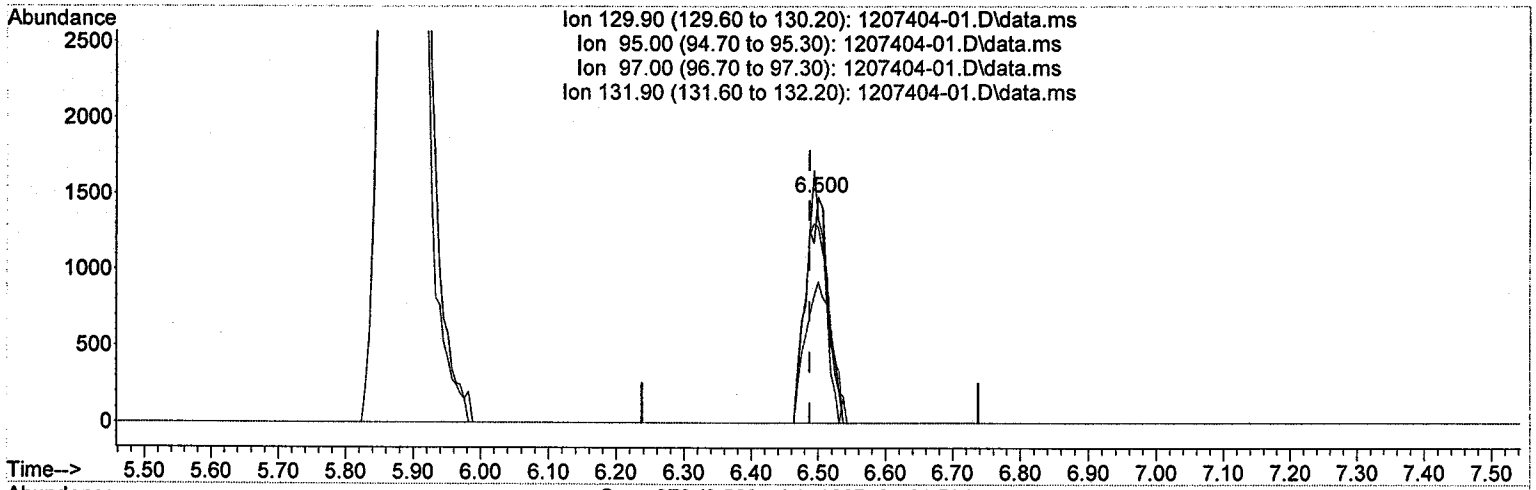
response 5077

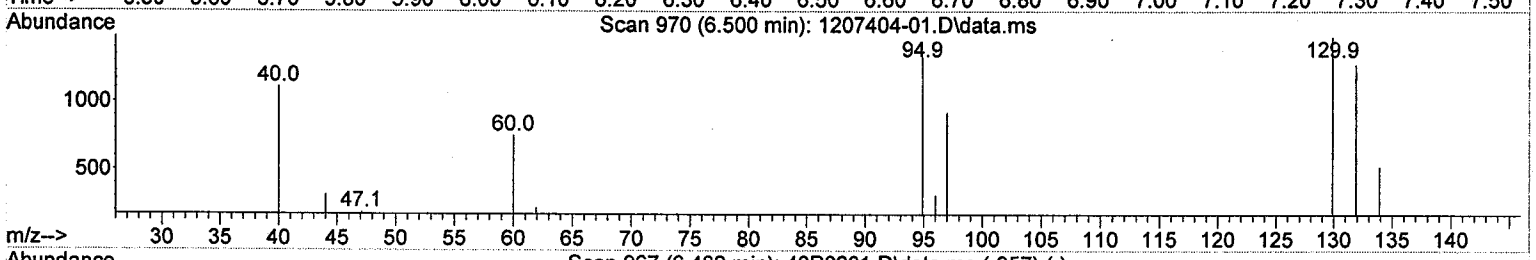
Ion	Exp%	Act%
63.00	100	100
65.00	31.70	31.04
83.00	14.60	0.00
0.00	0.00	0.00

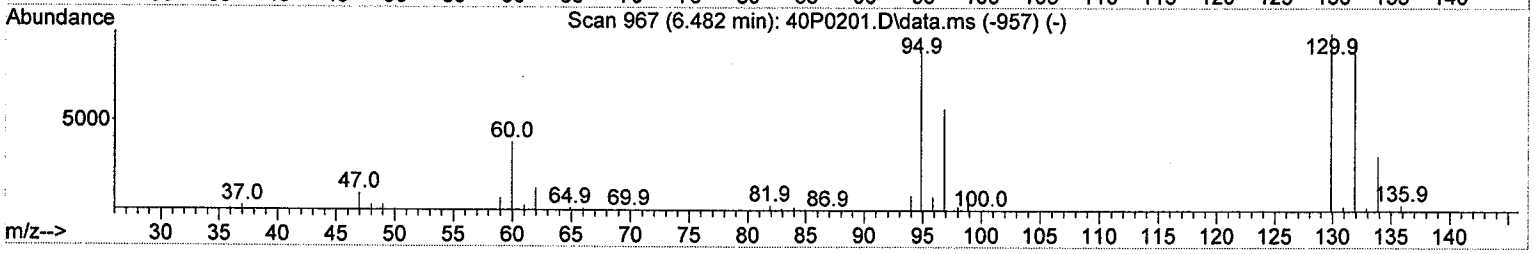
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207404-01.D
Acq On : 26 Jul 2012 16:52
Operator : LEW
Sample : 1207404-01
Misc : Tech Law
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 30 11:01:03 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: 1207404-01.D\data.ms

(38) trichloroethene

6.500min (+0.012) 0.50 ug/L

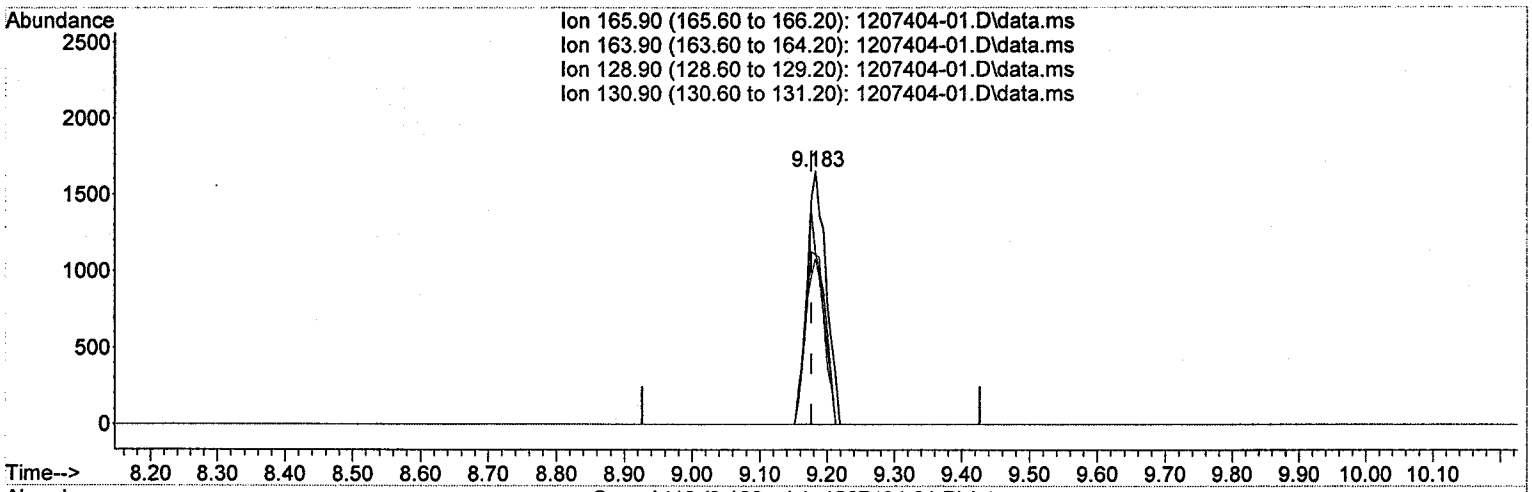
response 3343

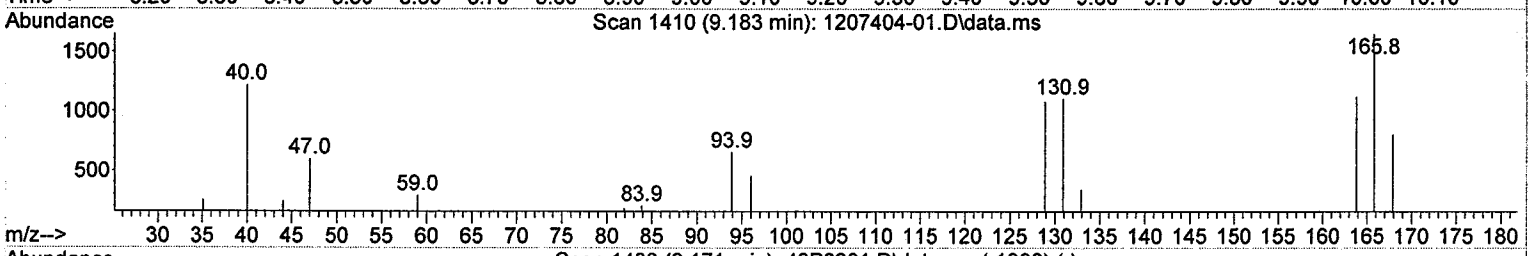
Ion	Exp%	Act%
129.90	100	100
95.00	91.50	101.26
97.00	59.20	65.90
131.90	97.10	99.40

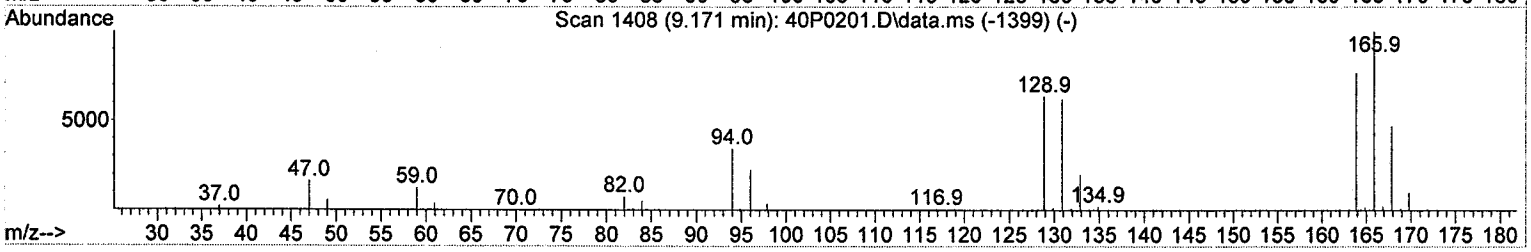
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207404-01.D
Acq On : 26 Jul 2012 16:52
Operator : LEW
Sample : 1207404-01
Misc : Tech Law
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 30 11:01:03 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: 1207404-01.D\data.ms

(52) tetrachloroethene

9.183min (+0.006) 0.43 ug/L

response 3288

Ion	Exp%	Act%
165.90	100	100
163.90	78.00	73.39
128.90	67.00	64.57
130.90	65.10	69.74

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106055

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207404-02 File ID: 1207404-02.D

Sampled: 07/25/12 10:30 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 17:20

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	29	1.1	5.0	
71-43-2	Benzene	1	0.52	0.11	1.0	J
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	1.2	0.18	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	2.0	0.15	1.0	
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.2	0.22	1.0	
79-20-9	Methyl Acetate	1	5.0	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106055

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1207404-02 File ID: 1207404-02.D

Sampled: 07/25/12 10:30 Prepared: 07/26/12 08:00 Analyzed: 07/26/12 17:20

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	3.6	0.40	5.0	J
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.1	98	85 - 118	
1,2-Dichloroethane-d4	40.0	40.5	101	87 - 122	
Toluene-d8	40.0	39.2	98	85 - 113	
4-Bromofluorobenzene	40.0	35.6	89	82 - 110	

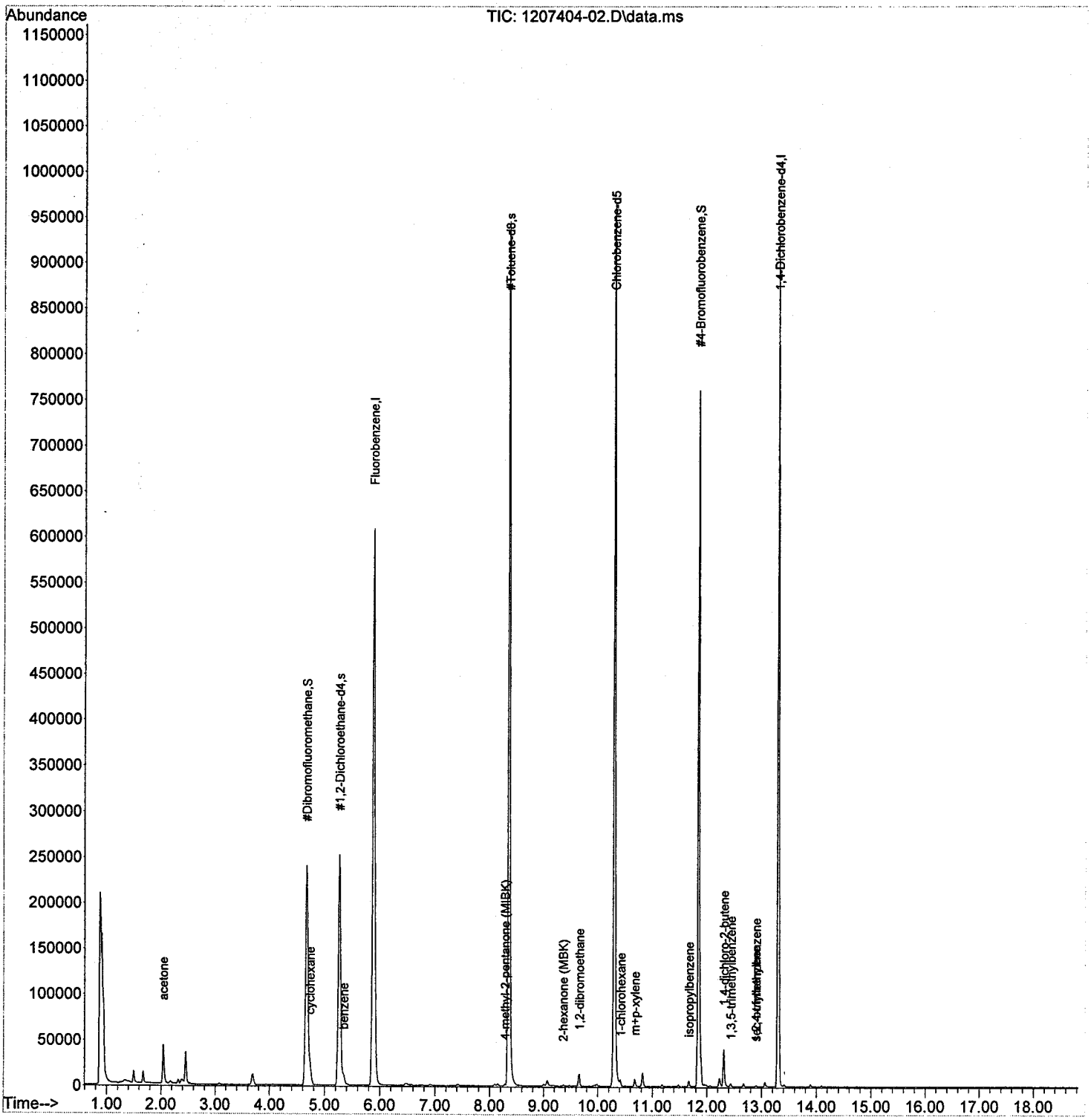
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	788498	5.884	92	5.872	
Chlorobenzene-d5	590305	10.298	88	10.286	
1,4-Dichlorobenzene-d4	253923	13.292	68	13.285	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207404-02.D
Acq On : 26 Jul 2012 17:20
Operator : LEW
Sample : 1207404-02
Misc : Tech Law
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 30 11:01:25 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207404-02.D
Acq On : 26 Jul 2012 17:20
Operator : LEW
Sample : 1207404-02
Misc : Tech Law
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 30 11:01:25 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.884	96	788498	40.00 ug/L	0.01
51) Chlorobenzene-d5	10.298	117	590305	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.292	152	253923	40.00 ug/L	# 0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	4.665	111	220751	39.12 ug/L	0.00
Spiked Amount 40.000			Recovery	= 97.80%	
37) #1,2-Dichloroethane-d4	5.269	67	139983	40.51 ug/L	0.01
Spiked Amount 40.000			Recovery	= 101.28%	
47) #Toluene-d8	8.354	98	762626	39.20 ug/L	0.01
Spiked Amount 40.000			Recovery	= 98.00%	
65) #4-Bromofluorobenzene	11.841	95	269017	35.60 ug/L	0.00
Spiked Amount 40.000			Recovery	= 89.00%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.000		0	N.D.	
3) chloromethane	0.000		0	N.D.	
4) vinyl chloride	0.000		0	N.D.	
5) bromomethane	0.000		0	N.D.	
6) chloroethane	0.000		0	N.D.	
7) dichlorofluoromethane	0.000		0	N.D.	
8) trichlorofluoromethane	0.000		0	N.D.	
9) ethyl ether	0.000		0	N.D.	
10) acrolein	0.000		0	N.D.	
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.	
12) 1,1-dichloroethene	0.000		0	N.D.	
13) acetone	2.038	43	54384	28.72 ug/L #	88
14) iodomethane	0.000		0	N.D.	
15) carbon disulfide	0.000		0	N.D.	
16) methyl acetate	2.318	43	5361	Below Cal #	58
17) methylene chloride	2.403	49	1250	Below Cal #	14
18) acrylonitrile	0.000		0	N.D.	
19) trans-1,2-dichloroethene	0.000		0	N.D.	
20) methyl (tert) butyl ether	0.000		0	N.D.	
21) 1,1-dichloroethane	0.000		0	N.D.	
22) vinyl acetate	0.000		0	N.D.	
23) 2,2-dichloropropane	0.000		0	N.D.	
24) cis-1,2-dichloroethene	0.000		0	N.D.	
25) 2-butanone (MEK)	0.000		0	N.D.	
26) bromochloromethane	0.000		0	N.D.	
27) tetrahydrofuran	0.000		0	N.D.	
28) chloroform	0.000		0	N.D.	
30) 1,1,1-trichloroethane	0.000		0	N.D.	
31) cyclohexane	4.726	56	13349	1.22 ug/L	88
32) carbon tetrachloride	0.000		0	N.D.	
33) 1,1-dichloropropene	0.000		0	N.D.	
34) benzene	5.342	78	12725	0.52 ug/L #	69
35) 1,2-dichloroethane	0.000		0	N.D.	
36) heptane	5.884	57	29348	No Calib	
38) trichloroethene	0.000		0	N.D.	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207404-02.D
Acq On : 26 Jul 2012 17:20
Operator : LEW
Sample : 1207404-02
Misc : Tech Law
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 30 11:01:25 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

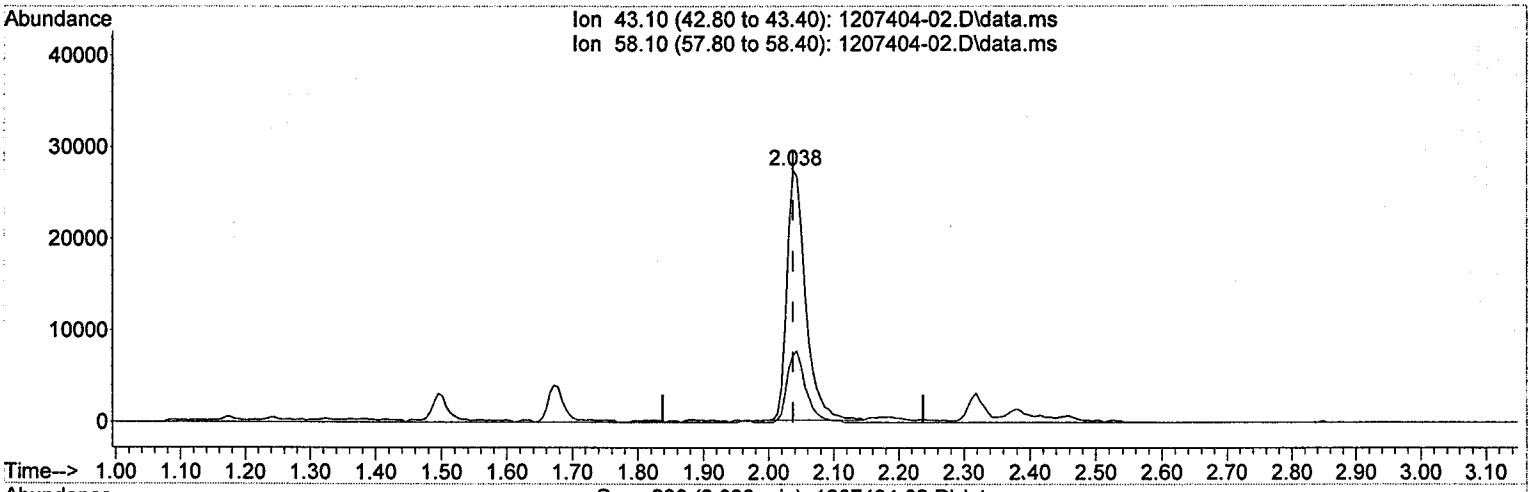
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	0.000		0	N.D.	
40) 1,2-dichloropropane	0.000		0	N.D.	
41) dibromomethane	0.000		0	N.D.	
42) 1,4-dioxane	0.000		0	N.D.	
43) bromodichloromethane	0.000		0	N.D.	
44) 2-chloroethyl vinyl ether	0.000		0	N.D.	
45) cis-1,3-dichloropropene	0.000		0	N.D.	
46) 4-methyl-2-pentanone (...	8.280	43	2259	3.63 ug/L #	47
48) toluene	0.000		0	N.D.	
49) trans-1,3-dichloropropene	0.000		0	N.D.	
50) 1,1,2-trichloroethane	0.000		0	N.D.	
52) tetrachloroethene	0.000		0	N.D.	
53) 1,3-dichloropropane	0.000		0	N.D.	
54) 2-hexanone (MBK)	9.359	43	1368	ps ~~4.42~~ ug/L #	40
55) dibromochloromethane	0.000		0	N.D.	
56) 1,2-dibromoethane	9.658	109	9132	1.96 ug/L #	100
57) chlorobenzene	0.000		0	N.D.	
58) 1-chlorohexane	10.420	55	1750	0.28 ug/L #	1
59) 1,1,1,2-tetrachloroethane	0.000		0	N.D.	
60) ethylbenzene	0.000		0	N.D.	
61) m+p-xylene	10.676	106	2559	0.24 ug/L #	84
62) o-xylene	0.000		0	N.D.	
63) styrene	0.000		0	N.D.	
64) bromoform	0.000		0	N.D.	
67) isopropylbenzene	11.670	105	4642	1.22 ug/L	89
68) bromobenzene	0.000		0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	
70) 1,2,3-trichloropropane	0.000		0	N.D.	
71) 1,4-dichloro-2-butene	12.310	53	1583	3.12 ug/L #	10
72) n-propylbenzene	0.000		0	N.D.	
73) 2-chlorotoluene	0.000		0	N.D.	
74) 1,3,5-trimethylbenzene	12.438	105	2425	0.15 ug/L	96
75) 4-chlorotoluene	0.000		0	N.D.	
76) tert-butylbenzene	0.000		0	N.D.	
77) 1,2,4-trimethylbenzene	12.895	105	1299	0.08 ug/L #	32
78) sec-butylbenzene	12.895	105	1299	2.59 ug/L #	54
79) 1,3-dichlorobenzene	0.000		0	N.D.	
80) 4-isopropyltoluene	0.000		0	N.D.	
81) 1,4-dichlorobenzene	0.000		0	N.D.	
82) 1,2-dichlorobenzene	0.000		0	N.D.	
83) n-butylbenzene	0.000		0	N.D.	
84) hexachloroethane	0.000		0	N.D.	
85) 1,2-dibromo-3-chloropr...	0.000		0	N.D.	
86) 1,2,4-trichlorobenzene	0.000		0	N.D.	
87) hexachlorobutadiene	0.000		0	N.D.	
88) naphthalene	0.000		0	N.D.	
89) 1,2,3-trichlorobenzene	0.000		0	N.D.	
90) 2-methylnaphthalene	0.000		0	N.D.	

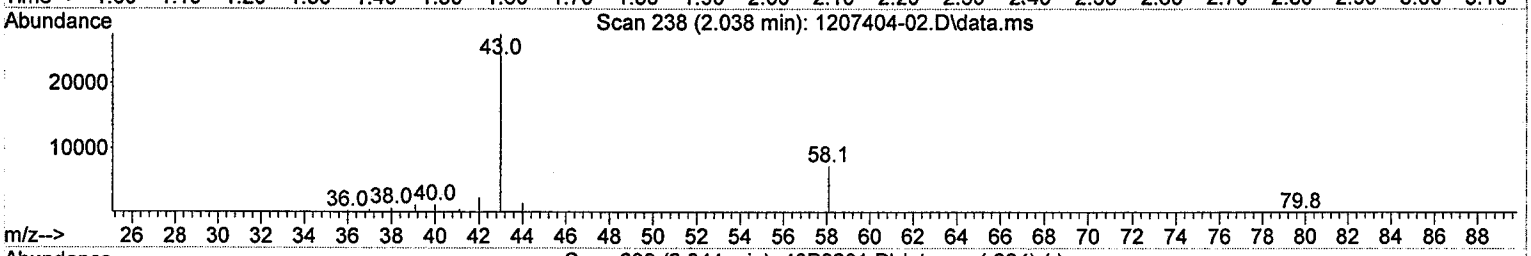
(#) = qualifier out of range (m) = manual integration (+) = signals summed

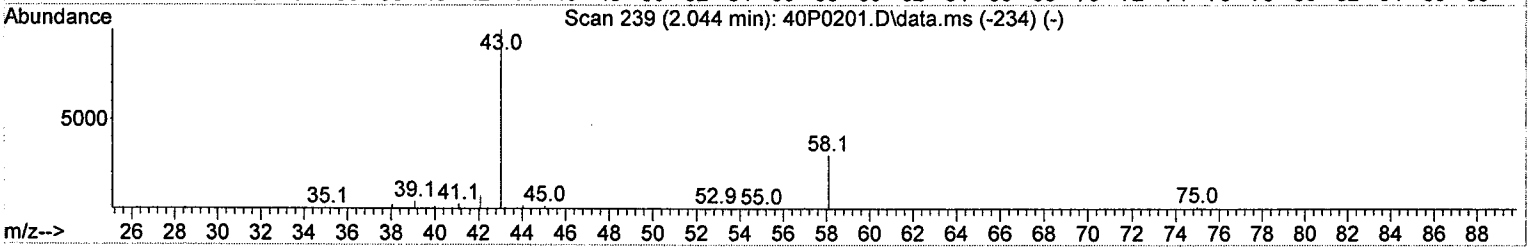
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207404-02.D
Acq On : 26 Jul 2012 17:20
Operator : LEW
Sample : 1207404-02
Misc : Tech Law
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 30 11:01:25 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: 1207404-02.D\data.ms

(13) acetone

2.038min (-0.000) 28.72 ug/L

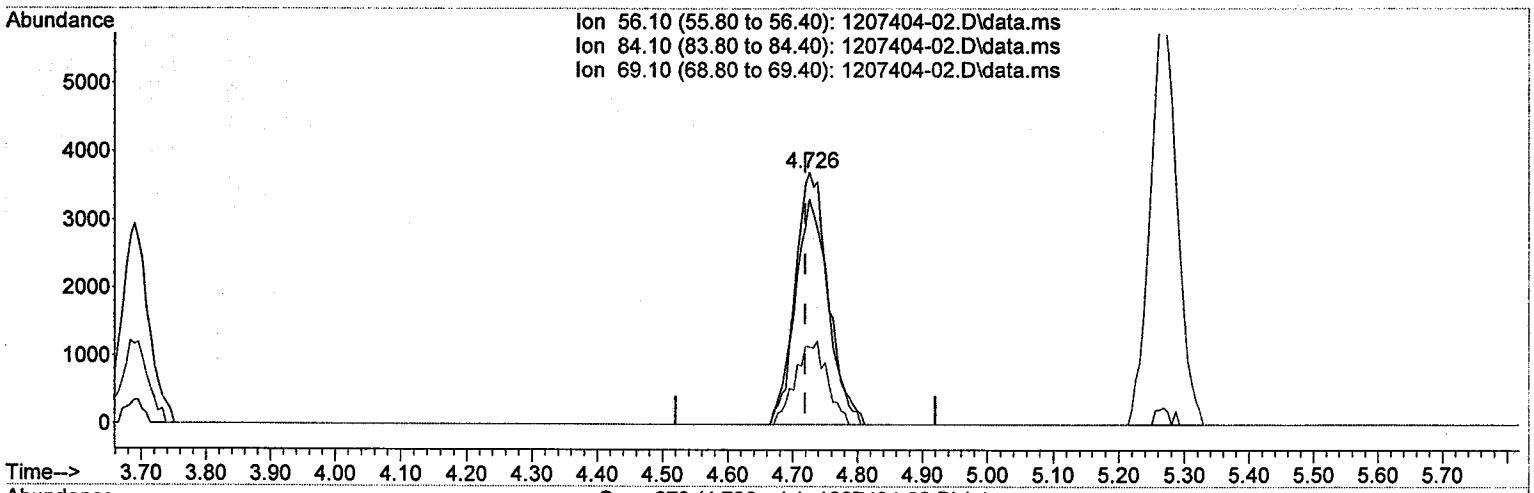
response 54384

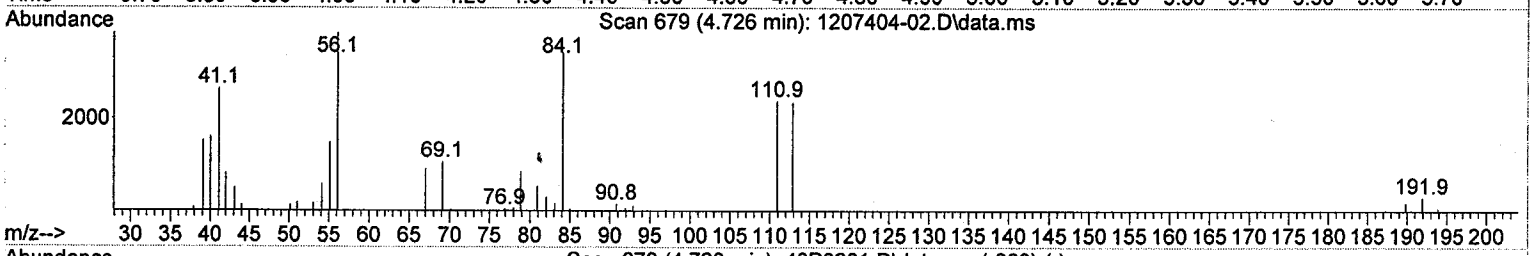
Ion	Exp%	Act%
43.10	100	100
58.10	23.00	28.66#
0.00	0.00	0.00
0.00	0.00	0.00

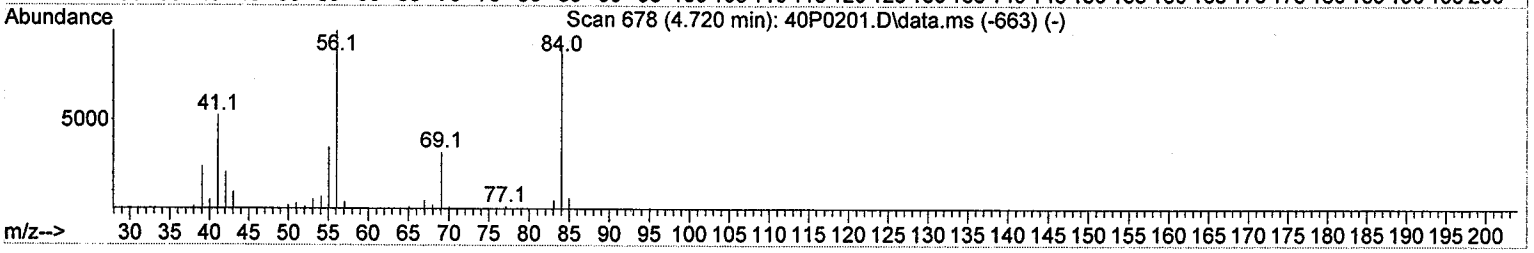
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207404-02.D
Acq On : 26 Jul 2012 17:20
Operator : LEW
Sample : 1207404-02
Misc : Tech Law
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 30 11:01:25 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: 1207404-02.D\data.ms

(31) cyclohexane

4.726min (+0.006) 1.22 ug/L

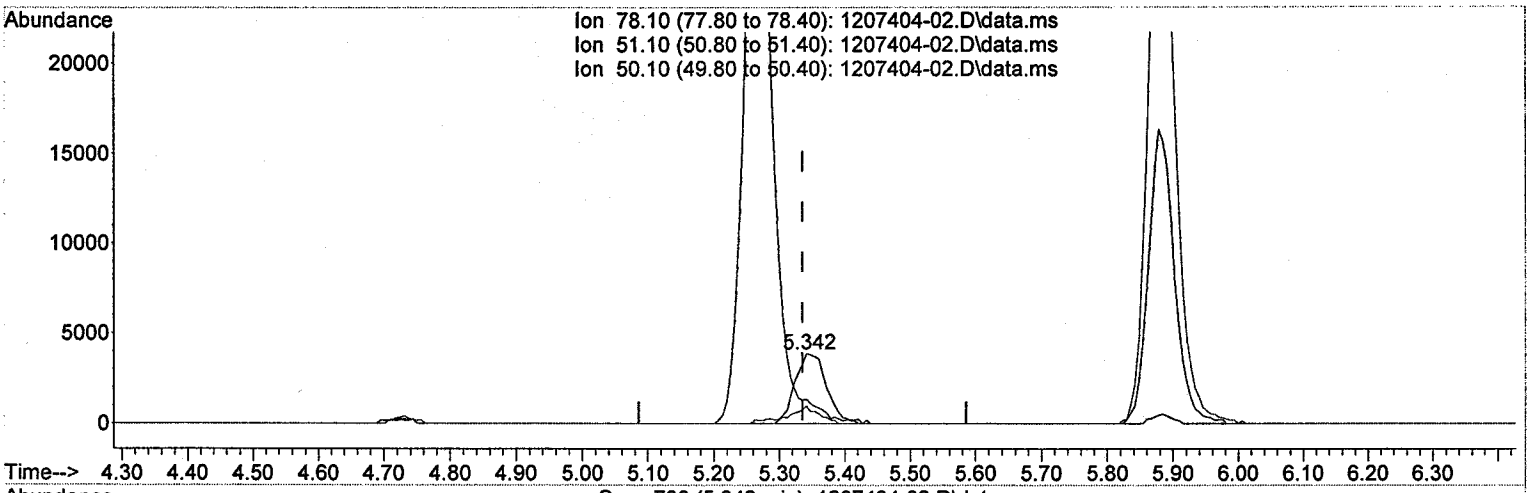
response 13349

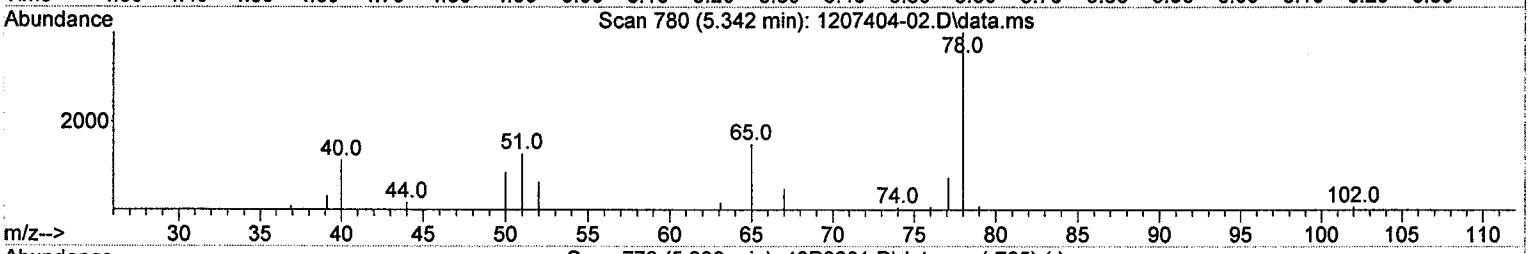
Ion	Exp%	Act%
56.10	100	100
84.10	102.60	87.35
69.10	33.30	31.33
0.00	0.00	0.00

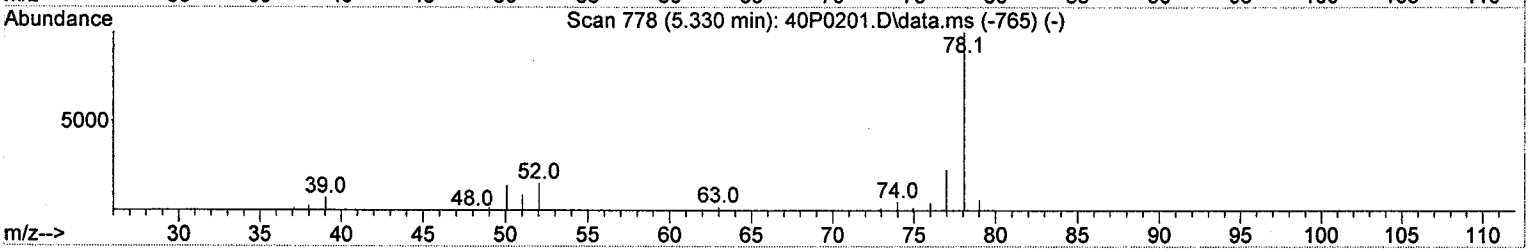
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207404-02.D
Acq On : 26 Jul 2012 17:20
Operator : LEW
Sample : 1207404-02
Misc : Tech Law
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 30 11:01:25 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: 1207404-02.D\data.ms

(34) benzene

5.342min (+0.006) 0.52 ug/L

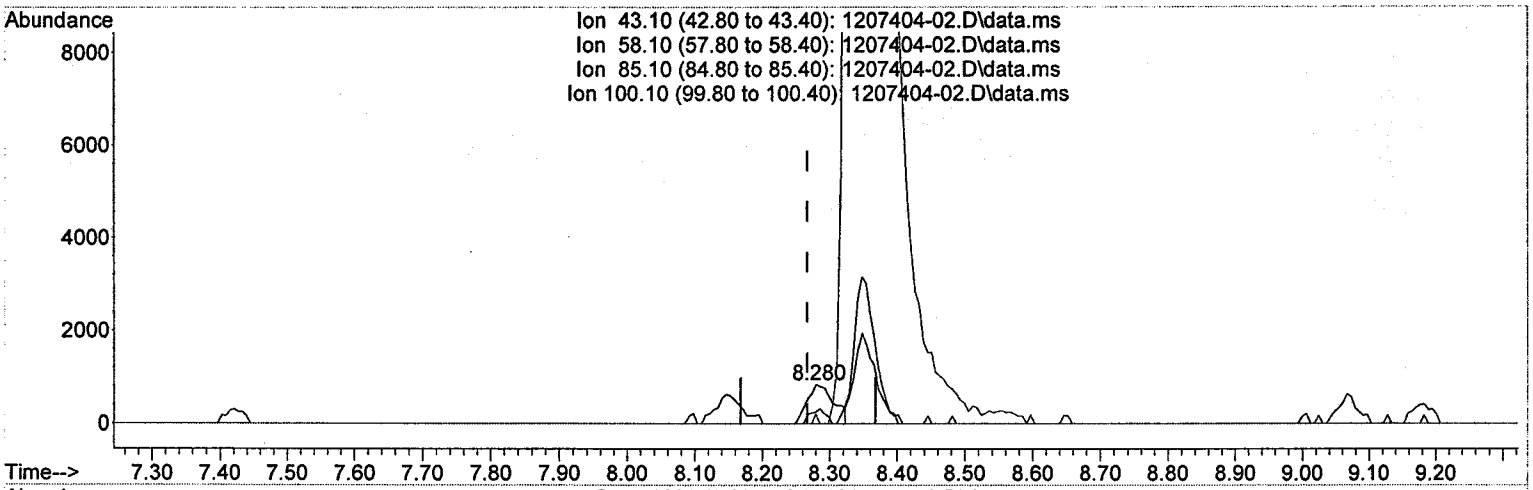
response 12725

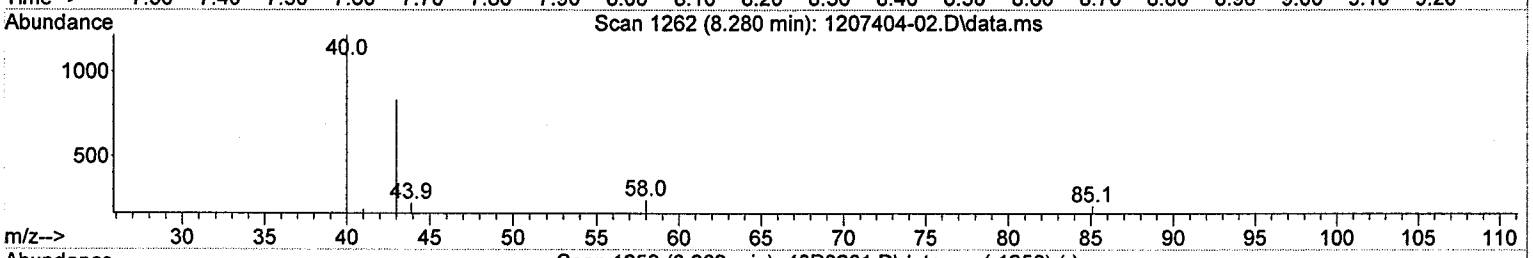
Ion	Exp%	Act%
78.10	100	100
51.10	22.60	0.00#
50.10	19.20	24.61
0.00	0.00	0.00

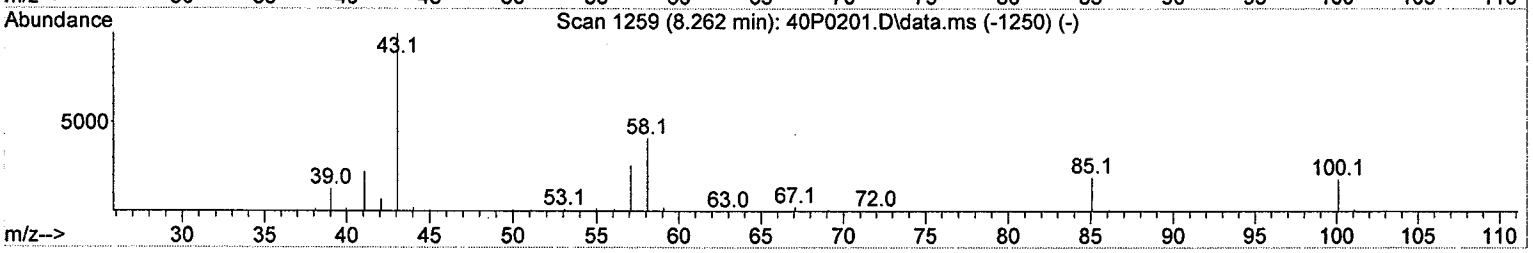
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207404-02.D
Acq On : 26 Jul 2012 17:20
Operator : LEW
Sample : 1207404-02
Misc : Tech Law
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 30 11:01:25 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: 1207404-02.D\data.ms

(46) 4-methyl-2-pentanone (MIBK)

8.280min (+0.012) 3.63 ug/L

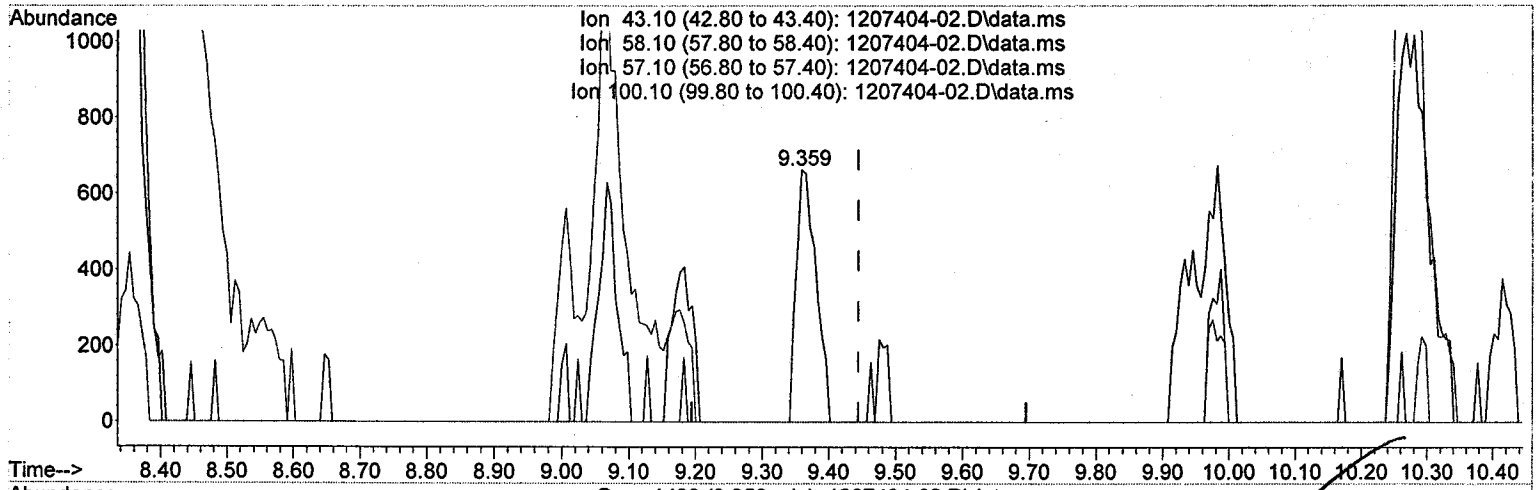
response 2259

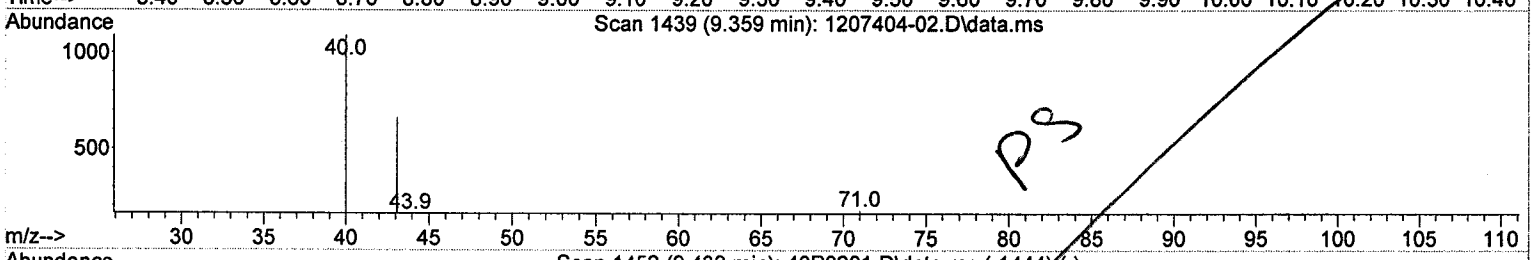
Ion	Exp%	Act%
43.10	100	100
58.10	38.40	0.00#
85.10	21.00	0.00#
100.10	18.50	0.00

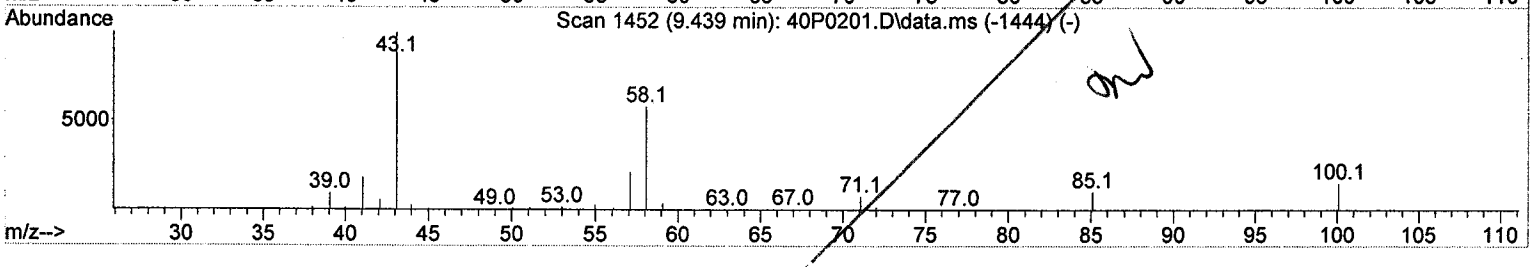
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207404-02.D
Acq On : 26 Jul 2012 17:20
Operator : LEW
Sample : 1207404-02
Misc : Tech Law
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 30 11:01:25 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







P3

and

TIC: 1207404-02.D\data.ms

(54) 2-hexanone (MBK)

9.359min (-0.086) 4.42 ug/L

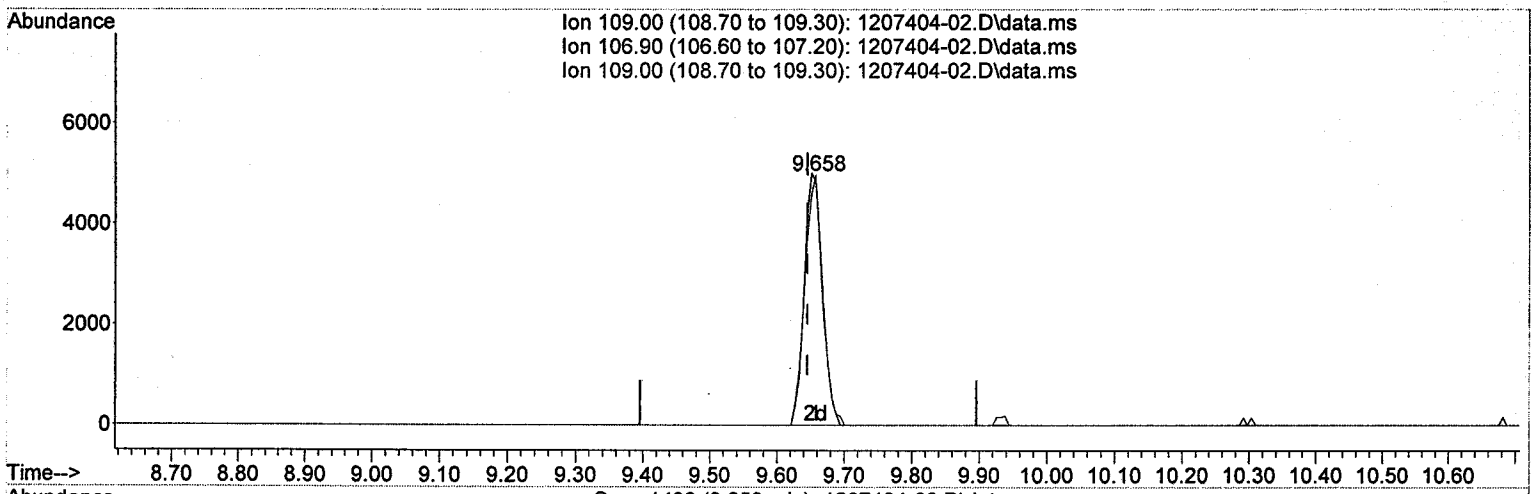
response 1368

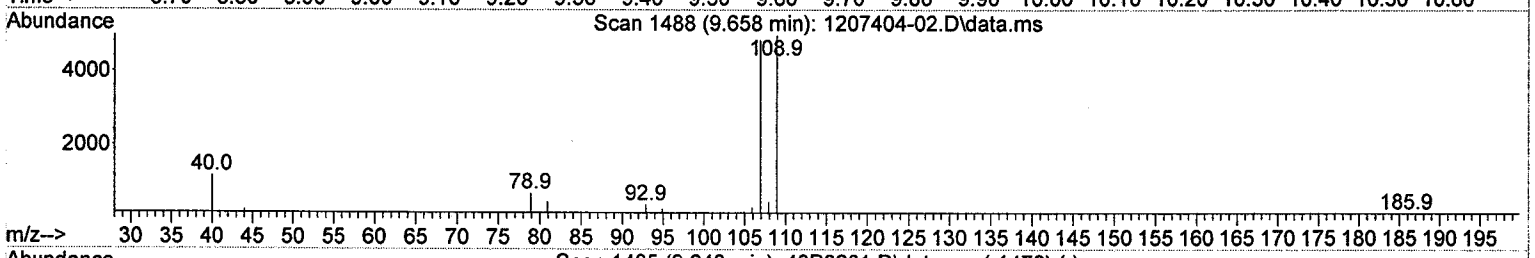
Ion	Exp%	Act%
43.10	100	100
58.10	51.40	0.00#
57.10	20.90	0.00#
100.10	14.60	0.00

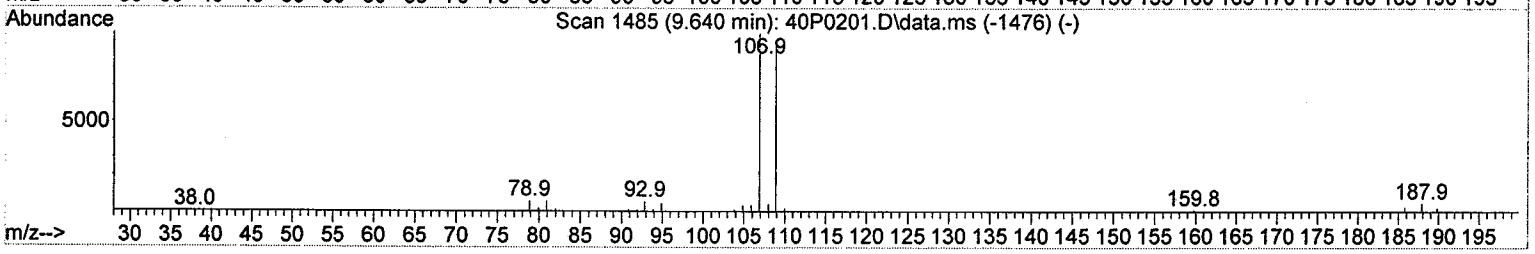
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207404-02.D
Acq On : 26 Jul 2012 17:20
Operator : LEW
Sample : 1207404-02
Misc : Tech Law
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 30 11:01:25 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: 1207404-02.D\data.ms

(56) 1,2-dibromoethane

9.658min (+0.012) 1.96 ug/L

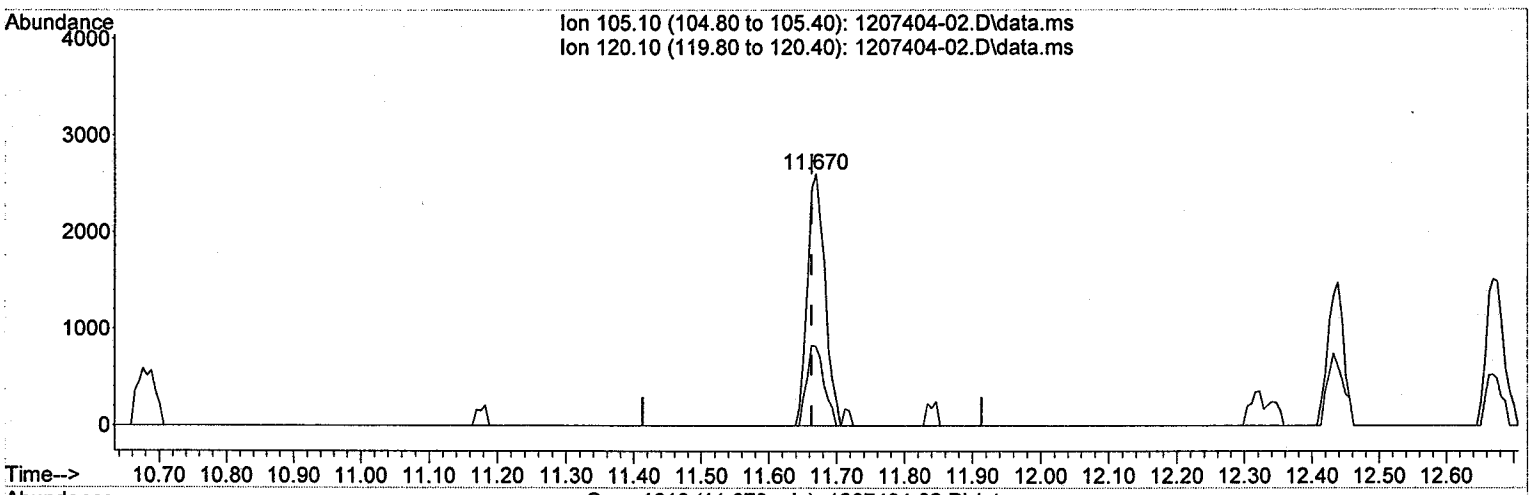
response 9132

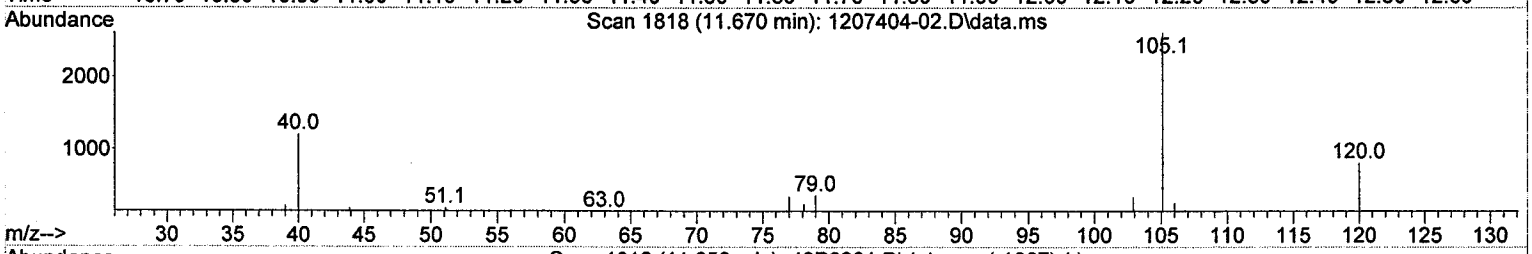
Ion	Exp%	Act%
109.00	100	100
106.90	0.00	102.87#
109.00	100.00	100.00
0.00	0.00	0.00

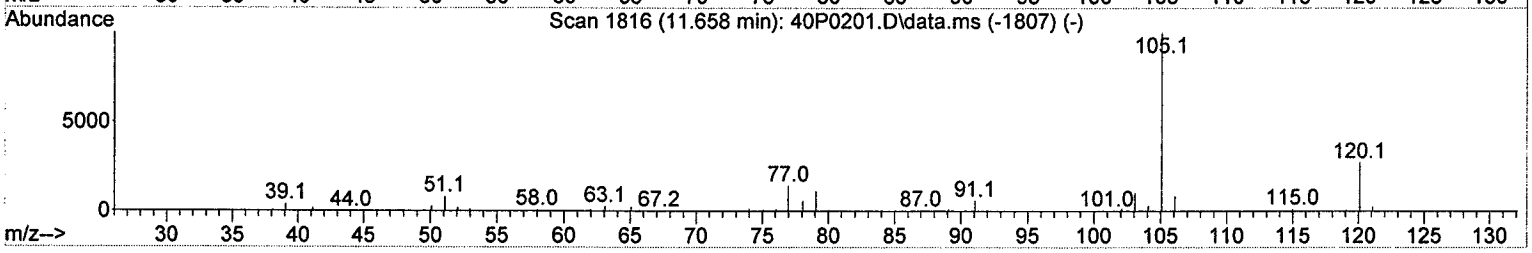
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : 1207404-02.D
Acq On : 26 Jul 2012 17:20
Operator : LEW
Sample : 1207404-02
Misc : Tech Law
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 30 11:01:25 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: 1207404-02.D\data.ms

(67) isopropylbenzene

11.670min (+0.006) 1.22 ug/L

response 4642

Ion	Exp%	Act%
105.10	100	100
120.10	25.80	31.41
0.00	0.00	0.00
0.00	0.00	0.00

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106051

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208015-01 File ID: 1208015-01.D

Sampled: 07/31/12 10:15 Prepared: 08/06/12 08:00 Analyzed: 08/06/12 11:17

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209584 Sequence: 2H07013 Calibration: 2H01006 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	20	1.1	5.0	**B**
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	1.6	0.42	5.0	**J**
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106051

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208015-01 File ID: 1208015-01.D

Sampled: 07/31/12 10:15 Prepared: 08/06/12 08:00 Analyzed: 08/06/12 11:17

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209584 Sequence: 2H07013 Calibration: 2H01006 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	42.8	107	85 - 118	
1,2-Dichloroethane-d4	40.0	42.6	107	87 - 122	
Toluene-d8	40.0	39.8	100	85 - 113	
4-Bromofluorobenzene	40.0	37.0	92	82 - 110	

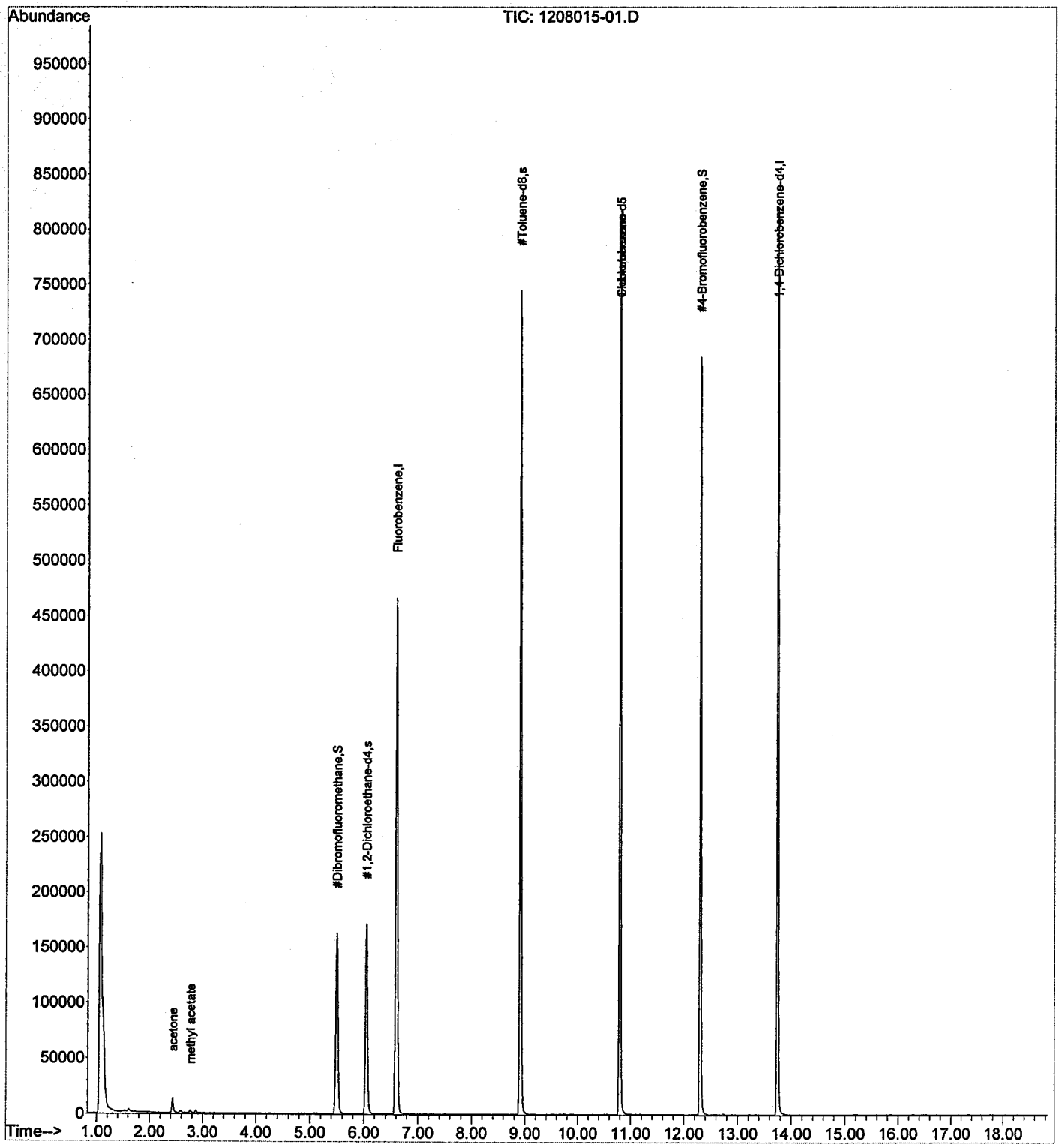
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	537593	6.6	85	6.6	
Chlorobenzene-d5	498089	10.8	87	10.8	
1,4-Dichlorobenzene-d4	261781	13.75	73	13.75	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208015-01.D
Acq On : 6 Aug 2012 11:17
Operator : DLV
Sample : 1208015-01
Misc : TECH LAW
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 11:36:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208015-01.D
Acq On : 6 Aug 2012 11:17
Operator : DLV
Sample : 1208015-01
Misc : TECH LAW
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 11:36:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.60	96	537593	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	498089	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	261781	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.50	111	140011	42.82	ug/L	0.00
Spiked Amount 40.000			Recovery	=	107.05%	
37) #1,2-Dichloroethane-d4	6.05	65	167073	42.64	ug/L	0.00
Spiked Amount 40.000			Recovery	=	106.60%	
47) #Toluene-d8	8.91	98	548822	39.80	ug/L	0.00
Spiked Amount 40.000			Recovery	=	99.50%	
65) #4-Bromofluorobenzene	12.30	95	232534	36.97	ug/L	0.00
Spiked Amount 40.000			Recovery	=	92.42%	

Target Compounds						Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.		
3) chloromethane	0.00	50	0	N.D.		
4) vinyl chloride	0.00	62	0	N.D.		
5) bromomethane	0.00	94	0	N.D.		
6) chloroethane	0.00	64	0	N.D.		
7) dichlorofluoromethane	0.00	67	0	N.D.		
8) trichlorofluoromethane	0.00	101	0	N.D.		
9) ethyl ether	0.00	74	0	N.D.		
10) acrolein	0.00	56	0	N.D.		
11) 1,1,2-trichloro-1,2,2-trif	0.00	101	0	N.D.		
12) 1,1-dichloroethene	0.00	96	0	~~N.D.~~		
13) acetone	2.44	43	18230	✓ 20.49	ug/L	88
14) iodomethane	0.00	142	0	N.D.		
15) carbon disulfide	0.00	76	0	N.D.		
16) methyl acetate	2.77	43	3268	✓ 1.64	ug/L #	60
17) methylene chloride	2.86	49	1590	Below Cal	#	69
18) acrylonitrile	0.00	53	0	N.D.		
19) trans-1,2-dichloroethene	0.00	96	0	N.D.		
20) methyl (tert) butyl ether	0.00	73	0	N.D.		
21) 1,1-dichloroethane	0.00	63	0	N.D.		
22) vinyl acetate	0.00	43	0	N.D.		
23) 2,2-dichloropropane	0.00	77	0	N.D.		
24) cis-1,2-dichloroethene	0.00	96	0	N.D.		
25) 2-butanone (MEK)	0.00	43	0	N.D.		
26) bromochloromethane	0.00	49	0	N.D.		
27) tetrahydrofuran	0.00	71	0	N.D.		
28) chloroform	0.00	83	0	N.D.		
30) 1,1,1-trichloroethane	0.00	97	0	N.D.		
31) cyclohexane	0.00	56	0	N.D.		
32) carbon tetrachloride	0.00	117	0	N.D.		
33) 1,1-dichloropropene	0.00	75	0	N.D.		
34) benzene	0.00	78	0	N.D.		
35) 1,2-dichloroethane	0.00	62	0	N.D.		
36) heptane	6.60	57	16837	No Calib	#	
38) trichloroethene	0.00	130	0	N.D.		
39) methylcyclohexane	0.00	83	0	N.D.		
40) 1,2-dichloropropane	0.00	63	0	N.D.		
41) dibromomethane	0.00	93	0	N.D.		

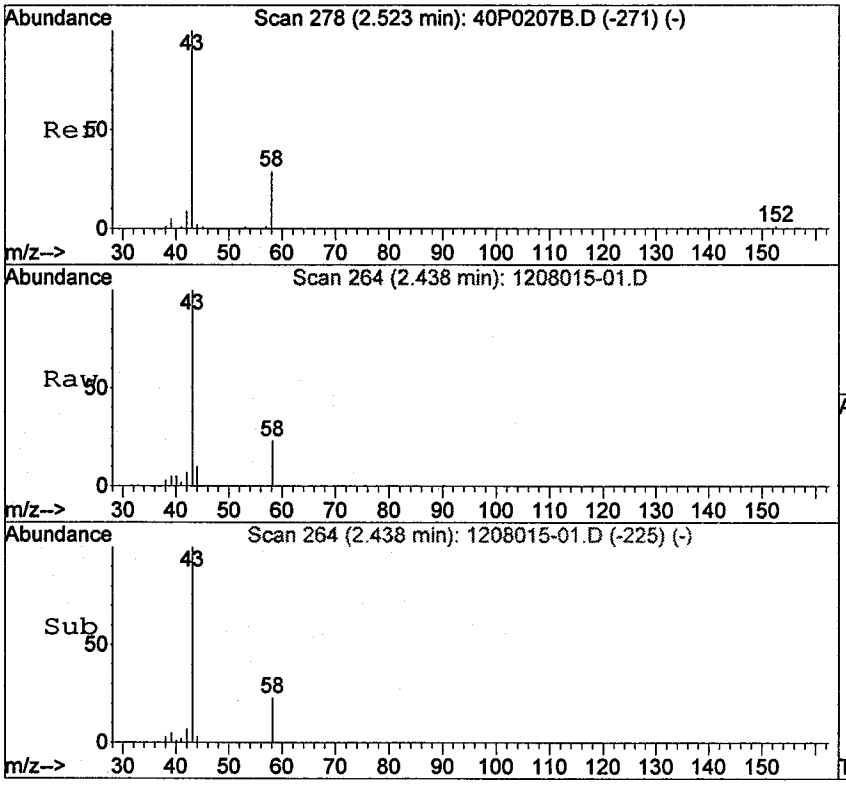
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208015-01.D
Acq On : 6 Aug 2012 11:17
Operator : DLV
Sample : 1208015-01
Misc : TECH LAW
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 06 11:36:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	0.00	83	0	N.D.	
44) 2-chloroethyl vinyl ether	0.00	63	0	N.D.	
45) cis-1,3-dichloropropene	0.00	75	0	N.D.	
46) 4-methyl-2-pentanone (MIBK	0.00	43	0	N.D.	
48) toluene	0.00	91	0	N.D.	
49) trans-1,3-dichloropropene	0.00	75	0	N.D.	
50) 1,1,2-trichloroethane	0.00	83	0	N.D.	
52) tetrachloroethene	0.00	166	0	N.D.	
53) 1,3-dichloropropane	0.00	76	0	N.D.	
54) 2-hexanone (MBK)	0.00	43	0	N.D.	
55) dibromochloromethane	0.00	129	0	N.D.	
56) 1,2-dibromoethane	0.00	109	0	N.D.	
57) chlorobenzene	0.00	112	0	N.D.	
58) 1-chlorohexane	10.79	55	3984	1.07 ug/L #	1
59) 1,1,1,2-tetrachloroethane	0.00	131	0	N.D.	
60) ethylbenzene	0.00	91	0	N.D.	
61) m+p-xylene	0.00	106	0	N.D.	
62) o-xylene	0.00	106	0	N.D.	
63) styrene	0.00	104	0	N.D.	
64) bromoform	0.00	173	0	N.D.	
67) isopropylbenzene	0.00	105	0	N.D.	
68) bromobenzene	0.00	77	0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.00	83	0	N.D.	
70) 1,2,3-trichloropropane	0.00	110	0	N.D.	
71) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
72) n-propylbenzene	0.00	120	0	N.D.	
73) 2-chlorotoluene	0.00	126	0	N.D.	
74) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
75) 4-chlorotoluene	0.00	126	0	N.D.	
76) tert-butylbenzene	0.00	119	0	N.D.	
77) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
78) sec-butylbenzene	0.00	105	0	N.D.	
79) 1,3-dichlorobenzene	0.00	146	0	N.D.	
80) 4-isopropyltoluene	0.00	119	0	N.D.	
81) 1,4-dichlorobenzene	0.00	146	0	N.D.	
82) 1,2-dichlorobenzene	0.00	146	0	N.D.	
83) n-butylbenzene	0.00	91	0	N.D.	
84) hexachloroethane	0.00	201	0	N.D.	
85) 1,2-dibromo-3-chloropropan	0.00	157	0	N.D.	
86) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
87) hexachlorobutadiene	0.00	225	0	N.D.	
88) naphthalene	0.00	128	0	N.D.	
89) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
90) 2-methylnaphthalene	0.00	142	0	N.D.	

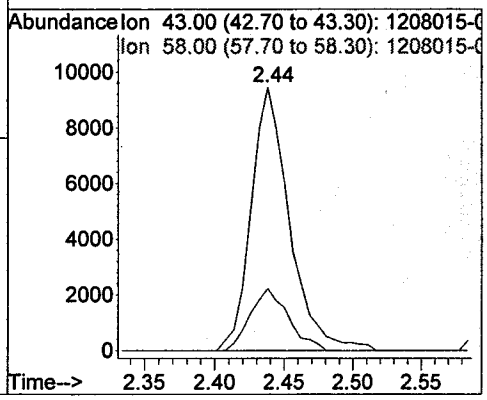
(#) = qualifier out of range (m) = manual integration (+) = signals summed

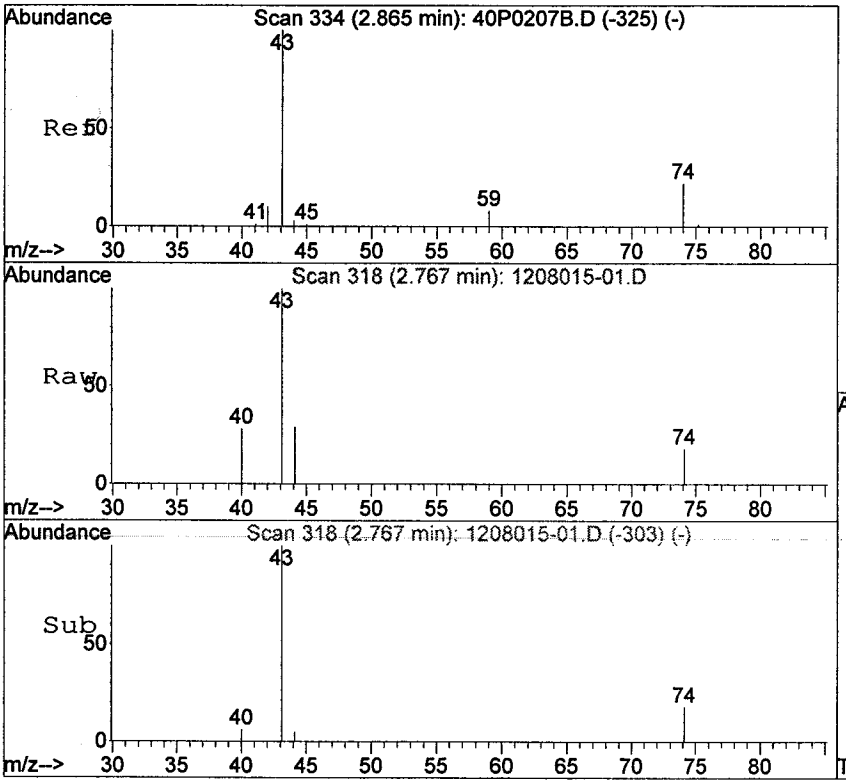


#13
acetone
Concen: 20.49 ug/L
RT: 2.44 min Scan# 264
Delta R.T. -0.01 min
Lab File: 1208015-01.D
Acq: 6 Aug 2012 11:17

Tgt Ion: 43 Resp: 18230

Ion	Ratio	Lower	Upper
43	100		
58	23.4	9.7	49.7

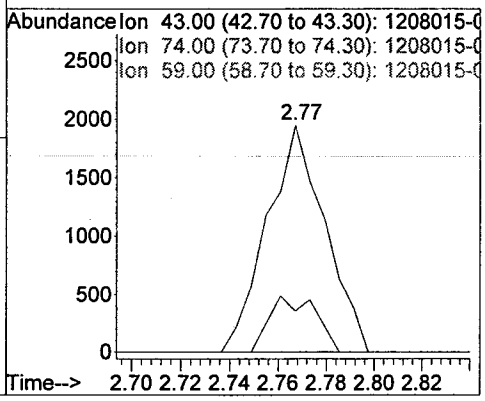




#16
methyl acetate
Concen: 1.64 ug/L
RT: 2.77 min Scan# 318
Delta R.T. -0.01 min
Lab File: 1208015-01.D
Acq: 6 Aug 2012 11:17

Tgt Ion: 43 Resp: 3268

Ion	Ratio	Lower	Upper
43	100		
74	0.0	1.9	41.9#
59	0.0	0.0	27.7



ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106035

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208015-02 File ID: 1208015-02.D

Sampled: 07/31/12 12:00 Prepared: 08/06/12 08:00 Analyzed: 08/06/12 11:43

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209584 Sequence: 2H07013 Calibration: 2H01006 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	1.8	1.1	5.0	**JB**
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	1.6	0.42	5.0	**J**
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106035

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512
Client: TechLaw Project: KNM
Matrix: Water Laboratory ID: 1208015-02 File ID: 1208015-02.D
Sampled: 07/31/12 12:00 Prepared: 08/06/12 08:00 Analyzed: 08/06/12 11:43
Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL
QC Batch: 1209584 Sequence: 2H07013 Calibration: 2H01006 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.7	104	85 - 118	
1,2-Dichloroethane-d4	40.0	42.8	107	87 - 122	
Toluene-d8	40.0	40.2	101	85 - 113	
4-Bromofluorobenzene	40.0	41.5	104	82 - 110	

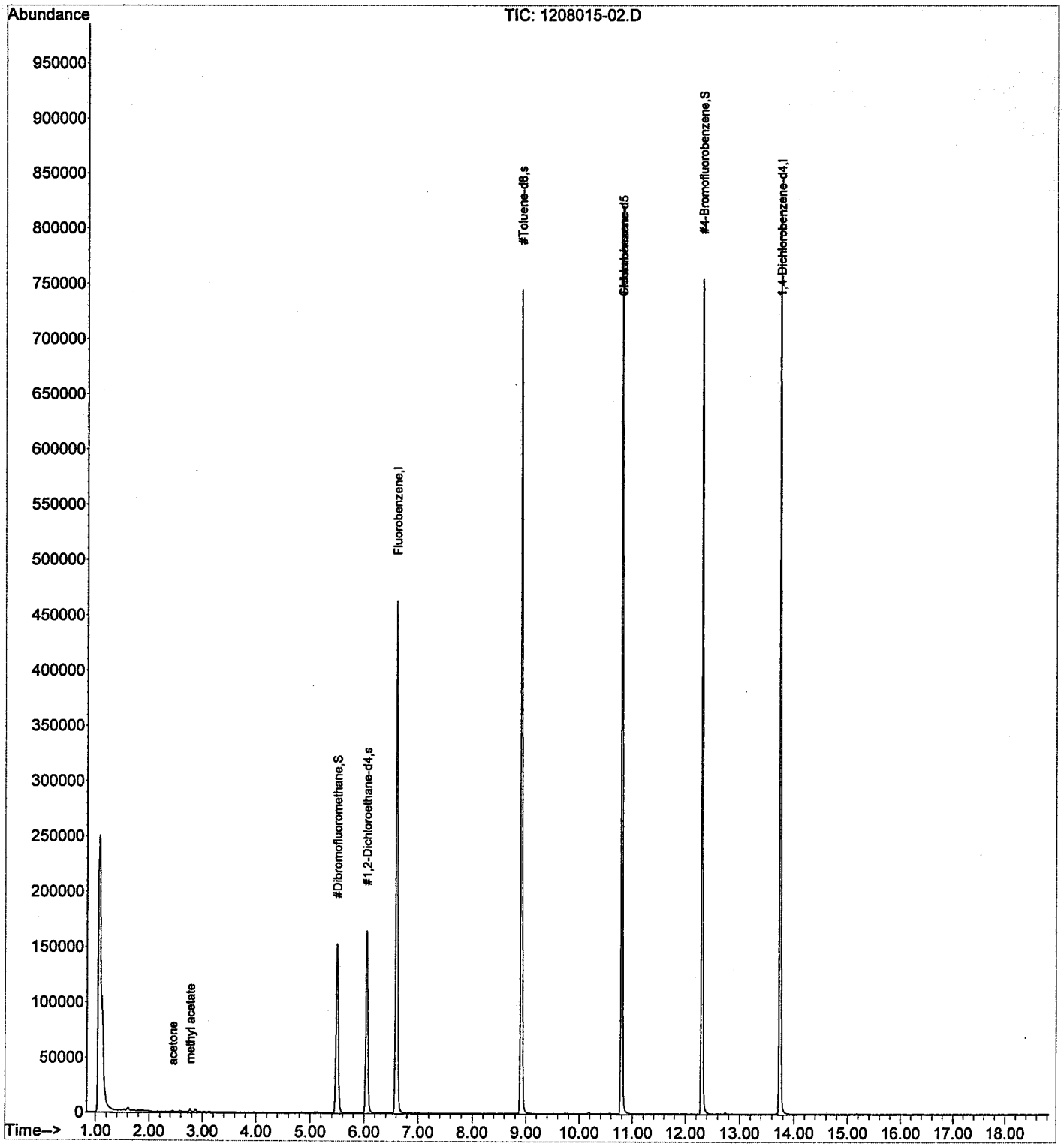
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	525201	6.6	83	6.6	
Chlorobenzene-d5	484111	10.8	84	10.8	
1,4-Dichlorobenzene-d4	260918	13.75	73	13.75	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208015-02.D
Acq On : 6 Aug 2012 11:43
Operator : DLV
Sample : 1208015-02
Misc : TECH LAW
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 12:02:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration



00978

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208015-02.D
Acq On : 6 Aug 2012 11:43
Operator : DLV
Sample : 1208015-02
Misc : TECH LAW
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 12:02:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.60	96	525201	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	484111	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	260918	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	133078	41.66 ug/L	0.00
Spiked Amount 40.000			Recovery	= 104.15%	
37) #1,2-Dichloroethane-d4	6.05	65	163899	42.81 ug/L	0.00
Spiked Amount 40.000			Recovery	= 107.03%	
47) #Toluene-d8	8.91	98	542247	40.25 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.63%	
65) #4-Bromofluorobenzene	12.30	95	253766	41.52 ug/L	0.00
Spiked Amount 40.000			Recovery	= 103.80%	

Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	
3) chloromethane	0.00	50	0	N.D.	
4) vinyl chloride	0.00	62	0	N.D.	
5) bromomethane	0.00	94	0	N.D.	
6) chloroethane	0.00	64	0	N.D.	
7) dichlorofluoromethane	0.00	67	0	N.D.	
8) trichlorofluoromethane	0.00	101	0	N.D.	
9) ethyl ether	0.00	74	0	N.D.	
10) acrolein	0.00	56	0	N.D.	
11) 1,1,2-trichloro-1,2,2-trif	0.00	101	0	N.D.	
12) 1,1-dichloroethene	0.00	96	0	N.D.	
13) acetone	2.44	43	1551	✓ 1.78 ug/L #	45
14) iodomethane	0.00	142	0	N.D.	
15) carbon disulfide	0.00	76	0	N.D.	
16) methyl acetate	2.77	43	3149	✓ 1.62 ug/L #	60
17) methylene chloride	2.87	49	1821	Below Cal #	66
18) acrylonitrile	0.00	53	0	N.D.	
19) trans-1,2-dichloroethene	0.00	96	0	N.D.	
20) methyl (tert) butyl ether	0.00	73	0	N.D.	
21) 1,1-dichloroethane	0.00	63	0	N.D.	
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	0.00	77	0	N.D.	
24) cis-1,2-dichloroethene	0.00	96	0	N.D.	
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	0.00	49	0	N.D.	
27) tetrahydrofuran	0.00	71	0	N.D.	
28) chloroform	0.00	83	0	N.D.	
30) 1,1,1-trichloroethane	0.00	97	0	N.D.	
31) cyclohexane	0.00	56	0	N.D.	
32) carbon tetrachloride	0.00	117	0	N.D.	
33) 1,1-dichloropropene	0.00	75	0	N.D.	
34) benzene	0.00	78	0	N.D.	
35) 1,2-dichloroethane	0.00	62	0	N.D.	
36) heptane	6.60	57	16913	No Calib #	
38) trichloroethene	0.00	130	0	N.D.	
39) methylcyclohexane	0.00	83	0	N.D.	
40) 1,2-dichloropropane	0.00	63	0	N.D.	
41) dibromomethane	0.00	93	0	N.D.	

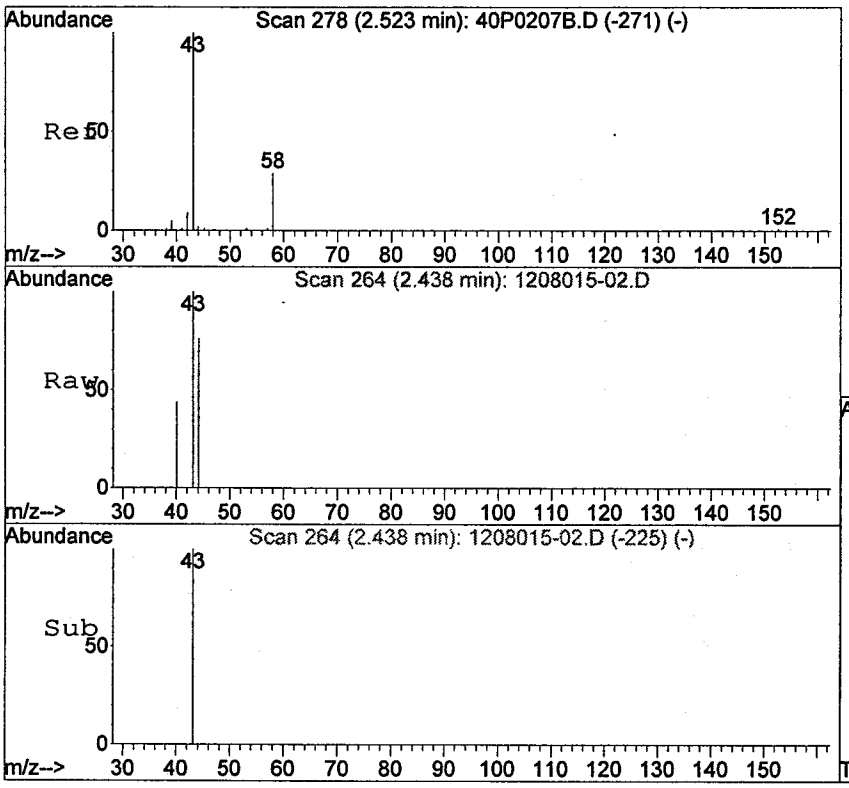
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208015-02.D
Acq On : 6 Aug 2012 11:43
Operator : DLV
Sample : 1208015-02
Misc : TECH LAW
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 06 12:02:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	0.00	83	0	N.D.	
44) 2-chloroethyl vinyl ether	0.00	63	0	N.D.	
45) cis-1,3-dichloropropene	0.00	75	0	N.D.	
46) 4-methyl-2-pentanone (MIBK	0.00	43	0	N.D.	
48) toluene	0.00	91	0	N.D.	
49) trans-1,3-dichloropropene	0.00	75	0	N.D.	
50) 1,1,2-trichloroethane	0.00	83	0	N.D.	
52) tetrachloroethene	0.00	166	0	N.D.	
53) 1,3-dichloropropane	0.00	76	0	N.D.	
54) 2-hexanone (MBK)	0.00	43	0	N.D.	
55) dibromochloromethane	0.00	129	0	N.D.	
56) 1,2-dibromoethane	0.00	109	0	N.D.	
57) chlorobenzene	0.00	112	0	N.D.	
58) 1-chlorohexane	10.80	55	3841	1.06 ug/L #	1
59) 1,1,1,2-tetrachloroethane	0.00	131	0	N.D.	
60) ethylbenzene	0.00	91	0	N.D.	
61) m+p-xylene	0.00	106	0	N.D.	
62) o-xylene	0.00	106	0	N.D.	
63) styrene	0.00	104	0	N.D.	
64) bromoform	0.00	173	0	N.D.	
67) isopropylbenzene	0.00	105	0	N.D.	
68) bromobenzene	0.00	77	0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.00	83	0	N.D.	
70) 1,2,3-trichloropropane	0.00	110	0	N.D.	
71) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
72) n-propylbenzene	0.00	120	0	N.D.	
73) 2-chlorotoluene	0.00	126	0	N.D.	
74) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
75) 4-chlorotoluene	0.00	126	0	N.D.	
76) tert-butylbenzene	0.00	119	0	N.D.	
77) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
78) sec-butylbenzene	0.00	105	0	N.D.	
79) 1,3-dichlorobenzene	0.00	146	0	N.D.	
80) 4-isopropyltoluene	0.00	119	0	N.D.	
81) 1,4-dichlorobenzene	0.00	146	0	N.D.	
82) 1,2-dichlorobenzene	0.00	146	0	N.D.	
83) n-butylbenzene	0.00	91	0	N.D.	
84) hexachloroethane	0.00	201	0	N.D.	
85) 1,2-dibromo-3-chloropropan	0.00	157	0	N.D.	
86) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
87) hexachlorobutadiene	0.00	225	0	N.D.	
88) naphthalene	0.00	128	0	N.D.	
89) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
90) 2-methylnaphthalene	0.00	142	0	N.D.	

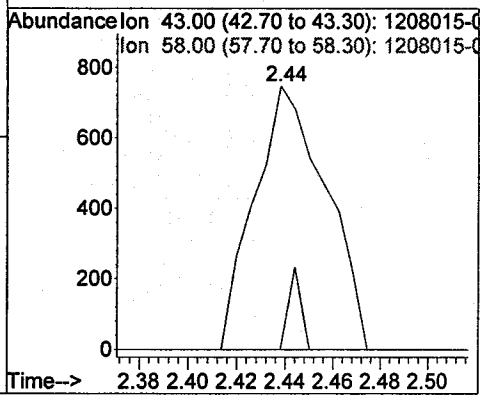
(#) = qualifier out of range (m) = manual integration (+) = signals summed

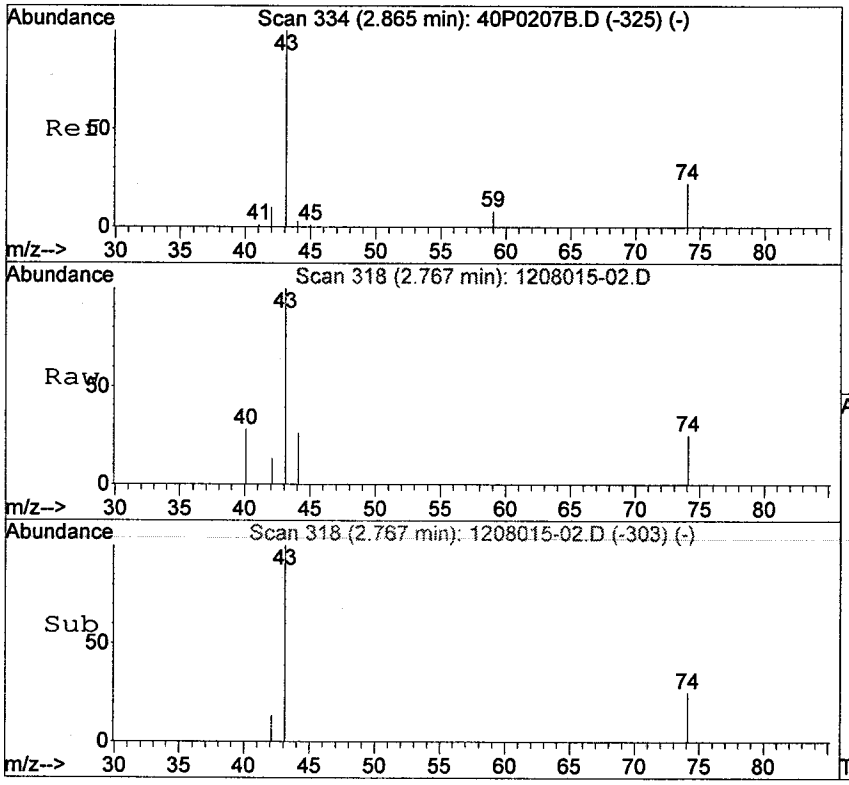


#13
acetone
Concen: 1.78 ug/L
RT: 2.44 min Scan# 264
Delta R.T. -0.01 min
Lab File: 1208015-02.D
Acq: 6 Aug 2012 11:43

Tgt Ion: 43 Resp: 1551

Ion	Ratio	Lower	Upper
43	100		
58	0.0	9.7	49.7#

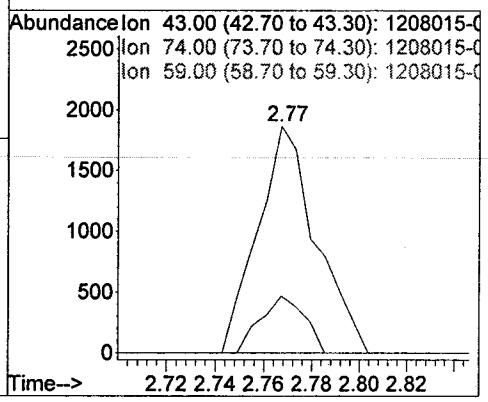




#16
methyl acetate
Concen: 1.62 ug/L
RT: 2.77 min Scan# 318
Delta R.T. -0.01 min
Lab File: 1208015-02.D
Acq: 6 Aug 2012 11:43

Tgt Ion: 43 Resp: 3149

Ion	Ratio	Lower	Upper
43	100		
74	0.0	1.9	41.9#
59	0.0	0.0	27.7



ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106036

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208015-03 File ID: 1208015-03.D

Sampled: 07/31/12 14:30 Prepared: 08/06/12 08:00 Analyzed: 08/06/12 12:10

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209584 Sequence: 2H07013 Calibration: 2H01006 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	2.6	1.1	5.0	**JB**
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	1.5	0.42	5.0	**J**
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106036

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208015-03 File ID: 1208015-03.D

Sampled: 07/31/12 14:30 Prepared: 08/06/12 08:00 Analyzed: 08/06/12 12:10

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209584 Sequence: 2H07013 Calibration: 2H01006 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	44.0	110	85 - 118	
1,2-Dichloroethane-d4	40.0	44.8	112	87 - 122	
Toluene-d8	40.0	40.3	101	85 - 113	
4-Bromofluorobenzene	40.0	40.2	100	82 - 110	

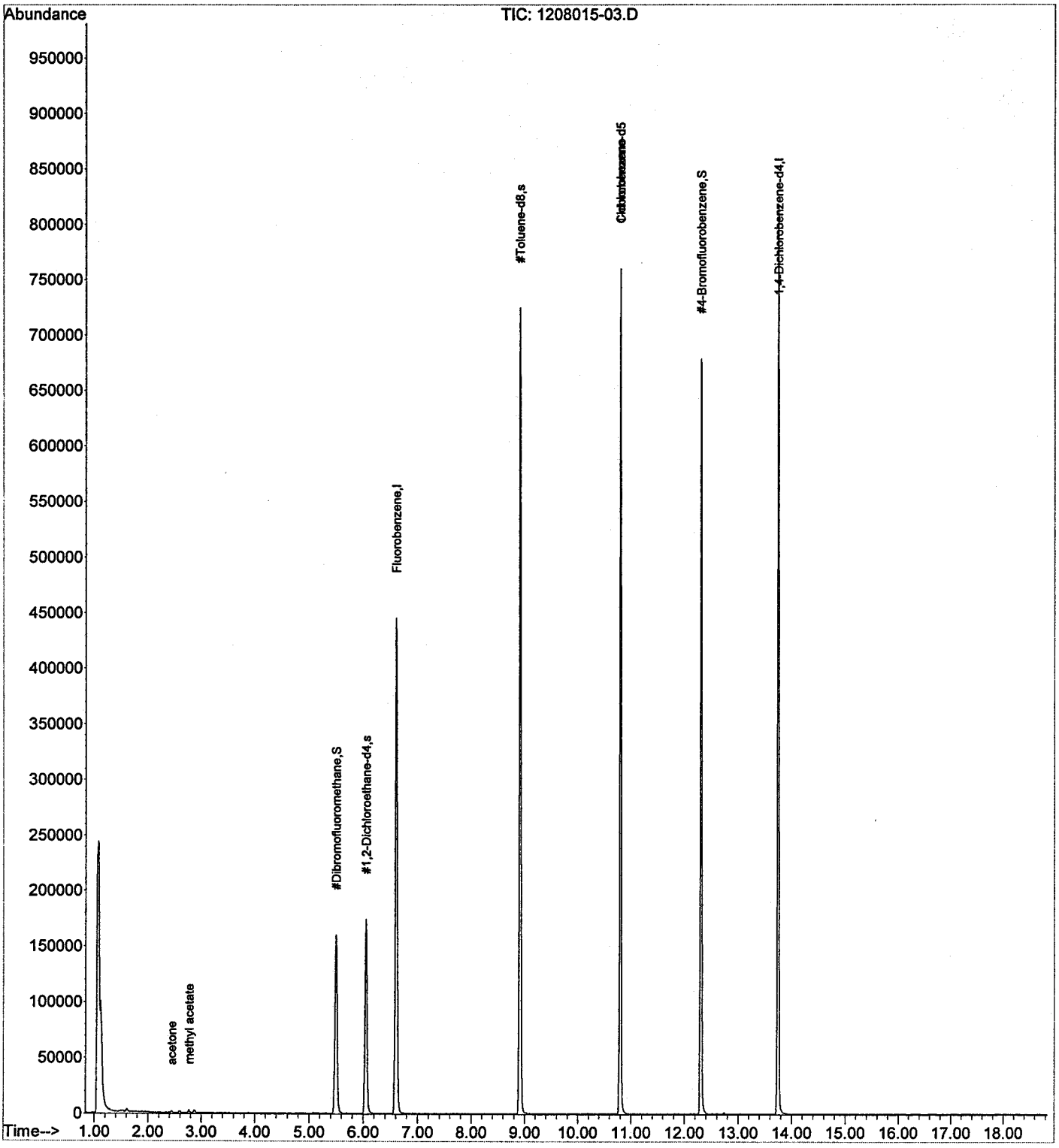
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	515693	6.6	81	6.6	
Chlorobenzene-d5	450676	10.8	78	10.8	
1,4-Dichlorobenzene-d4	258927	13.75	72	13.75	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208015-03.D
Acq On : 6 Aug 2012 12:10
Operator : DLV
Sample : 1208015-03
Misc : TECH LAW
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 06 12:29:31 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208015-03.D
Acq On : 6 Aug 2012 12:10
Operator : DLV
Sample : 1208015-03
Misc : TECH LAW
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 06 12:29:31 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.60	96	515693	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	450676	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	258927	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.50	111	137933	43.97	ug/L	0.00
Spiked Amount 40.000			Recovery	=	109.93%	
37) #1,2-Dichloroethane-d4	6.05	65	168196	44.75	ug/L	0.00
Spiked Amount 40.000			Recovery	=	111.87%	
47) #Toluene-d8	8.91	98	533189	40.31	ug/L	0.00
Spiked Amount 40.000			Recovery	=	100.78%	
65) #4-Bromofluorobenzene	12.30	95	228730	40.20	ug/L	0.00
Spiked Amount 40.000			Recovery	=	100.50%	

Target Compounds						Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.		
3) chloromethane	0.00	50	0	N.D.		
4) vinyl chloride	0.00	62	0	N.D.		
5) bromomethane	0.00	94	0	N.D.		
6) chloroethane	0.00	64	0	N.D.		
7) dichlorofluoromethane	0.00	67	0	N.D.		
8) trichlorofluoromethane	0.00	101	0	N.D.		
9) ethyl ether	0.00	74	0	N.D.		
10) acrolein	0.00	56	0	N.D.		
11) 1,1,2-trichloro-1,2,2-trif	0.00	101	0	N.D.		
12) 1,1-dichloroethene	0.00	96	0	N.D.		
13) acetone	2.44	43	2221	✓ 2.60	ug/L #	45
14) iodomethane	0.00	142	0	N.D.		
15) carbon disulfide	0.00	76	0	N.D.		
16) methyl acetate	2.77	43	2834	✓ 1.48	ug/L #	60
17) methylene chloride	2.87	49	1852	Below Cal	#	67
18) acrylonitrile	0.00	53	0	N.D.		
19) trans-1,2-dichloroethene	0.00	96	0	N.D.		
20) methyl (tert) butyl ether	0.00	73	0	N.D.		
21) 1,1-dichloroethane	0.00	63	0	N.D.		
22) vinyl acetate	0.00	43	0	N.D.		
23) 2,2-dichloropropane	0.00	77	0	N.D.		
24) cis-1,2-dichloroethene	0.00	96	0	N.D.		
25) 2-butanone (MEK)	0.00	43	0	N.D.		
26) bromochloromethane	0.00	49	0	N.D.		
27) tetrahydrofuran	0.00	71	0	N.D.		
28) chloroform	0.00	83	0	N.D.		
30) 1,1,1-trichloroethane	0.00	97	0	N.D.		
31) cyclohexane	0.00	56	0	N.D.		
32) carbon tetrachloride	0.00	117	0	N.D.		
33) 1,1-dichloropropene	0.00	75	0	N.D.		
34) benzene	0.00	78	0	N.D.		
35) 1,2-dichloroethane	0.00	62	0	N.D.		
36) heptane	6.61	57	16246	No Calib	#	
38) trichloroethene	0.00	130	0	N.D.		
39) methylcyclohexane	0.00	83	0	N.D.		
40) 1,2-dichloropropane	0.00	63	0	N.D.		
41) dibromomethane	0.00	93	0	N.D.		

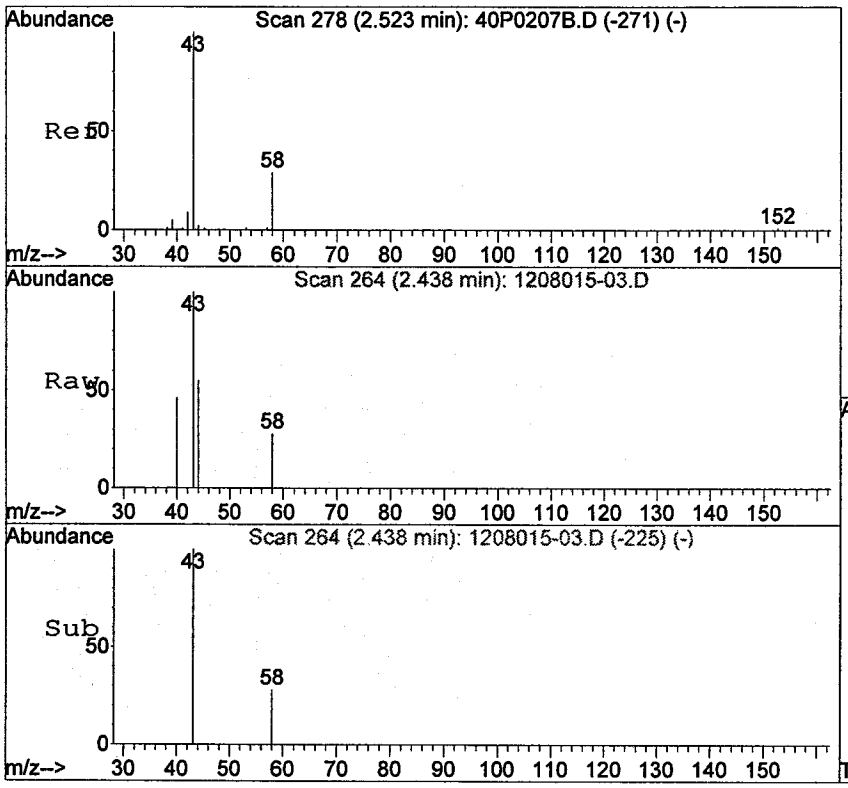
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208015-03.D
Acq On : 6 Aug 2012 12:10
Operator : DLV
Sample : 1208015-03
Misc : TECH LAW
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 06 12:29:31 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	0.00	83	0	N.D.	
44) 2-chloroethyl vinyl ether	0.00	63	0	N.D.	
45) cis-1,3-dichloropropene	0.00	75	0	N.D.	
46) 4-methyl-2-pentanone (MIBK	0.00	43	0	N.D.	
48) toluene	0.00	91	0	N.D.	
49) trans-1,3-dichloropropene	0.00	75	0	N.D.	
50) 1,1,2-trichloroethane	0.00	83	0	N.D.	
52) tetrachloroethene	0.00	166	0	N.D.	
53) 1,3-dichloropropane	0.00	76	0	N.D.	
54) 2-hexanone (MBK)	0.00	43	0	N.D.	
55) dibromochloromethane	0.00	129	0	N.D.	
56) 1,2-dibromoethane	0.00	109	0	N.D.	
57) chlorobenzene	0.00	112	0	N.D.	
58) 1-chlorohexane	10.80	55	3723	1.10 ug/L #	1
59) 1,1,1,2-tetrachloroethane	0.00	131	0	N.D.	
60) ethylbenzene	0.00	91	0	N.D.	
61) m+p-xylene	0.00	106	0	N.D.	
62) o-xylene	0.00	106	0	N.D.	
63) styrene	0.00	104	0	N.D.	
64) bromoform	0.00	173	0	N.D.	
67) isopropylbenzene	0.00	105	0	N.D.	
68) bromobenzene	0.00	77	0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.00	83	0	N.D.	
70) 1,2,3-trichloropropane	0.00	110	0	N.D.	
71) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
72) n-propylbenzene	0.00	120	0	N.D.	
73) 2-chlorotoluene	0.00	126	0	N.D.	
74) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
75) 4-chlorotoluene	0.00	126	0	N.D.	
76) tert-butylbenzene	0.00	119	0	N.D.	
77) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
78) sec-butylbenzene	0.00	105	0	N.D.	
79) 1,3-dichlorobenzene	0.00	146	0	N.D.	
80) 4-isopropyltoluene	0.00	119	0	N.D.	
81) 1,4-dichlorobenzene	0.00	146	0	N.D.	
82) 1,2-dichlorobenzene	0.00	146	0	N.D.	
83) n-butylbenzene	0.00	91	0	N.D.	
84) hexachloroethane	0.00	201	0	N.D.	
85) 1,2-dibromo-3-chloropropan	0.00	157	0	N.D.	
86) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
87) hexachlorobutadiene	0.00	225	0	N.D.	
88) naphthalene	0.00	128	0	N.D.	
89) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
90) 2-methylnaphthalene	0.00	142	0	N.D.	

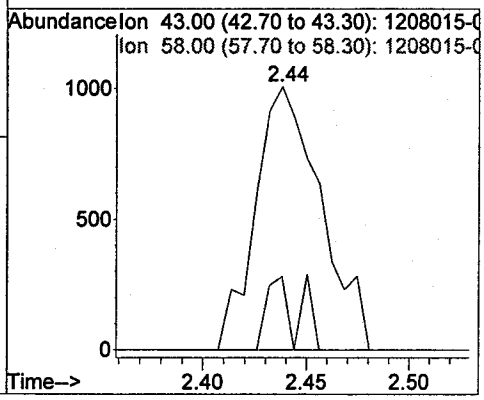
(#) = qualifier out of range (m) = manual integration (+) = signals summed

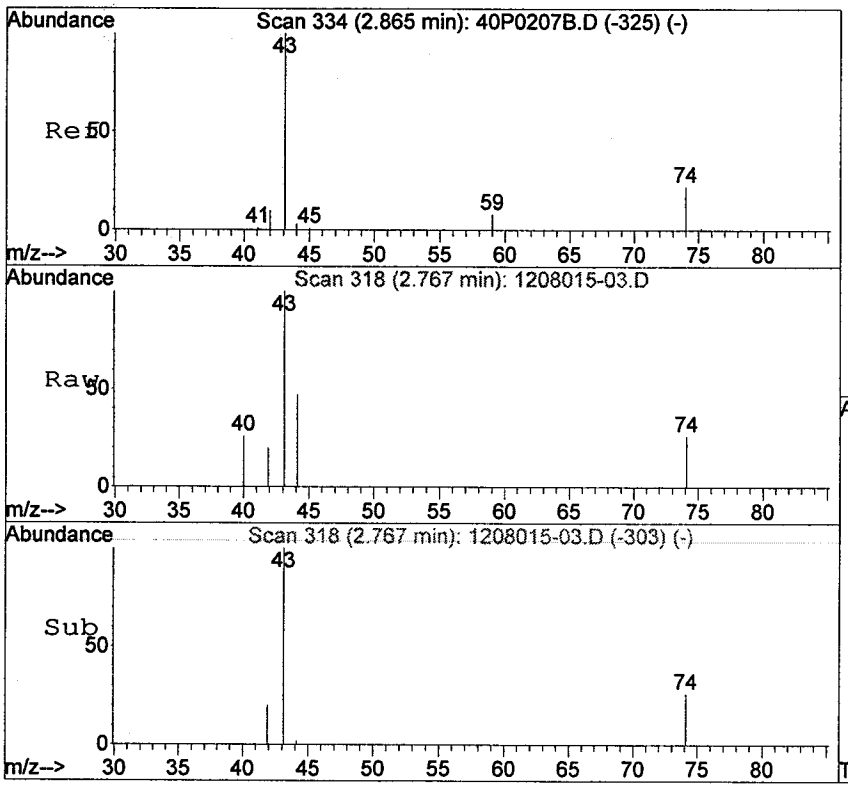


#13
acetone
Concen: 2.60 ug/L
RT: 2.44 min Scan# 264
Delta R.T. -0.01 min
Lab File: 1208015-03.D
Acq: 6 Aug 2012 12:10

Tgt Ion: 43 Resp: 2221

Ion	Ratio	Lower	Upper
43	100		
58	0.0	9.7	49.7#

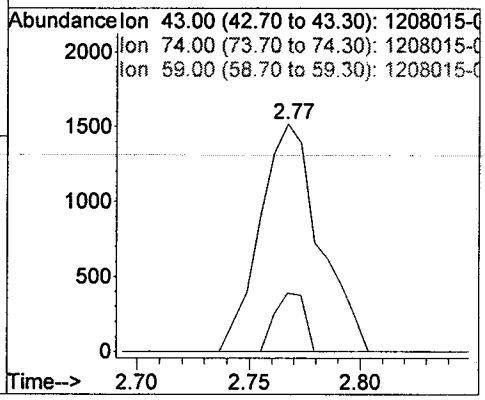




#16
methyl acetate
Concen: 1.48 ug/L
RT: 2.77 min Scan# 318
Delta R.T. -0.01 min
Lab File: 1208015-03.D
Acq: 6 Aug 2012 12:10

Tgt Ion: 43 Resp: 2834

Ion	Ratio	Lower	Upper
43	100		
74	0.0	1.9	41.9#
59	0.0	0.0	27.7



ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106037

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208057-01 File ID: 1208057-01.D

Sampled: 08/01/12 09:45 Prepared: 08/06/12 08:00 Analyzed: 08/06/12 12:37

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209584 Sequence: 2H07013 Calibration: 2H01006 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	5.0	1.1	5.0	U
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	1.9	0.42	5.0	**J**
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106037

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208057-01 File ID: 1208057-01.D

Sampled: 08/01/12 09:45 Prepared: 08/06/12 08:00 Analyzed: 08/06/12 12:37

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209584 Sequence: 2H07013 Calibration: 2H01006 Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	42.6	106	85 - 118	
1,2-Dichloroethane-d4	40.0	43.2	108	87 - 122	
Toluene-d8	40.0	39.8	100	85 - 113	
4-Bromofluorobenzene	40.0	39.7	99	82 - 110	

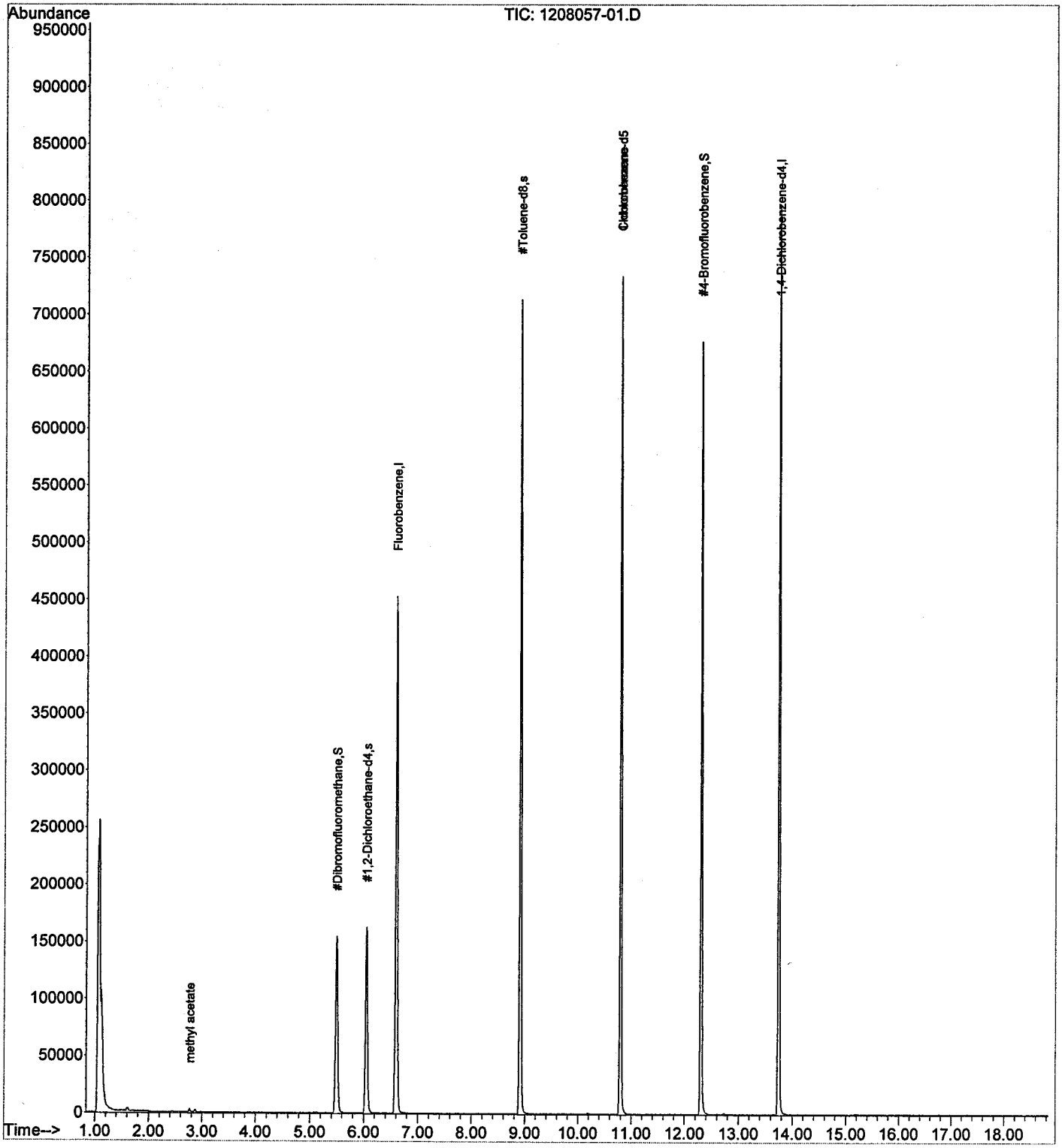
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	512347	6.6	81	6.6	
Chlorobenzene-d5	445133	10.8	77	10.8	
1,4-Dichlorobenzene-d4	250542	13.75	70	13.75	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208057-01.D
Acq On : 6 Aug 2012 12:37
Operator : DLV
Sample : 1208057-01
Misc : TECH LAW
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 06 12:56:15 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208057-01.D
Acq On : 6 Aug 2012 12:37
Operator : DLV
Sample : 1208057-01
Misc : TECH LAW
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 06 12:56:15 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.60	96	512347	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	445133	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	250542	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	132734	42.59 ug/L	0.00
Spiked Amount 40.000			Recovery	= 106.48%	
37) #1,2-Dichloroethane-d4	6.05	65	161514	43.25 ug/L	0.00
Spiked Amount 40.000			Recovery	= 108.13%	
47) #Toluene-d8	8.91	98	523204	39.81 ug/L	0.00
Spiked Amount 40.000			Recovery	= 99.53%	
65) #4-Bromofluorobenzene	12.30	95	223250	39.72 ug/L	0.00
Spiked Amount 40.000			Recovery	= 99.30%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	
3) chloromethane	0.00	50	0	N.D.	
4) vinyl chloride	0.00	62	0	N.D.	
5) bromomethane	0.00	94	0	N.D.	
6) chloroethane	0.00	64	0	N.D.	
7) dichlorofluoromethane	0.00	67	0	N.D.	
8) trichlorofluoromethane	0.00	101	0	N.D.	
9) ethyl ether	0.00	74	0	N.D.	
10) acrolein	0.00	56	0	N.D.	
11) 1,1,2-trichloro-1,2,2-trif	0.00	101	0	N.D.	
12) 1,1-dichloroethene	0.00	96	0	N.D.	
13) acetone	0.00	43	0	N.D.	
14) iodomethane	0.00	142	0	N.D.	
15) carbon disulfide	0.00	76	0	N.D.	
16) methyl acetate	2.77	43	3526	1.86 ug/L #	60
17) methylene chloride	2.88	49	1480	Below Cal #	68
18) acrylonitrile	0.00	53	0	N.D.	
19) trans-1,2-dichloroethene	0.00	96	0	N.D.	
20) methyl (tert) butyl ether	0.00	73	0	N.D.	
21) 1,1-dichloroethane	0.00	63	0	N.D.	
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	0.00	77	0	N.D.	
24) cis-1,2-dichloroethene	0.00	96	0	N.D.	
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	0.00	49	0	N.D.	
27) tetrahydrofuran	0.00	71	0	N.D.	
28) chloroform	0.00	83	0	N.D.	
30) 1,1,1-trichloroethane	0.00	97	0	N.D.	
31) cyclohexane	0.00	56	0	N.D.	
32) carbon tetrachloride	0.00	117	0	N.D.	
33) 1,1-dichloropropene	0.00	75	0	N.D.	
34) benzene	0.00	78	0	N.D.	
35) 1,2-dichloroethane	0.00	62	0	N.D.	
36) heptane	6.60	57	16267	No Calib #	
38) trichloroethene	0.00	130	0	N.D.	
39) methylcyclohexane	0.00	83	0	N.D.	
40) 1,2-dichloropropane	0.00	63	0	N.D.	
41) dibromomethane	0.00	93	0	N.D.	

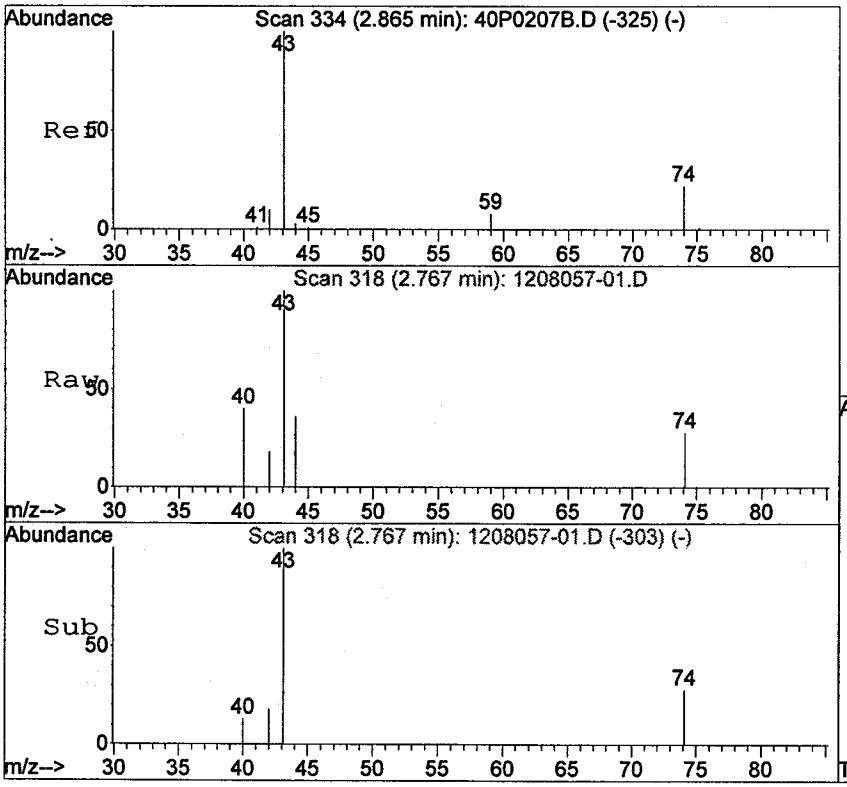
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208057-01.D
Acq On : 6 Aug 2012 12:37
Operator : DLV
Sample : 1208057-01
Misc : TECH LAW
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 06 12:56:15 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	0.00	83	0	N.D.	
44) 2-chloroethyl vinyl ether	0.00	63	0	N.D.	
45) cis-1,3-dichloropropene	0.00	75	0	N.D.	
46) 4-methyl-2-pentanone (MIBK	0.00	43	0	N.D.	
48) toluene	0.00	91	0	N.D.	
49) trans-1,3-dichloropropene	0.00	75	0	N.D.	
50) 1,1,2-trichloroethane	0.00	83	0	N.D.	
52) tetrachloroethene	0.00	166	0	N.D.	
53) 1,3-dichloropropane	0.00	76	0	N.D.	
54) 2-hexanone (MBK)	0.00	43	0	N.D.	
55) dibromochloromethane	0.00	129	0	N.D.	
56) 1,2-dibromoethane	0.00	109	0	N.D.	
57) chlorobenzene	0.00	112	0	N.D.	
58) 1-chlorohexane	10.80	55	3705	1.11 ug/L #	1
59) 1,1,1,2-tetrachloroethane	0.00	131	0	N.D.	
60) ethylbenzene	0.00	91	0	N.D.	
61) m+p-xylene	0.00	106	0	N.D.	
62) o-xylene	0.00	106	0	N.D.	
63) styrene	0.00	104	0	N.D.	
64) bromoform	0.00	173	0	N.D.	
67) isopropylbenzene	0.00	105	0	N.D.	
68) bromobenzene	0.00	77	0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.00	83	0	N.D.	
70) 1,2,3-trichloropropane	0.00	110	0	N.D.	
71) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
72) n-propylbenzene	0.00	120	0	N.D.	
73) 2-chlorotoluene	0.00	126	0	N.D.	
74) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
75) 4-chlorotoluene	0.00	126	0	N.D.	
76) tert-butylbenzene	0.00	119	0	N.D.	
77) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
78) sec-butylbenzene	0.00	105	0	N.D.	
79) 1,3-dichlorobenzene	0.00	146	0	N.D.	
80) 4-isopropyltoluene	0.00	119	0	N.D.	
81) 1,4-dichlorobenzene	0.00	146	0	N.D.	
82) 1,2-dichlorobenzene	0.00	146	0	N.D.	
83) n-butylbenzene	0.00	91	0	N.D.	
84) hexachloroethane	0.00	201	0	N.D.	
85) 1,2-dibromo-3-chloropropan	0.00	157	0	N.D.	
86) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
87) hexachlorobutadiene	0.00	225	0	N.D.	
88) naphthalene	0.00	128	0	N.D.	
89) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
90) 2-methylnaphthalene	0.00	142	0	N.D.	

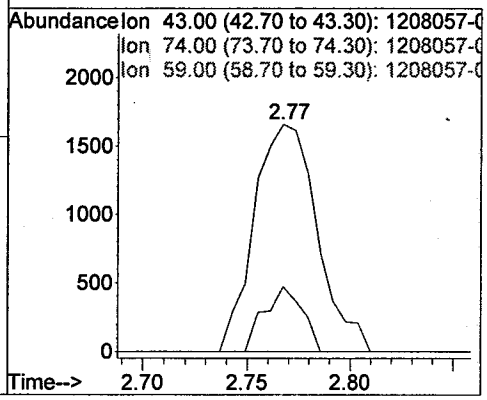
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#16
methyl acetate
Concen: 1.86 ug/L
RT: 2.77 min Scan# 318
Delta R.T. -0.01 min
Lab File: 1208057-01.D
Acq: 6 Aug 2012 12:37

Tgt Ion: 43 Resp: 3526

Ion	Ratio	Lower	Upper
43	100		
74	0.0	1.9	41.9#
59	0.0	0.0	27.7



ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106076

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208169-01 File ID: 1208169-01.D

Sampled: 08/07/12 10:50 Prepared: 08/20/12 08:00 Analyzed: 08/20/12 10:34

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1210102 Sequence: 2H20050 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	100	12000	110	500	
71-43-2	Benzene	100	7400	11	100	
75-27-4	Bromodichloromethane	100	100	13	100	U
75-25-2	Bromoform	100	100	26	100	U
74-83-9	Bromomethane	100	100	21	100	U
75-15-0	Carbon Disulfide	100	500	23	500	U
56-23-5	Carbon Tetrachloride	100	100	26	100	U
108-90-7	Chlorobenzene	100	100	17	100	U
75-00-3	Chloroethane	100	100	14	100	U
67-66-3	Chloroform	100	100	9.8	100	U
74-87-3	Chloromethane	100	100	29	100	U
110-82-7	Cyclohexane	100	120	18	500	J
96-12-8	1,2-Dibromo-3-chloropropane	100	100	13	100	U
124-48-1	Dibromochloromethane	100	100	15	100	U
106-93-4	1,2-Dibromoethane	100	300	15	100	
95-50-1	1,2-Dichlorobenzene	100	100	24	100	U
541-73-1	1,3-Dichlorobenzene	100	100	24	100	U
106-46-7	1,4-Dichlorobenzene	100	100	25	100	U
75-71-8	Dichlorodifluoromethane	100	100	21	100	U
75-34-3	1,1-Dichloroethane	100	100	18	100	U
107-06-2	1,2-Dichloroethane	100	100	21	100	U
75-35-4	1,1-Dichloroethene	100	100	21	100	U
156-59-2	cis-1,2-Dichloroethene	100	100	12	100	U
156-60-5	trans-1,2-Dichloroethene	100	100	20	100	U
78-87-5	1,2-Dichloropropane	100	100	28	100	U
10061-01-5	cis-1,3-Dichloropropene	100	100	19	100	U
10061-02-6	trans-1,3-Dichloropropene	100	100	19	100	U
100-41-4	Ethylbenzene	100	740	21	100	
591-78-6	2-Hexanone	100	820	49	500	
98-82-8	Isopropylbenzene	100	51	22	100	J
79-20-9	Methyl Acetate	100	500	42	500	U
1634-04-4	Methyl tert-Butyl Ether	100	100	19	100	U
108-87-2	Methylcyclohexane	100	51	37	500	J
75-09-2	Methylene Chloride	100	100	24	100	

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106076

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208169-01 File ID: 1208169-01.D

Sampled: 08/07/12 10:50 Prepared: 08/20/12 08:00 Analyzed: 08/20/12 10:34

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1210102 Sequence: 2H20050 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	100	940	63	500	
108-10-1	4-Methyl-2-pentanone (MIBK)	100	370	40	500	J
100-42-5	Styrene	100	100	20	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	100	26	100	U
127-18-4	Tetrachloroethene	100	100	23	100	U
108-88-3	Toluene	100	12000	18	100	
120-82-1	1,2,4-Trichlorobenzene	100	100	13	100	U
71-55-6	1,1,1-Trichloroethane	100	100	14	100	U
79-00-5	1,1,2-Trichloroethane	100	100	20	100	U
79-01-6	Trichloroethene	100	100	21	100	U
75-69-4	Trichlorofluoromethane	100	100	27	100	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	100	100	24	100	U
75-01-4	Vinyl Chloride	100	100	21	100	U
1330-20-7	Xylene (Total)	100	2800	39	300	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.1	98	85 - 118	
1,2-Dichloroethane-d4	40.0	39.1	98	87 - 122	
Toluene-d8	40.0	40.0	100	85 - 113	
4-Bromofluorobenzene	40.0	40.5	101	82 - 110	

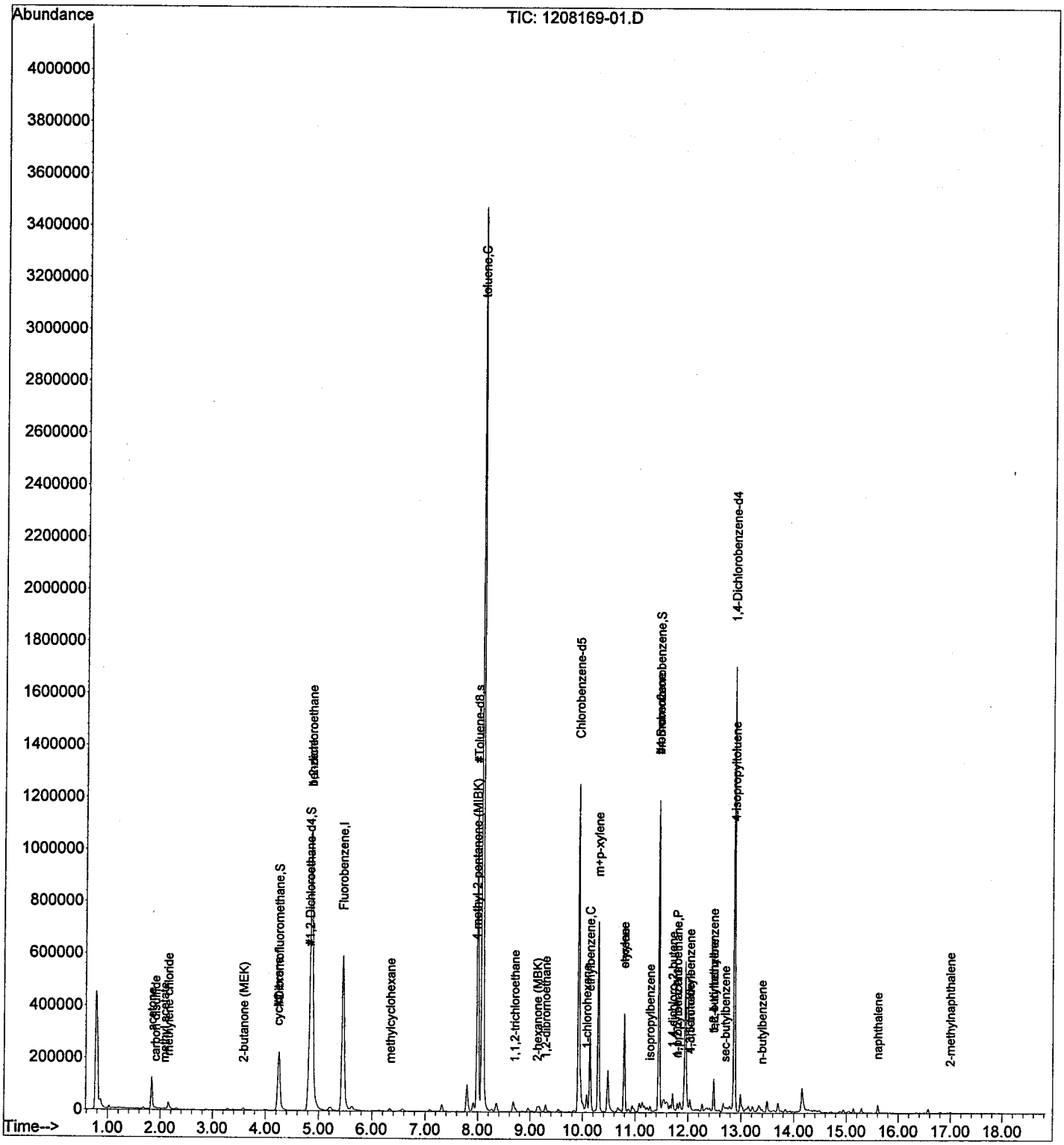
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	895259	5.46	99	5.46	
Chlorobenzene-d5	739627	9.93	101	9.93	
1,4-Dichlorobenzene-d4	479287	12.87	98	12.87	

* Values outside of QC limits

Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-20-12\
Data File : 1208169-01.D
InstName : 323
Acq On : 20 Aug 2012 10:34
Operator : DLV
Sample : 1208169-01
Misc : TECH LAW 100x = 500uL:50mL
ALS Vial : 6 Sample Multiplier: 100

Quant Time: Aug 20 14:15:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration



Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-20-12\
Data File : 1208169-01.D
InstName : 323
Acq On : 20 Aug 2012 10:34
Operator : DLV
Sample : 1208169-01
Misc : TECH LAW 100x = 500uL:50mL
ALS Vial : 6 Sample Multiplier: 100

Quant Time: Aug 20 14:15:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	895259	40.00 ug/L	0.00 85.56%
50) Chlorobenzene-d5	9.93	117	739627	40.00 ug/L	0.00 88.65%
65) 1,4-Dichlorobenzene-d4	12.87	152	479287	40.00 ug/L	0.00 86.46%

System Monitoring Compounds					
30) #Dibromofluoromethane	4.25	111	211928	39.11 ug/L	-0.01
Spiked Amount 40.000			Recovery =	97.78%	
37) #1,2-Dichloroethane-d4	4.82	67	129587	39.06 ug/L	-0.01
Spiked Amount 40.000			Recovery =	97.65%	
46) #Toluene-d8	7.99	98	892366	40.04 ug/L	0.00
Spiked Amount 40.000			Recovery =	100.10%	
64) #4-Bromofluorobenzene	11.45	95	380774	40.51 ug/L	0.00
Spiked Amount 40.000			Recovery =	101.28%	

Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	
3) chloromethane	0.00	50	0	N.D.	
4) vinyl chloride	0.00	62	0	N.D.	
5) bromomethane	0.00	94	0	N.D.	
6) chloroethane	0.00	64	0	N.D.	
7) dichlorofluoromethane	0.00	67	0	N.D.	
8) trichlorofluoromethane	0.00	101	0	N.D.	
9) ethyl ether	0.00	74	0	N.D.	
10) acrolein	0.00	56	0	N.D.	
11) 1,1,2-trichloro-1,2,2-tr	0.00	101	0	N.D.	
12) 1,1-dichloroethene	0.00	96	0	N.D.	
13) acetone	1.84	43	163924	118.35 ug/L	97
14) iodomethane	0.00	142	0	N.D.	
15) carbon disulfide	1.91	76	2343	0.16 ug/L #	75
16) methyl acetate	2.08	43	2839	~~0.82~~ ug/L #	58
17) methylene chloride	2.15	49	14810	1.00 ug/L	96
18) acrylonitrile	0.00	53	0	N.D.	
19) trans-1,2-dichloroethene	0.00	96	0	N.D.	
20) methyl (tert) butyl ethe	0.00	73	0	N.D.	
21) 1,1-dichloroethane	0.00	63	0	N.D.	
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	0.00	77	0	N.D.	
24) cis-1,2-dichloroethene	0.00	96	0	N.D.	
25) 2-butanone (MEK)	3.59	43	17316	9.45 ug/L	93
26) bromochloromethane	0.00	49	0	N.D.	
27) tetrahydrofuran	0.00	71	0	N.D.	
28) chloroform	0.00	83	0	N.D.	
29) 1,1,1-trichloroethane	0.00	97	0	N.D.	
31) cyclohexane	4.23	56	11188	1.23 ug/L	98
32) carbon tetrachloride	0.00	117	0	N.D.	
33) 1,1-dichloropropene	0.00	75	0	N.D.	
34) benzene	4.86	78	1607689	73.89 ug/L	93
35) 1,2-dichloroethane	4.86	62	13856	~~1.99~~ ug/L #	73
36) heptane	0.00	57	0	N.D.	

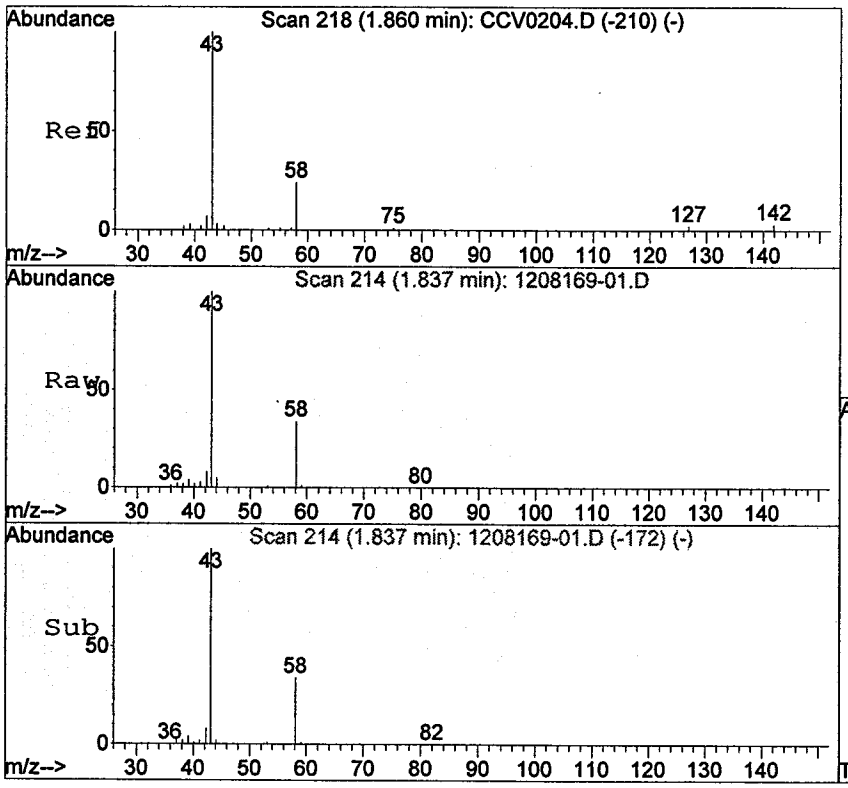
Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-20-12\
Data File : 1208169-01.D
InstName : 323
Acq On : 20 Aug 2012 10:34
Operator : DLV
Sample : 1208169-01
Misc : TECH LAW 100x = 500uL:50mL
ALS Vial : 6 Sample Multiplier: 100

Quant Time: Aug 20 14:15:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
38) trichloroethene	0.00	130	0	N.D.	
39) methylcyclohexane	6.34	83	4590	0.51 ug/L	91
40) 1,2-dichloropropane	0.00	63	0	N.D.	
41) dibromomethane	0.00	93	0	N.D.	
42) bromodichloromethane	0.00	83	0	N.D.	
43) 2-chloroehtyl vinyl ethe	0.00	63	0	N.D.	
44) cis-1,3-dichloropropene	0.00	75	0	N.D.	
45) 4-methyl-2-pentanone (MIBK	7.97	43	15867	3.68 ug/L #	50
47) toluene	8.08	91	2971599	123.20 ug/L	99
48) trans-1,3-dichloropropen	0.00	75	0	N.D.	
49) 1,1,2-trichloroethane	8.71	83	1427	0.42 ug/L #	1
51) tetrachloroethene	0.00	166	0	N.D.	
52) 1,3-dichloropropane	0.00	76	0	N.D.	
53) 2-hexanone (MBK)	9.14	43	21716	8.18 ug/L	90
54) dibromochloromethane	0.00	129	0	N.D.	
55) 1,2-dibromoethane	9.30	109	12318	3.00 ug/L #	98
56) chlorobenzene	0.00	112	0	N.D.	
57) 1-chlorohexane	10.08	55	20573	3.71 ug/L #	1
58) 1,1,1,2-tetrachloroethan	0.00	131	0	N.D.	
59) ethylbenzene	10.14	91	215120	7.42 ug/L	100
60) m+p-xylene	10.30	106	221928	18.39 ug/L	93
61) o-xylene	10.79	106	110342	9.72 ug/L	100
62) styrene	10.79	104	5639	0.28 ug/L #	1
63) bromoform	0.00	173	0	N.D.	
66) isopropylbenzene	11.28	105	13823	0.51 ug/L	100
67) bromobenzene	11.45	77	2609	0.23 ug/L #	12
68) 1,1,2,2-tetrachloroethane	11.80	83	3373	0.61 ug/L #	18
69) 1,2,3-trichloropropane	0.00	110	0	N.D.	
70) 1,4-dichloro-2-butene	11.71	53	3122	1.80 ug/L #	1
71) n-propylbenzene	11.80	120	3994	0.47 ug/L #	83
72) 2-chlorotoluene	0.00	126	0	N.D.	
73) 1,3,5-trimethylbenzene	12.04	105	18806	0.75 ug/L	93
74) 4-chlorotoluene	12.04	91	2938	0.12 ug/L #	42
75) tert-butylbenzene	12.48	119	8271	0.37 ug/L #	51
76) 1,2,4-trimethylbenzene	12.48	105	68266	2.65 ug/L	97
77) sec-butylbenzene	12.69	105	3399	0.11 ug/L #	54
78) 1,3-dichlorobenzene	0.00	146	0	N.D.	
79) 4-isopropyltoluene	12.89	119	2323	0.08 ug/L #	52
80) 1,4-dichlorobenzene	0.00	146	0	N.D.	
81) 1,2-dichlorobenzene	0.00	146	0	N.D.	
82) n-butylbenzene	13.39	91	3617	0.15 ug/L #	33
83) hexachloroethane	0.00	201	0	N.D.	
84) 1,2-dibromo-3-chloroprop	0.00	157	0	N.D.	
85) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
86) hexachlorobutadiene	0.00	225	0	N.D.	
87) naphthalene	15.60	128	23829	1.67 ug/L	97
88) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
89) 2-methylnaphthalene	17.00	142	3596	2.45 ug/L #	82

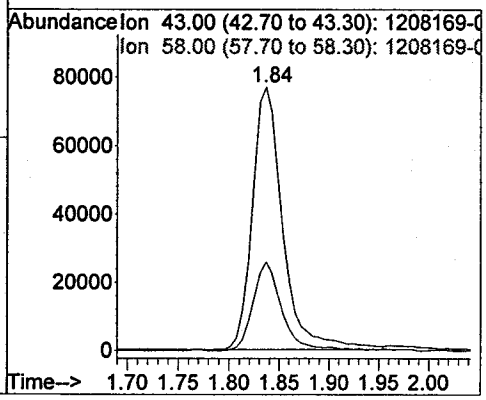
(#) = qualifier out of range (m) = manual integration (+) = signals summed

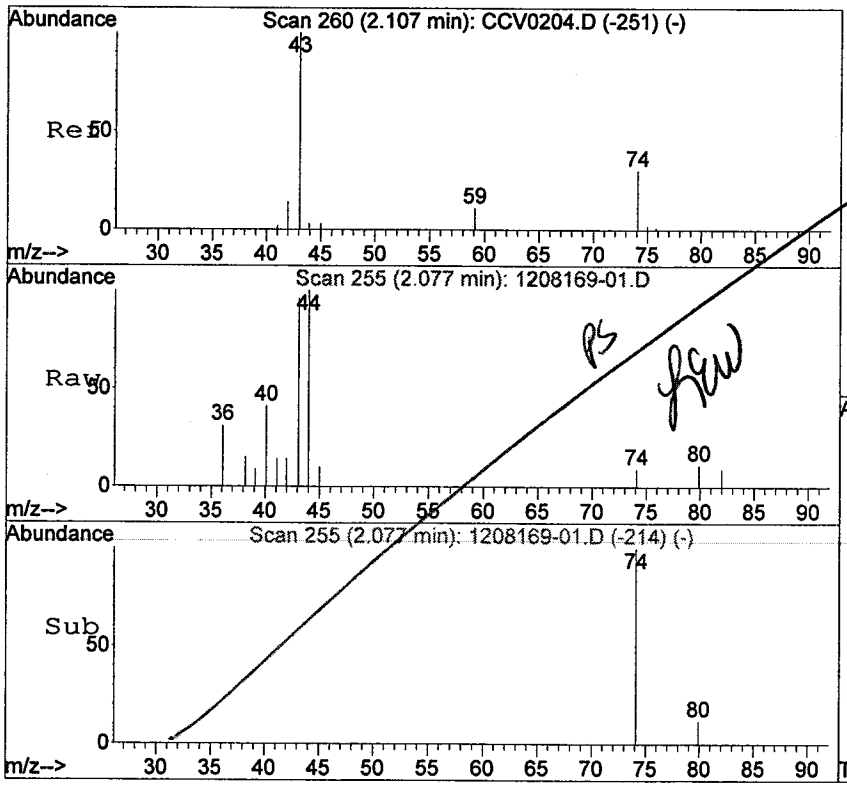


#13
acetone
Concen: 118.35 ug/L
RT: 1.84 min Scan# 214
Delta R.T. -0.01 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion: 43 Resp: 163924

Ion	Ratio	Lower	Upper
43	100		
58	32.1	13.9	53.9

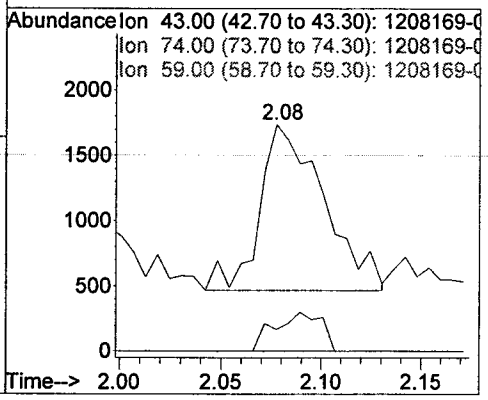


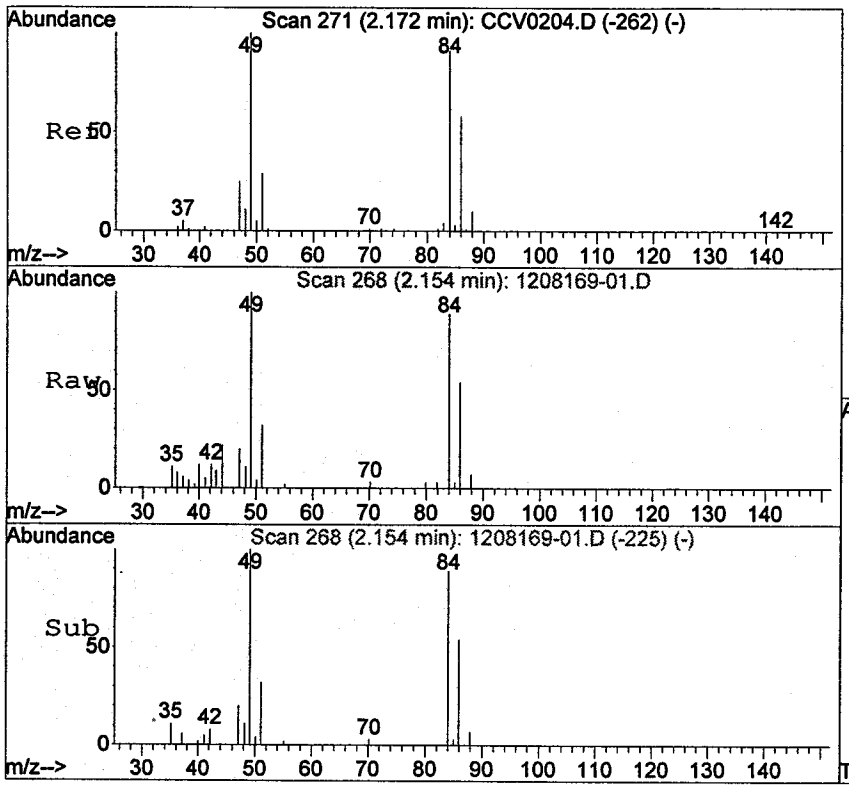


#16
methyl acetate
Concen: 0.82 ug/L
RT: 2.08 min Scan# 255
Delta R.T. -0.01 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion: 43 Resp: 2839

Ion	Ratio	Lower	Upper
43	100		
74	0.0	19.4	29.2#
59	0.0	6.6	9.8#

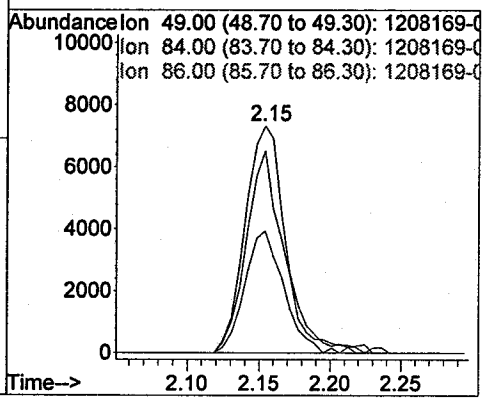


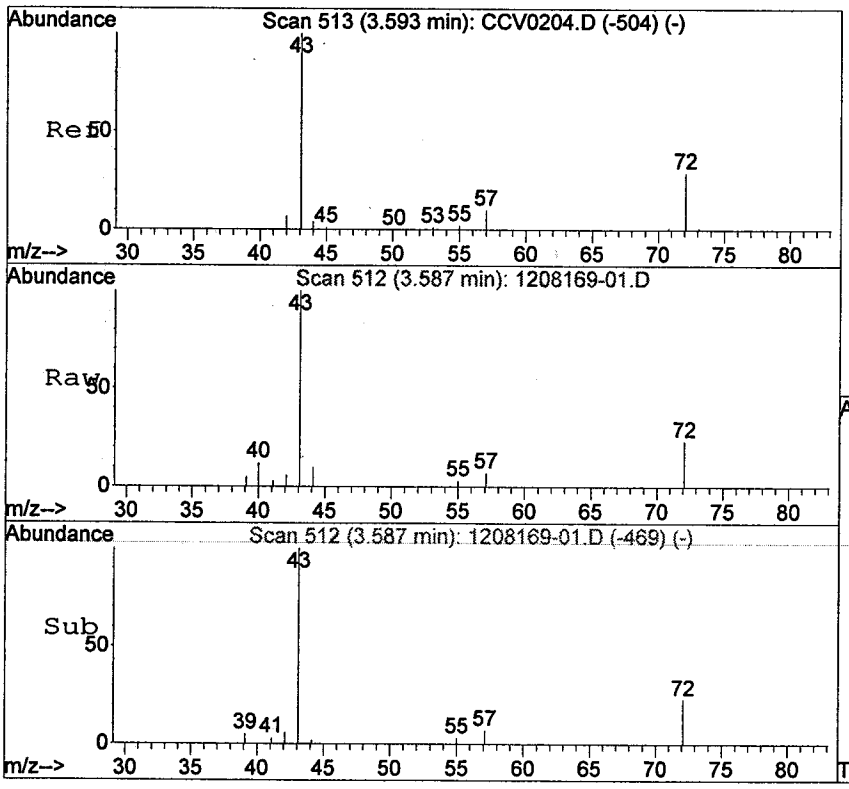


#17
methylene chloride
Concen: 1.00 ug/L
RT: 2.15 min Scan# 268
Delta R.T. 0.00 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion: 49 Resp: 14810

Ion	Ratio	Lower	Upper
49	100		
84	81.4	64.6	104.6
86	50.6	34.2	74.2

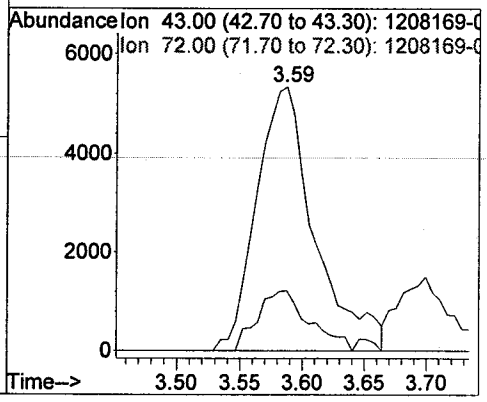


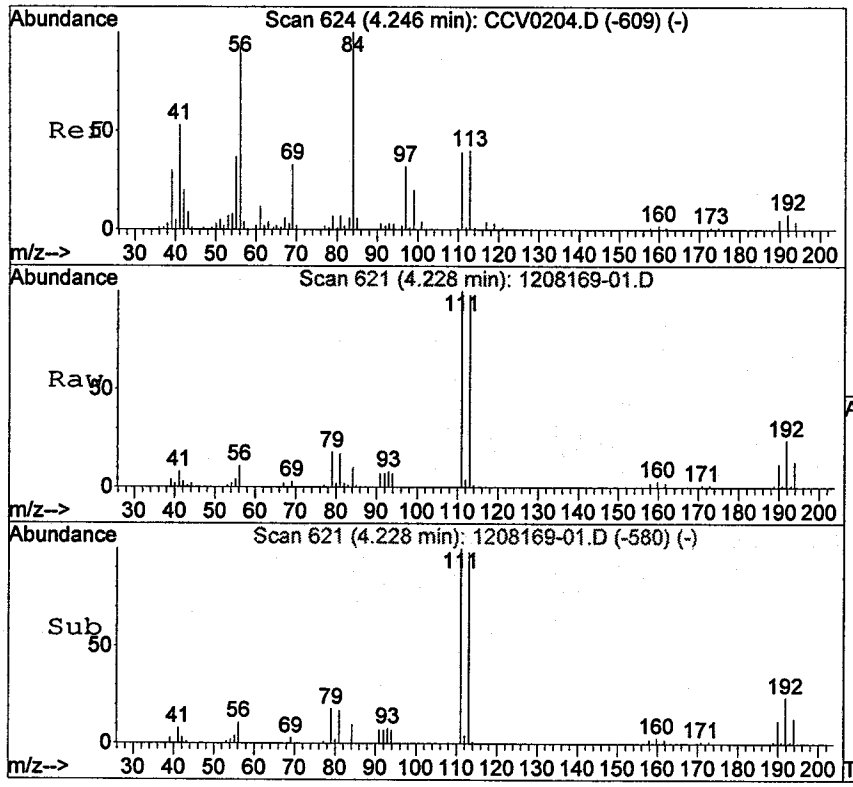


#25
2-butanone (MEK)
Concen: 9.45 ug/L
RT: 3.59 min Scan# 512
Delta R.T. 0.00 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion: 43 Resp: 17316

Ion	Ratio	Lower	Upper
43	100		
72	20.5	3.8	43.8

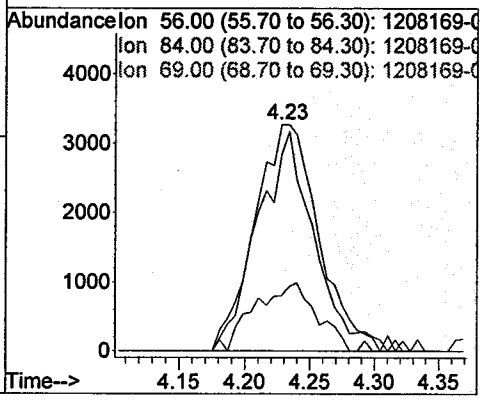


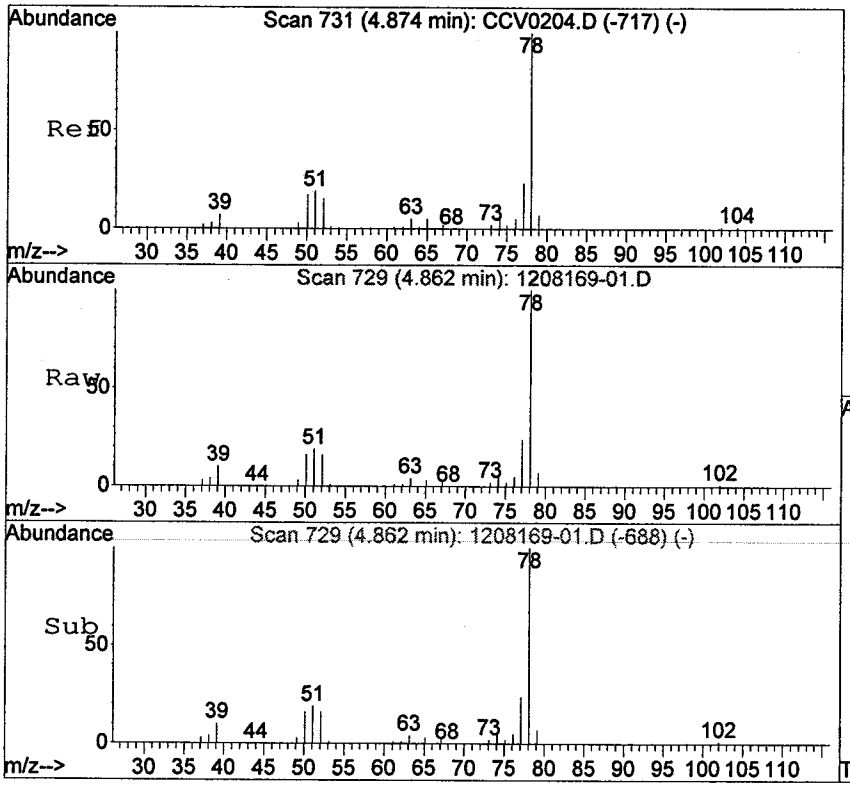


#31
cyclohexane
Concen: 1.23 ug/L
RT: 4.23 min Scan# 621
Delta R.T. -0.01 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion: 56 Resp: 11188

Ion	Ratio	Lower	Upper
56	100		
84	86.5	71.3	106.9
69	29.5	24.0	36.0

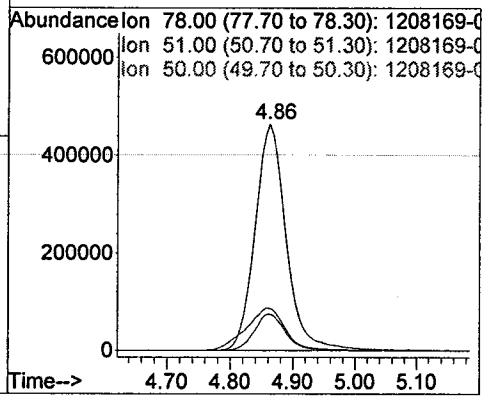


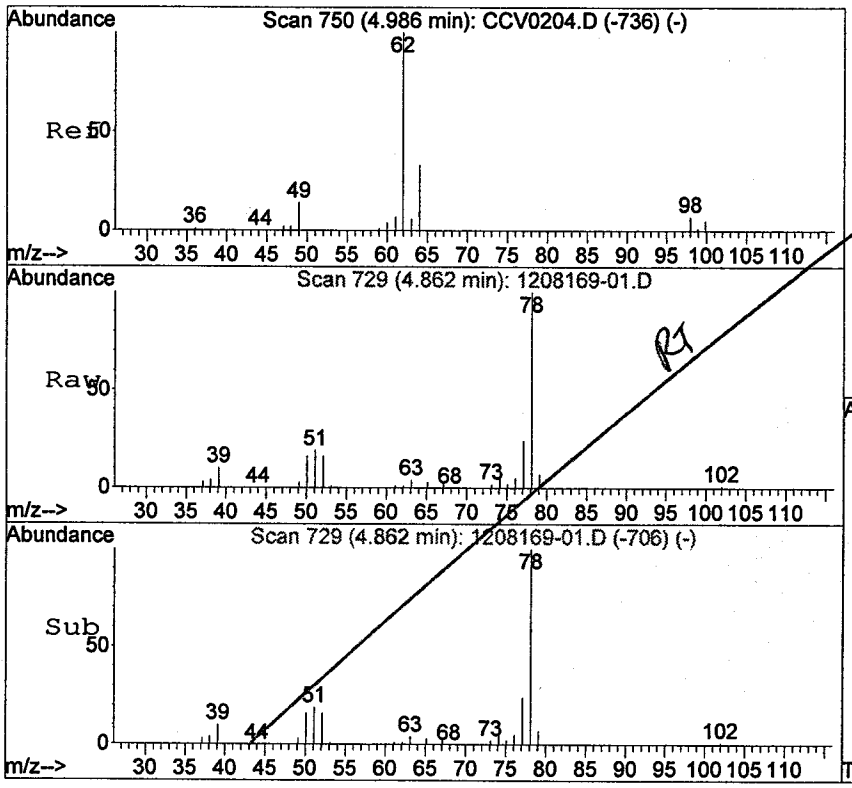


#34
benzene
Concen: 73.89 ug/L
RT: 4.86 min Scan# 729
Delta R.T. -0.01 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion: 78 Resp: 1607689

Ion	Ratio	Lower	Upper
78	100		
51	23.7	0.0	38.6
50	16.3	0.0	35.9

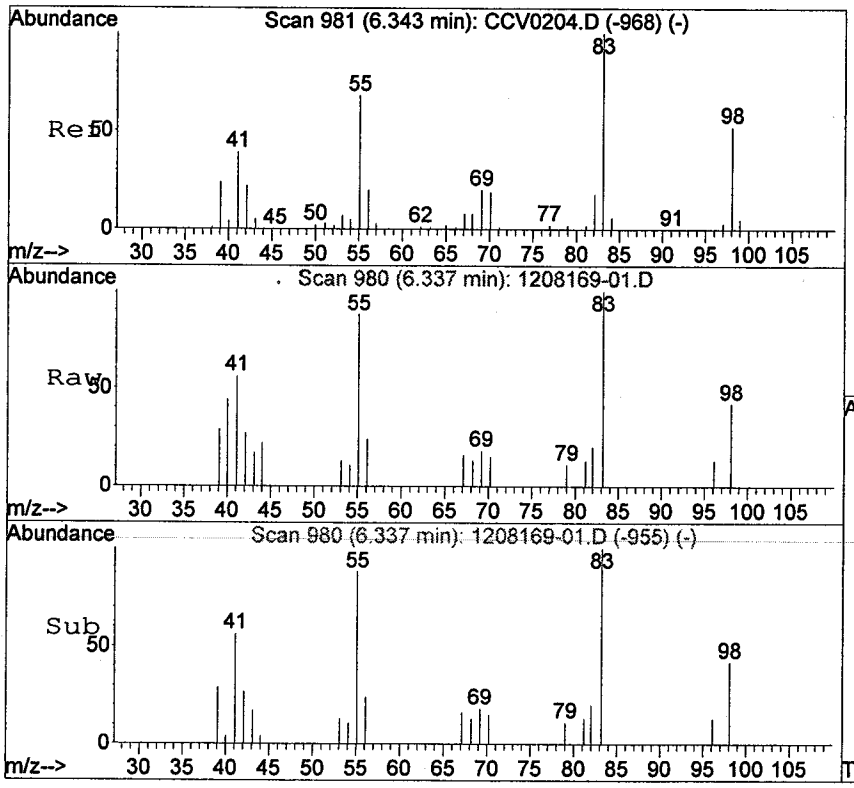




#35
1,2-dichloroethane
Concen: 1.99 ug/L
RT: 4.86 min Scan# 729
Delta R.T. -0.12 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion: 62 Resp: 13856

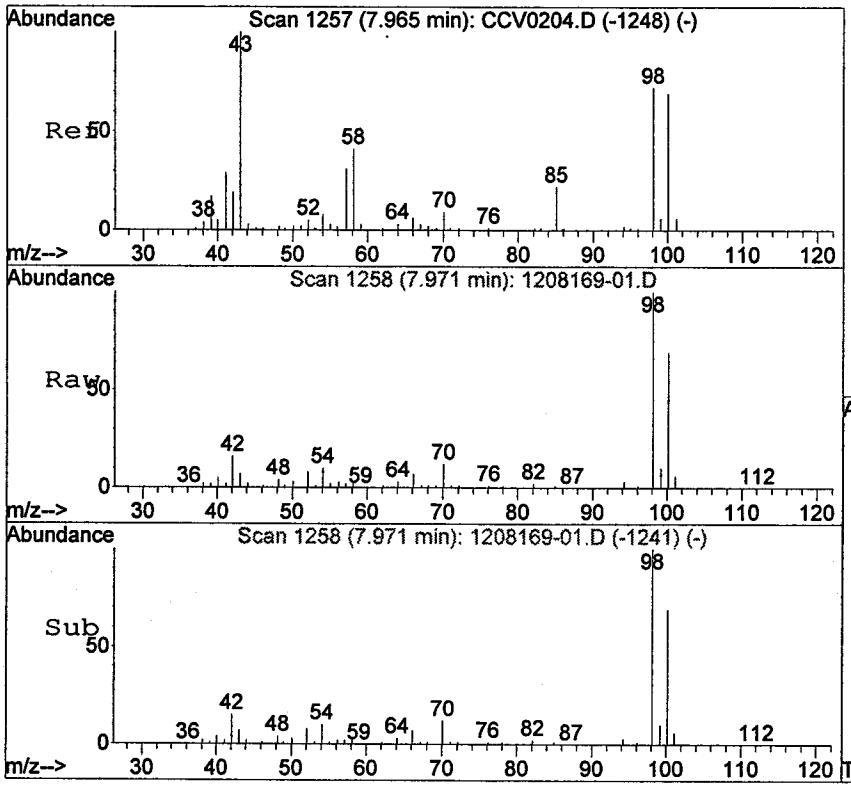
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	29.8



#39
methylcyclohexane
Concen: 0.51 ug/L
RT: 6.34 min Scan# 980
Delta R.T. -0.01 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion: 83 Resp: 4590

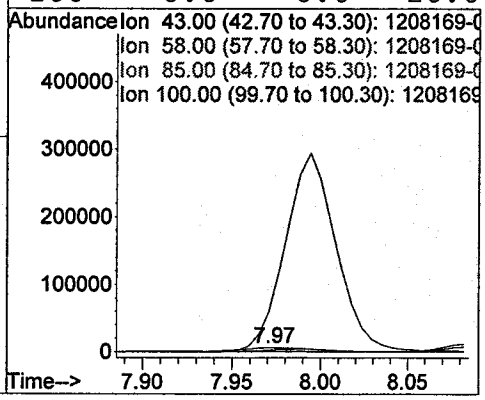
Ion	Ratio	Lower	Upper
83	100		
55	86.2	61.5	92.3
98	45.5	40.0	60.0

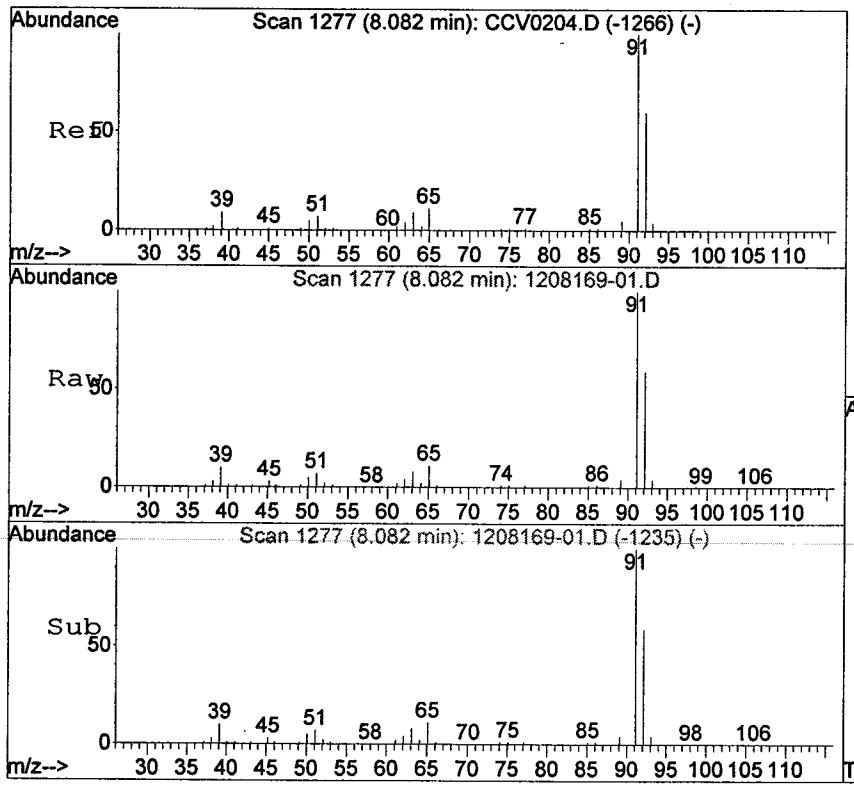


#45
4-methyl-2-pentanone (MIBK)
Concen: 3.68 ug/L
RT: 7.97 min Scan# 1258
Delta R.T. 0.00 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion: 43 Resp: 15867

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.9	57.9#
85	7.8	0.0	36.7
100	0.0	0.0	20.0

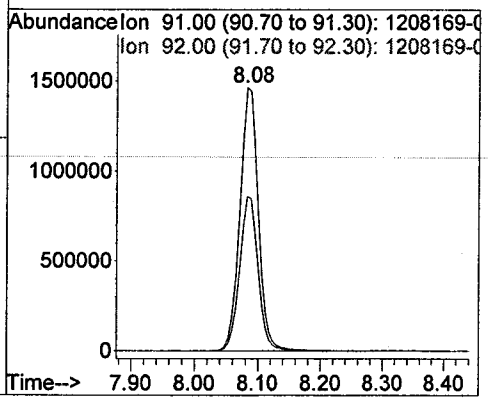


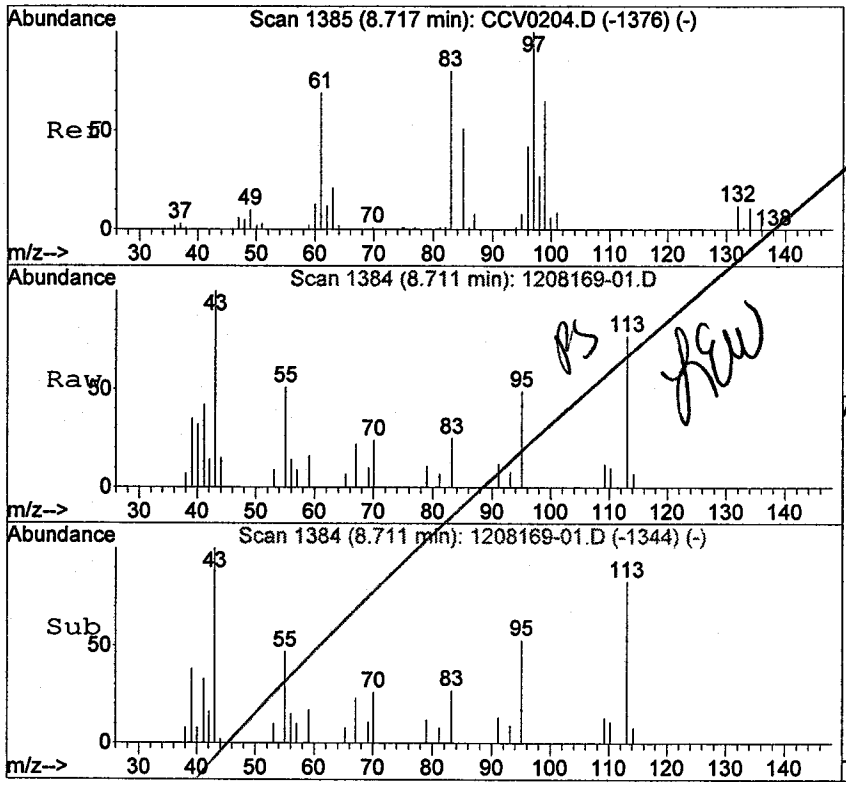


#47
toluene
Concen: 123.20 ug/L
RT: 8.08 min Scan# 1277
Delta R.T. -0.01 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion: 91 Resp: 2971599

Ion	Ratio	Lower	Upper
91	100		
92	58.9	39.4	79.4

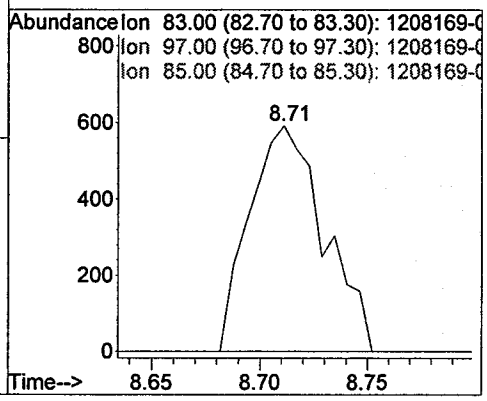


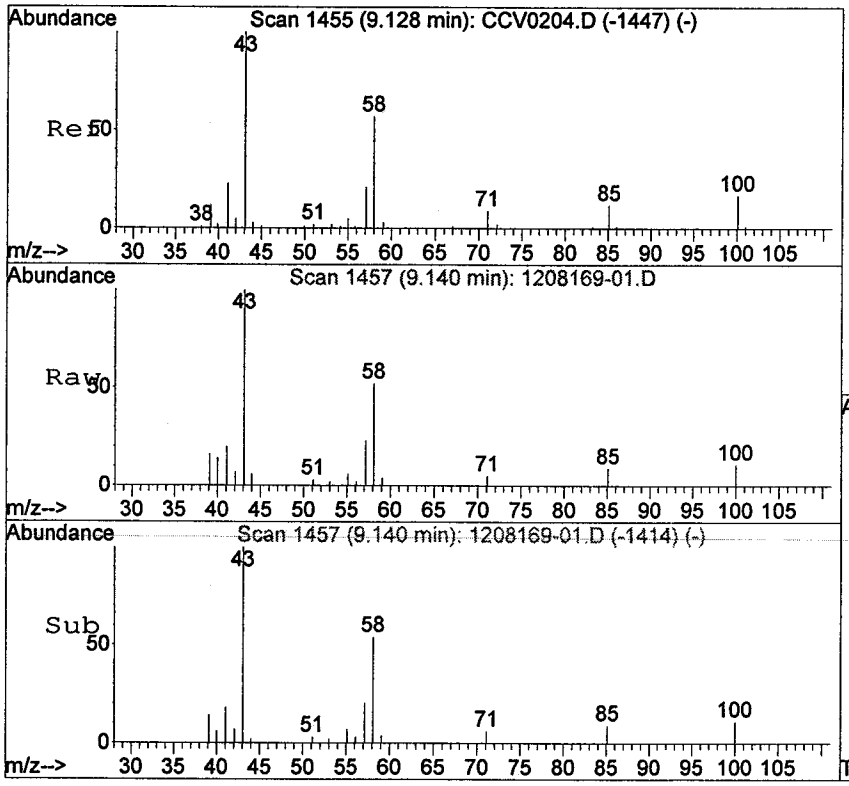


#49
1,1,2-trichloroethane
Concen: 0.42 ug/L
RT: 8.71 min Scan# 1384
Delta R.T. -0.02 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion: 83 Resp: 1427

Ion	Ratio	Lower	Upper
83	100		
97	0.0	101.5	141.5#
85	0.0	44.4	84.4#

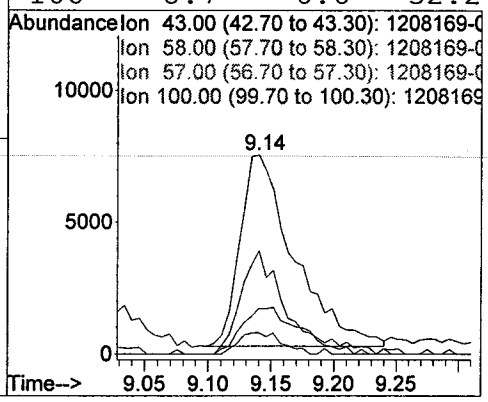


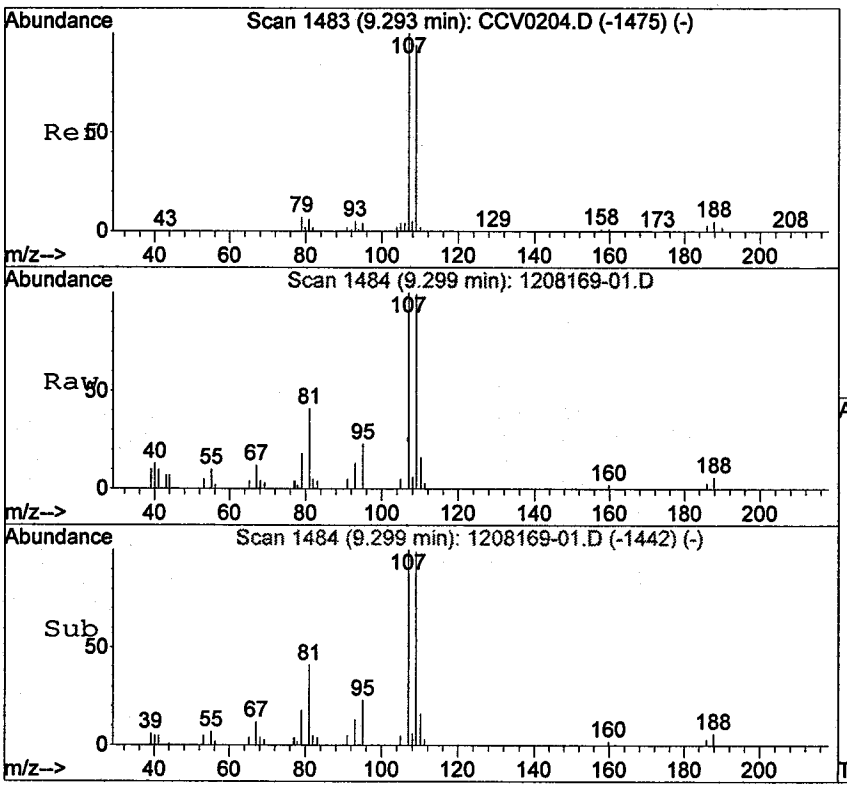


#53
2-hexanone (MBK)
Concen: 8.18 ug/L
RT: 9.14 min Scan# 1457
Delta R.T. 0.00 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion: 43 Resp: 21716

Ion	Ratio	Lower	Upper
43	100		
58	45.9	31.6	71.6
57	26.0	0.0	38.3
100	8.7	0.0	32.2

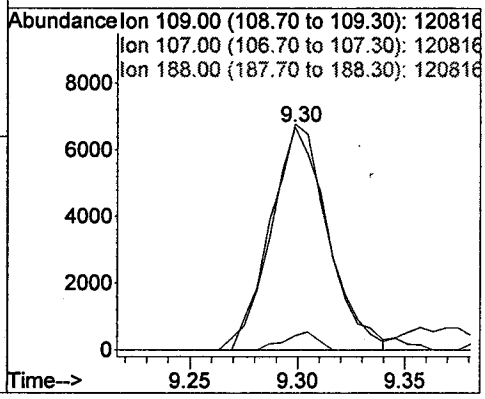


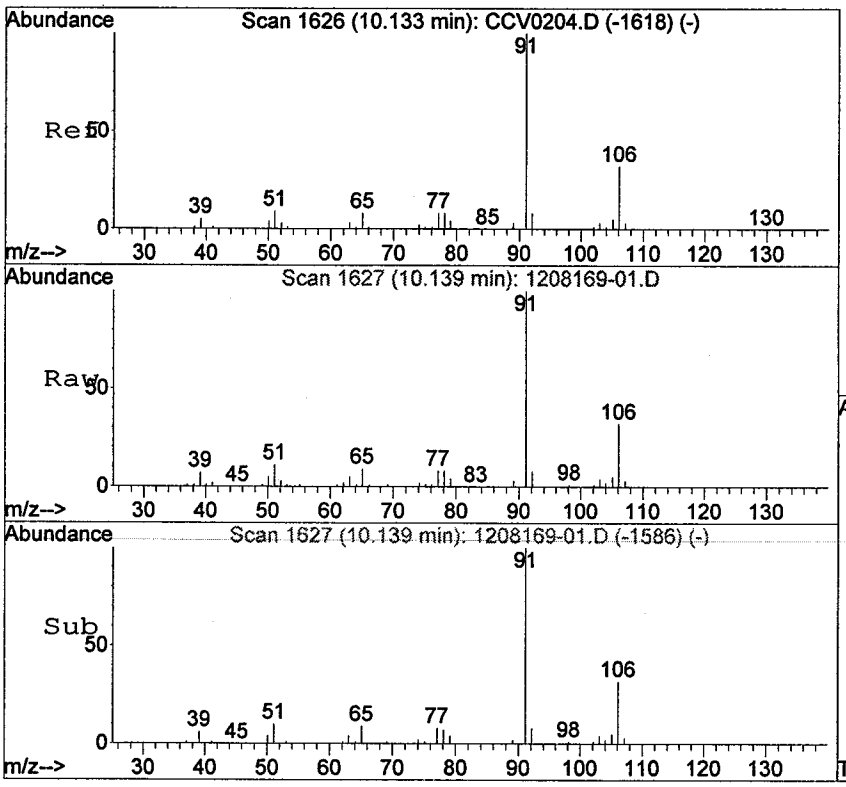


#55
1,2-dibromoethane
Concen: 3.00 ug/L
RT: 9.30 min Scan# 1484
Delta R.T. -0.01 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion:109 Resp: 12318

Ion	Ratio	Lower	Upper
109	100		
107	104.1	85.4	125.4
188	0.0	0.0	25.2

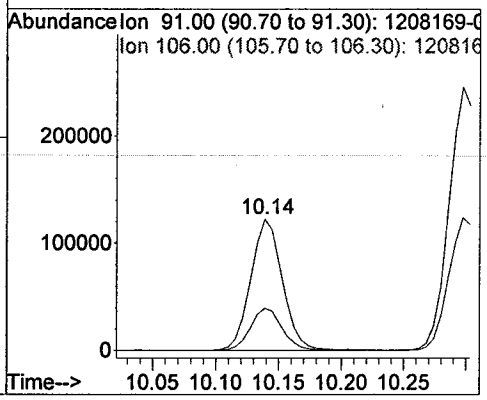


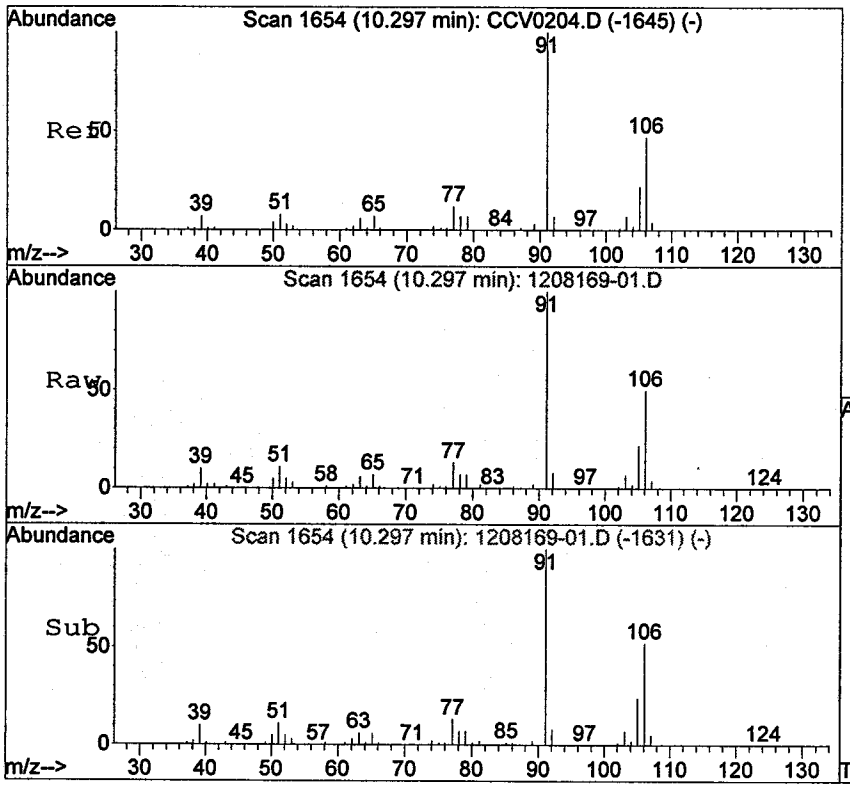


#59
ethylbenzene
Concen: 7.42 ug/L
RT: 10.14 min Scan# 1627
Delta R.T. -0.01 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion: 91 Resp: 215120

Ion	Ratio	Lower	Upper
91	100		
106	32.1	12.0	52.0

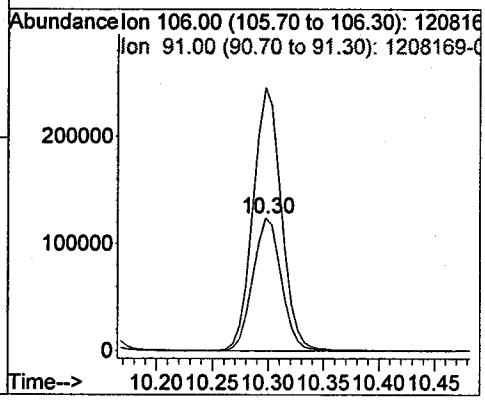


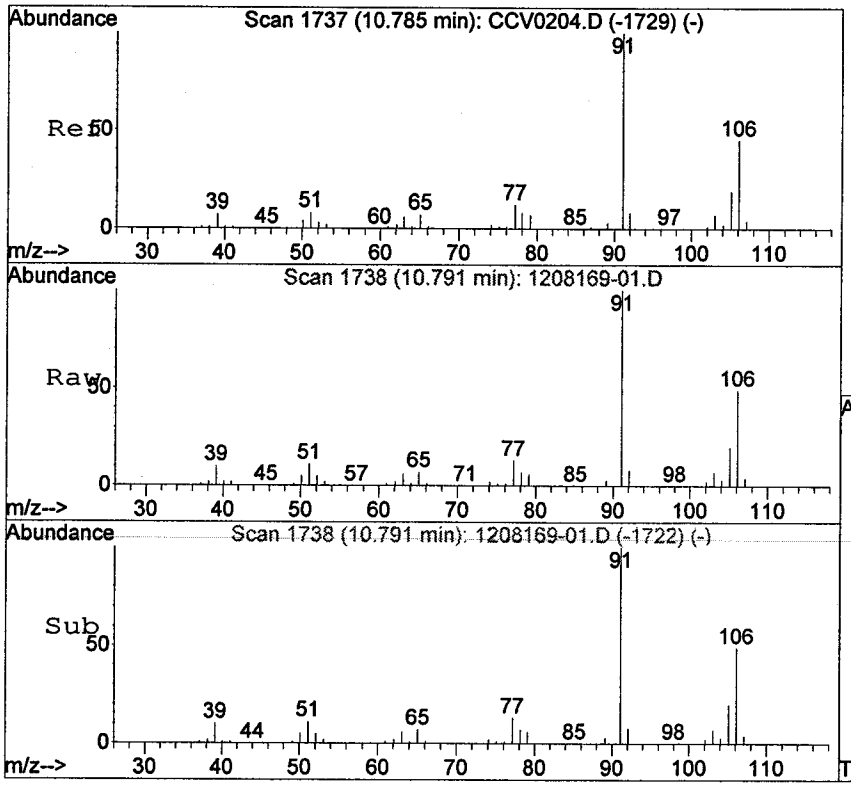


#60
m+p-xylene
Concen: 18.39 ug/L
RT: 10.30 min Scan# 1654
Delta R.T. -0.02 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion:106 Resp: 221928

Ion	Ratio	Lower	Upper
106	100		
91	195.8	165.4	205.4

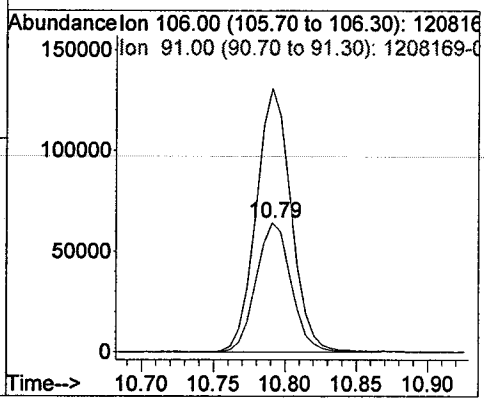


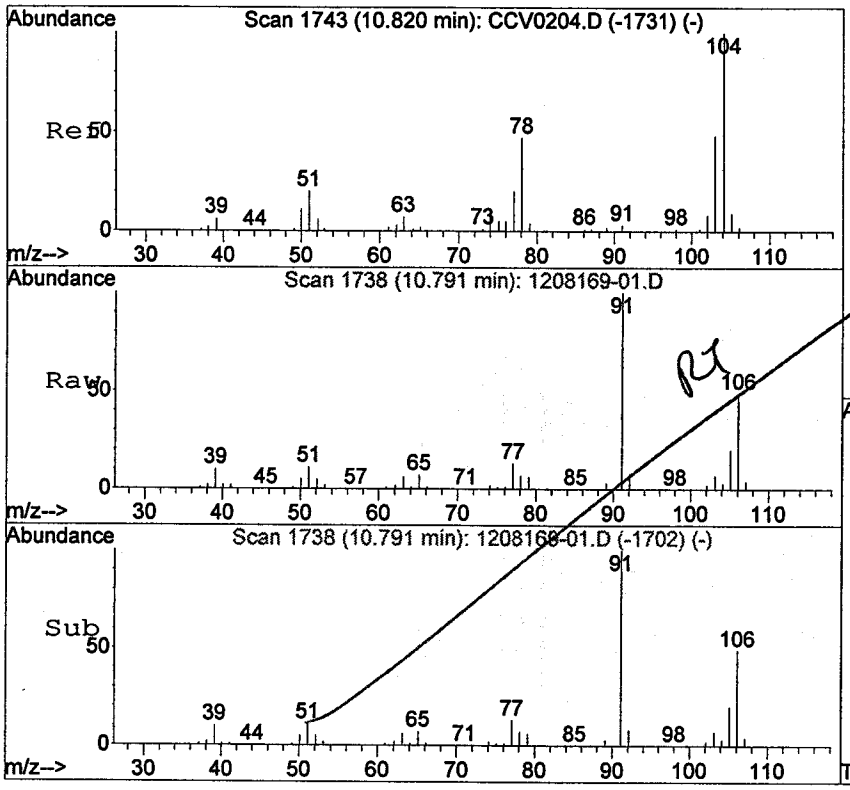


#61
o-xylene
Concen: 9.72 ug/L
RT: 10.79 min Scan# 1738
Delta R.T. -0.01 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion:106 Resp: 110342

Ion	Ratio	Lower	Upper
106	100		
91	203.2	182.9	222.9

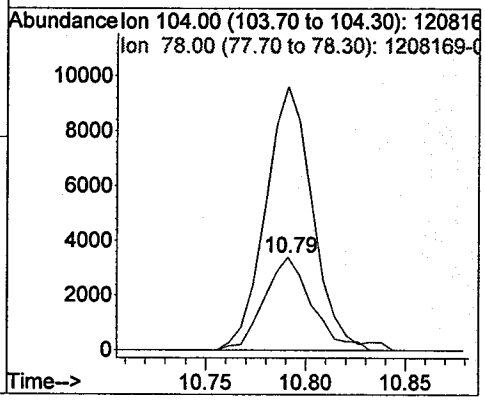


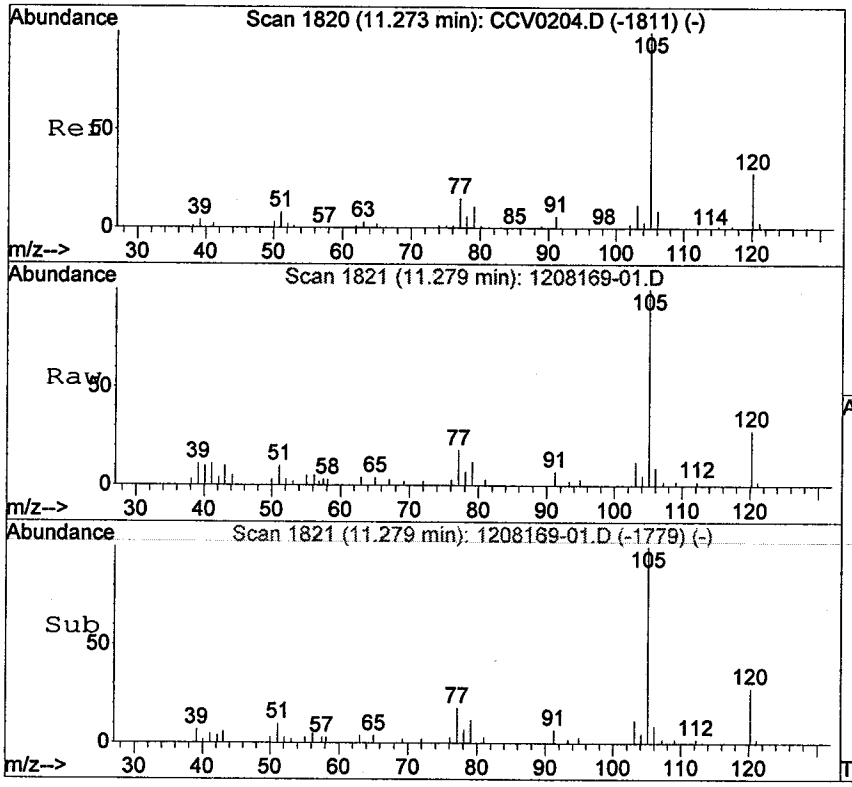


#62
styrene
Concen: 0.28 ug/L
RT: 10.79 min Scan# 1738
Delta R.T. -0.04 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion:104 Resp: 5639

Ion	Ratio	Lower	Upper
104	100		
78	282.6	23.4	63.4#

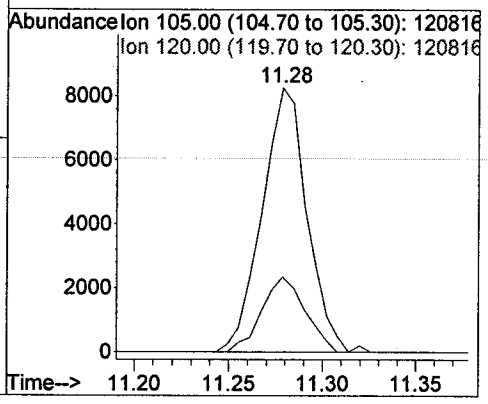




#66
isopropylbenzene
Concen: 0.51 ug/L
RT: 11.28 min Scan# 1821
Delta R.T. -0.01 min
Lab File: 1208169-01.D
Acq: 20 Aug 2012 10:34

Tgt Ion:105 Resp: 13823

Ion	Ratio	Lower	Upper
105	100		
120	27.4	7.3	47.3



ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

1064

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208169-02 File ID: 1208169-02.D

Sampled: 08/07/12 15:05 Prepared: 08/17/12 12:00 Analyzed: 08/17/12 20:31

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1210102 Sequence: 2H20042 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	5.0	1.1	5.0	U
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	5.0	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

1064

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512
Client: TechLaw Project: KNM
Matrix: Water Laboratory ID: 1208169-02 File ID: 1208169-02.D
Sampled: 08/07/12 15:05 Prepared: 08/17/12 12:00 Analyzed: 08/17/12 20:31
Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL
QC Batch: 1210102 Sequence: 2H20042 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	0.27	0.21	1.0	J
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.9	100	85 - 118	
1,2-Dichloroethane-d4	40.0	39.1	98	87 - 122	
Toluene-d8	40.0	40.0	100	85 - 113	
4-Bromofluorobenzene	40.0	38.5	96	82 - 110	

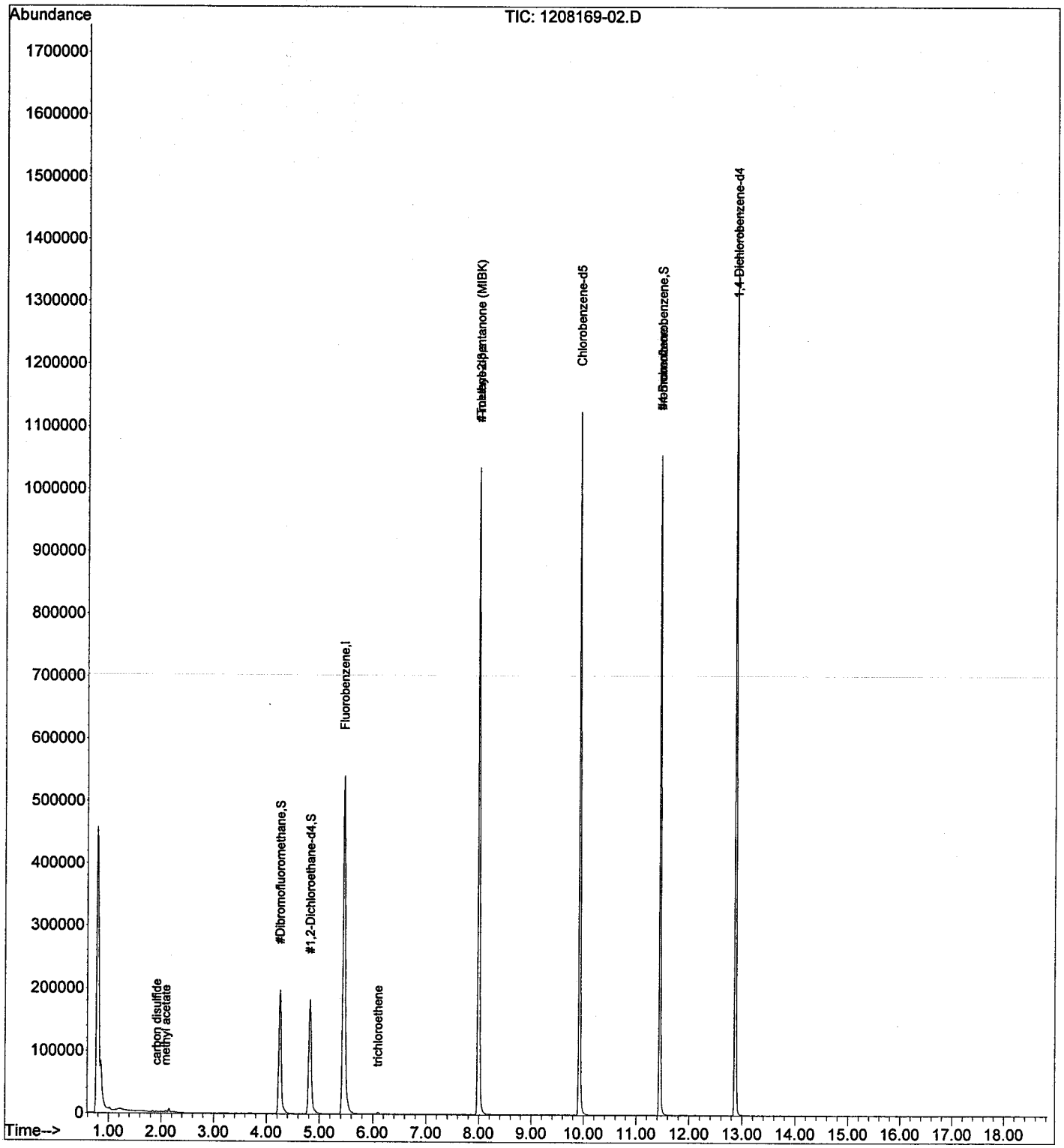
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	812675	5.46	94	5.46	
Chlorobenzene-d5	675494	9.92	96	9.93	
1,4-Dichlorobenzene-d4	417385	12.87	88	12.87	

* Values outside of QC limits

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-17-12\
Data File : 1208169-02.D
InstName : 323
Acq On : 17 Aug 2012 20:31
Operator : DLV
Sample : 1208169-02
Misc : TECH LAW
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 20 07:15:32 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration



Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-17-12\
Data File : 1208169-02.D
InstName : 323
Acq On : 17 Aug 2012 20:31
Operator : DLV
Sample : 1208169-02
Misc : TECH LAW
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 20 07:15:32 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	812675	40.00 ug/L	0.00 77.67%
50) Chlorobenzene-d5	9.92	117	675494	40.00 ug/L	0.00 80.96%
65) 1,4-Dichlorobenzene-d4	12.87	152	417385	40.00 ug/L	0.00 75.29%

System Monitoring Compounds					
30) #Dibromofluoromethane	4.25	111	196228	39.89 ug/L	-0.01
Spiked Amount 40.000			Recovery =	99.72%	
37) #1,2-Dichloroethane-d4	4.82	67	117624	39.06 ug/L	-0.01
Spiked Amount 40.000			Recovery =	97.65%	
46) #Toluene-d8	7.99	98	808996	39.98 ug/L	0.00
Spiked Amount 40.000			Recovery =	99.95%	
64) #4-Bromofluorobenzene	11.45	95	330710	38.52 ug/L	0.00
Spiked Amount 40.000			Recovery =	96.30%	

Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	
3) chloromethane	0.00	50	0	N.D.	
4) vinyl chloride	0.00	62	0	N.D.	
5) bromomethane	0.00	94	0	N.D.	
6) chloroethane	0.00	64	0	N.D.	
7) dichlorofluoromethane	0.00	67	0	N.D.	
8) trichlorofluoromethane	0.00	101	0	N.D.	
9) ethyl ether	0.00	74	0	N.D.	
10) acrolein	0.00	56	0	N.D.	
11) 1,1,2-trichloro-1,2,2-tr	0.00	101	0	N.D.	
12) 1,1-dichloroethene	0.00	96	0	N.D.	
13) acetone	1.84	43	1902	Below Cal #	41
14) iodomethane	0.00	142	0	N.D.	
15) carbon disulfide	1.91	76	1827	0.14 ug/L #	75
16) methyl acetate	2.08	43	4028	N ~~1.28~~ ug/L #	58
17) methylene chloride	2.15	49	2924	Below Cal	93
18) acrylonitrile	0.00	53	0	N.D.	
19) trans-1,2-dichloroethene	0.00	96	0	N.D.	
20) methyl (tert) butyl ethe	0.00	73	0	N.D.	
21) 1,1-dichloroethane	0.00	63	0	N.D.	
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	0.00	77	0	N.D.	
24) cis-1,2-dichloroethene	0.00	96	0	N.D.	
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	0.00	49	0	N.D.	
27) tetrahydrofuran	0.00	71	0	N.D.	
28) chloroform	0.00	83	0	N.D.	
29) 1,1,1-trichloroethane	0.00	97	0	N.D.	
31) cyclohexane	0.00	56	0	N.D.	
32) carbon tetrachloride	0.00	117	0	N.D.	
33) 1,1-dichloropropene	0.00	75	0	N.D.	
34) benzene	0.00	78	0	N.D.	
35) 1,2-dichloroethane	0.00	62	0	N.D.	
36) heptane	0.00	57	0	N.D.	

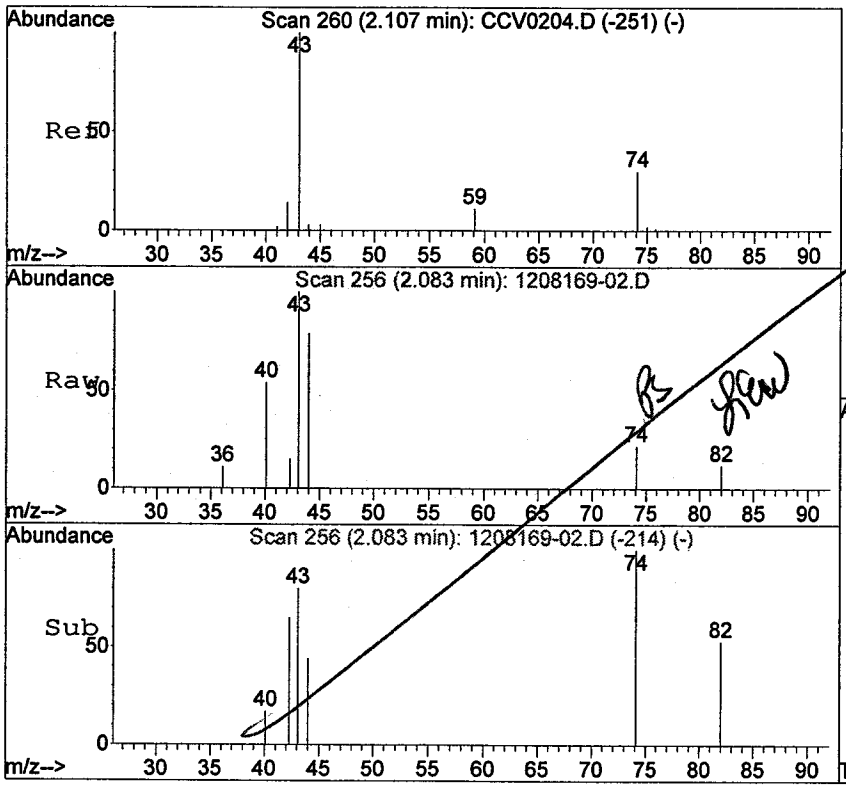
Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-17-12\
Data File : 1208169-02.D
InstName : 323
Acq On : 17 Aug 2012 20:31
Operator : DLV
Sample : 1208169-02
Misc : TECH LAW
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 20 07:15:32 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
38) trichloroethene	6.10	130	1476	0.27 ug/L #	45
39) methylcyclohexane	0.00	83	0	N.D.	
40) 1,2-dichloropropane	0.00	63	0	N.D.	
41) dibromomethane	0.00	93	0	N.D.	
42) bromodichloromethane	0.00	83	0	N.D.	
43) 2-chloroehtyl vinyl ethe	0.00	63	0	N.D.	
44) cis-1,3-dichloropropene	0.00	75	0	N.D.	
45) 4-methyl-2-pentanone (MIBK	7.99	43	3663	~~0.94~~ ug/L #	1
47) toluene	0.00	91	0	N.D.	
48) trans-1,3-dichloropropen	0.00	75	0	N.D.	
49) 1,1,2-trichloroethane	0.00	83	0	N.D.	
51) tetrachloroethene	0.00	166	0	N.D.	
52) 1,3-dichloropropane	0.00	76	0	N.D.	
53) 2-hexanone (MBK)	0.00	43	0	N.D.	
54) dibromochloromethane	0.00	129	0	N.D.	
55) 1,2-dibromoethane	0.00	109	0	N.D.	
56) chlorobenzene	0.00	112	0	N.D.	
57) 1-chlorohexane	0.00	55	0	N.D.	
58) 1,1,1,2-tetrachloroethan	0.00	131	0	N.D.	
59) ethylbenzene	0.00	91	0	N.D.	
60) m+p-xylene	0.00	106	0	N.D.	
61) o-xylene	0.00	106	0	N.D.	
62) styrene	0.00	104	0	N.D.	
63) bromoform	0.00	173	0	N.D.	
66) isopropylbenzene	0.00	105	0	N.D.	
67) bromobenzene	11.45	77	1584	0.16 ug/L #	12
68) 1,1,2,2-tetrachloroethan	0.00	83	0	N.D.	
69) 1,2,3-trichloropropane	0.00	110	0	N.D.	
70) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
71) n-propylbenzene	0.00	120	0	N.D.	
72) 2-chlorotoluene	0.00	126	0	N.D.	
73) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
74) 4-chlorotoluene	0.00	91	0	N.D.	
75) tert-butylbenzene	0.00	119	0	N.D.	
76) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
77) sec-butylbenzene	0.00	105	0	N.D.	
78) 1,3-dichlorobenzene	0.00	146	0	N.D.	
79) 4-isopropyltoluene	0.00	119	0	N.D.	
80) 1,4-dichlorobenzene	0.00	146	0	N.D.	
81) 1,2-dichlorobenzene	0.00	146	0	N.D.	
82) n-butylbenzene	0.00	91	0	N.D.	
83) hexachloroethane	0.00	201	0	N.D.	
84) 1,2-dibromo-3-chloroprop	0.00	157	0	N.D.	
85) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
86) hexachlorobutadiene	0.00	225	0	N.D.	
87) naphthalene	0.00	128	0	N.D.	
88) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
89) 2-methylnaphthalene	0.00	142	0	N.D.	

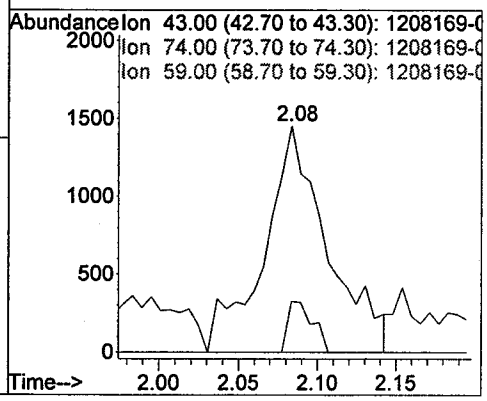
(#) = qualifier out of range (m) = manual integration (+) = signals summed

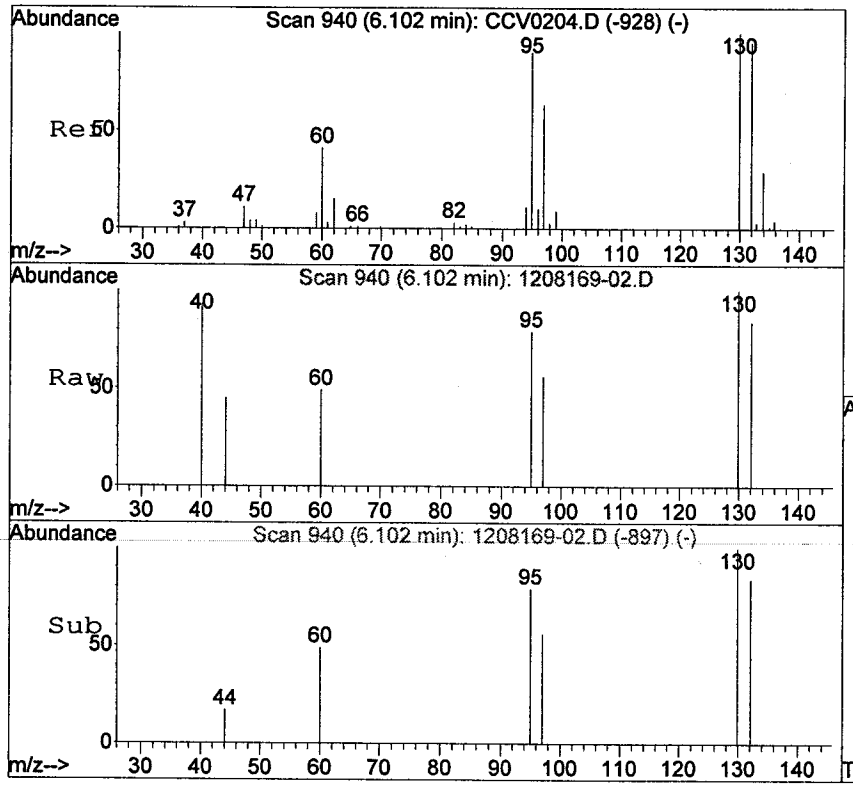


#16
methyl acetate
Concen: 1.28 ug/L
RT: 2.08 min Scan# 256
Delta R.T. -0.01 min
Lab File: 1208169-02.D
Acq: 17 Aug 2012 20:31

Tgt Ion: 43 Resp: 4028

Ion	Ratio	Lower	Upper
43	100		
74	0.0	19.4	29.2#
59	0.0	6.6	9.8#

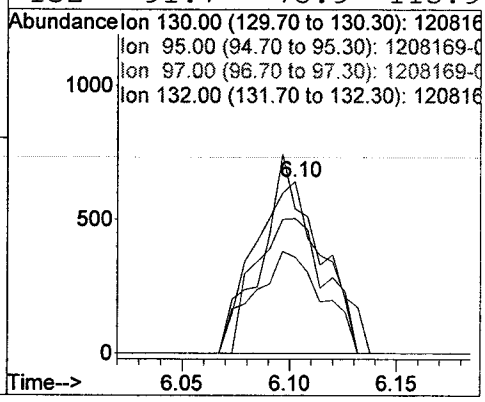




#38
trichloroethene
Concen: 0.27 ug/L
RT: 6.10 min Scan# 940
Delta R.T. 0.00 min
Lab File: 1208169-02.D
Acq: 17 Aug 2012 20:31

Tgt Ion:130 Resp: 1476

Ion	Ratio	Lower	Upper
130	100		
95	0.0	68.4	108.4#
97	0.0	37.1	77.1#
132	91.7	75.9	115.9



ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106100

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208170-01 File ID: 1208170-01.D

Sampled: 08/07/12 10:30 Prepared: 08/17/12 12:00 Analyzed: 08/17/12 20:58

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1210102 Sequence: 2H20042 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	5.0	1.1	5.0	U
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	0.17	0.098	1.0	J
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	5.0	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106100

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208170-01 File ID: 1208170-01.D

Sampled: 08/07/12 10:30 Prepared: 08/17/12 12:00 Analyzed: 08/17/12 20:58

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1210102 Sequence: 2H20042 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.0	100	85 - 118	
1,2-Dichloroethane-d4	40.0	39.6	99	87 - 122	
Toluene-d8	40.0	40.0	100	85 - 113	
4-Bromofluorobenzene	40.0	38.1	95	82 - 110	

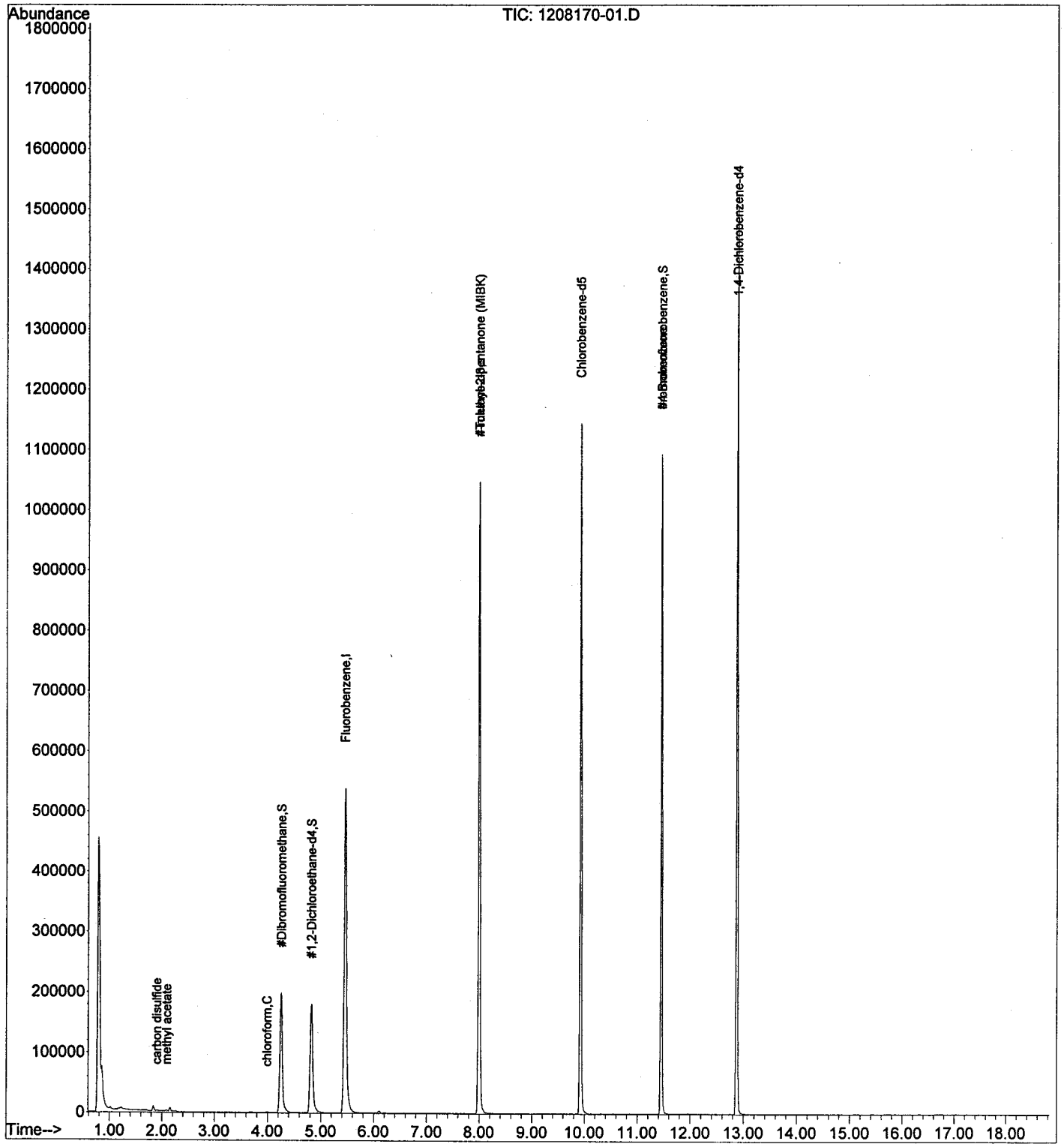
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	812567	5.46	94	5.46	
Chlorobenzene-d5	681270	9.93	97	9.93	
1,4-Dichlorobenzene-d4	415678	12.87	88	12.87	

* Values outside of QC limits

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-17-12\
Data File : 1208170-01.D
InstName : 323
Acq On : 17 Aug 2012 20:58
Operator : DLV
Sample : 1208170-01
Misc : TECH LAW
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 20 07:15:36 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration



Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-17-12\
Data File : 1208170-01.D
InstName : 323
Acq On : 17 Aug 2012 20:58
Operator : DLV
Sample : 1208170-01
Misc : TECH LAW
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 20 07:15:36 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	812567	40.00 ug/L	0.00 77.66%
50) Chlorobenzene-d5	9.93	117	681270	40.00 ug/L	0.00 81.65%
65) 1,4-Dichlorobenzene-d4	12.87	152	415678	40.00 ug/L	0.00 74.99%

System Monitoring Compounds					
30) #Dibromofluoromethane	4.25	111	196589	39.97 ug/L	-0.01
Spiked Amount 40.000			Recovery =	99.92%	
37) #1,2-Dichloroethane-d4	4.82	67	119120	39.56 ug/L	-0.01
Spiked Amount 40.000			Recovery =	98.90%	
46) #Toluene-d8	7.99	98	808235	39.95 ug/L	0.00
Spiked Amount 40.000			Recovery =	99.88%	
64) #4-Bromofluorobenzene	11.45	95	330200	38.14 ug/L	0.00
Spiked Amount 40.000			Recovery =	95.35%	

Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	
3) chloromethane	0.00	50	0	N.D.	
4) vinyl chloride	0.00	62	0	N.D.	
5) bromomethane	0.00	94	0	N.D.	
6) chloroethane	0.00	64	0	N.D.	
7) dichlorofluoromethane	0.00	67	0	N.D.	
8) trichlorofluoromethane	0.00	101	0	N.D.	
9) ethyl ether	0.00	74	0	N.D.	
10) acrolein	0.00	56	0	N.D.	
11) 1,1,2-trichloro-1,2,2-tr	0.00	101	0	N.D.	
12) 1,1-dichloroethene	0.00	96	0	N.D.	
13) acetone	1.84	43	11694	Below Cal	91
14) iodomethane	0.00	142	0	N.D.	
15) carbon disulfide	1.91	76	1752	0.13 ug/L #	75
16) methyl acetate	2.08	43	2629	PS ~~0.84~~ ug/L #	58
17) methylene chloride	2.15	49	3491	Below Cal	91
18) acrylonitrile	0.00	53	0	N.D.	
19) trans-1,2-dichloroethene	0.00	96	0	N.D.	
20) methyl (tert) butyl ethe	0.00	73	0	N.D.	
21) 1,1-dichloroethane	0.00	63	0	N.D.	
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	0.00	77	0	N.D.	
24) cis-1,2-dichloroethene	0.00	96	0	N.D.	
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	0.00	49	0	N.D.	
27) tetrahydrofuran	0.00	71	0	N.D.	
28) chloroform	3.98	83	1459	0.17 ug/L #	18
29) 1,1,1-trichloroethane	0.00	97	0	N.D.	
31) cyclohexane	0.00	56	0	N.D.	
32) carbon tetrachloride	0.00	117	0	N.D.	
33) 1,1-dichloropropene	0.00	75	0	N.D.	
34) benzene	0.00	78	0	N.D.	
35) 1,2-dichloroethane	0.00	62	0	N.D.	
36) heptane	0.00	57	0	N.D.	

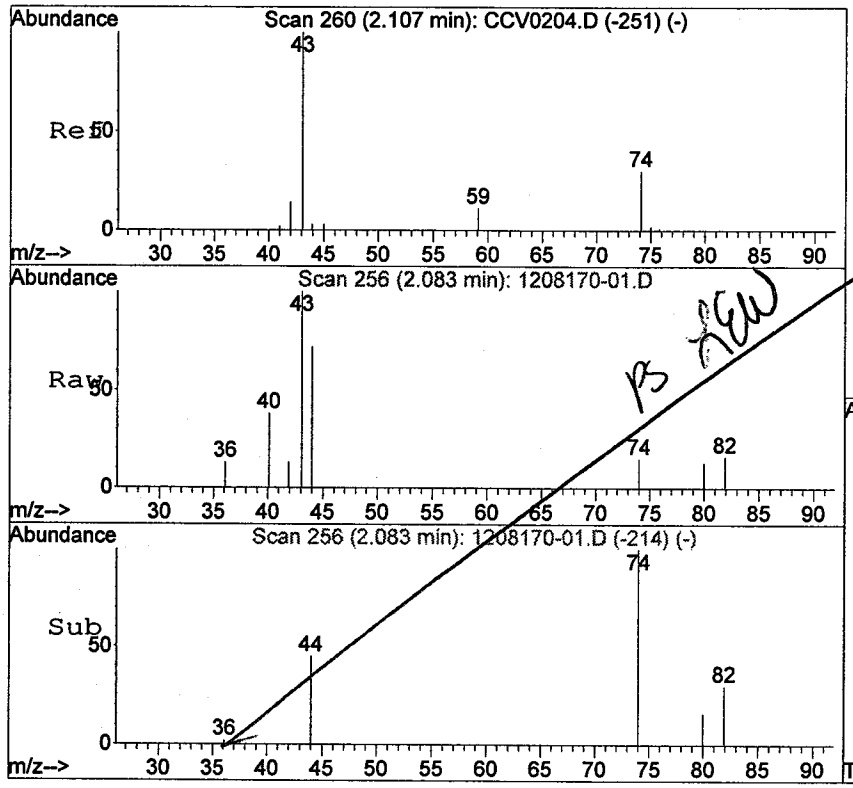
Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-17-12\
Data File : 1208170-01.D
InstName : 323
Acq On : 17 Aug 2012 20:58
Operator : DLV
Sample : 1208170-01
Misc : TECH LAW
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 20 07:15:36 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
38) trichloroethene	0.00	130	0	N.D.	
39) methylcyclohexane	0.00	83	0	N.D.	
40) 1,2-dichloropropane	0.00	63	0	N.D.	
41) dibromomethane	0.00	93	0	N.D.	
42) bromodichloromethane	0.00	83	0	N.D.	
43) 2-chloroehtyl vinyl ethe	0.00	63	0	N.D.	
44) cis-1,3-dichloropropene	0.00	75	0	N.D.	
45) 4-methyl-2-pentanone (MIBK	7.99	43	3878	u ~~0.99~~ ug/L #	1
47) toluene	0.00	91	0	N.D.	
48) trans-1,3-dichloropropen	0.00	75	0	N.D.	
49) 1,1,2-trichloroethane	0.00	83	0	N.D.	
51) tetrachloroethene	0.00	166	0	N.D.	
52) 1,3-dichloropropane	0.00	76	0	N.D.	
53) 2-hexanone (MBK)	0.00	43	0	N.D.	
54) dibromochloromethane	0.00	129	0	N.D.	
55) 1,2-dibromoethane	0.00	109	0	N.D.	
56) chlorobenzene	0.00	112	0	N.D.	
57) 1-chlorohexane	0.00	55	0	N.D.	
58) 1,1,1,2-tetrachloroethan	0.00	131	0	N.D.	
59) ethylbenzene	0.00	91	0	N.D.	
60) m+p-xylene	0.00	106	0	N.D.	
61) o-xylene	0.00	106	0	N.D.	
62) styrene	0.00	104	0	N.D.	
63) bromoform	0.00	173	0	N.D.	
66) isopropylbenzene	0.00	105	0	N.D.	
67) bromobenzene	11.45	77	1748	0.18 ug/L #	12
68) 1,1,2,2-tetrachloroethan	0.00	83	0	N.D.	
69) 1,2,3-trichloropropane	0.00	110	0	N.D.	
70) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
71) n-propylbenzene	0.00	120	0	N.D.	
72) 2-chlorotoluene	0.00	126	0	N.D.	
73) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
74) 4-chlorotoluene	0.00	91	0	N.D.	
75) tert-butylbenzene	0.00	119	0	N.D.	
76) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
77) sec-butylbenzene	0.00	105	0	N.D.	
78) 1,3-dichlorobenzene	0.00	146	0	N.D.	
79) 4-isopropyltoluene	0.00	119	0	N.D.	
80) 1,4-dichlorobenzene	0.00	146	0	N.D.	
81) 1,2-dichlorobenzene	0.00	146	0	N.D.	
82) n-butylbenzene	0.00	91	0	N.D.	
83) hexachloroethane	0.00	201	0	N.D.	
84) 1,2-dibromo-3-chloroprop	0.00	157	0	N.D.	
85) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
86) hexachlorobutadiene	0.00	225	0	N.D.	
87) naphthalene	0.00	128	0	N.D.	
88) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
89) 2-methylnaphthalene	0.00	142	0	N.D.	

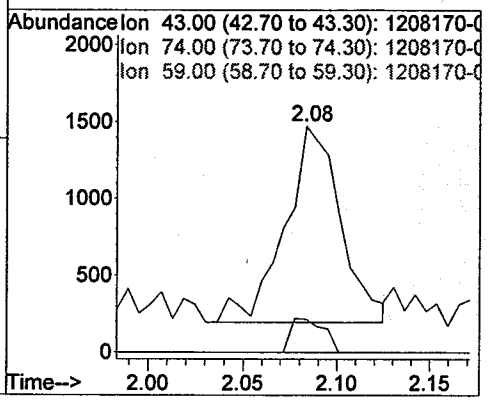
(#) = qualifier out of range (m) = manual integration (+) = signals summed

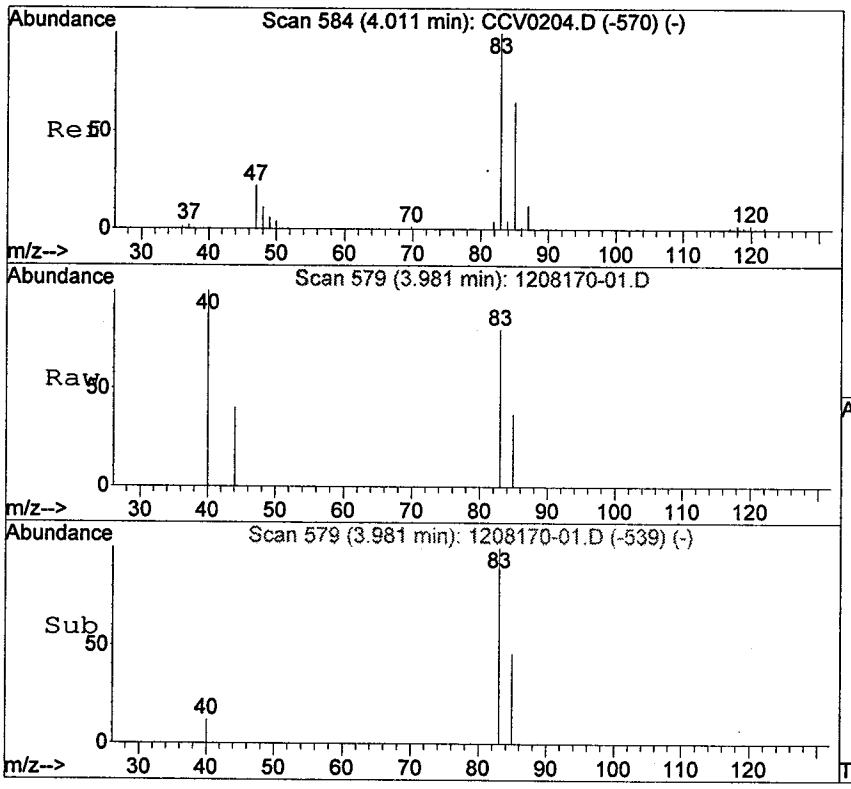


#16
methyl acetate
Concen: 0.84 ug/L
RT: 2.08 min Scan# 256
Delta R.T. -0.01 min
Lab File: 1208170-01.D
Acq: 17 Aug 2012 20:58

Tgt Ion: 43 Resp: 2629

Ion	Ratio	Lower	Upper
43	100		
74	0.0	19.4	29.2#
59	0.0	6.6	9.8#

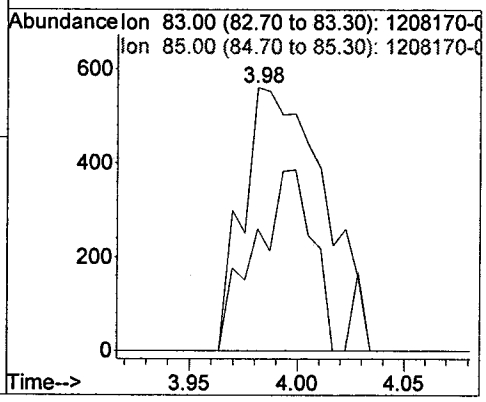




#28
chloroform
Concen: 0.17 ug/L
RT: 3.98 min Scan# 579
Delta R.T. -0.02 min
Lab File: 1208170-01.D
Acq: 17 Aug 2012 20:58

Tgt Ion: 83 Resp: 1459

Ion	Ratio	Lower	Upper
83	100		
85	0.0	44.5	84.5#



ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106099

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208170-02 File ID: 1208170-02.D

Sampled: 08/07/12 13:00 Prepared: 08/17/12 12:00 Analyzed: 08/17/12 21:26

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1210102 Sequence: 2H20042 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	5.0	1.1	5.0	U
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	5.0	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106099

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208170-02 File ID: 1208170-02.D

Sampled: 08/07/12 13:00 Prepared: 08/17/12 12:00 Analyzed: 08/17/12 21:26

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1210102 Sequence: 2H20042 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	0.36	0.21	1.0	J
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.4	101	85 - 118	
1,2-Dichloroethane-d4	40.0	39.1	98	87 - 122	
Toluene-d8	40.0	40.1	100	85 - 113	
4-Bromofluorobenzene	40.0	38.5	96	82 - 110	

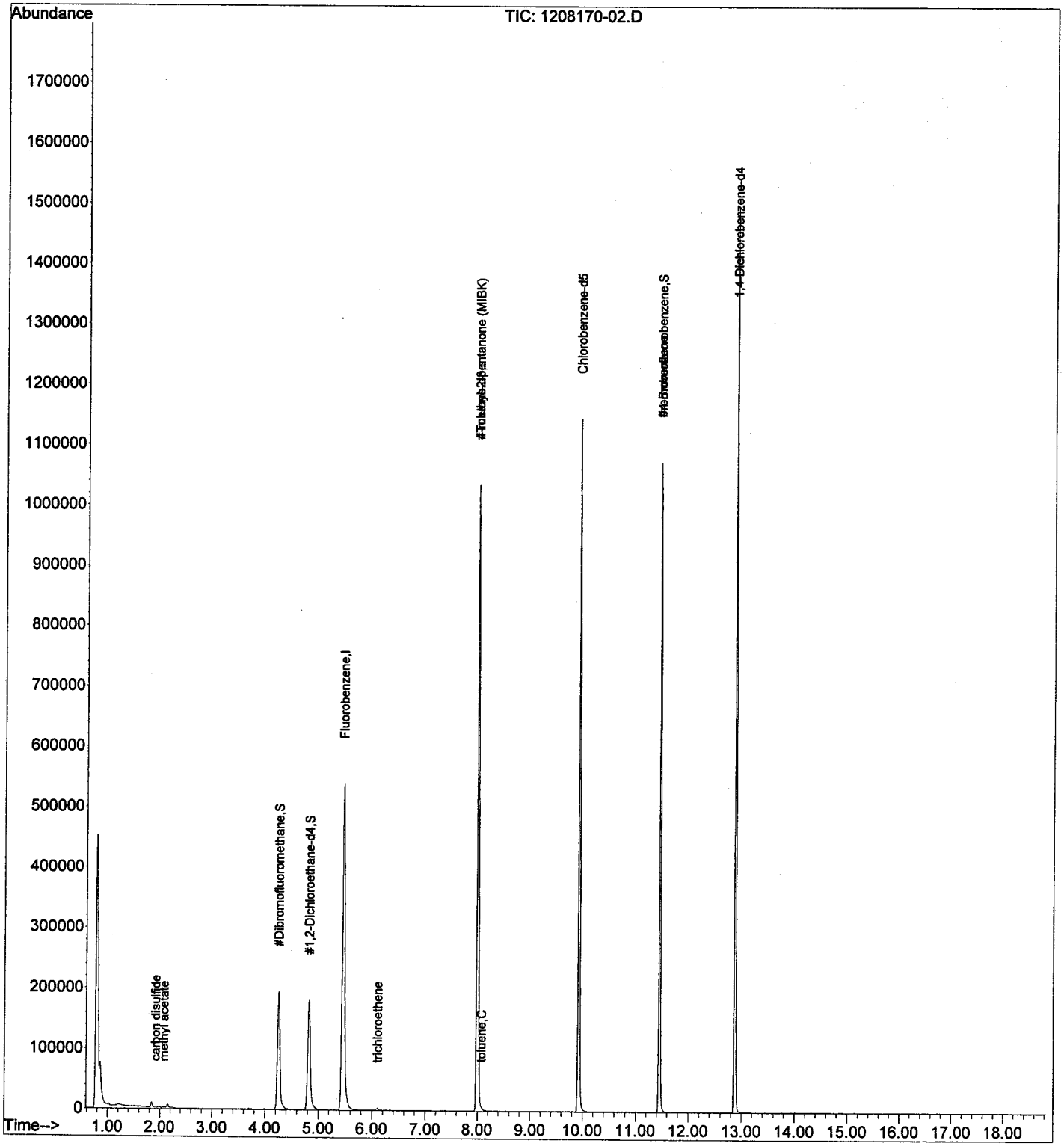
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	811821	5.46	94	5.46	
Chlorobenzene-d5	678612	9.93	97	9.93	
1,4-Dichlorobenzene-d4	420393	12.87	89	12.87	

* Values outside of QC limits

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-17-12\
Data File : 1208170-02.D
InstName : 323
Acq On : 17 Aug 2012 21:26
Operator : DLV
Sample : 1208170-02
Misc : TECH LAW
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 20 07:15:40 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration



Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-17-12\
Data File : 1208170-02.D
InstName : 323
Acq On : 17 Aug 2012 21:26
Operator : DLV
Sample : 1208170-02
Misc : TECH LAW
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 20 07:15:40 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	811821	40.00 ug/L	0.00 77.59%
50) Chlorobenzene-d5	9.93	117	678612	40.00 ug/L	0.00 81.34%
65) 1,4-Dichlorobenzene-d4	12.87	152	420393	40.00 ug/L	0.00 75.84%

System Monitoring Compounds					
30) #Dibromofluoromethane	4.25	111	198673	40.43 ug/L	-0.01
Spiked Amount 40.000			Recovery = 101.08%		
37) #1,2-Dichloroethane-d4	4.83	67	117628	39.10 ug/L	0.00
Spiked Amount 40.000			Recovery = 97.75%		
46) #Toluene-d8	7.99	98	810794	40.12 ug/L	0.00
Spiked Amount 40.000			Recovery = 100.30%		
64) #4-Bromofluorobenzene	11.45	95	331833	38.48 ug/L	0.00
Spiked Amount 40.000			Recovery = 96.20%		

Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	
3) chloromethane	0.00	50	0	N.D.	
4) vinyl chloride	0.00	62	0	N.D.	
5) bromomethane	0.00	94	0	N.D.	
6) chloroethane	0.00	64	0	N.D.	
7) dichlorofluoromethane	0.00	67	0	N.D.	
8) trichlorofluoromethane	0.00	101	0	N.D.	
9) ethyl ether	0.00	74	0	N.D.	
10) acrolein	0.00	56	0	N.D.	
11) 1,1,2-trichloro-1,2,2-tr	0.00	101	0	N.D.	
12) 1,1-dichloroethene	0.00	96	0	N.D.	
13) acetone	1.84	43	11708	Below Cal	95
14) iodomethane	0.00	142	0	N.D.	
15) carbon disulfide	1.91	76	1662	0.13 ug/L #	75
16) methyl acetate	2.08	43	2051	PS 0.65 ug/L #	58
17) methylene chloride	2.15	49	3125	Below Cal	92
18) acrylonitrile	0.00	53	0	N.D.	
19) trans-1,2-dichloroethene	0.00	96	0	N.D.	
20) methyl (tert) butyl ethe	0.00	73	0	N.D.	
21) 1,1-dichloroethane	0.00	63	0	N.D.	
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	0.00	77	0	N.D.	
24) cis-1,2-dichloroethene	0.00	96	0	N.D.	
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	0.00	49	0	N.D.	
27) tetrahydrofuran	0.00	71	0	N.D.	
28) chloroform	0.00	83	0	N.D.	
29) 1,1,1-trichloroethane	0.00	97	0	N.D.	
31) cyclohexane	0.00	56	0	N.D.	
32) carbon tetrachloride	0.00	117	0	N.D.	
33) 1,1-dichloropropene	0.00	75	0	N.D.	
34) benzene	0.00	78	0	N.D.	
35) 1,2-dichloroethane	0.00	62	0	N.D.	
36) heptane	0.00	57	0	N.D.	

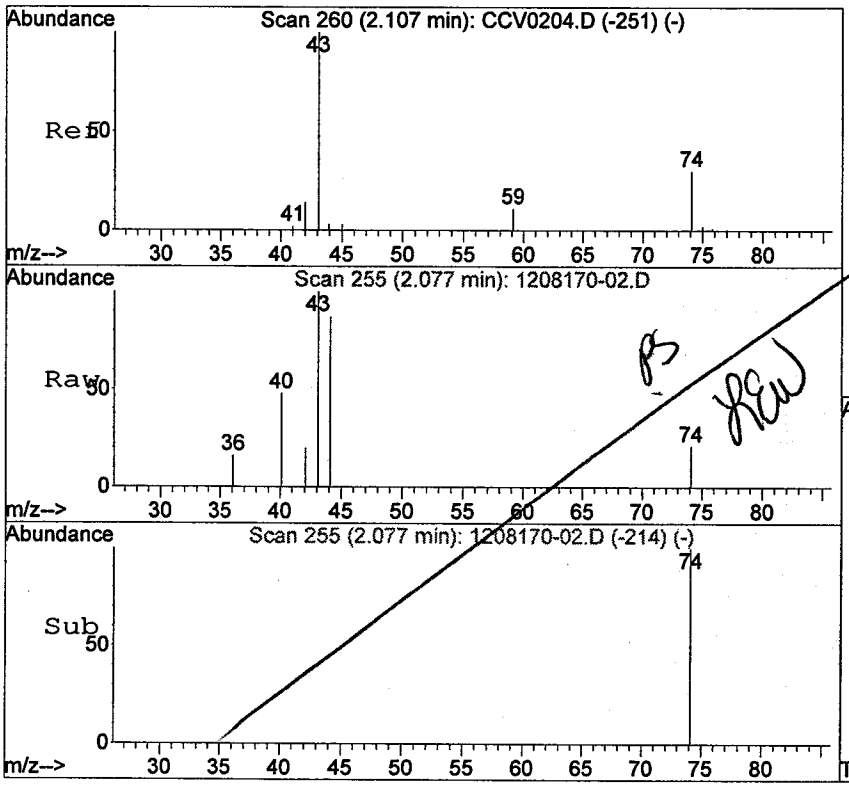
Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-17-12\
Data File : 1208170-02.D
InstName : 323
Acq On : 17 Aug 2012 21:26
Operator : DLV
Sample : 1208170-02
Misc : TECH LAW
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 20 07:15:40 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
38) trichloroethene	6.10	130	1989	0.36 ug/L #	78
39) methylcyclohexane	0.00	83	0	N.D.	
40) 1,2-dichloropropane	0.00	63	0	N.D.	
41) dibromomethane	0.00	93	0	N.D.	
42) bromodichloromethane	0.00	83	0	N.D.	
43) 2-chloroehtyl vinyl ethe	0.00	63	0	N.D.	
44) cis-1,3-dichloropropene	0.00	75	0	N.D.	
45) 4-methyl-2-pentanone (MIBK	7.99	43	3713	~~0.95~~ ug/L #	1
47) toluene	8.08	91	1346	0.06 ug/L #	21
48) trans-1,3-dichloropropen	0.00	75	0	N.D.	
49) 1,1,2-trichloroethane	0.00	83	0	N.D.	
51) tetrachloroethene	0.00	166	0	N.D.	
52) 1,3-dichloropropane	0.00	76	0	N.D.	
53) 2-hexanone (MBK)	0.00	43	0	N.D.	
54) dibromochloromethane	0.00	129	0	N.D.	
55) 1,2-dibromoethane	0.00	109	0	N.D.	
56) chlorobenzene	0.00	112	0	N.D.	
57) 1-chlorohexane	0.00	55	0	N.D.	
58) 1,1,1,2-tetrachloroethan	0.00	131	0	N.D.	
59) ethylbenzene	0.00	91	0	N.D.	
60) m+p-xylene	0.00	106	0	N.D.	
61) o-xylene	0.00	106	0	N.D.	
62) styrene	0.00	104	0	N.D.	
63) bromoform	0.00	173	0	N.D.	
66) isopropylbenzene	0.00	105	0	N.D.	
67) bromobenzene	11.45	77	1815	0.19 ug/L #	12
68) 1,1,2,2-tetrachloroethan	0.00	83	0	N.D.	
69) 1,2,3-trichloropropane	0.00	110	0	N.D.	
70) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
71) n-propylbenzene	0.00	120	0	N.D.	
72) 2-chlorotoluene	0.00	126	0	N.D.	
73) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
74) 4-chlorotoluene	0.00	91	0	N.D.	
75) tert-butylbenzene	0.00	119	0	N.D.	
76) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
77) sec-butylbenzene	0.00	105	0	N.D.	
78) 1,3-dichlorobenzene	0.00	146	0	N.D.	
79) 4-isopropyltoluene	0.00	119	0	N.D.	
80) 1,4-dichlorobenzene	0.00	146	0	N.D.	
81) 1,2-dichlorobenzene	0.00	146	0	N.D.	
82) n-butylbenzene	0.00	91	0	N.D.	
83) hexachloroethane	0.00	201	0	N.D.	
84) 1,2-dibromo-3-chloroprop	0.00	157	0	N.D.	
85) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
86) hexachlorobutadiene	0.00	225	0	N.D.	
87) naphthalene	0.00	128	0	N.D.	
88) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
89) 2-methylnaphthalene	0.00	142	0	N.D.	

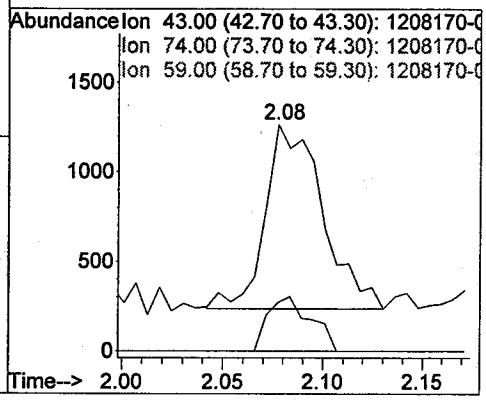
(#) = qualifier out of range (m) = manual integration (+) = signals summed

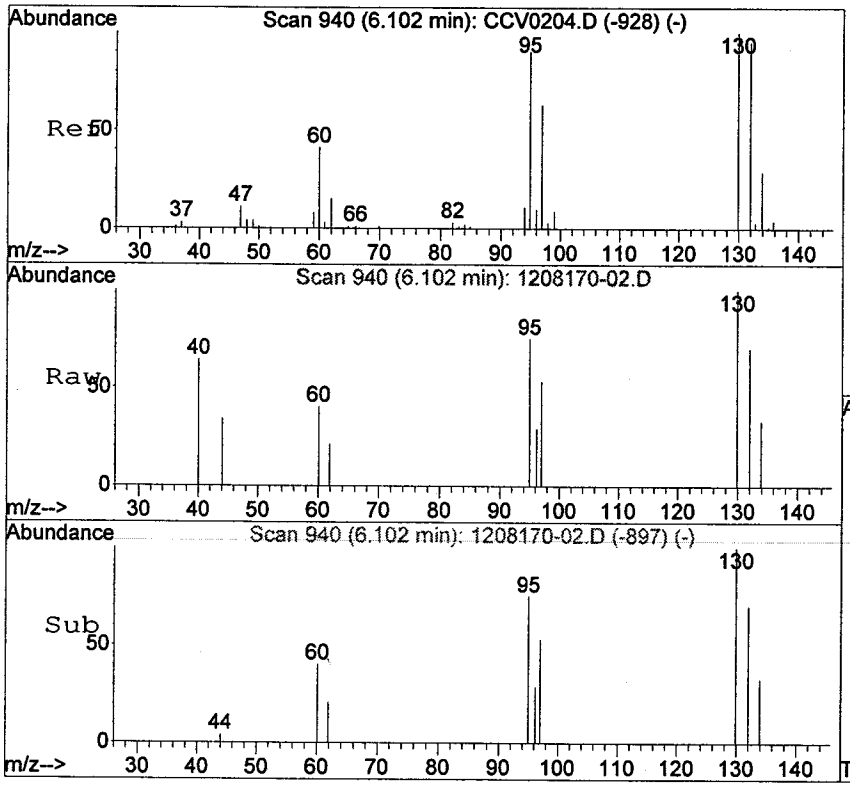


#16
methyl acetate
Concen: 0.65 ug/L
RT: 2.08 min Scan# 255
Delta R.T. -0.01 min
Lab File: 1208170-02.D
Acq: 17 Aug 2012 21:26

Tgt Ion: 43 Resp: 2051

Ion	Ratio	Lower	Upper
43	100		
74	0.0	19.4	29.2#
59	0.0	6.6	9.8#

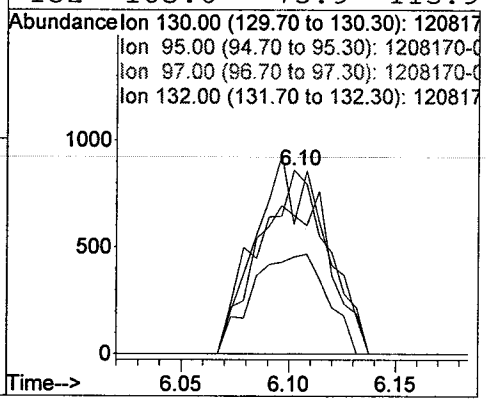




#38
trichloroethene
Concen: 0.36 ug/L
RT: 6.10 min Scan# 940
Delta R.T. -0.00 min
Lab File: 1208170-02.D
Acq: 17 Aug 2012 21:26

Tgt Ion:130 Resp: 1989

Ion	Ratio	Lower	Upper
130	100		
95	90.3	68.4	108.4
97	0.0	37.1	77.1#
132	103.0	75.9	115.9



ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106066

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208192-01 File ID: 1208192-01.D

Sampled: 08/08/12 11:32 Prepared: 08/17/12 12:00 Analyzed: 08/17/12 21:53

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1210102 Sequence: 2H20042 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	5.0	1.1	5.0	U
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	5.0	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106066

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208192-01 File ID: 1208192-01.D

Sampled: 08/08/12 11:32 Prepared: 08/17/12 12:00 Analyzed: 08/17/12 21:53

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1210102 Sequence: 2H20042 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.4	99	85 - 118	
1,2-Dichloroethane-d4	40.0	39.1	98	87 - 122	
Toluene-d8	40.0	40.2	100	85 - 113	
4-Bromofluorobenzene	40.0	38.5	96	82 - 110	

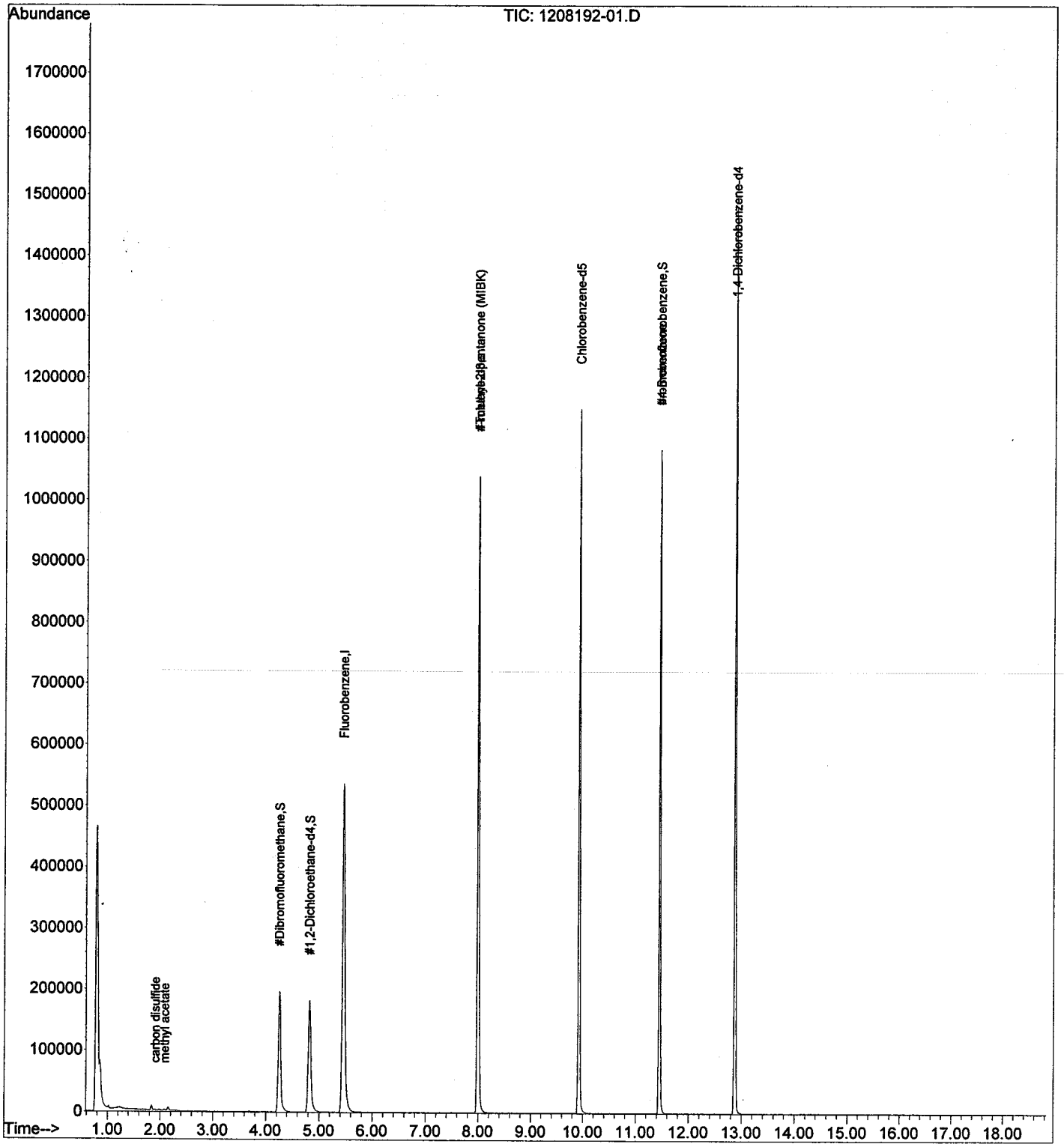
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	810406	5.46	94	5.46	
Chlorobenzene-d5	679086	9.93	97	9.93	
1,4-Dichlorobenzene-d4	414455	12.87	88	12.87	

* Values outside of QC limits

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-17-12\
Data File : 1208192-01.D
InstName : 323
Acq On : 17 Aug 2012 21:53
Operator : DLV
Sample : 1208192-01
Misc : TECH LAW
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 20 07:15:45 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration



Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-17-12\
Data File : 1208192-01.D
InstName : 323
Acq On : 17 Aug 2012 21:53
Operator : DLV
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Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	810406	40.00 ug/L	0.00 77.45%
50) Chlorobenzene-d5	9.93	117	679086	40.00 ug/L	0.00 81.39%
65) 1,4-Dichlorobenzene-d4	12.87	152	414455	40.00 ug/L	0.00 74.77%

System Monitoring Compounds					
30) #Dibromofluoromethane	4.26	111	193337	39.41 ug/L	0.00
Spiked Amount 40.000			Recovery =	98.52%	
37) #1,2-Dichloroethane-d4	4.82	67	117414	39.10 ug/L	-0.01
Spiked Amount 40.000			Recovery =	97.75%	
46) #Toluene-d8	7.99	98	810391	40.17 ug/L	0.00
Spiked Amount 40.000			Recovery =	100.43%	
64) #4-Bromofluorobenzene	11.45	95	331990	38.47 ug/L	0.00
Spiked Amount 40.000			Recovery =	96.17%	

Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	
3) chloromethane	0.00	50	0	N.D.	
4) vinyl chloride	0.00	62	0	N.D.	
5) bromomethane	0.00	94	0	N.D.	
6) chloroethane	0.00	64	0	N.D.	
7) dichlorofluoromethane	0.00	67	0	N.D.	
8) trichlorofluoromethane	0.00	101	0	N.D.	
9) ethyl ether	0.00	74	0	N.D.	
10) acrolein	0.00	56	0	N.D.	
11) 1,1,2-trichloro-1,2,2-tr	0.00	101	0	N.D.	
12) 1,1-dichloroethene	0.00	96	0	N.D.	
13) acetone	1.84	43	10661	Below Cal	95
14) iodomethane	0.00	142	0	N.D.	
15) carbon disulfide	1.91	76	1727	0.13 ug/L #	75
16) methyl acetate	2.08	43	2157	B ~~0.69~~ ug/L #	58
17) methylene chloride	2.15	49	3018	Below Cal	94
18) acrylonitrile	0.00	53	0	N.D.	
19) trans-1,2-dichloroethene	0.00	96	0	N.D.	
20) methyl (tert) butyl ethe	0.00	73	0	N.D.	
21) 1,1-dichloroethane	0.00	63	0	N.D.	
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	0.00	77	0	N.D.	
24) cis-1,2-dichloroethene	0.00	96	0	N.D.	
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	0.00	49	0	N.D.	
27) tetrahydrofuran	0.00	71	0	N.D.	
28) chloroform	0.00	83	0	N.D.	
29) 1,1,1-trichloroethane	0.00	97	0	N.D.	
31) cyclohexane	0.00	56	0	N.D.	
32) carbon tetrachloride	0.00	117	0	N.D.	
33) 1,1-dichloropropene	0.00	75	0	N.D.	
34) benzene	0.00	78	0	N.D.	
35) 1,2-dichloroethane	0.00	62	0	N.D.	
36) heptane	0.00	57	0	N.D.	

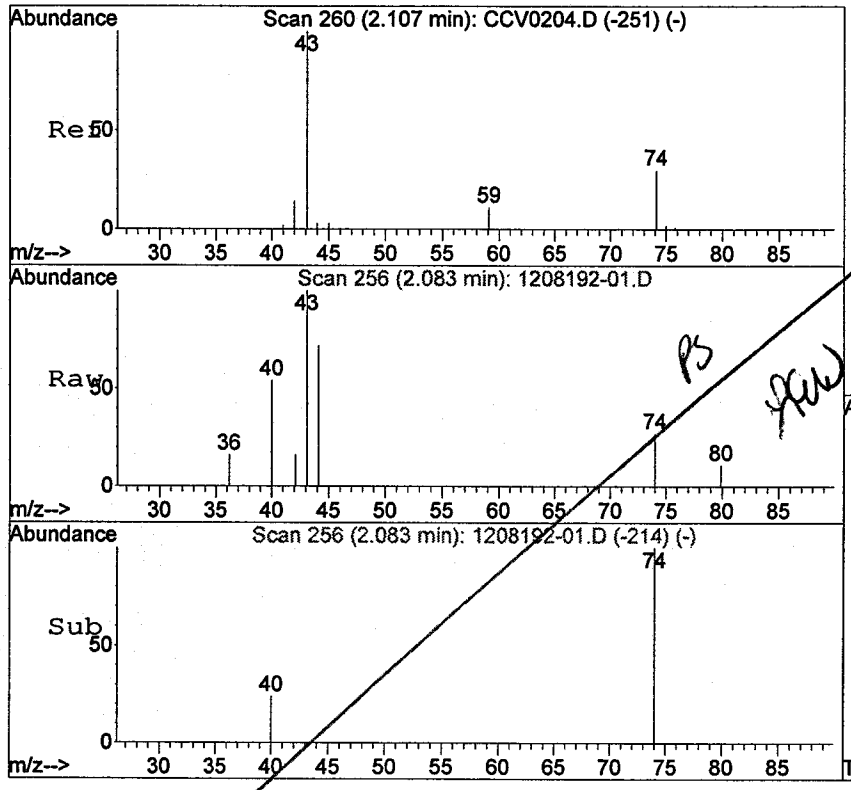
Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-17-12\
Data File : 1208192-01.D
InstName : 323
Acq On : 17 Aug 2012 21:53
Operator : DLV
Sample : 1208192-01
Misc : TECH LAW
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 20 07:15:45 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
38) trichloroethene	0.00	130	0	N.D.	
39) methylcyclohexane	0.00	83	0	N.D.	
40) 1,2-dichloropropane	0.00	63	0	N.D.	
41) dibromomethane	0.00	93	0	N.D.	
42) bromodichloromethane	0.00	83	0	N.D.	
43) 2-chloroehtyl vinyl ethe	0.00	63	0	N.D.	
44) cis-1,3-dichloropropene	0.00	75	0	N.D.	
45) 4-methyl-2-pentanone (MIBK	7.99	43	3810	~~0.98~~ ug/L #	1
47) toluene	0.00	91	0	N.D.	
48) trans-1,3-dichloropropen	0.00	75	0	N.D.	
49) 1,1,2-trichloroethane	0.00	83	0	N.D.	
51) tetrachloroethene	0.00	166	0	N.D.	
52) 1,3-dichloropropane	0.00	76	0	N.D.	
53) 2-hexanone (MBK)	0.00	43	0	N.D.	
54) dibromochloromethane	0.00	129	0	N.D.	
55) 1,2-dibromoethane	0.00	109	0	N.D.	
56) chlorobenzene	0.00	112	0	N.D.	
57) 1-chlorohexane	0.00	55	0	N.D.	
58) 1,1,1,2-tetrachloroethan	0.00	131	0	N.D.	
59) ethylbenzene	0.00	91	0	N.D.	
60) m+p-xylene	0.00	106	0	N.D.	
61) o-xylene	0.00	106	0	N.D.	
62) styrene	0.00	104	0	N.D.	
63) bromoform	0.00	173	0	N.D.	
66) isopropylbenzene	0.00	105	0	N.D.	
67) bromobenzene	11.45	77	1821	0.19 ug/L #	12
68) 1,1,2,2-tetrachloroethan	0.00	83	0	N.D.	
69) 1,2,3-trichloropropane	0.00	110	0	N.D.	
70) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
71) n-propylbenzene	0.00	120	0	N.D.	
72) 2-chlorotoluene	0.00	126	0	N.D.	
73) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
74) 4-chlorotoluene	0.00	91	0	N.D.	
75) tert-butylbenzene	0.00	119	0	N.D.	
76) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
77) sec-butylbenzene	0.00	105	0	N.D.	
78) 1,3-dichlorobenzene	0.00	146	0	N.D.	
79) 4-isopropyltoluene	0.00	119	0	N.D.	
80) 1,4-dichlorobenzene	0.00	146	0	N.D.	
81) 1,2-dichlorobenzene	0.00	146	0	N.D.	
82) n-butylbenzene	0.00	91	0	N.D.	
83) hexachloroethane	0.00	201	0	N.D.	
84) 1,2-dibromo-3-chloroprop	0.00	157	0	N.D.	
85) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
86) hexachlorobutadiene	0.00	225	0	N.D.	
87) naphthalene	0.00	128	0	N.D.	
88) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
89) 2-methylnaphthalene	0.00	142	0	N.D.	

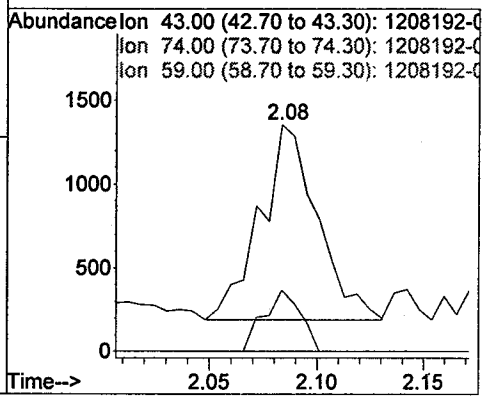
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#16
methyl acetate
Concen: 0.69 ug/L
RT: 2.08 min Scan# 256
Delta R.T. -0.01 min
Lab File: 1208192-01.D
Acq: 17 Aug 2012 21:53

Tgt Ion: 43 Resp: 2157

Ion	Ratio	Lower	Upper
43	100		
74	0.0	19.4	29.2#
59	0.0	6.6	9.8#



PS

INITIAL CALIBRATION DATA
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2G19002

SDG: KNM070512

Project: KNM

Calibration Date: 07/17/12 00:00

Instrument: 224

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	1	~~0.5424299~~	5	0.1548697	10	0.1147045	20	7.459706E-02	40	6.835897E-02	100	6.689965E-02
Benzene	1	0.7845744	5	0.7956769	10	0.9189806	20	0.9336951	40	0.9084488	100	0.9144491
Bromodichloromethane	1	0.2212484	5	0.2264205	10	0.2670826	20	0.2726926	40	0.2733669	100	0.2811368
Bromoform	1	0.1626654	5	0.1442867	10	0.1756896	20	0.1888959	40	0.2082008	100	0.223916
Bromomethane	1	4.856079E-02	5	5.204321E-02	10	6.581752E-02	20	7.057007E-02	40	7.820561E-02	100	0.0839687
Carbon Disulfide	1	0.2781745	5	0.2861338	10	0.3104731	20	0.2932585	40	0.3171606	100	0.3452844
Carbon Tetrachloride	1	0.2282253	5	0.230844	10	0.2745431	20	0.2896154	40	0.2902831	100	0.2964223
Chlorobenzene	1	0.822224	5	0.7617203	10	0.8699357	20	0.8703609	40	0.8694593	100	0.8599747
Chloroethane	1	0.1236408	5	0.1176822	10	0.1386964	20	0.1407074	40	0.1341418	100	0.1263102
Chloroform	1	0.3320114	5	0.3212931	10	0.3648636	20	0.3722193	40	0.3689837	100	0.3653556
Chloromethane	1	0.2131954	5	0.2065115	10	0.2342053	20	0.2368894	40	0.2270773	100	0.2196728
Cyclohexane	1	0.3110806	5	0.3206632	10	0.3806038	20	0.410645	40	0.4010981	100	0.402
1,2-Dibromo-3-chloropropane	1	0.2114094	5	0.1477695	10	0.1664292	20	0.1770695	40	0.1889375	100	0.2081489
Dibromochloromethane	1	0.2156611	5	0.2111674	10	0.2477465	20	0.2609554	40	0.2787103	100	0.2899521
1,2-Dibromoethane	1	0.2062938	5	0.1995949	10	0.2377751	20	0.2385969	40	0.2491919	100	0.2482785
1,2-Dichlorobenzene	1	1.118462	5	0.9219616	10	1.049793	20	1.073483	40	1.076218	100	1.097876
1,3-Dichlorobenzene	1	1.10953	5	0.9571582	10	1.104192	20	1.118711	40	1.120538	100	1.142438
1,4-Dichlorobenzene	1	1.323302	5	1.013585	10	1.156425	20	1.159147	40	1.127845	100	1.156497
Dichlorodifluoromethane	1	0.251933	5	0.2539374	10	0.2882877	20	0.296694	40	0.2824244	100	0.2783878
1,1-Dichloroethane	1	0.3118096	5	0.3131315	10	0.3636348	20	0.3723258	40	0.3669207	100	0.3669335
1,2-Dichloroethane	1	0.2559942	5	0.2561041	10	0.2939837	20	0.2871081	40	0.2878432	100	0.2838715
1,1-Dichloroethene	1	0.1550891	5	0.1445622	10	0.1663293	20	0.1740243	40	0.1651263	100	0.1649419
cis-1,2-Dichloroethene	1	0.200873	5	0.1938572	10	0.2297837	20	0.2349718	40	0.2346763	100	0.2338145
trans-1,2-Dichloroethene	1	0.1889671	5	0.1803376	10	0.2102099	20	0.2176966	40	0.2120007	100	0.2101116
1,2-Dichloropropane	1	0.1827191	5	0.194141	10	0.2183741	20	0.2196019	40	0.220069	100	0.2183708
cis-1,3-Dichloropropene	1	0.2239558	5	0.225486	10	0.2785061	20	0.2943665	40	0.3089129	100	0.3237148
trans-1,3-Dichloropropene	1	0.1813306	5	0.1976368	10	0.2447081	20	0.2672454	40	0.2878932	100	0.3086851
Ethylbenzene	1	1.162953	5	1.192894	10	1.441155	20	1.488422	40	1.491113	100	1.493331
2-Hexanone	1	~~9.444262E-02~~	5	0.132101	10	0.1664176	20	0.1480952	40	0.1867501	100	0.202325
Isopropylbenzene	1	1.710541	5	1.795914	10	2.137212	20	2.270159	40	2.244598	100	2.288816
Methyl Acetate	1	~~0.4801236~~	5	0.2179336	10	0.2029035	20	0.1846153	40	0.184196	100	0.1825563

INITIAL CALIBRATION DATA
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2G19002

SDG: KNM070512

Project: KNM

Calibration Date: 07/17/12 00:00

Instrument: 224

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl tert-Butyl Ether	1	0.4587763	5	0.4541286	10	0.5442408	20	0.552771	40	0.5632377	100	0.5784324
Methylcyclohexane	1	0.3018822	5	0.3181226	10	0.3752789	20	0.4094533	40	0.4007151	100	0.4000608
Methylene Chloride	1	0.353567	5	0.2555711	10	0.2841111	20	0.2766027	40	0.2691762	100	0.2637298
2-Butanone (MEK)	1	7.747512E-02	5	9.119677E-02	10	0.1010334	20	8.096732E-02	40	9.387899E-02	100	0.1026594
4-Methyl-2-pentanone (MIBK)	1	~~0.1337418~~	5	0.1669495	10	0.1880946	20	0.1685439	40	0.2022869	100	0.2223948
Styrene	1	0.7229908	5	0.7763925	10	0.9431926	20	0.9695572	40	0.9828671	100	0.9693341
1,1,2,2-Tetrachloroethane	1	0.7941877	5	0.5532924	10	0.5989512	20	0.5943038	40	0.5860688	100	0.588083
Tetrachloroethene	1	0.3406436	5	0.3384827	10	0.3888213	20	0.4046004	40	0.4007054	100	0.3947765
Toluene	1	0.9170319	5	0.8870467	10	1.032414	20	1.059579	40	1.040302	100	1.046421
1,2,4-Trichlorobenzene	1	0.5540639	5	0.4475398	10	0.5279246	20	0.5527641	40	0.5803063	100	0.6280821
1,1,1-Trichloroethane	1	0.2539115	5	0.2617182	10	0.3056909	20	0.315735	40	0.3126034	100	0.3184574
1,1,2-Trichloroethane	1	0.1509237	5	0.1393149	10	0.1599436	20	0.1623551	40	0.1622552	100	0.1631259
Trichloroethene	1	0.2368684	5	0.2216371	10	0.2582462	20	0.268034	40	0.2648303	100	0.2673625
Trichlorofluoromethane	1	0.290497	5	0.295493	10	0.3346716	20	0.3499941	40	0.3320862	100	0.3340331
1,1,2-Trichloro-1,2,2-trifluoro	1	0.1584213	5	0.153423	10	0.1778613	20	0.1832072	40	0.1768143	100	0.174276
Vinyl Chloride	1	0.2194434	5	0.2119733	10	0.2519235	20	0.2590326	40	0.2496261	100	0.2455841
Xylene (Total)	3	0.457157	15	0.475395	30	0.5675239	60	0.5917933	120	0.588393	300	0.5812328
Dibromofluoromethane	40	0.2341349	40	0.2341529	40	0.234706	40	0.2339572	40	0.233412	40	0.2360606
1,2-Dichloroethane-d4	40	0.2719543	40	0.2692438	40	0.2691184	40	0.2679127	40	0.2638808	40	0.2633366
Toluene-d8	40	1.004545	40	1.018997	40	1.020132	40	1.022553	40	1.018912	40	1.024594
4-Bromofluorobenzene	40	0.489056	40	0.4924111	40	0.4972433	40	0.4970376	40	0.4990309	40	0.4957536

INITIAL CALIBRATION DATA (Continued)
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2G19002

SDG: KNM070512
Project: KNM
Calibration Date: 07/17/12 00:00
Instrument: 224

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	200	6.224648E-02										
Benzene	200	0.9254816										
Bromodichloromethane	200	0.2888257										
Bromoform	200	0.2332139										
Bromomethane	200	7.945397E-02										
Carbon Disulfide	200	0.3607161										
Carbon Tetrachloride	200	0.3021572										
Chlorobenzene	200	0.873125										
Chloroethane	200	0.1156447										
Chloroform	200	0.3693895										
Chloromethane	200	0.2170768										
Cyclohexane	200	0.4009374										
1,2-Dibromo-3-chloropropane	200	0.212548										
Dibromochloromethane	200	0.2989669										
1,2-Dibromoethane	200	0.2513194										
1,2-Dichlorobenzene	200	1.126299										
1,3-Dichlorobenzene	200	1.177857										
1,4-Dichlorobenzene	200	1.184114										
Dichlorodifluoromethane	200	0.2706663										
1,1-Dichloroethane	200	0.3716061										
1,2-Dichloroethane	200	0.2838671										
1,1-Dichloroethene	200	0.1666347										
cis-1,2-Dichloroethene	200	0.2345886										
trans-1,2-Dichloroethene	200	0.2092903										
1,2-Dichloropropane	200	0.2208693										
cis-1,3-Dichloropropene	200	0.3339993										
trans-1,3-Dichloropropene	200	0.3218714										
Ethylbenzene	200	1.559964										
2-Hexanone	200	0.2031382										
Isopropylbenzene	200	2.41949										
Methyl Acetate	200	0.1787559										

INITIAL CALIBRATION DATA (Continued)
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2G19002

SDG: KNM070512
Project: KNM
Calibration Date: 07/17/12 00:00
Instrument: 224

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl tert-Butyl Ether	200	0.5794441										
Methylcyclohexane	200	0.4040691										
Methylene Chloride	200	0.2612123										
2-Butanone (MEK)	200	0.1017636										
4-Methyl-2-pentanone (MIBK)	200	0.2230016										
Styrene	200	0.9983053										
1,1,2,2-Tetrachloroethane	200	0.5840702										
Tetrachloroethene	200	0.4018377										
Toluene	200	1.072527										
1,2,4-Trichlorobenzene	200	0.6501904										
1,1,1-Trichloroethane	200	0.3232832										
1,1,2-Trichloroethane	200	0.1629741										
Trichloroethene	200	0.2676409										
Trichlorofluoromethane	200	0.3346971										
1,1,2-Trichloro-1,2,2-trifluoro	200	0.1712326										
Vinyl Chloride	200	0.2430803										
Xylene (Total)	600	0.5852439										
Dibromofluoromethane	40	0.2346724										
1,2-Dichloroethane-d4	40	0.263499										
Toluene-d8	40	1.029447										
4-Bromofluorobenzene	40	0.5035415										

INITIAL CALIBRATION DATA (Continued)
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2G19002

SDG: KNM070512
Project: KNM
Calibration Date: 07/17/12 00:00
Instrument: 224

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	Limit	Q
Acetone	9.027939E-02	40.93113	2.45	1.878064E-02	0.99905		0.99	
Benzene	0.8830438	7.253974	6.13	1.690875E-02			15	
Bromodichloromethane	0.2615391	10.21234	7.93	1.858595E-02			15	
Bromoform	0.1909812	17.08125	11.88286	3.630546E-02	0.99948		SPCC (0.1)	
Bromomethane	6.837427E-02	20.09981	1.667143	0.2930773	0.99894		0.99	
Carbon Disulfide	0.3130287	9.817976	2.587143	0.1881365			15	
Carbon Tetrachloride	0.2731558	11.3406	5.77	0.0103477			15	
Chlorobenzene	0.8466857	4.896573	10.83	1.916913E-02			SPCC (0.3)	
Chloroethane	0.1281176	7.769376	1.745714	0.306236			15	
Chloroform	0.3563023	5.793212	5.22	2.741014E-03			CCC (30)	
Chloromethane	0.2220898	5.012143	1.361429	0.2779002			SPCC (0.1)	
Cyclohexane	0.3752897	11.10559	5.57	1.273736E-02			15	
1,2-Dibromo-3-chloropropane	0.1874731	13.35086	15.20143	2.402318E-02			15	
Dibromochloromethane	0.2575942	13.47284	10.06143	0.0332301			15	
1,2-Dibromoethane	0.2330072	9.128449	10.18143	3.926957E-02			15	
1,2-Dichlorobenzene	1.066299	6.471842	14.23	1.183785E-02			15	
1,3-Dichlorobenzene	1.104346	6.296924	13.66	5.490682E-03			15	
1,4-Dichlorobenzene	1.160131	7.848681	13.77143	3.035806E-02			15	
Dichlorodifluoromethane	0.2746187	6.142528	1.217143	0.4012054			15	
1,1-Dichloroethane	0.3523374	7.775963	3.71	1.328697E-02			SPCC (0.1)	
1,2-Dichloroethane	0.278396	5.616271	6.18	7.678744E-03			15	
1,1-Dichloroethene	0.1623868	5.917509	2.388572	0.1582931			CCC (30)	
cis-1,2-Dichloroethene	0.2232236	8.004302	4.61	1.913804E-02			15	
trans-1,2-Dichloroethene	0.2040877	6.757993	3.18	2.065086E-02			15	
1,2-Dichloropropane	0.2105922	7.36969	7.494286	7.222273E-02			CCC (30)	
cis-1,3-Dichloropropene	0.2841345	15.65043	8.57	0.0173086	0.99975		0.99	
trans-1,3-Dichloropropene	0.2584815	20.78865	9.35	1.215041E-02	0.99951		0.99	
Ethylbenzene	1.404262	11.29966	11	0			CCC (30)	
2-Hexanone	0.1731379	16.92504	9.95	1.299104E-02	0.99961		0.99	
Isopropylbenzene	2.123819	12.59246	12.13	8.544984E-03			15	
Methyl Acetate	0.1918268	7.978789	2.778333	0.1464028			15	
Methyl tert-Butyl Ether	0.5330044	10.09836	3.19	2.047963E-02			15	

INITIAL CALIBRATION DATA (Continued)
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2G19002

SDG: KNM070512
Project: KNM
Calibration Date: 07/17/12 00:00
Instrument: 224

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	Limit	Q
Methylcyclohexane	0.3727974	11.93036	7.422857	6.541267E-02			15	
Methylene Chloride	0.2805672	11.97234	2.878572	0.1292747			15	
2-Butanone (MEK)	9.271066E-02	10.99884	4.681428	8.299698E-02			15	
4-Methyl-2-pentanone (MIBK)	0.1952119	12.80011	8.83	2.384445E-02			15	
Styrene	0.9089485	12.22565	11.67429	4.760709E-02			15	
1,1,2,2-Tetrachloroethane	0.6141367	13.14712	12.53	0.0227424			SPCC (0.3)	
Tetrachloroethene	0.3814097	7.618144	9.72	2.114986E-02			15	
Toluene	1.007903	7.340715	9	0			CCC (30)	
1,2,4-Trichlorobenzene	0.5629816	11.88971	16.22571	2.798071E-02			15	
1,1,1-Trichloroethane	0.2987714	9.565625	5.49	1.784249E-02			15	
1,1,2-Trichloroethane	0.1572704	5.730557	9.571428	3.658437E-02			15	
Trichloroethene	0.2549456	7.217489	7.17	5.230315E-03			15	
Trichlorofluoromethane	0.324496	6.894841	1.94	1.855018E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.170748	6.359259	2.398572	0.1563154			15	
Vinyl Chloride	0.2400948	7.305151	1.43	2.272325E-02			CCC (30)	
Xylene (Total)	0.5495341	10.48768	11.65571	4.502389E-02			15	
Dibromofluoromethane	0.2344423	0.3576731	5.508572	6.661112E-02			15	
1,2-Dichloroethane-d4	0.2669922	1.282206	6.051429	5.901754E-02			15	
Toluene-d8	1.019883	0.7571577	8.91	1.873922E-02			15	
4-Bromofluorobenzene	0.4962963	0.9351446	12.30429	4.791126E-02			15	

Response Factor Report 224

2G19002

2G20001

Method Path : C:\MSDCHEM\2\METHODS\
Method File : 8260B-B33.M
Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
Last Update : Wed Jul 18 07:30:29 2012
Response Via : Initial Calibration

Calibration Files
1 =1P0717.D 2 =5P0717.D 3 =10P0717.D
4 =20P0717.D 5 =40P0717.D 6 =100P0717.D
7 =200P0717.D

		Compound	1	2	3	4	5	6	7	Avg	%RSD
1)	I	Fluorobenzene		----------ISTD----------							
2)		dichlorodifluor	0.252	0.254	0.288	0.297	0.282	0.278	0.271	0.275	6.14
3)	P	chloromethane	0.213	0.207	0.234	0.237	0.227	0.220	0.217	0.222	5.01
4)	C	vinyl chloride	0.219	0.212	0.252	0.259	0.250	0.246	0.243	0.240	7.31#
5)		bromomethane	0.049	0.052	0.066	0.071	0.078	0.084	0.079	-----	
								L	M=	0.081	R=0.999
									B=	-0.002	
6)		chloroethane	0.124	0.118	0.139	0.141	0.134	0.126	0.116	0.128	7.77
7)		dichlorofluorom	0.309	0.300	0.336	0.351	0.335	0.334	0.329	0.328	5.32
8)		trichlorofluoro	0.290	0.295	0.335	0.350	0.332	0.334	0.335	0.324	6.89
9)		ethyl ether	0.081	0.085	0.100	0.100	0.099	0.101	0.099	0.095	8.91
*10)		acrolein	0.031	0.028	0.033	0.033	0.033	0.034	0.033	0.032	6.12
11)		1,1,2-trichloro	0.158	0.153	0.178	0.183	0.177	0.174	0.171	0.171	6.36
12)	C	1,1-dichloroeth	0.155	0.145	0.166	0.174	0.165	0.165	0.167	0.162	5.92#
13)		acetone		0.155	0.115	0.075	0.068	0.067	0.062	-----	
								L	M=	0.060	R=0.999
									B=	0.011	
14)		iodomethane	0.027	0.048	0.078	0.093	0.127	0.154	0.169	-----	
								L	M=	0.172	R=0.997
									B=	-0.027	
*15)		carbon disulfid	0.278	0.286	0.310	0.293	0.317	0.345	0.361	0.313	9.82
16)		methyl acetate		0.218	0.203	0.185	0.184	0.183	0.179	0.192	7.98
17)		methylene chlor	0.354	0.256	0.284	0.277	0.269	0.264	0.261	0.281	11.97
18)		acrylonitrile	0.081	0.082	0.095	0.094	0.096	0.097	0.094	0.091	7.26
19)		trans-1,2-dichl	0.189	0.180	0.210	0.218	0.212	0.210	0.209	0.204	6.76
20)		methyl (tert) b	0.459	0.454	0.544	0.553	0.563	0.578	0.579	0.533	10.10
21)	P	1,1-dichloroeth	0.312	0.313	0.364	0.372	0.367	0.367	0.372	0.352	7.78
22)		vinyl acetate	0.284	0.319	0.367	0.312	0.371	0.398	0.408	0.351	13.28
23)		2,2-dichloropro	0.190	0.193	0.231	0.242	0.246	0.257	0.257	0.231	12.28
24)		cis-1,2-dichlor	0.201	0.194	0.230	0.235	0.235	0.234	0.235	0.223	8.00
25)		2-butanone (MEK	0.077	0.091	0.101	0.081	0.094	0.103	0.102	0.093	11.00
26)		bromochlorometh	0.170	0.162	0.192	0.185	0.184	0.182	0.181	0.179	5.65
27)		tetrahydrofuran		0.027	0.032	0.032	0.035	0.038	0.038	0.033	12.26
28)	C	chloroform	0.332	0.321	0.365	0.372	0.369	0.365	0.369	0.356	5.79#
29)	S	#Dibromofluorom	0.234	0.234	0.235	0.234	0.233	0.236	0.235	0.234	0.36
30)		1,1,1-trichloro	0.254	0.262	0.306	0.316	0.313	0.318	0.323	0.299	9.57
31)		cyclohexane	0.311	0.321	0.381	0.411	0.401	0.402	0.401	0.375	11.11
32)		carbon tetrachl	0.228	0.231	0.275	0.290	0.290	0.296	0.302	0.273	11.34
33)		1,1-dichloropro	0.239	0.246	0.291	0.310	0.300	0.302	0.305	0.285	10.33
34)		benzene	0.785	0.796	0.919	0.934	0.908	0.914	0.925	0.883	7.25
35)		1,2-dichloroeth	0.256	0.256	0.294	0.287	0.288	0.284	0.284	0.278	5.62
36)		heptane								0.000	-1.00
37)	s	#1,2-Dichloroet	0.272	0.269	0.269	0.268	0.264	0.263	0.263	0.267	1.28
38)		trichloroethene	0.237	0.222	0.258	0.268	0.265	0.267	0.268	0.255	7.22
39)		methylcyclohexa	0.302	0.318	0.375	0.409	0.401	0.400	0.404	0.373	11.93
40)	C	1,2-dichloropro	0.183	0.194	0.218	0.220	0.220	0.218	0.221	0.211	7.37#
41)		dibromomethane	0.112	0.110	0.129	0.126	0.127	0.130	0.129	0.123	6.80
42)		1,4-dioxane								0.000	-1.00
43)		bromodichlorome	0.221	0.226	0.267	0.273	0.273	0.281	0.289	0.262	10.21
*44)		2-chloroethyl v		0.073	0.083	0.075	0.092	0.102	0.104	-----	
								L	M=	0.106	R=1.000
									B=	-0.009	
45)		cis-1,3-dichlor	0.224	0.225	0.279	0.294	0.309	0.324	0.334	-----	
								L	M=	0.336	R=1.000
									B=	-0.016	

0102 7-19-12

Response Factor Report 224

Method Path : C:\MSDCHEM\2\METHODS\
Method File : 8260B-B33.M
Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
Last Update : Wed Jul 18 07:30:29 2012
Response Via : Initial Calibration

46)		4-methyl-2-pent		0.167	0.188	0.169	0.202	0.222	0.223	0.195	12.80
47)	s	#Toluene-d8	1.005	1.019	1.020	1.023	1.019	1.025	1.029	1.020	0.76
48)	C	toluene	0.917	0.887	1.032	1.060	1.040	1.046	1.073	1.008	7.34#
49)		trans-1,3-dichl	0.181	0.198	0.245	0.267	0.288	0.309	0.322	-----	
								L	M=	0.324	R=1.000
									B=	-0.022	
50)		1,1,2-trichloro	0.151	0.139	0.160	0.162	0.162	0.163	0.163	0.157	5.73
51)		Chlorobenzene-d5		----------ISTD----------							
52)		tetrachloroethe	0.341	0.338	0.389	0.405	0.401	0.395	0.402	0.381	7.62
53)		1,3-dichloropro	0.370	0.364	0.427	0.430	0.436	0.433	0.435	0.414	7.76
54)		2-hexanone (MBK		0.132	0.166	0.148	0.187	0.202	0.203	-----	
								L	M=	0.207	R=1.000
									B=	-0.016	
55)		dibromochlorome	0.216	0.211	0.248	0.261	0.279	0.290	0.299	0.258	13.47
56)		1,2-dibromoetha	0.206	0.200	0.238	0.239	0.249	0.248	0.251	0.233	9.13
57)		chlorobenzene	0.822	0.762	0.870	0.870	0.869	0.860	0.873	0.847	4.90
58)		1-chlorohexane	0.246	0.247	0.294	0.305	0.295	0.288	0.285	0.280	8.46
59)		1,1,1,2-tetrach	0.248	0.223	0.271	0.279	0.288	0.291	0.301	0.271	10.05
60)	C	ethylbenzene	1.163	1.193	1.441	1.488	1.491	1.493	1.560	1.404	11.30#
61)		m+p-xylene	0.471	0.495	0.584	0.607	0.598	0.592	0.596	0.563	9.92
62)		o-xylene	0.430	0.436	0.535	0.561	0.568	0.559	0.563	0.522	11.80
63)		styrene	0.723	0.776	0.943	0.970	0.983	0.969	0.998	0.909	12.23
64)	P	bromoform	0.163	0.144	0.176	0.189	0.208	0.224	0.233	-----	
								L	M=	0.235	R=0.999
									B=	-0.016	
65)	S	#4-Bromofluorob	0.489	0.492	0.497	0.497	0.499	0.496	0.504	0.496	0.94
66)	I	1,4-Dichlorobenzene-d		----------ISTD----------							
67)		isopropylbenzen	1.711	1.796	2.137	2.270	2.245	2.289	2.419	2.124	12.59
68)		bromobenzene	0.899	0.774	0.878	0.882	0.875	0.873	0.888	0.867	4.84
69)	P	1,1,2,2-tetrach	0.794	0.553	0.599	0.594	0.586	0.588	0.584	0.614	13.15
70)		1,2,3-trichloro	0.227	0.181	0.199	0.197	0.196	0.200	0.199	0.200	6.94
71)		1,4-dichloro-2-	0.176	0.158	0.191	0.202	0.225	0.245	0.252	-----	
								L	M=	0.254	R=1.000
									B=	-0.017	
72)		n-propylbenzene	0.536	0.542	0.640	0.673	0.674	0.673	0.688	0.632	10.36
73)		2-chlorotoluene	0.542	0.480	0.565	0.577	0.577	0.572	0.586	0.557	6.63
74)		1,3,5-trimethyl	1.396	1.511	1.768	1.845	1.823	1.867	1.931	1.734	11.58
75)		4-chlorotoluene	0.552	0.487	0.566	0.592	0.586	0.589	0.590	0.566	6.71
76)		tert-butylbenze	1.245	1.243	1.507	1.595	1.599	1.637	1.717	1.506	12.59
77)		1,2,4-trimethyl	1.405	1.456	1.720	1.805	1.806	1.846	1.950	1.713	11.96
78)		sec-butylbenzen	1.573	1.694	2.041	2.164	2.166	2.226	2.352	2.031	14.21
79)		1,3-dichloroben	1.110	0.957	1.104	1.119	1.121	1.142	1.178	1.104	6.30
80)		4-isopropyltolu	1.519	1.490	1.748	1.841	1.831	1.886	1.979	1.756	10.56
81)		1,4-dichloroben	1.323	1.014	1.156	1.159	1.128	1.156	1.184	1.160	7.85
82)		1,2-dichloroben	1.118	0.922	1.050	1.073	1.076	1.098	1.126	1.066	6.47
83)		n-butylbenzene	0.955	1.010	1.250	1.352	1.362	1.402	1.476	-----	
								L	M=	1.478	R=0.999
									B=	-0.072	
84)		hexachloroethan	0.163	0.165	0.197	0.221	0.238	0.271	0.296	-----	
								L	M=	0.297	R=0.998
									B=	-0.031	
85)		1,2-dibromo-3-c	0.211	0.148	0.166	0.177	0.189	0.208	0.213	0.187	13.35
86)		1,2,4-trichloro	0.554	0.448	0.528	0.553	0.580	0.628	0.650	0.563	11.89
87)		hexachlorobutad	0.290	0.251	0.272	0.299	0.296	0.305	0.307	0.288	7.07
88)		naphthalene	1.327	0.977	1.155	1.327	1.399	1.551	1.630	-----	
								L	M=	1.641	R=0.999
									B=	-0.127	
89)		1,2,3-trichloro	0.543	0.417	0.479	0.517	0.533	0.568	0.582	0.520	10.83
90)		2-methylnaphtha	0.274	0.239	0.288	0.339	0.377	0.424	0.412	-----	
								L	M=	0.419	R=0.999
									B=	-0.024	

Response Factor Report 224

Method Path : C:\MSDCHEM\2\METHODS\
Method File : 8260B-B33.M
Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
Last Update : Wed Jul 18 07:30:29 2012
Response Via : Initial Calibration

Total Average %RSD 8.56

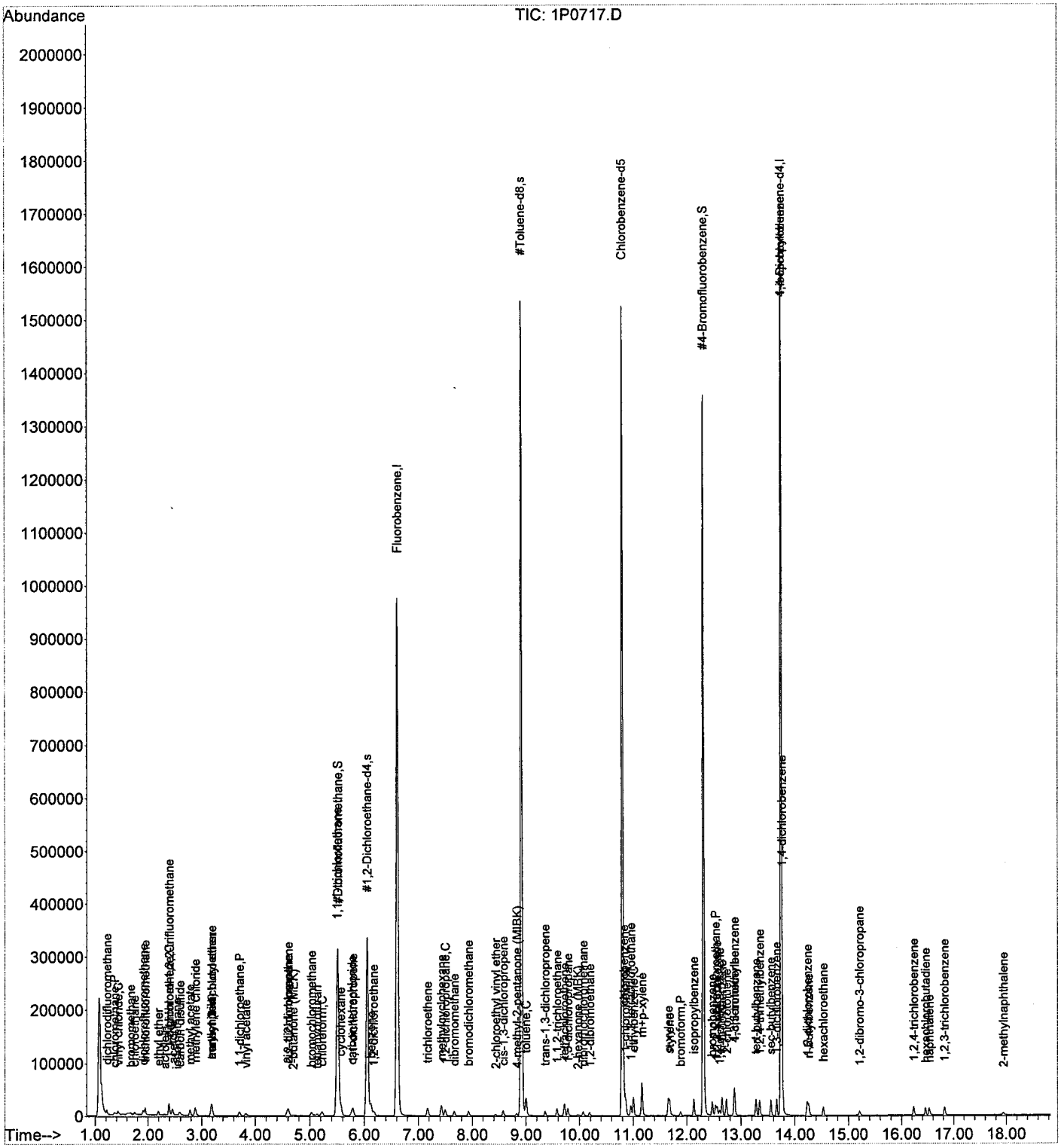
L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

8260B-B33.M Thu Jul 19 07:42:33 2012

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 1P0717.D
Acq On : 17 Jul 2012 15:42
Operator : DLV
Sample : CAL1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 18 07:25:49 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration



01041

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 1P0717.D
Acq On : 17 Jul 2012 15:42
Operator : DLV
Sample : CAL1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 18 07:25:49 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.61	96	1152370	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	935171	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	541887	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.51	111	269810	39.64	ug/L	0.00
Spiked Amount 40.000			Recovery	=	99.10%	
37) #1,2-Dichloroethane-d4	6.05	65	313392	43.24	ug/L	0.00
Spiked Amount 40.000			Recovery	=	108.10%	
47) #Toluene-d8	8.91	98	1157608	37.76	ug/L	0.00
Spiked Amount 40.000			Recovery	=	94.40%	
65) #4-Bromofluorobenzene	12.31	95	457351	39.07	ug/L	0.00
Spiked Amount 40.000			Recovery	=	97.67%	

Target Compounds						Qvalue
2) dichlorodifluoromethane	1.22	85	7258	1.69	ug/L	96
3) chloromethane	1.36	50	6142	1.14	ug/L	93
4) vinyl chloride	1.43	62	6322	0.93	ug/L	94
5) bromomethane	1.67	94	1399	3.15	ug/L	99
6) chloroethane	1.75	64	3562	0.89	ug/L	94
7) dichlorofluoromethane	1.91	67	8891	0.85	ug/L	97
8) trichlorofluoromethane	1.94	101	8369	0.90	ug/L	99
9) ethyl ether	2.19	74	2321	0.82	ug/L #	87
10) acrolein	2.30	56	907	0.81	ug/L #	99
11) 1,1,2-trichloro-1,2,2-trif	2.40	101	4564	1.06	ug/L	98
12) 1,1-dichloroethene	2.39	96	4468	0.80	ug/L	96
13) acetone	2.45	43	15627	3.69	ug/L	94
14) iodomethane	2.53	142	773	5.28	ug/L #	78
15) carbon disulfide	2.59	76	8014	0.67	ug/L	100
16) methyl acetate	2.78	43	13832	2.51	ug/L	97
17) methylene chloride	2.88	49	10186	1.03	ug/L	97
18) acrylonitrile	3.17	53	2346	0.83	ug/L #	91
19) trans-1,2-dichloroethene	3.18	96	5444	0.79	ug/L	97
20) methyl (tert) butyl ether	3.19	73	13217	0.77	ug/L	97
21) 1,1-dichloroethane	3.71	63	8983	0.74	ug/L	99
22) vinyl acetate	3.82	43	8180	0.66	ug/L	87
23) 2,2-dichloropropane	4.60	77	5481	0.63	ug/L	92
24) cis-1,2-dichloroethene	4.61	96	5787	0.75	ug/L	96
25) 2-butanone (MEK)	4.69	43	2232	0.75	ug/L	68
26) bromochloromethane	5.03	49	4889	0.82	ug/L	98
27) tetrahydrofuran	5.13	71	532	0.49	ug/L #	36
28) chloroform	5.22	83	9565	0.83	ug/L	100
30) 1,1,1-trichloroethane	5.49	97	7315	0.73	ug/L	95
31) cyclohexane	5.57	56	8962	0.84	ug/L	97
32) carbon tetrachloride	5.77	117	6575	0.76	ug/L	99
33) 1,1-dichloropropene	5.79	75	6895	0.70	ug/L	96
34) benzene	6.13	78	22603	0.75	ug/L #	73
35) 1,2-dichloroethane	6.18	62	7375	0.84	ug/L	99
36) heptane	6.60	57	36214	No Calib	#	
38) trichloroethene	7.17	130	6824	0.77	ug/L	96
39) methylcyclohexane	7.42	83	8697	0.75	ug/L	97
40) 1,2-dichloropropane	7.49	63	5264	0.73	ug/L #	85
41) dibromomethane	7.66	93	3225	0.81	ug/L	94

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 1P0717.D
Acq On : 17 Jul 2012 15:42
Operator : DLV
Sample : CAL1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 18 07:25:49 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration

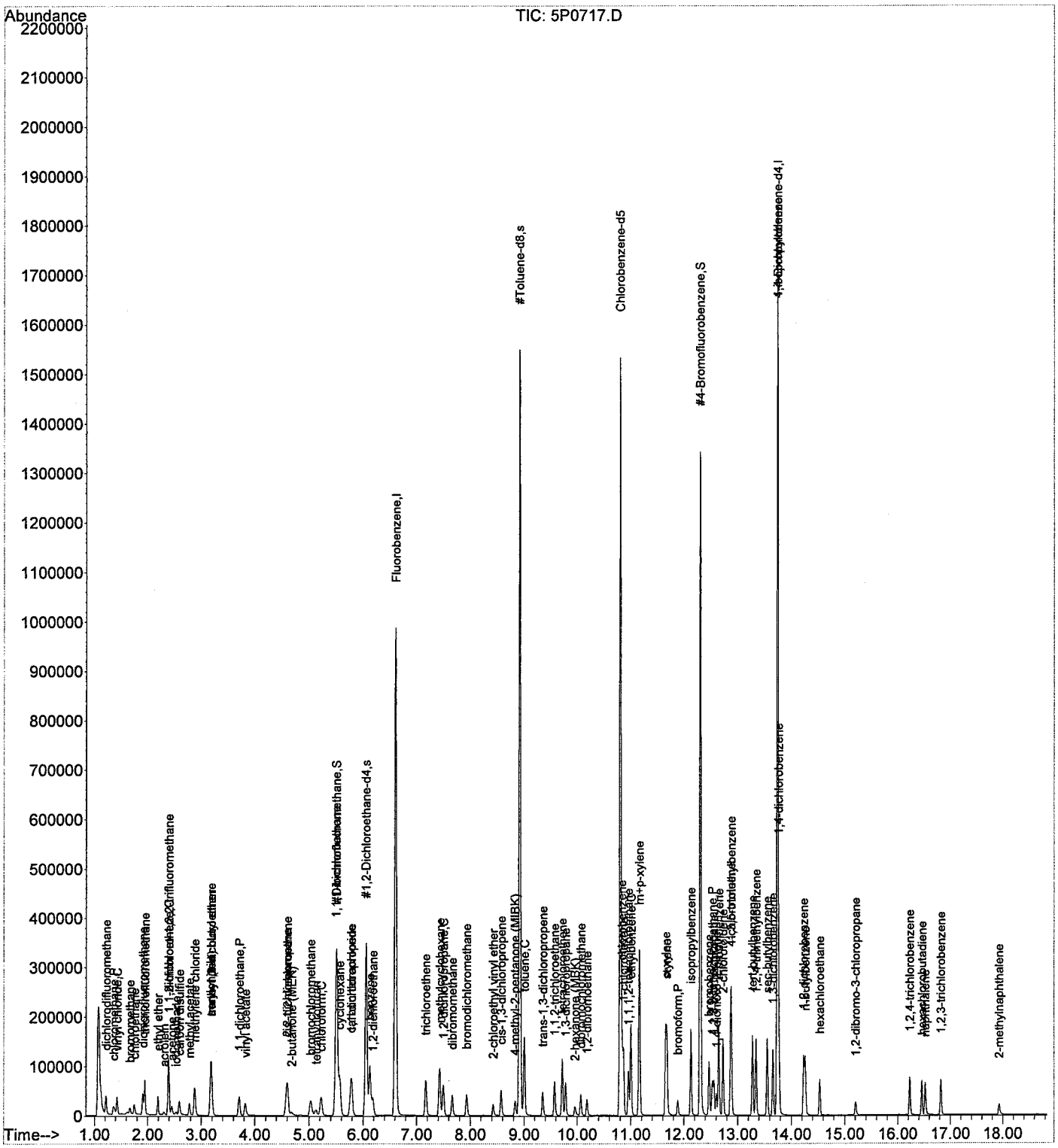
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.		
43) bromodichloromethane	7.93	83	6374	0.78 ug/L		96
44) 2-chloroethyl vinyl ether	8.43	63	1599	0.56 ug/L	#	60
45) cis-1,3-dichloropropene	8.57	75	6452	2.91 ug/L		95
46) 4-methyl-2-pentanone (MIBK	8.83	43	3853	0.63 ug/L		87
48) toluene	9.00	91	26419	0.78 ug/L		98
49) trans-1,3-dichloropropene	9.35	75	5224	3.25 ug/L		90
50) 1,1,2-trichloroethane	9.58	83	4348	0.84 ug/L		97
52) tetrachloroethene	9.72	166	7964	0.84 ug/L		98
53) 1,3-dichloropropane	9.78	76	8656	0.87 ug/L		98
54) 2-hexanone (MBK)	9.97	43	2208	0.56 ug/L	#	75
55) dibromochloromethane	10.07	129	5042	4.13 ug/L		100
56) 1,2-dibromoethane	10.19	109	4823	0.87 ug/L	#	98
57) chlorobenzene	10.83	112	19223	0.94 ug/L		98
58) 1-chlorohexane	10.86	55	5754	0.90 ug/L		83
59) 1,1,1,2-tetrachloroethane	10.96	131	5788	0.93 ug/L		96
60) ethylbenzene	11.00	91	27189	0.79 ug/L		100
61) m+p-xylene	11.16	106	22007	1.57 ug/L		97
62) o-xylene	11.66	106	10057	0.76 ug/L		96
63) styrene	11.68	104	16903	0.75 ug/L		96
64) bromoform	11.89	173	3803	5.49 ug/L		96
67) isopropylbenzene	12.13	105	23173	0.77 ug/L		100
68) bromobenzene	12.47	77	12184	1.05 ug/L		95
69) 1,1,2,2-tetrachloroethane	12.53	83	10759	1.48 ug/L	#	98
70) 1,2,3-trichloropropane	12.56	110	3081	1.26 ug/L	#	63
71) 1,4-dichloro-2-butene	12.61	53	2391	5.26 ug/L	#	42
72) n-propylbenzene	12.65	120	7255	0.82 ug/L		96
73) 2-chlorotoluene	12.73	126	7346	0.97 ug/L		94
74) 1,3,5-trimethylbenzene	12.89	105	18911	0.79 ug/L		98
75) 4-chlorotoluene	12.88	126	7480	0.95 ug/L		92
76) tert-butylbenzene	13.28	119	16861	0.79 ug/L		96
77) 1,2,4-trimethylbenzene	13.34	105	19035	0.80 ug/L		98
78) sec-butylbenzene	13.56	105	21316	0.74 ug/L		98
79) 1,3-dichlorobenzene	13.66	146	15031	1.01 ug/L		96
80) 4-isopropyltoluene	13.75	119	20583	0.84 ug/L		94
81) 1,4-dichlorobenzene	13.77	146	17927	1.16 ug/L		96
82) 1,2-dichlorobenzene	14.23	146	15152	1.07 ug/L		99
83) n-butylbenzene	14.26	91	12933	0.73 ug/L		98
84) hexachloroethane	14.53	201	2204	6.28 ug/L	#	53
85) 1,2-dibromo-3-chloropropan	15.21	157	2864	5.19 ug/L		93
86) 1,2,4-trichlorobenzene	16.23	180	7506	0.96 ug/L		99
87) hexachlorobutadiene	16.45	225	3922	0.97 ug/L		91
88) naphthalene	16.53	128	17976	0.97 ug/L		97
89) 1,2,3-trichlorobenzene	16.82	180	7353	1.06 ug/L		99
90) 2-methylnaphthalene	17.94	142	3718	3.47 ug/L		98

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

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 5P0717.D
Acq On : 17 Jul 2012 16:08
Operator : DLV
Sample : CAL2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 18 07:25:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration



01044

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 5P0717.D
Acq On : 17 Jul 2012 16:08
Operator : DLV
Sample : CAL2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 18 07:25:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.61	96	1155655	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	939463	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	540734	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.50	111	270600	39.65	ug/L	0.00
Spiked Amount 40.000			Recovery = 99.13%			
37) #1,2-Dichloroethane-d4	6.05	65	311153	42.81	ug/L	0.00
Spiked Amount 40.000			Recovery = 107.03%			
47) #Toluene-d8	8.91	98	1177609	38.31	ug/L	0.00
Spiked Amount 40.000			Recovery = 95.78%			
65) #4-Bromofluorobenzene	12.30	95	462602	39.34	ug/L	0.00
Spiked Amount 40.000			Recovery = 98.35%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.21	85	36683	8.50	ug/L	98
3) chloromethane	1.37	50	29832	5.50	ug/L	98
4) vinyl chloride	1.43	62	30621	4.48	ug/L	96
5) bromomethane	1.67	94	7518	6.22	ug/L	97
6) chloroethane	1.75	64	17000	4.23	ug/L	97
7) dichlorofluoromethane	1.91	67	43385	4.15	ug/L	99
8) trichlorofluoromethane	1.94	101	42686	4.58	ug/L	99
9) ethyl ether	2.19	74	12271	4.30	ug/L	98
10) acrolein	2.31	56	4053	3.60	ug/L #	95
11) 1,1,2-trichloro-1,2,2-trif	2.40	101	22163	5.12	ug/L	98
12) 1,1-dichloroethene	2.39	96	20883	3.72	ug/L	95
13) acetone	2.45	43	22372	7.25	ug/L	96
14) iodomethane	2.53	142	6904	6.94	ug/L	99
15) carbon disulfide	2.59	76	41334	3.45	ug/L	100
16) methyl acetate	2.78	43	31482	5.71	ug/L	98
17) methylene chloride	2.88	49	36919	3.95	ug/L	99
18) acrylonitrile	3.17	53	11830	4.19	ug/L	98
19) trans-1,2-dichloroethene	3.18	96	26051	3.75	ug/L	95
20) methyl (tert) butyl ether	3.19	73	65602	3.79	ug/L	99
21) 1,1-dichloroethane	3.71	63	45234	3.71	ug/L	99
22) vinyl acetate	3.82	43	46127	3.73	ug/L	98
23) 2,2-dichloropropane	4.60	77	27879	3.20	ug/L	97
24) cis-1,2-dichloroethene	4.61	96	28004	3.62	ug/L	97
25) 2-butanone (MEK)	4.68	43	13174	4.39	ug/L	97
26) bromochloromethane	5.04	49	23434	3.90	ug/L	99
27) tetrahydrofuran	5.13	71	3882	3.54	ug/L	96
28) chloroform	5.22	83	46413	3.99	ug/L	100
30) 1,1,1-trichloroethane	5.49	97	37807	3.74	ug/L	95
31) cyclohexane	5.57	56	46322	4.31	ug/L	97
32) carbon tetrachloride	5.77	117	33347	3.83	ug/L	100
33) 1,1-dichloropropene	5.79	75	35516	3.59	ug/L	98
34) benzene	6.13	78	114941	3.80	ug/L	92
35) 1,2-dichloroethane	6.18	62	36996	4.20	ug/L	96
36) heptane	6.61	57	35838	No Calib	#	
38) trichloroethene	7.17	130	32017	3.59	ug/L	98
39) methylcyclohexane	7.43	83	45955	3.96	ug/L	98
40) 1,2-dichloropropane	7.49	63	28045	3.89	ug/L	99
41) dibromomethane	7.66	93	15932	3.97	ug/L	98

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 5P0717.D
Acq On : 17 Jul 2012 16:08
Operator : DLV
Sample : CAL2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 18 07:25:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration

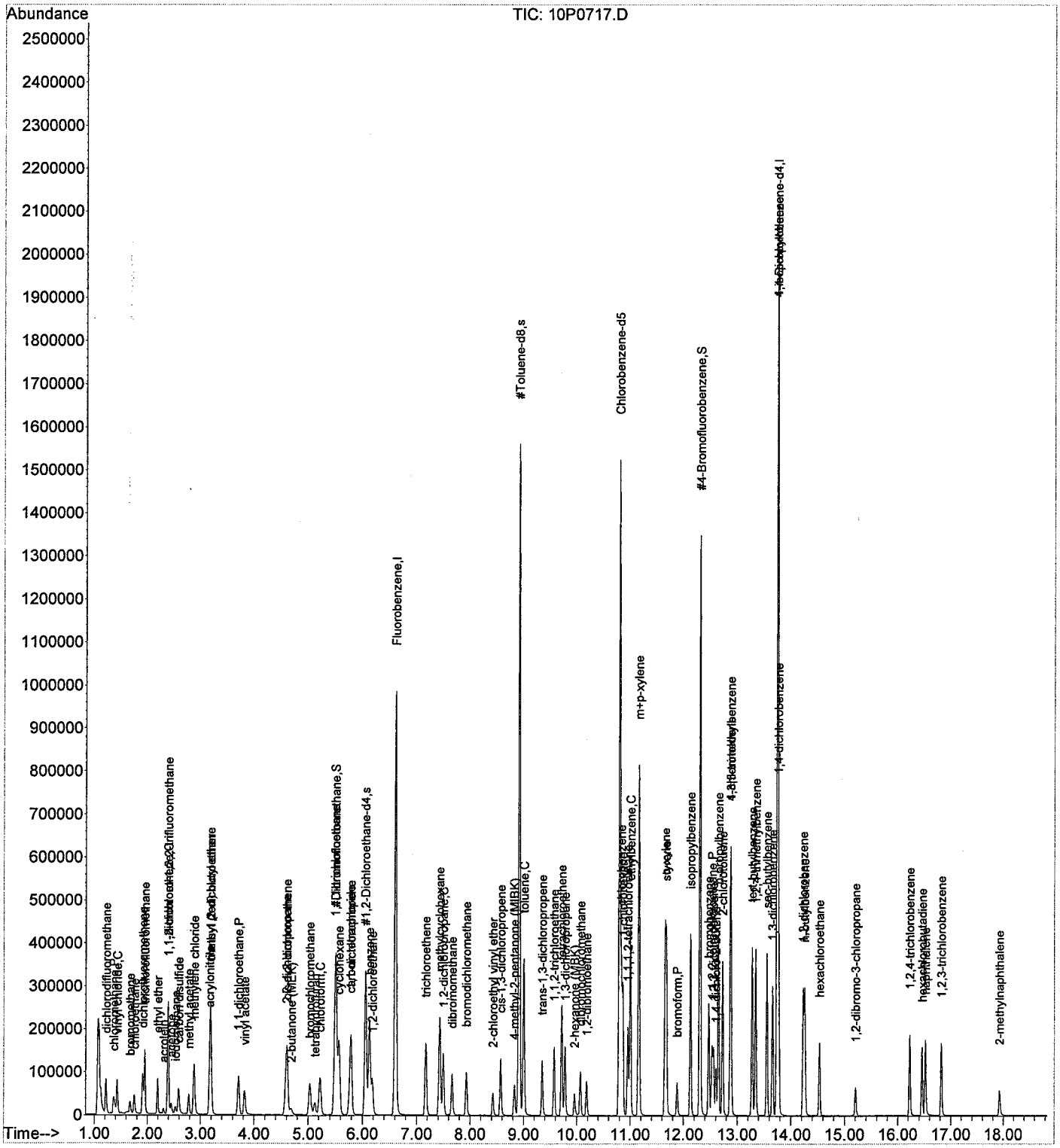
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	7.93	83	32708	3.98 ug/L	100
44) 2-chloroethyl vinyl ether	8.42	63	10483	3.68 ug/L	99
45) cis-1,3-dichloropropene	8.57	75	32573	5.12 ug/L	97
46) 4-methyl-2-pentanone (MIBK	8.83	43	24117	3.93 ug/L	97
48) toluene	9.00	91	128140	3.75 ug/L	99
49) trans-1,3-dichloropropene	9.35	75	28550	5.34 ug/L	98
50) 1,1,2-trichloroethane	9.57	83	20125	3.89 ug/L	99
52) tetrachloroethene	9.72	166	39749	4.16 ug/L	99
53) 1,3-dichloropropane	9.78	76	42707	4.27 ug/L	100
54) 2-hexanone (MBK)	9.95	43	15513	3.91 ug/L	98
55) dibromochloromethane	10.06	129	24798	6.85 ug/L	99
56) 1,2-dibromoethane	10.18	109	23439	4.21 ug/L	98
57) chlorobenzene	10.83	112	89451	4.35 ug/L	91
58) 1-chlorohexane	10.86	55	28997	4.50 ug/L	87
59) 1,1,1,2-tetrachloroethane	10.95	131	26218	4.21 ug/L	100
60) ethylbenzene	11.00	91	140085	4.03 ug/L	99
61) m+p-xylene	11.16	106	116280	8.27 ug/L	97
62) o-xylene	11.66	106	51201	3.87 ug/L	96
63) styrene	11.68	104	91174	4.05 ug/L	96
64) bromoform	11.89	173	16944	7.82 ug/L	98
67) isopropylbenzene	12.13	105	121389	4.04 ug/L	99
68) bromobenzene	12.47	77	52315	4.52 ug/L	96
69) 1,1,2,2-tetrachloroethane	12.53	83	37398	5.17 ug/L #	97
70) 1,2,3-trichloropropane	12.56	110	12210	5.01 ug/L #	89
71) 1,4-dichloro-2-butene	12.60	53	10646	7.89 ug/L #	55
72) n-propylbenzene	12.65	120	36622	4.14 ug/L	99
73) 2-chlorotoluene	12.73	126	32414	4.29 ug/L	95
74) 1,3,5-trimethylbenzene	12.89	105	102147	4.26 ug/L	100
75) 4-chlorotoluene	12.87	126	32911	4.20 ug/L	99
76) tert-butylbenzene	13.28	119	84043	3.95 ug/L	95
77) 1,2,4-trimethylbenzene	13.34	105	98424	4.16 ug/L	99
78) sec-butylbenzene	13.55	105	114499	3.99 ug/L	99
79) 1,3-dichlorobenzene	13.66	146	64696	4.35 ug/L	98
80) 4-isopropyltoluene	13.75	119	100702	4.13 ug/L	97
81) 1,4-dichlorobenzene	13.77	146	68510	4.45 ug/L	96
82) 1,2-dichlorobenzene	14.23	146	62317	4.41 ug/L	99
83) n-butylbenzene	14.26	91	68261	3.85 ug/L	100
84) hexachloroethane	14.53	201	11143	8.54 ug/L #	75
85) 1,2-dibromo-3-chloropropan	15.20	157	9988	7.60 ug/L	96
86) 1,2,4-trichlorobenzene	16.23	180	30250	3.88 ug/L	99
87) hexachlorobutadiene	16.46	225	16936	4.21 ug/L	98
88) naphthalene	16.52	128	66004	3.58 ug/L	99
89) 1,2,3-trichlorobenzene	16.82	180	28216	4.07 ug/L	97
90) 2-methylnaphthalene	17.93	142	16171	5.86 ug/L	96

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

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 10P0717.D
Acq On : 17 Jul 2012 16:35
Operator : DLV
Sample : CAL3
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 07:26:03 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration



01047

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 10P0717.D
Acq On : 17 Jul 2012 16:35
Operator : DLV
Sample : CAL3
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 07:26:03 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.61	96	1142553	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	926657	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	548245	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.51	111	268164	39.74	ug/L	0.00
Spiked Amount 40.000			Recovery =	99.35%		
37) #1,2-Dichloroethane-d4	6.05	65	307482	42.79	ug/L	0.00
Spiked Amount 40.000			Recovery =	106.97%		
47) #Toluene-d8	8.91	98	1165555	38.35	ug/L	0.00
Spiked Amount 40.000			Recovery =	95.88%		
65) #4-Bromofluorobenzene	12.31	95	460774	39.73	ug/L	0.00
Spiked Amount 40.000			Recovery =	99.33%		
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.22	85	82346	19.29	ug/L	99
3) chloromethane	1.36	50	66898	12.47	ug/L	97
4) vinyl chloride	1.43	62	71959	10.66	ug/L	99
5) bromomethane	1.67	94	18800	12.00	ug/L	93
6) chloroethane	1.75	64	39617	9.97	ug/L	99
7) dichlorofluoromethane	1.91	67	95878	9.28	ug/L	98
8) trichlorofluoromethane	1.94	101	95595	10.37	ug/L	99
9) ethyl ether	2.19	74	28633	10.15	ug/L	99
10) acrolein	2.30	56	9421	8.47	ug/L #	96
11) 1,1,2-trichloro-1,2,2-trif	2.40	101	50804	11.87	ug/L	99
12) 1,1-dichloroethene	2.39	96	47510	8.57	ug/L	95
13) acetone	2.45	43	32764	12.97	ug/L	95
14) iodomethane	2.54	142	22415	11.16	ug/L	96
15) carbon disulfide	2.59	76	88683	7.48	ug/L	99
16) methyl acetate	2.78	43	57957	10.63	ug/L	98
17) methylene chloride	2.88	49	81153	8.90	ug/L	98
18) acrylonitrile	3.16	53	27217	9.76	ug/L	97
19) trans-1,2-dichloroethene	3.18	96	60044	8.74	ug/L	98
20) methyl (tert) butyl ether	3.19	73	155456	9.08	ug/L	99
21) 1,1-dichloroethane	3.71	63	103868	8.62	ug/L	99
22) vinyl acetate	3.82	43	104816	8.56	ug/L	100
23) 2,2-dichloropropane	4.59	77	66112	7.69	ug/L	98
24) cis-1,2-dichloroethene	4.61	96	65635	8.58	ug/L	98
25) 2-butanone (MEK)	4.68	43	28859	9.72	ug/L	97
26) bromochloromethane	5.03	49	54920	9.24	ug/L	97
27) tetrahydrofuran	5.13	71	9082	8.38	ug/L	95
28) chloroform	5.22	83	104219	9.07	ug/L	100
30) 1,1,1-trichloroethane	5.49	97	87317	8.73	ug/L	96
31) cyclohexane	5.57	56	108715	10.22	ug/L	99
32) carbon tetrachloride	5.77	117	78420	9.12	ug/L	100
33) 1,1-dichloropropene	5.79	75	83061	8.48	ug/L	98
34) benzene	6.13	78	262496	8.79	ug/L	97
35) 1,2-dichloroethane	6.18	62	83973	9.63	ug/L	99
36) heptane	6.61	57	34511	No Calib	#	
38) trichloroethene	7.17	130	73765	8.37	ug/L	99
39) methylcyclohexane	7.42	83	107194	9.34	ug/L	97
40) 1,2-dichloropropane	7.50	63	62376	8.75	ug/L	99
41) dibromomethane	7.66	93	36799	9.27	ug/L	95

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 10P0717.D
Acq On : 17 Jul 2012 16:35
Operator : DLV
Sample : CAL3
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 07:26:03 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration

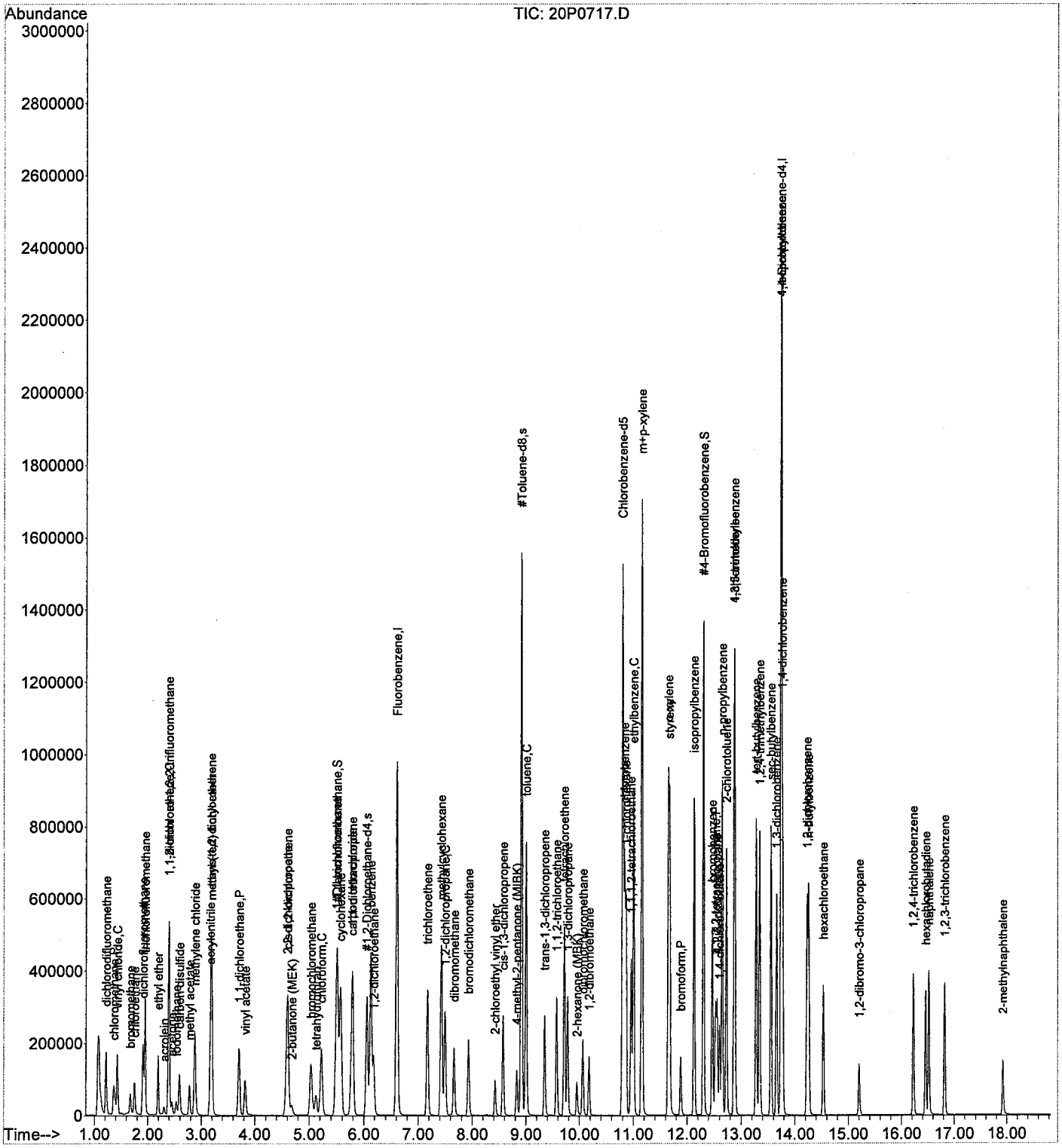
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.			
43) bromodichloromethane	7.93	83	76289	9.40	ug/L		99
44) 2-chloroethyl vinyl ether	8.42	63	23772	8.44	ug/L		98
45) cis-1,3-dichloropropene	8.57	75	79552	9.17	ug/L		97
46) 4-methyl-2-pentanone (MIBK	8.83	43	53727	8.85	ug/L		99
48) toluene	9.00	91	294897	8.73	ug/L		99
49) trans-1,3-dichloropropene	9.35	75	69898	9.11	ug/L		98
50) 1,1,2-trichloroethane	9.57	83	45686	8.93	ug/L		100
52) tetrachloroethene	9.72	166	90076	9.56	ug/L		98
53) 1,3-dichloropropane	9.78	76	98843	10.03	ug/L		98
54) 2-hexanone (MBK)	9.95	43	38553	9.85	ug/L		96
55) dibromochloromethane	10.06	129	57394	11.44	ug/L		99
56) 1,2-dibromoethane	10.18	109	55084	10.02	ug/L		99
57) chlorobenzene	10.83	112	201533	9.93	ug/L		95
58) 1-chlorohexane	10.86	55	68062	10.71	ug/L		87
59) 1,1,1,2-tetrachloroethane	10.95	131	62692	10.21	ug/L		99
60) ethylbenzene	11.00	91	333864	9.74	ug/L		99
61) m+p-xylene	11.16	106	270532	19.52	ug/L		99
62) o-xylene	11.66	106	123893	9.50	ug/L		98
63) styrene	11.67	104	218504	9.85	ug/L		95
64) bromoform	11.88	173	40701	12.13	ug/L		99
67) isopropylbenzene	12.13	105	292929	9.62	ug/L		99
68) bromobenzene	12.47	77	120357	10.26	ug/L		97
69) 1,1,2,2-tetrachloroethane	12.53	83	82093	11.19	ug/L	#	99
70) 1,2,3-trichloropropane	12.56	110	27334	11.07	ug/L		91
71) 1,4-dichloro-2-butene	12.61	53	26158	12.73	ug/L	#	65
72) n-propylbenzene	12.65	120	87771	9.78	ug/L		98
73) 2-chlorotoluene	12.73	126	77467	10.11	ug/L		100
74) 1,3,5-trimethylbenzene	12.88	105	242267	9.97	ug/L		99
75) 4-chlorotoluene	12.87	126	77564	9.76	ug/L		99
76) tert-butylbenzene	13.28	119	206602	9.58	ug/L		97
77) 1,2,4-trimethylbenzene	13.34	105	235757	9.83	ug/L		99
78) sec-butylbenzene	13.55	105	279751	9.61	ug/L		99
79) 1,3-dichlorobenzene	13.66	146	151342	10.03	ug/L		99
80) 4-isopropyltoluene	13.75	119	239543	9.69	ug/L		98
81) 1,4-dichlorobenzene	13.77	146	158501	10.16	ug/L		98
82) 1,2-dichlorobenzene	14.23	146	143886	10.04	ug/L		99
83) n-butylbenzene	14.26	91	171391	9.54	ug/L		99
84) hexachloroethane	14.53	201	27035	12.46	ug/L	#	78
85) 1,2-dibromo-3-chloropropan	15.20	157	22811	11.83	ug/L		94
86) 1,2,4-trichlorobenzene	16.23	180	72358	9.16	ug/L		99
87) hexachlorobutadiene	16.46	225	37261	9.13	ug/L		99
88) naphthalene	16.52	128	158276	8.48	ug/L		98
89) 1,2,3-trichlorobenzene	16.82	180	65656	9.34	ug/L		99
90) 2-methylnaphthalene	17.93	142	39420	10.20	ug/L		97

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

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 20P0717.D
Acq On : 17 Jul 2012 17:02
Operator : DLV
Sample : CAL4
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 18 07:26:10 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration



01050

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 20P0717.D
Acq On : 17 Jul 2012 17:02
Operator : DLV
Sample : CAL4
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 18 07:26:10 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.61	96	1146265	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	932535	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	551038	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.51	111	268177	39.61	ug/L	0.00
Spiked Amount 40.000			Recovery = 99.02%			
37) #1,2-Dichloroethane-d4	6.06	65	307099	42.60	ug/L	0.00
Spiked Amount 40.000			Recovery = 106.50%			
47) #Toluene-d8	8.91	98	1172117	38.44	ug/L	0.00
Spiked Amount 40.000			Recovery = 96.10%			
65) #4-Bromofluorobenzene	12.30	95	463505	39.71	ug/L	0.00
Spiked Amount 40.000			Recovery = 99.28%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.22	85	170045	39.71	ug/L	100
3) chloromethane	1.36	50	135769	25.23	ug/L	98
4) vinyl chloride	1.43	62	148460	21.92	ug/L	100
5) bromomethane	1.67	94	40446	22.95	ug/L	100
6) chloroethane	1.75	64	80644	20.24	ug/L	99
7) dichlorofluoromethane	1.91	67	201234	19.41	ug/L	100
8) trichlorofluoromethane	1.94	101	200593	21.69	ug/L	99
9) ethyl ether	2.19	74	57088	20.18	ug/L	98
10) acrolein	2.30	56	18858	16.89	ug/L #	99
11) 1,1,2-trichloro-1,2,2-trif	2.40	101	105002	24.45	ug/L	99
12) 1,1-dichloroethene	2.39	96	99739	17.93	ug/L	95
13) acetone	2.45	43	42754	18.27	ug/L	99
14) iodomethane	2.53	142	53104	19.18	ug/L	97
15) carbon disulfide	2.59	76	168076	14.13	ug/L	100
16) methyl acetate	2.77	43	105809	19.34	ug/L	100
17) methylene chloride	2.88	49	158530	17.41	ug/L	99
18) acrylonitrile	3.16	53	54152	19.35	ug/L	99
19) trans-1,2-dichloroethene	3.18	96	124769	18.10	ug/L	97
20) methyl (tert) butyl ether	3.19	73	316811	18.44	ug/L	100
21) 1,1-dichloroethane	3.71	63	213392	17.65	ug/L	99
22) vinyl acetate	3.82	43	179004	14.58	ug/L	99
23) 2,2-dichloropropane	4.59	77	138673	16.07	ug/L	100
24) cis-1,2-dichloroethene	4.61	96	134670	17.54	ug/L	97
25) 2-butanone (MEK)	4.68	43	46405	15.59	ug/L	96
26) bromochloromethane	5.03	49	105863	17.76	ug/L	99
27) tetrahydrofuran	5.13	71	18480	17.00	ug/L	95
28) chloroform	5.22	83	213331	18.50	ug/L	100
30) 1,1,1-trichloroethane	5.49	97	180958	18.03	ug/L	98
31) cyclohexane	5.57	56	235354	22.06	ug/L	98
32) carbon tetrachloride	5.77	117	165988	19.23	ug/L	99
33) 1,1-dichloropropene	5.79	75	177586	18.08	ug/L	98
34) benzene	6.13	78	535131	17.86	ug/L	98
35) 1,2-dichloroethane	6.18	62	164551	18.82	ug/L	98
36) heptane	6.61	57	34795	No Calib	#	
38) trichloroethene	7.17	130	153619	17.37	ug/L	99
39) methylcyclohexane	7.42	83	234671	20.38	ug/L	98
40) 1,2-dichloropropane	7.49	63	125861	17.60	ug/L	99
41) dibromomethane	7.66	93	72464	18.19	ug/L	98

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 20P0717.D
Acq On : 17 Jul 2012 17:02
Operator : DLV
Sample : CAL4
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 18 07:26:10 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration

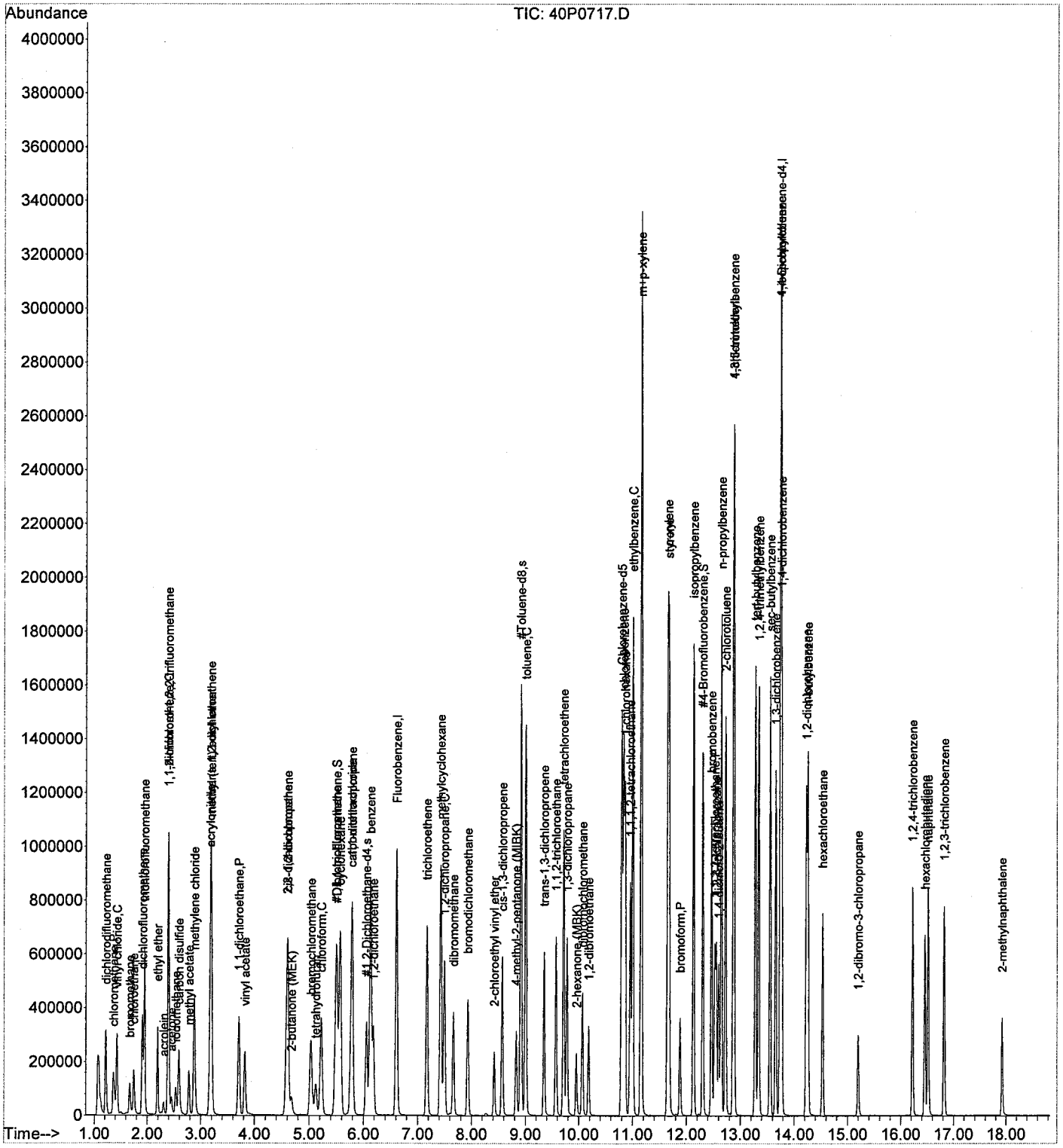
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	7.66	88	93	No Calib #	
43) bromodichloromethane	7.93	83	156289	19.19 ug/L	99
44) 2-chloroethyl vinyl ether	8.42	63	42934	15.20 ug/L	99
45) cis-1,3-dichloropropene	8.57	75	168711	16.75 ug/L	98
46) 4-methyl-2-pentanone (MIBK	8.83	43	96598	15.85 ug/L	100
48) toluene	9.00	91	607279	17.91 ug/L	100
49) trans-1,3-dichloropropene	9.35	75	153167	16.60 ug/L	99
50) 1,1,2-trichloroethane	9.57	83	93051	18.13 ug/L	99
52) tetrachloroethene	9.72	166	188652	19.90 ug/L	99
53) 1,3-dichloropropane	9.78	76	200696	20.23 ug/L	99
54) 2-hexanone (MBK)	9.95	43	69052	17.53 ug/L	99
55) dibromochloromethane	10.06	129	121675	20.29 ug/L	100
56) 1,2-dibromoethane	10.18	109	111250	20.11 ug/L	98
57) chlorobenzene	10.83	112	405821	19.87 ug/L	97
58) 1-chlorohexane	10.86	55	142155	22.23 ug/L	89
59) 1,1,1,2-tetrachloroethane	10.95	131	130281	21.08 ug/L	99
60) ethylbenzene	11.00	91	694003	20.13 ug/L	99
61) m+p-xylene	11.16	106	566316	40.59 ug/L	98
62) o-xylene	11.65	106	261486	19.93 ug/L	100
63) styrene	11.67	104	452073	20.24 ug/L	96
64) bromoform	11.88	173	88076	20.54 ug/L	99
67) isopropylbenzene	12.13	105	625472	20.43 ug/L	99
68) bromobenzene	12.47	77	243078	20.62 ug/L	98
69) 1,1,2,2-tetrachloroethane	12.53	83	163742	22.21 ug/L #	100
70) 1,2,3-trichloropropane	12.56	110	54178	21.84 ug/L	90
71) 1,4-dichloro-2-butene	12.60	53	55668	21.94 ug/L #	74
72) n-propylbenzene	12.65	120	185352	20.54 ug/L	99
73) 2-chlorotoluene	12.73	126	159023	20.65 ug/L	100
74) 1,3,5-trimethylbenzene	12.88	105	508376	20.81 ug/L	100
75) 4-chlorotoluene	12.87	126	163220	20.43 ug/L	97
76) tert-butylbenzene	13.28	119	439426	20.28 ug/L	97
77) 1,2,4-trimethylbenzene	13.34	105	497285	20.62 ug/L	99
78) sec-butylbenzene	13.55	105	596291	20.37 ug/L	98
79) 1,3-dichlorobenzene	13.66	146	308226	20.32 ug/L	98
80) 4-isopropyltoluene	13.75	119	507099	20.41 ug/L	97
81) 1,4-dichlorobenzene	13.77	146	319367	20.37 ug/L	98
82) 1,2-dichlorobenzene	14.23	146	295765	20.53 ug/L	99
83) n-butylbenzene	14.26	91	372589	20.64 ug/L	99
84) hexachloroethane	14.54	201	60795	20.78 ug/L #	84
85) 1,2-dibromo-3-chloropropan	15.20	157	48786	20.40 ug/L	96
86) 1,2,4-trichlorobenzene	16.23	180	152297	19.18 ug/L	98
87) hexachlorobutadiene	16.46	225	82303	20.06 ug/L	99
88) naphthalene	16.52	128	365604	19.48 ug/L	99
89) 1,2,3-trichlorobenzene	16.82	180	142416	20.16 ug/L	99
90) 2-methylnaphthalene	17.92	142	93441	20.31 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 40P0717.D
Acq On : 17 Jul 2012 17:29
Operator : DLV
Sample : CAL5
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 07:26:18 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration



01053

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 40P0717.D
Acq On : 17 Jul 2012 17:29
Operator : DLV
Sample : CAL5
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 07:26:18 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.61	96	1159482	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	933349	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	560180	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.51	111	270637	39.52	ug/L	0.00
Spiked Amount 40.000			Recovery =	98.80%		
37) #1,2-Dichloroethane-d4	6.05	65	305965	41.96	ug/L	0.00
Spiked Amount 40.000			Recovery =	104.90%		
47) #Toluene-d8	8.91	98	1181410	38.30	ug/L	0.00
Spiked Amount 40.000			Recovery =	95.75%		
65) #4-Bromofluorobenzene	12.30	95	465770	39.87	ug/L	0.00
Spiked Amount 40.000			Recovery =	99.67%		
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.22	85	327466	75.59	ug/L	99
3) chloromethane	1.36	50	263292	48.37	ug/L	98
4) vinyl chloride	1.43	62	289437	42.25	ug/L	99
5) bromomethane	1.67	94	90678	47.90	ug/L	100
6) chloroethane	1.74	64	155535	38.58	ug/L	99
7) dichlorofluoromethane	1.91	67	388896	37.08	ug/L	100
8) trichlorofluoromethane	1.94	101	385048	41.17	ug/L	100
9) ethyl ether	2.19	74	114871	40.14	ug/L	98
10) acrolein	2.30	56	38034	33.68	ug/L #	99
11) 1,1,2-trichloro-1,2,2-trif	2.40	101	205013	47.19	ug/L	100
12) 1,1-dichloroethene	2.39	96	191461	34.03	ug/L	94
13) acetone	2.45	43	79261	37.35	ug/L	98
14) iodomethane	2.53	142	146768	41.62	ug/L	96
15) carbon disulfide	2.59	76	367742	30.57	ug/L	99
16) methyl acetate	2.78	43	213572	38.59	ug/L	99
17) methylene chloride	2.88	49	312105	33.98	ug/L	99
18) acrylonitrile	3.16	53	110925	39.19	ug/L	98
19) trans-1,2-dichloroethene	3.18	96	245811	35.24	ug/L	97
20) methyl (tert) butyl ether	3.19	73	653064	37.59	ug/L	100
21) 1,1-dichloroethane	3.71	63	425438	34.80	ug/L	99
22) vinyl acetate	3.82	43	430505	34.66	ug/L	99
23) 2,2-dichloropropane	4.59	77	284961	32.65	ug/L	99
24) cis-1,2-dichloroethene	4.61	96	272103	35.04	ug/L	98
25) 2-butanone (MEK)	4.68	43	108851	36.14	ug/L	100
26) bromochloromethane	5.03	49	213761	35.45	ug/L	98
27) tetrahydrofuran	5.13	71	40269	36.62	ug/L	97
28) chloroform	5.22	83	427830	36.69	ug/L	100
30) 1,1,1-trichloroethane	5.49	97	362458	35.71	ug/L	98
31) cyclohexane	5.57	56	465066	43.09	ug/L	100
32) carbon tetrachloride	5.77	117	336578	38.56	ug/L	100
33) 1,1-dichloropropene	5.79	75	347967	35.02	ug/L	99
34) benzene	6.13	78	1053330	34.75	ug/L	97
35) 1,2-dichloroethane	6.18	62	333749	37.73	ug/L	98
36) heptane	6.61	57	35503	No Calib	#	
38) trichloroethene	7.17	130	307066	34.32	ug/L	99
39) methylcyclohexane	7.42	83	464622	39.90	ug/L	99
40) 1,2-dichloropropane	7.49	63	255166	35.27	ug/L	100
41) dibromomethane	7.66	93	147412	36.58	ug/L	98

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 40P0717.D
Acq On : 17 Jul 2012 17:29
Operator : DLV
Sample : CAL5
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 07:26:18 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration

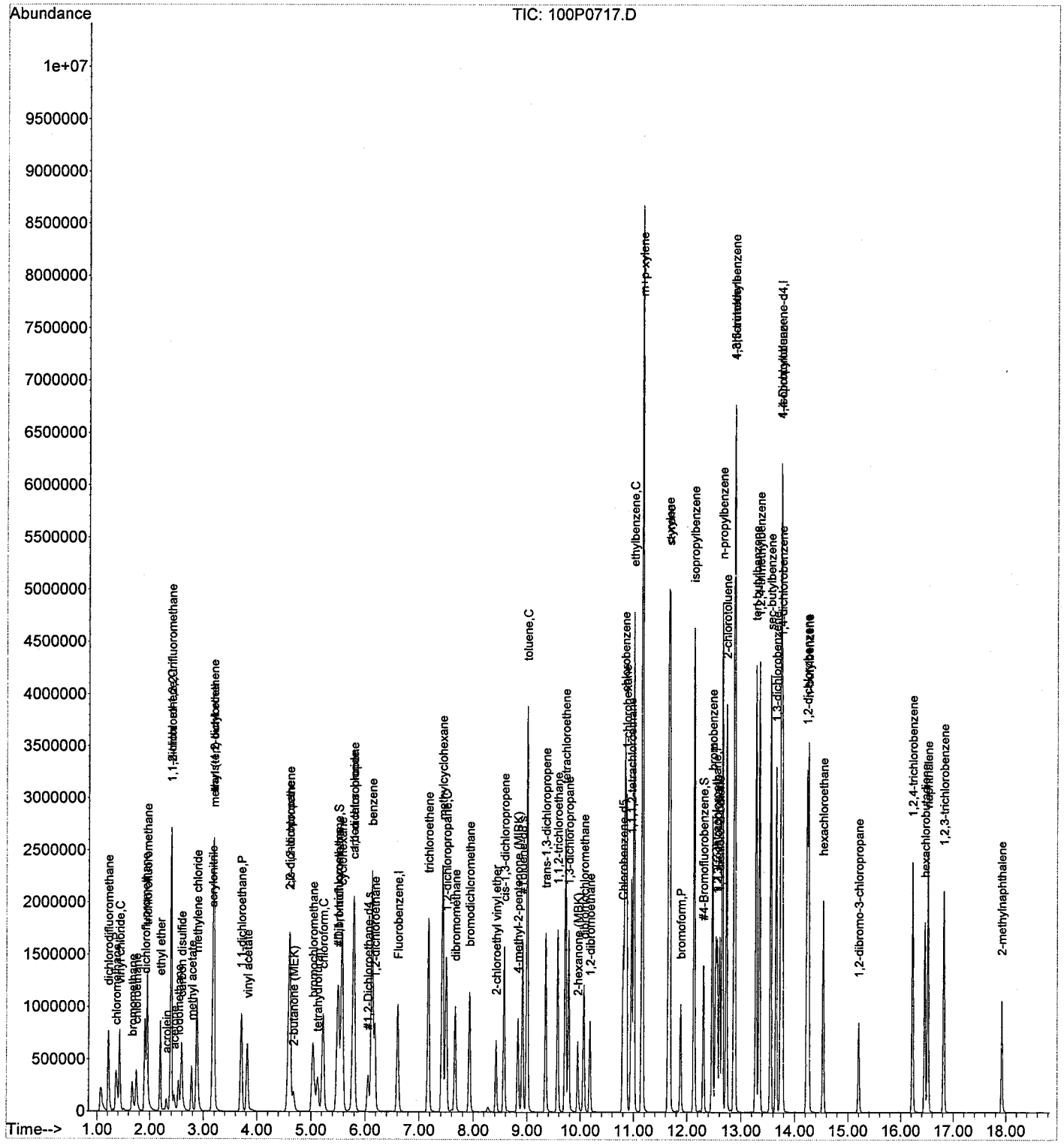
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	7.66	88	745	No Calib #	
43) bromodichloromethane	7.93	83	316964	38.48 ug/L	99
44) 2-chloroethyl vinyl ether	8.42	63	107190	37.51 ug/L	100
45) cis-1,3-dichloropropene	8.57	75	358179	32.55 ug/L	97
46) 4-methyl-2-pentanone (MIBK	8.83	43	234548	38.05 ug/L	99
48) toluene	9.00	91	1206211	35.17 ug/L	99
49) trans-1,3-dichloropropene	9.35	75	333807	32.55 ug/L	99
50) 1,1,2-trichloroethane	9.57	83	188132	36.24 ug/L	100
52) tetrachloroethene	9.72	166	373998	39.41 ug/L	99
53) 1,3-dichloropropane	9.78	76	407144	41.00 ug/L	100
54) 2-hexanone (MBK)	9.95	43	174303	44.22 ug/L	97
55) dibromochloromethane	10.06	129	260134	39.43 ug/L	100
56) 1,2-dibromoethane	10.18	109	232583	42.00 ug/L	99
57) chlorobenzene	10.83	112	811509	39.70 ug/L	97
58) 1-chlorohexane	10.86	55	275149	42.99 ug/L	90
59) 1,1,1,2-tetrachloroethane	10.95	131	268356	43.39 ug/L	99
60) ethylbenzene	11.00	91	1391729	40.33 ug/L	99
61) m+p-xylene	11.16	106	1117014	80.00 ug/L	99
62) o-xylene	11.65	106	530514	40.41 ug/L	99
63) styrene	11.67	104	917358	41.04 ug/L	96
64) bromoform	11.88	173	194324	39.48 ug/L	99
67) isopropylbenzene	12.13	105	1257379	40.40 ug/L	99
68) bromobenzene	12.47	77	490185	40.90 ug/L	98
69) 1,1,2,2-tetrachloroethane	12.53	83	328304	43.81 ug/L #	100
70) 1,2,3-trichloropropane	12.56	110	109987	43.61 ug/L	93
71) 1,4-dichloro-2-butene	12.60	53	125944	43.33 ug/L #	80
72) n-propylbenzene	12.65	120	377477	41.15 ug/L	99
73) 2-chlorotoluene	12.73	126	323302	41.31 ug/L	100
74) 1,3,5-trimethylbenzene	12.88	105	1021231	41.11 ug/L	100
75) 4-chlorotoluene	12.87	126	328459	40.44 ug/L	98
76) tert-butylbenzene	13.28	119	895868	40.67 ug/L	98
77) 1,2,4-trimethylbenzene	13.34	105	1011641	41.26 ug/L	100
78) sec-butylbenzene	13.55	105	1213134	40.77 ug/L	99
79) 1,3-dichlorobenzene	13.66	146	627703	40.70 ug/L	99
80) 4-isopropyltoluene	13.75	119	1025718	40.60 ug/L	98
81) 1,4-dichlorobenzene	13.77	146	631796	39.65 ug/L	98
82) 1,2-dichlorobenzene	14.23	146	602876	41.16 ug/L	99
83) n-butylbenzene	14.26	91	762907	41.58 ug/L	99
84) hexachloroethane	14.53	201	133256	38.19 ug/L #	89
85) 1,2-dibromo-3-chloropropan	15.20	157	105839	38.75 ug/L	98
86) 1,2,4-trichlorobenzene	16.22	180	325076	40.27 ug/L	99
87) hexachlorobutadiene	16.46	225	166078	39.82 ug/L	98
88) naphthalene	16.52	128	783544	41.07 ug/L	99
89) 1,2,3-trichlorobenzene	16.82	180	298656	41.58 ug/L	100
90) 2-methylnaphthalene	17.92	142	211182	41.76 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 100P0717.D
Acq On : 17 Jul 2012 17:56
Operator : DLV
Sample : CAL6
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 18 07:26:26 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration



01056

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 100P0717.D
Acq On : 17 Jul 2012 17:56
Operator : DLV
Sample : CAL6
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 18 07:26:26 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.61	96	1197794	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	973758	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	578753	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.51	111	282752	39.97 ug/L	0.00
Spiked Amount 40.000			Recovery	= 99.92%	
37) #1,2-Dichloroethane-d4	6.05	65	315423	41.87 ug/L	0.00
Spiked Amount 40.000			Recovery	= 104.67%	
47) #Toluene-d8	8.91	98	1227253	38.52 ug/L	0.00
Spiked Amount 40.000			Recovery	= 96.30%	
65) #4-Bromofluorobenzene	12.30	95	482744	39.61 ug/L	0.00
Spiked Amount 40.000			Recovery	= 99.02%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.21	85	833628	186.28 ug/L	100
3) chloromethane	1.36	50	657807	116.97 ug/L	98
4) vinyl chloride	1.43	62	735398	103.92 ug/L	99
5) bromomethane	1.66	94	251443	124.46 ug/L	99
6) chloroethane	1.74	64	378234	90.82 ug/L	99
7) dichlorofluoromethane	1.90	67	999511	92.24 ug/L	100
8) trichlorofluoromethane	1.94	101	1000257	103.52 ug/L	100
9) ethyl ether	2.19	74	302685	102.38 ug/L	98
10) acrolein	2.30	56	101594	87.09 ug/L	98
11) 1,1,2-trichloro-1,2,2-trif	2.40	101	521867	116.27 ug/L	100
12) 1,1-dichloroethene	2.39	96	493916	84.97 ug/L	93
13) acetone	2.45	43	200330	98.11 ug/L	97
14) iodomethane	2.53	142	459811	102.30 ug/L	96
15) carbon disulfide	2.58	76	1033949	83.21 ug/L	100
16) methyl acetate	2.78	43	546662	95.62 ug/L	100
17) methylene chloride	2.88	49	789735	83.36 ug/L	100
18) acrylonitrile	3.16	53	289049	98.85 ug/L	99
19) trans-1,2-dichloroethene	3.18	96	629176	87.33 ug/L	98
20) methyl (tert) butyl ether	3.19	73	1732107	96.50 ug/L	100
21) 1,1-dichloroethane	3.71	63	1098777	86.99 ug/L	100
22) vinyl acetate	3.82	43	1191124	92.84 ug/L	100
23) 2,2-dichloropropane	4.59	77	770568	85.46 ug/L	98
24) cis-1,2-dichloroethene	4.61	96	700154	87.29 ug/L	97
25) 2-butanone (MEK)	4.68	43	307412	98.80 ug/L	99
26) bromochloromethane	5.04	49	545275	87.54 ug/L	99
27) tetrahydrofuran	5.13	71	112862	99.34 ug/L	99
28) chloroform	5.22	83	1094052	90.82 ug/L	100
30) 1,1,1-trichloroethane	5.49	97	953616	90.94 ug/L	98
31) cyclohexane	5.57	56	1203783	107.97 ug/L	99
32) carbon tetrachloride	5.77	117	887632	98.43 ug/L	100
33) 1,1-dichloropropene	5.79	75	904244	88.09 ug/L	99
34) benzene	6.13	78	2738304	87.44 ug/L	98
35) 1,2-dichloroethane	6.18	62	850049	93.03 ug/L	98
36) heptane	6.60	57	36321	No Calib #	
38) trichloroethene	7.17	130	800613	86.62 ug/L	99
39) methylcyclohexane	7.42	83	1197976	99.57 ug/L	99
40) 1,2-dichloropropane	7.50	63	653908	87.50 ug/L	100
41) dibromomethane	7.66	93	387962	93.20 ug/L	97

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 100P0717.D
Acq On : 17 Jul 2012 17:56
Operator : DLV
Sample : CAL6
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 18 07:26:26 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration

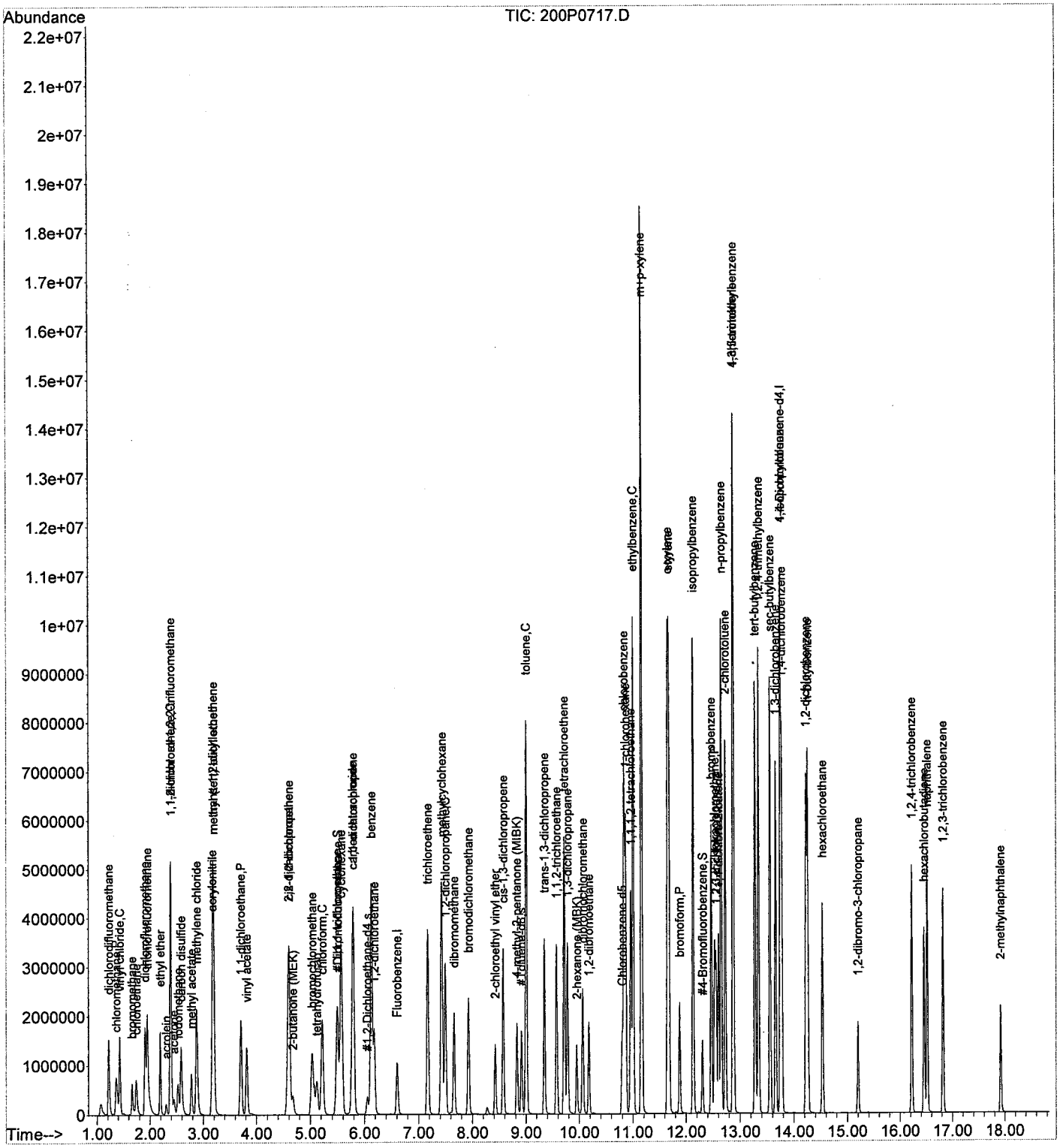
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	7.66	88	1780	No Calib #	
43) bromodichloromethane	7.93	83	841860	98.92 ug/L	100
44) 2-chloroethyl vinyl ether	8.42	63	305745	103.58 ug/L	99
45) cis-1,3-dichloropropene	8.57	75	969359	81.44 ug/L	98
46) 4-methyl-2-pentanone (MIBK	8.83	43	665958	104.59 ug/L	99
48) toluene	9.00	91	3133493	88.44 ug/L	100
49) trans-1,3-dichloropropene	9.35	75	924353	82.57 ug/L	99
50) 1,1,2-trichloroethane	9.57	83	488478	91.08 ug/L	100
52) tetrachloroethene	9.72	166	961042	97.07 ug/L	98
53) 1,3-dichloropropane	9.78	76	1054137	101.76 ug/L	99
54) 2-hexanone (MBK)	9.95	43	492539	119.77 ug/L	99
55) dibromochloromethane	10.06	129	705858	97.04 ug/L	100
56) 1,2-dibromoethane	10.18	109	604408	104.62 ug/L	100
57) chlorobenzene	10.83	112	2093518	98.16 ug/L	99
58) 1-chlorohexane	10.86	55	702226	105.16 ug/L	93
59) 1,1,1,2-tetrachloroethane	10.95	131	709610	109.96 ug/L	99
60) ethylbenzene	11.00	91	3635357	100.98 ug/L	100
61) m+p-xylene	11.16	106	2883597	197.95 ug/L	99
62) o-xylene	11.65	106	1361254	99.38 ug/L	98
63) styrene	11.67	104	2359742	101.18 ug/L	96
64) bromoform	11.88	173	545100	98.02 ug/L	99
67) isopropylbenzene	12.13	105	3311648	102.99 ug/L	100
68) bromobenzene	12.47	77	1263542	102.05 ug/L	98
69) 1,1,2,2-tetrachloroethane	12.53	83	850887	109.90 ug/L #	100
70) 1,2,3-trichloropropane	12.56	110	288989	110.90 ug/L	98
71) 1,4-dichloro-2-butene	12.60	53	354050	110.15 ug/L	90
72) n-propylbenzene	12.65	120	973116	102.69 ug/L	100
73) 2-chlorotoluene	12.73	126	827950	102.39 ug/L	98
74) 1,3,5-trimethylbenzene	12.88	105	2701031	105.24 ug/L	99
75) 4-chlorotoluene	12.87	126	852165	101.56 ug/L	100
76) tert-butylbenzene	13.28	119	2368958	104.09 ug/L	98
77) 1,2,4-trimethylbenzene	13.34	105	2670540	105.43 ug/L	100
78) sec-butylbenzene	13.55	105	3220410	104.76 ug/L	100
79) 1,3-dichlorobenzene	13.66	146	1652973	103.75 ug/L	99
80) 4-isopropyltoluene	13.75	119	2728555	104.55 ug/L	99
81) 1,4-dichlorobenzene	13.77	146	1673315	101.63 ug/L	99
82) 1,2-dichlorobenzene	14.23	146	1588497	104.96 ug/L	99
83) n-butylbenzene	14.25	91	2029075	107.04 ug/L	99
84) hexachloroethane	14.53	201	391541	98.05 ug/L	96
85) 1,2-dibromo-3-chloropropan	15.20	157	301167	99.32 ug/L	98
86) 1,2,4-trichlorobenzene	16.22	180	908761	108.95 ug/L	100
87) hexachlorobutadiene	16.46	225	441319	102.42 ug/L	99
88) naphthalene	16.51	128	2244206	113.85 ug/L	99
89) 1,2,3-trichlorobenzene	16.82	180	821688	110.74 ug/L	99
90) 2-methylnaphthalene	17.92	142	613115	112.36 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 200P0717.D
Acq On : 17 Jul 2012 18:49
Operator : DLV
Sample : CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 18 07:26:35 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration



01059

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 200P0717.D
Acq On : 17 Jul 2012 18:49
Operator : DLV
Sample : CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 18 07:26:35 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.61	96	1224699	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	998859	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	590404	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.51	111	287403	39.73	ug/L	0.00
Spiked Amount 40.000			Recovery =	99.33%		
37) #1,2-Dichloroethane-d4	6.05	65	322707	41.89	ug/L	0.00
Spiked Amount 40.000			Recovery =	104.72%		
47) #Toluene-d8	8.91	98	1260763	38.70	ug/L	0.00
Spiked Amount 40.000			Recovery =	96.75%		
65) #4-Bromofluorobenzene	12.31	95	502967	40.23	ug/L	0.00
Spiked Amount 40.000			Recovery =	100.57%		
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.22	85	1657424	362.22	ug/L	99
3) chloromethane	1.36	50	1329269	231.18	ug/L	98
4) vinyl chloride	1.43	62	1488501	205.72	ug/L	100
5) bromomethane	1.66	94	486536	233.36	ug/L	99
6) chloroethane	1.74	64	708150	166.31	ug/L	99
7) dichlorofluoromethane	1.90	67	2011569	181.56	ug/L	99
8) trichlorofluoromethane	1.94	101	2049516	207.46	ug/L	99
9) ethyl ether	2.19	74	607455	200.95	ug/L	99
10) acrolein	2.30	56	203743	170.82	ug/L	99
11) 1,1,2-trichloro-1,2,2-trif	2.39	101	1048542	228.49	ug/L	100
12) 1,1-dichloroethene	2.38	96	1020387	171.69	ug/L	94
13) acetone	2.45	43	381166	186.58	ug/L	98
14) iodomethane	2.53	142	1037635	187.93	ug/L	97
15) carbon disulfide	2.58	76	2208843	173.86	ug/L	100
16) methyl acetate	2.78	43	1094611	187.26	ug/L	100
17) methylene chloride	2.87	49	1599532	165.21	ug/L	100
18) acrylonitrile	3.16	53	573235	191.72	ug/L	99
19) trans-1,2-dichloroethene	3.18	96	1281588	173.97	ug/L	98
20) methyl (tert) butyl ether	3.19	73	3548223	193.34	ug/L	99
21) 1,1-dichloroethane	3.71	63	2275528	176.20	ug/L	100
22) vinyl acetate	3.82	43	2496081	190.28	ug/L	100
23) 2,2-dichloropropane	4.59	77	1575857	170.92	ug/L	99
24) cis-1,2-dichloroethene	4.61	96	1436502	175.15	ug/L	97
25) 2-butanone (MEK)	4.68	43	623149	195.88	ug/L	99
26) bromochloromethane	5.03	49	1106889	173.80	ug/L	100
27) tetrahydrofuran	5.12	71	230289	198.24	ug/L	99
28) chloroform	5.22	83	2261955	183.64	ug/L	99
30) 1,1,1-trichloroethane	5.49	97	1979623	184.63	ug/L	99
31) cyclohexane	5.57	56	2455138	215.37	ug/L	99
32) carbon tetrachloride	5.77	117	1850258	200.67	ug/L	100
33) 1,1-dichloropropene	5.79	75	1869207	178.10	ug/L	99
34) benzene	6.13	78	5667182	176.99	ug/L	99
35) 1,2-dichloroethane	6.18	62	1738259	186.05	ug/L	98
36) heptane	6.60	57	36960	No Calib	#	
38) trichloroethene	7.17	130	1638898	173.41	ug/L	99
39) methylcyclohexane	7.43	83	2474315	201.15	ug/L	99
40) 1,2-dichloropropane	7.50	63	1352492	177.00	ug/L	100
41) dibromomethane	7.66	93	788372	185.23	ug/L	98

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : 200P0717.D
Acq On : 17 Jul 2012 18:49
Operator : DLV
Sample : CAL7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 18 07:26:35 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Thu Jul 12 12:43:18 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	7.66	88	4096	No Calib #	
43) bromodichloromethane	7.93	83	1768623	203.26 ug/L	100
44) 2-chloroethyl vinyl ether	8.42	63	636930	211.04 ug/L	99
45) cis-1,3-dichloropropene	8.57	75	2045243	165.54 ug/L	99
46) 4-methyl-2-pentanone (MIBK	8.83	43	1365549	209.75 ug/L	100
48) toluene	9.00	91	6567612	181.29 ug/L	99
49) trans-1,3-dichloropropene	9.35	75	1970978	169.16 ug/L	100
50) 1,1,2-trichloroethane	9.57	83	997971	182.00 ug/L	100
52) tetrachloroethene	9.72	166	2006896	197.62 ug/L	99
53) 1,3-dichloropropane	9.78	76	2173330	204.52 ug/L	100
54) 2-hexanone (MBK)	9.95	43	1014532	240.51 ug/L	100
55) dibromochloromethane	10.06	129	1493129	196.46 ug/L	100
56) 1,2-dibromoethane	10.18	109	1255163	211.79 ug/L	99
57) chlorobenzene	10.83	112	4360644	199.32 ug/L	99
58) 1-chlorohexane	10.86	55	1425134	208.06 ug/L	96
59) 1,1,1,2-tetrachloroethane	10.96	131	1501081	226.77 ug/L	99
60) ethylbenzene	11.00	91	7790922	210.96 ug/L	98
61) m+p-xylene	11.16	106	5955902	398.58 ug/L	95
62) o-xylene	11.66	106	2812740	200.19 ug/L	95
63) styrene	11.68	104	4985831	208.41 ug/L	98
64) bromoform	11.88	173	1164739	198.97 ug/L	100
67) isopropylbenzene	12.13	105	7142382	217.74 ug/L	98
68) bromobenzene	12.47	77	2619980	207.43 ug/L	99
69) 1,1,2,2-tetrachloroethane	12.53	83	1724187	218.29 ug/L #	100
70) 1,2,3-trichloropropane	12.56	110	586417	220.59 ug/L	97
71) 1,4-dichloro-2-butene	12.61	53	744689	222.35 ug/L	91
72) n-propylbenzene	12.66	120	2031646	210.16 ug/L	95
73) 2-chlorotoluene	12.73	126	1730401	209.76 ug/L	96
74) 1,3,5-trimethylbenzene	12.89	105	5701138	217.76 ug/L	98
75) 4-chlorotoluene	12.87	126	1740482	203.34 ug/L	95
76) tert-butylbenzene	13.28	119	5069647	218.37 ug/L	99
77) 1,2,4-trimethylbenzene	13.34	105	5757648	222.82 ug/L	98
78) sec-butylbenzene	13.56	105	6941741	221.35 ug/L	99
79) 1,3-dichlorobenzene	13.66	146	3477056	213.93 ug/L	100
80) 4-isopropyltoluene	13.75	119	5843295	219.48 ug/L	99
81) 1,4-dichlorobenzene	13.78	146	3495529	208.12 ug/L	100
82) 1,2-dichlorobenzene	14.23	146	3324858	215.36 ug/L	99
83) n-butylbenzene	14.26	91	4357874	225.35 ug/L	99
84) hexachloroethane	14.53	201	873076	207.53 ug/L	99
85) 1,2-dibromo-3-chloropropan	15.20	157	627446	198.43 ug/L	98
86) 1,2,4-trichlorobenzene	16.22	180	1919375	225.58 ug/L	100
87) hexachlorobutadiene	16.46	225	905664	206.03 ug/L	100
88) naphthalene	16.51	128	4810491	239.23 ug/L	100
89) 1,2,3-trichlorobenzene	16.82	180	1717757	226.93 ug/L	100
90) 2-methylnaphthalene	17.92	142	1217466	216.09 ug/L	99

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

INITIAL CALIBRATION DATA
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2G27002

SDG: KNM070512

Project: KNM

Calibration Date: 07/23/12 00:00

Instrument: 328

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	1	~~0.3769931~~	5	0.1365023	10	0.108572	20	9.688285E-02	40	9.549537E-02	100	9.055267E-02
Benzene	1	1.135204	5	1.218853	10	1.233827	20	1.267327	40	1.300418	100	1.298403
Bromodichloromethane	1	0.3529587	5	0.3682754	10	0.379634	20	0.3936496	40	0.4096083	100	0.426605
Bromoform	1	0.1557316	5	0.1870562	10	0.1971611	20	0.2214706	40	0.2491698	100	0.2710291
Bromomethane	1	0.2222715	5	0.2076424	10	0.1960465	20	0.1776088	40	0.1754168	100	0.1561621
Carbon Disulfide	1	0.6795359	5	0.6251273	10	0.583714	20	0.5870102	40	0.7349978	100	0.7158321
Carbon Tetrachloride	1	0.3554466	5	0.4137464	10	0.4106526	20	0.438727	40	0.4685851	100	0.4890608
Chlorobenzene	1	1.106199	5	1.139799	10	1.119755	20	1.139435	40	1.186892	100	1.179409
Chloroethane	1	0.2415178	5	0.2264515	10	0.2182142	20	0.213645	40	0.2112435	100	0.1951468
Chloroform	1	0.578657	5	0.5887166	10	0.5860215	20	0.5922811	40	0.6010176	100	0.5987007
Chloromethane	1	0.4203208	5	0.4035235	10	0.3901105	20	0.3858521	40	0.3784388	100	0.3538723
Cyclohexane	1	0.404783	5	0.519249	10	0.5387101	20	0.5870712	40	0.6111745	100	0.6216545
1,2-Dibromo-3-chloropropane	1	8.474547E-02	5	9.586571E-02	10	0.1028299	20	0.1110448	40	0.1194107	100	0.1268396
Dibromochloromethane	1	0.2902822	5	0.3138422	10	0.3349929	20	0.3626405	40	0.3901464	100	0.4148356
1,2-Dibromoethane	1	0.2760552	5	0.2858701	10	0.3027584	20	0.3214748	40	0.3349464	100	0.3412043
1,2-Dichlorobenzene	1	1.221307	5	1.254394	10	1.309155	20	1.373305	40	1.405465	100	1.422431
1,3-Dichlorobenzene	1	1.394549	5	1.443057	10	1.501688	20	1.525913	40	1.548688	100	1.556332
1,4-Dichlorobenzene	1	1.596827	5	1.527617	10	1.543585	20	1.573907	40	1.615467	100	1.625689
Dichlorodifluoromethane	1	0.3902778	5	0.4322693	10	0.4132582	20	0.4148248	40	0.404019	100	0.3955078
1,1-Dichloroethane	1	0.546173	5	0.5640492	10	0.5654884	20	0.5816064	40	0.5909516	100	0.592998
1,2-Dichloroethane	1	0.451068	5	0.4612297	10	0.4606238	20	0.4796181	40	0.476985	100	0.4728353
1,1-Dichloroethene	1	0.2717017	5	0.2757862	10	0.2637284	20	0.264357	40	0.2591057	100	0.2514008
cis-1,2-Dichloroethene	1	0.308833	5	0.3182162	10	0.3234446	20	0.3425629	40	0.355795	100	0.3554144
trans-1,2-Dichloroethene	1	0.3178459	5	0.3246469	10	0.3071789	20	0.3135815	40	0.315476	100	0.3268103
1,2-Dichloropropane	1	0.2575721	5	0.2874491	10	0.2906468	20	0.3005109	40	0.3105785	100	0.3140071
cis-1,3-Dichloropropene	1	0.281982	5	0.3247006	10	0.359697	20	0.4108085	40	0.4447906	100	0.4835618
trans-1,3-Dichloropropene	1	0.2075316	5	0.2475502	10	0.2785717	20	0.3224157	40	0.3579282	100	0.4007438
Ethylbenzene	1	1.519484	5	1.777544	10	1.852934	20	1.970997	40	2.102244	100	2.119057
2-Hexanone	1	~~0.1245981~~	5	0.1481965	10	0.1710504	20	0.2004878	40	0.229315	100	0.2418604
Isopropylbenzene	1	1.937754	5	2.486621	10	2.683848	20	2.898854	40	3.057923	100	3.136103
Methyl Acetate	1	0.5062721	5	0.2644095	10	0.2301087	20	0.2123839	40	0.2057708	100	0.1937534

INITIAL CALIBRATION DATA
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2G27002

SDG: KNM070512
Project: KNM
Calibration Date: 07/23/12 00:00
Instrument: 328

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl tert-Butyl Ether	1	0.6519338	5	0.6471741	10	0.6873819	20	0.7245685	40	0.7386776	100	0.7721386
Methylcyclohexane	1	0.3046551	5	0.4267151	10	0.4425699	20	0.4946359	40	0.5224108	100	0.5292383
Methylene Chloride	1	0.7457244	5	0.4555056	10	0.4241231	20	0.4039758	40	0.3896246	100	0.3688827
2-Butanone (MEK)	1	0.1193741	5	0.1152068	10	0.1124555	20	0.1152048	40	0.1289981	100	0.1266555
4-Methyl-2-pentanone (MIBK)	1	0.1447229	5	0.1598818	10	0.1996139	20	0.2203338	40	0.2466785	100	0.2556576
Styrene	1	0.7030572	5	0.9905691	10	1.07277	20	1.185318	40	1.284871	100	1.327811
1,1,2,2-Tetrachloroethane	1	0.8266156	5	0.8109621	10	0.8343499	20	0.8060997	40	0.8035001	100	0.7663298
Tetrachloroethene	1	0.4814219	5	0.5338526	10	0.5271724	20	0.5264538	40	0.5455535	100	0.5351511
Toluene	1	1.199327	5	1.255782	10	1.262796	20	1.307149	40	1.34678	100	1.360818
1,2,4-Trichlorobenzene	1	0.4499846	5	0.4844497	10	0.5052722	20	0.5454631	40	0.5987185	100	0.6101323
1,1,1-Trichloroethane	1	0.4117304	5	0.4655228	10	0.4760541	20	0.4957598	40	0.5184774	100	0.5323899
1,1,2-Trichloroethane	1	0.1977677	5	0.2015426	10	0.2096163	20	0.2183126	40	0.2212911	100	0.2244499
Trichloroethene	1	0.3101004	5	0.3240924	10	0.3283352	20	0.3447715	40	0.3549207	100	0.3718124
Trichlorofluoromethane	1	0.5394602	5	0.6064703	10	0.5810452	20	0.582066	40	0.5715741	100	0.5487289
1,1,2-Trichloro-1,2,2-trifluoro	1	0.2989282	5	0.3483483	10	0.3301053	20	0.3303439	40	0.3222613	100	0.311089
Vinyl Chloride	1	0.3840345	5	0.4132992	10	0.3948205	20	0.3983543	40	0.3921352	100	0.3766598
Xylene (Total)	3	0.5040916	15	0.6492084	30	0.6866274	60	0.7398924	120	0.8026317	300	0.8105263
Dibromofluoromethane	40	0.2826428	40	0.2822437	40	0.2843213	40	0.2858405	40	0.2859994	40	0.2908966
1,2-Dichloroethane-d4	40	0.178668	40	0.1760334	40	0.1762382	40	0.1750963	40	0.1739641	40	0.1742178
Toluene-d8	40	0.9720201	40	0.9764361	40	0.9908398	40	0.9998976	40	0.9851746	40	0.9882521
4-Bromofluorobenzene	40	0.4802321	40	0.4988889	40	0.5016357	40	0.5129153	40	0.5269962	40	0.5287446

INITIAL CALIBRATION DATA (Continued)
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2G27002

SDG: KNM070512
Project: KNM
Calibration Date: 07/23/12 00:00
Instrument: 328

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	200	8.843106E-02										
Benzene	200	1.302884										
Bromodichloromethane	200	0.4403748										
Bromoform	200	0.2878295										
Bromomethane	200	0.1441361										
Carbon Disulfide	200	0.7754439										
Carbon Tetrachloride	200	0.493568										
Chlorobenzene	200	1.197329										
Chloroethane	200	0.1736416										
Chloroform	200	0.6018307										
Chloromethane	200	0.3283658										
Cyclohexane	200	0.6152695										
1,2-Dibromo-3-chloropropane	200	0.1331978										
Dibromochloromethane	200	0.4357489										
1,2-Dibromoethane	200	0.3468556										
1,2-Dichlorobenzene	200	1.467087										
1,3-Dichlorobenzene	200	1.600286										
1,4-Dichlorobenzene	200	1.606818										
Dichlorodifluoromethane	200	0.3677567										
1,1-Dichloroethane	200	0.593619										
1,2-Dichloroethane	200	0.4706371										
1,1-Dichloroethene	200	0.23945										
cis-1,2-Dichloroethene	200	0.3562078										
trans-1,2-Dichloroethene	200	0.3060197										
1,2-Dichloropropane	200	0.3173399										
cis-1,3-Dichloropropene	200	0.5081014										
trans-1,3-Dichloropropene	200	0.4274424										
Ethylbenzene	200	2.106683										
2-Hexanone	200	0.2569051										
Isopropylbenzene	200	3.119668										
Methyl Acetate	200	0.1910423										

INITIAL CALIBRATION DATA (Continued)
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2G27002

SDG: KNM070512
Project: KNM
Calibration Date: 07/23/12 00:00
Instrument: 328

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl tert-Butyl Ether	200	0.7506029										
Methylcyclohexane	200	0.5361467										
Methylene Chloride	200	0.3597639										
2-Butanone (MEK)	200	0.1305203										
4-Methyl-2-pentanone (MIBK)	200	0.2769152										
Styrene	200	1.339698										
1,1,2,2-Tetrachloroethane	200	0.7541727										
Tetrachloroethene	200	0.5328451										
Toluene	200	1.382192										
1,2,4-Trichlorobenzene	200	0.6765404										
1,1,1-Trichloroethane	200	0.5413467										
1,1,2-Trichloroethane	200	0.2284384										
Trichloroethene	200	0.3762259										
Trichlorofluoromethane	200	0.5184459										
1,1,2-Trichloro-1,2,2-trifluoro	200	0.2921636										
Vinyl Chloride	200	0.3532216										
Xylene (Total)	600	0.7899219										
Dibromofluoromethane	40	0.2917582										
1,2-Dichloroethane-d4	40	0.1729725										
Toluene-d8	40	0.9961933										
4-Bromofluorobenzene	40	0.5344988										

INITIAL CALIBRATION DATA (Continued)
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2G27002

SDG: KNM070512
Project: KNM
Calibration Date: 07/23/12 00:00
Instrument: 328

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	Limit	Q
Acetone	0.1027394	17.48744	2.038	2.048206E-02	0.99992		0.99	
Benzene	1.250988	4.882561	5.336	1.964976E-02			15	
Bromodichloromethane	0.3958723	7.978428	7.308428	4.145726E-02			15	
Bromoform	0.2242068	21.29024	11.396	2.374655E-02	0.99901		SPCC (0.1)	
Bromomethane	0.1827549	15.2108	1.384429	0.1757267	0.99774		0.99	
Carbon Disulfide	0.6716659	11.18466	2.153857	1.296006E-02			15	
Carbon Tetrachloride	0.4385409	11.31757	4.934571	8.592706E-02			15	
Chlorobenzene	1.152688	3.059904	10.32386	2.675306E-02			SPCC (0.3)	
Chloroethane	0.2114086	10.35427	1.446143	2.469718E-02			15	
Chloroform	0.5924608	1.455363	4.380714	6.558501E-02			CCC (30)	
Chloromethane	0.3800691	8.085902	1.135714	4.365867E-02			SPCC (0.1)	
Cyclohexane	0.5568446	13.97681	4.716571	0.068414			15	
1,2-Dibromo-3-chloropropane	0.110562	15.65775	14.75414	7.390964E-03	0.99938		0.99	
Dibromochloromethane	0.3632127	14.74309	9.536857	2.736124E-02			15	
1,2-Dibromoethane	0.315595	8.824716	9.646	2.021674E-02			15	
1,2-Dichlorobenzene	1.350449	6.756005	13.76957	2.087172E-02			15	
1,3-Dichlorobenzene	1.510073	4.676934	13.2	1.779674E-02			15	
1,4-Dichlorobenzene	1.584273	2.351482	13.31686	2.042194E-02			15	
Dichlorodifluoromethane	0.4025591	5.132657	1.000143	0.2256277			15	
1,1-Dichloroethane	0.5764122	3.16432	3.099571	7.978007E-02			SPCC (0.1)	
1,2-Dichloroethane	0.467571	2.194467	5.397857	4.243567E-02			15	
1,1-Dichloroethene	0.26079	4.726716	1.989	0.0184812			CCC (30)	
cis-1,2-Dichloroethene	0.3372106	5.957976	3.853429	4.949282E-02			15	
trans-1,2-Dichloroethene	0.315937	2.514108	2.648143	9.933043E-02			15	
1,2-Dichloropropane	0.2968721	6.99267	6.835	3.328149E-02			CCC (30)	
cis-1,3-Dichloropropene	0.4019488	20.81199	7.988	1.322433E-02	0.99929		0.99	
trans-1,3-Dichloropropene	0.3203119	25.20921	8.805857	2.649658E-02	0.99878		0.99	
Ethylbenzene	1.921278	11.55044	10.50686	2.680548E-02			CCC (30)	
2-Hexanone	0.2079692	20.38982	9.445	2.258912E-02	0.99944		0.99	
Isopropylbenzene	2.76011	15.76112	11.664	1.728212E-02	0.99995		0.99	
Methyl Acetate	0.2576772	43.64187	2.311143	9.722018E-02	0.99993		0.99	
Methyl tert-Butyl Ether	0.7103539	6.890296	2.664286	0.11013			15	

INITIAL CALIBRATION DATA (Continued)
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2G27002

SDG: KNM070512
Project: KNM
Calibration Date: 07/23/12 00:00
Instrument: 328

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	Limit	Q
Methylcyclohexane	0.465196	17.77876	6.755143	0.0788206	0.99995		0.99	
Methylene Chloride	0.4496572	29.92497	2.391	1.565681E-02	0.99981		0.99	
2-Butanone (MEK)	0.1212022	6.110523	3.917	8.782931E-02			15	
4-Methyl-2-pentanone (MIBK)	0.2148291	23.0654	8.270571	3.504618E-02	0.99873		0.99	
Styrene	1.129156	20.29651	11.19643	2.637312E-02	0.99993		0.99	
1,1,2,2-Tetrachloroethane	0.80029	3.710626	12.074	0.0204048			SPCC (0.3)	
Tetrachloroethene	0.5260644	3.92906	9.176857	9.92077E-03			15	
Toluene	1.302121	5.068729	8.433	2.466242E-02			CCC (30)	
1,2,4-Trichlorobenzene	0.5529373	14.44227	15.779	1.084192E-02			15	
1,1,1-Trichloroethane	0.4916116	9.164525	4.639286	6.361642E-02			15	
1,1,2-Trichloroethane	0.2144884	5.46914	9.036143	6.864529E-03			15	
Trichloroethene	0.3443226	7.233527	6.486286	4.577207E-02			15	
Trichlorofluoromethane	0.5639701	5.313795	1.617857	0.1390745			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3190342	6.149744	1.994143	0.114311			15	
Vinyl Chloride	0.3875036	4.89981	1.178	2.061107E-02			CCC (30)	
Xylene (Total)	0.7118428	15.45112	11.17	1.858565E-02	0.99972		0.99	
Dibromofluoromethane	0.2862432	1.314403	4.654714	0.0620594			15	
1,2-Dichloroethane-d4	0.1753129	1.071582	5.257	1.580192E-02			15	
Toluene-d8	0.9869734	1.018662	8.341143	9.368777E-03			15	
4-Bromofluorobenzene	0.5119874	3.824758	11.83414	2.482486E-02			15	

Response Factor Report 328

Method Path : C:\msdchem\1\METHODS\
Method File : 8260B-WB66M.M
Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
Last Update : Tue Jul 24 07:58:48 2012
Response Via : Initial Calibration

2G27002

01958

Calibration Files
1 =1P0723.D 2 =5P0723.D 3 =10P0723.D 4 =20P0723.D 5 =40P0723.D 6 =100P0723.D 7 =200P0723.D

		Compound	1	2	3	4	5	6	7	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------								
2)		dichlorodifluo...	0.390	0.432	0.413	0.415	0.404	0.396	0.368	0.403	5.13
3)	P	chloromethane	0.420	0.404	0.390	0.386	0.378	0.354	0.328	0.380	8.09
4)	C	vinyl chloride	0.384	0.413	0.395	0.398	0.392	0.377	0.353	0.388	4.90#
5)		bromomethane	0.222	0.208	0.196	0.178	0.175	0.156	0.144	0.183	15.21
6)		chloroethane	0.242	0.226	0.218	0.214	0.211	0.195	0.174	0.211	10.35
7)		dichlorofluoro...	0.614	0.622	0.599	0.593	0.584	0.560	0.532	0.586	5.36
8)		trichlorofluor...	0.539	0.606	0.581	0.582	0.572	0.549	0.518	0.564	5.31
9)		ethyl ether	0.150	0.169	0.167	0.171	0.172	0.168	0.161	0.165	4.59
10)		acrolein	0.034	0.035	0.036	0.038	0.038	0.038	0.037	0.037	3.90
11)		1,1,2-trichlor...	0.299	0.348	0.330	0.330	0.322	0.311	0.292	0.319	6.15
12)	C	1,1-dichloroet...	0.272	0.276	0.264	0.264	0.259	0.251	0.239	0.261	4.73#
13)		acetone		0.137	0.109	0.097	0.095	0.091	0.088	0.103	17.49
14)		iodomethane	0.158	0.190	0.215	0.259	0.357	0.384	0.404	0.281	35.40
15)		carbon disulfide	0.680	0.625	0.584	0.587	0.735	0.716	0.775	0.672	11.18
16)		methyl acetate	0.506	0.264	0.230	0.212	0.206	0.194	0.191	0.258	43.64
17)		methylene chlo...	0.746	0.456	0.424	0.404	0.390	0.369	0.360	0.450	29.92
18)		acrylonitrile	0.110	0.115	0.104	0.109	0.107	0.119	0.102	0.109	5.35
19)		trans-1,2-dich...	0.318	0.325	0.307	0.314	0.315	0.327	0.306	0.316	2.51
20)		methyl (tert) ...	0.652	0.647	0.687	0.725	0.739	0.772	0.751	0.710	6.89
21)	P	1,1-dichloroet...	0.546	0.564	0.565	0.582	0.591	0.593	0.594	0.576	3.16
22)		vinyl acetate	0.337	0.380	0.391	0.392	0.508	0.450	0.504	0.423	15.52
23)		2,2-dichloropr...	0.230	0.273	0.297	0.317	0.348	0.369	0.370	0.315	16.54
24)		cis-1,2-dichlo...	0.309	0.318	0.323	0.343	0.356	0.355	0.356	0.337	5.96
25)		2-butanone (MEK)	0.119	0.115	0.112	0.115	0.129	0.127	0.131	0.121	6.11
26)		bromochloromet...	0.269	0.267	0.272	0.272	0.271	0.268	0.266	0.269	0.90
27)		tetrahydrofuran	0.003	0.019	0.023	0.026	0.029	0.030	0.031	0.023	42.87
28)	C	chloroform	0.579	0.589	0.586	0.592	0.601	0.599	0.602	0.592	1.46#
29)	S	#Dibromofluoro...	0.283	0.282	0.284	0.286	0.286	0.291	0.292	0.286	1.31
30)		1,1,1-trichlor...	0.412	0.466	0.476	0.496	0.518	0.532	0.541	0.492	9.16
31)		cyclohexane	0.405	0.519	0.539	0.587	0.611	0.622	0.615	0.557	13.98
32)		carbon tetrach...	0.355	0.414	0.411	0.439	0.469	0.489	0.494	0.439	11.32
33)		1,1-dichloropr...	0.334	0.418	0.425	0.454	0.477	0.485	0.481	0.439	12.22
34)		benzene	1.135	1.219	1.234	1.267	1.300	1.298	1.303	1.251	4.88
35)		1,2-dichloroet...	0.451	0.461	0.461	0.480	0.477	0.473	0.471	0.468	2.19
36)		heptane								0.000	-1.00
37)	s	#1,2-Dichloroe...	0.179	0.176	0.176	0.175	0.174	0.174	0.173	0.175	1.07
38)		trichloroethene	0.310	0.324	0.328	0.345	0.355	0.372	0.376	0.344	7.23
39)		methylcyclohexane	0.305	0.427	0.443	0.495	0.522	0.529	0.536	0.465	17.78

DW 7/30/12

Method Path : C:\msdchem\1\METHODS\
Method File : 8260B-WB66M.M

40)	C	1,2-dichloropr...	0.258	0.287	0.291	0.301	0.311	0.314	0.317	0.297	6.99#
41)		dibromomethane	0.174	0.180	0.187	0.194	0.194	0.194	0.192	0.188	4.19
42)		1,4-dioxane								0.000	-1.00
43)		bromodichlorom...	0.353	0.368	0.380	0.394	0.410	0.427	0.440	0.396	7.98
44)		2-chloroethyl ...	0.027	0.032	0.037	0.046	0.053	0.057	0.059	0.044	27.90
45)		cis-1,3-dichlo...	0.282	0.325	0.360	0.411	0.445	0.484	0.508	0.402	20.81
46)		4-methyl-2-pen...	0.145	0.160	0.200	0.220	0.247	0.256	0.277	0.215	23.07
47)	s	#Toluene-d8	0.972	0.976	0.991	1.000	0.985	0.988	0.996	0.987	1.02
48)	C	toluene	1.199	1.256	1.263	1.307	1.347	1.361	1.382	1.302	5.07#
49)		trans-1,3-dich...	0.208	0.248	0.279	0.322	0.358	0.401	0.427	0.320	25.21
50)		1,1,2-trichlor...	0.198	0.202	0.210	0.218	0.221	0.224	0.228	0.214	5.47
51)		Chlorobenzene-d5	----------ISTD----------								
52)		tetrachloroethene	0.481	0.534	0.527	0.526	0.546	0.535	0.533	0.526	3.93
53)		1,3-dichloropr...	0.524	0.571	0.585	0.623	0.645	0.645	0.649	0.606	7.84
54)		2-hexanone (MBK)		0.148	0.171	0.200	0.229	0.242	0.257	0.208	20.39
55)		dibromochlorom...	0.290	0.314	0.335	0.363	0.390	0.415	0.436	0.363	14.74
56)		1,2-dibromoethane	0.276	0.286	0.303	0.321	0.335	0.341	0.347	0.316	8.82
57)	P	chlorobenzene	1.106	1.140	1.120	1.139	1.187	1.179	1.197	1.153	3.06
58)		1-chlorohexane	0.349	0.389	0.403	0.421	0.455	0.452	0.448	0.417	9.43
59)		1,1,1,2-tetrac...	0.296	0.330	0.347	0.376	0.402	0.418	0.434	0.372	13.46
60)	C	ethylbenzene	1.519	1.778	1.853	1.971	2.102	2.119	2.107	1.921	11.55#
61)		m+p-xylene	0.531	0.688	0.711	0.760	0.824	0.823	0.791	0.733	14.07
62)		o-xylene	0.450	0.571	0.639	0.700	0.759	0.786	0.787	0.670	18.79
63)		styrene	0.703	0.991	1.073	1.185	1.285	1.328	1.340	1.129	20.30
64)	P	bromoform	0.156	0.187	0.197	0.221	0.249	0.271	0.288	0.224	21.29
65)	S	#4-Bromofluoro...	0.480	0.499	0.502	0.513	0.527	0.529	0.534	0.512	3.82
66)	I	1,4-Dichlorobenzen...	----------ISTD----------								
67)		isopropylbenzene	1.938	2.487	2.684	2.899	3.058	3.136	3.120	2.760	15.76
68)		bromobenzene	1.381	1.371	1.381	1.387	1.386	1.369	1.373	1.378	0.53
69)	P	1,1,2,2-tetrac...	0.827	0.811	0.834	0.806	0.804	0.766	0.754	0.800	3.71
70)		1,2,3-trichlor...	0.263	0.263	0.266	0.268	0.267	0.259	0.255	0.263	1.71
71)		1,4-dichloro-2...	0.141	0.186	0.205	0.223	0.239	0.252	0.260	0.215	19.44
72)		n-propylbenzene	0.603	0.757	0.805	0.852	0.907	0.936	0.945	0.829	14.61
73)		2-chlorotoluene	0.687	0.788	0.821	0.838	0.852	0.844	0.846	0.811	7.24
74)		1,3,5-trimethy...	1.832	2.471	2.612	2.776	2.898	2.930	2.908	2.632	14.90
75)		4-chlorotoluene	2.143	2.521	2.666	2.789	2.858	2.869	2.835	2.669	9.87
76)		tert-butylbenzene	1.336	1.786	1.866	1.990	2.125	2.201	2.303	1.944	16.69
77)		1,2,4-trimethy...	1.529	2.160	2.331	2.501	2.694	2.796	2.850	2.409	19.15
78)		sec-butylbenzene	1.808	2.337	2.438	2.611	2.864	3.023	3.168	2.607	17.82
79)		1,3-dichlorobe...	1.395	1.443	1.502	1.526	1.549	1.556	1.600	1.510	4.68
80)		4-isopropyltol...	1.738	1.995	2.010	2.137	2.348	2.473	2.542	2.178	13.33
81)		1,4-dichlorobe...	1.597	1.528	1.544	1.574	1.615	1.626	1.607	1.584	2.35
82)		1,2-dichlorobe...	1.221	1.254	1.309	1.373	1.405	1.422	1.467	1.350	6.76
83)		n-butylbenzene	1.111	1.447	1.517	1.654	1.850	1.930	2.120	1.661	20.37
84)		hexachloroethane	0.175	0.205	0.215	0.235	0.276	0.306	0.345	0.251	24.07
85)		1,2-dibromo-3-...	0.085	0.096	0.103	0.111	0.119	0.127	0.133	0.111	15.66
86)		1,2,4-trichlor...	0.450	0.484	0.505	0.545	0.599	0.610	0.677	0.553	14.44

61969

Response Factor Report 328

Method Path : C:\msdchem\1\METHODS\
Method File : 8260B-WB66M.M

87)	hexachlorobuta...	0.267	0.251	0.241	0.245	0.251	0.241	0.267	0.252	4.41
88)	naphthalene		0.846	1.000	1.157	1.282	1.260	1.409	1.159	17.74
89)	1,2,3-trichlor...	0.417	0.461	0.466	0.490	0.518	0.505	0.553	0.487	9.01
90)	2-methylnaphth...		0.219	0.271	0.348	0.411	0.415	0.424	0.348	24.72

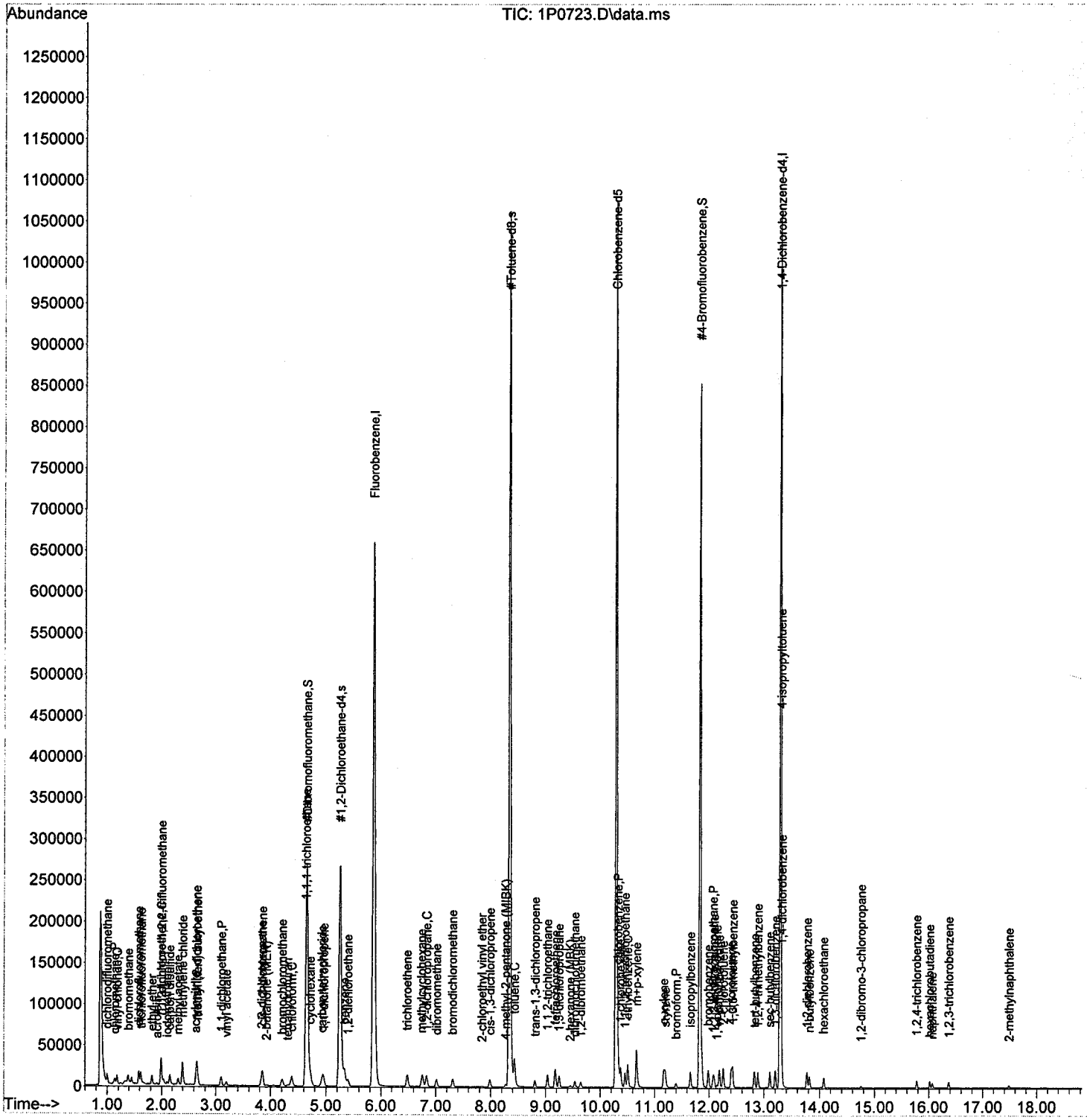
(#) = Out of Range

010176

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 1P0723.D
Acq On : 23 Jul 2012 14:08
Operator : LEW
Sample : 1P0723
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 14:51:56 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration



01071

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 1P0723.D
Acq On : 23 Jul 2012 14:08
Operator : LEW
Sample : 1P0723
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 14:51:56 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.866	96	852111	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.286	117	626976	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.286	152	287921	40.00	ug/L	# 0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	4.653	111	240843	40.07	ug/L	-0.01
Spiked Amount 40.000			Recovery	=	100.18%	
37) #1,2-Dichloroethane-d4	5.257	67	152245	40.35	ug/L	0.00
Spiked Amount 40.000			Recovery	=	100.88%	
47) #Toluene-d8	8.342	98	828269	40.64	ug/L	0.00
Spiked Amount 40.000			Recovery	=	101.60%	
65) #4-Bromofluorobenzene	11.835	95	301094	37.22	ug/L	0.00
Spiked Amount 40.000			Recovery	=	93.05%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.995	85	8314	0.96	ug/L	98
3) chloromethane	1.136	50	8954	1.18	ug/L	97
4) vinyl chloride	1.178	62	8181	0.98	ug/L	94
5) bromomethane	1.386	94	4735	1.50	ug/L	96
6) chloroethane	1.447	64	5145	Below Cal		94
7) dichlorofluoromethane	1.581	67	13079	1.06	ug/L	99
8) trichlorofluoromethane	1.623	101	11492	0.99	ug/L	97
9) ethyl ether	1.818	74	3203	0.90	ug/L #	80
10) acrolein	1.910	56	731	0.90	ug/L #	80
11) 1,1,2-trichloro-1,2,2-...	1.995	101	6368	0.93	ug/L	97
12) 1,1-dichloroethene	1.989	96	5788	1.04	ug/L #	86
13) acetone	2.038	43	8031	Below Cal		98
14) iodomethane	2.099	142	3376	3.18	ug/L	89
15) carbon disulfide	2.154	76	14476	0.92	ug/L	99
16) methyl acetate	2.306	43	10785	0.82	ug/L	89
17) methylene chloride	2.391	49	15886	0.90	ug/L	89
18) acrylonitrile	2.629	53	2347	1.05	ug/L #	88
19) trans-1,2-dichloroethene	2.648	96	6771	1.06	ug/L	98
20) methyl (tert) butyl ether	2.660	73	13888	0.93	ug/L	95
21) 1,1-dichloroethane	3.099	63	11635	0.96	ug/L	98
22) vinyl acetate	3.190	43	7181	0.46	ug/L	88
23) 2,2-dichloropropane	3.836	77	4905	3.13	ug/L	91
24) cis-1,2-dichloroethene	3.849	96	6579	0.91	ug/L	97
25) 2-butanone (MEK)	3.922	43	2543	0.96	ug/L #	59
26) bromochloromethane	4.208	49	5723	1.00	ug/L #	72
27) tetrahydrofuran	4.306	71	61	3.66	ug/L #	1
28) chloroform	4.379	83	12327	1.00	ug/L	98
30) 1,1,1-trichloroethane	4.635	97	8771	0.86	ug/L #	93
31) cyclohexane	4.714	56	8623	0.73	ug/L	84
32) carbon tetrachloride	4.928	117	7572	0.89	ug/L	99
33) 1,1-dichloropropene	4.958	75	7105	0.76	ug/L	98
34) benzene	5.336	78	24183	0.92	ug/L #	74
35) 1,2-dichloroethane	5.397	62	9609	0.97	ug/L	99
36) heptane	5.866	57	31797	No Calib		
38) trichloroethene	6.482	130	6606	0.90	ug/L	96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 1P0723.D
Acq On : 23 Jul 2012 14:08
Operator : LEW
Sample : 1P0723
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 23 14:51:56 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration

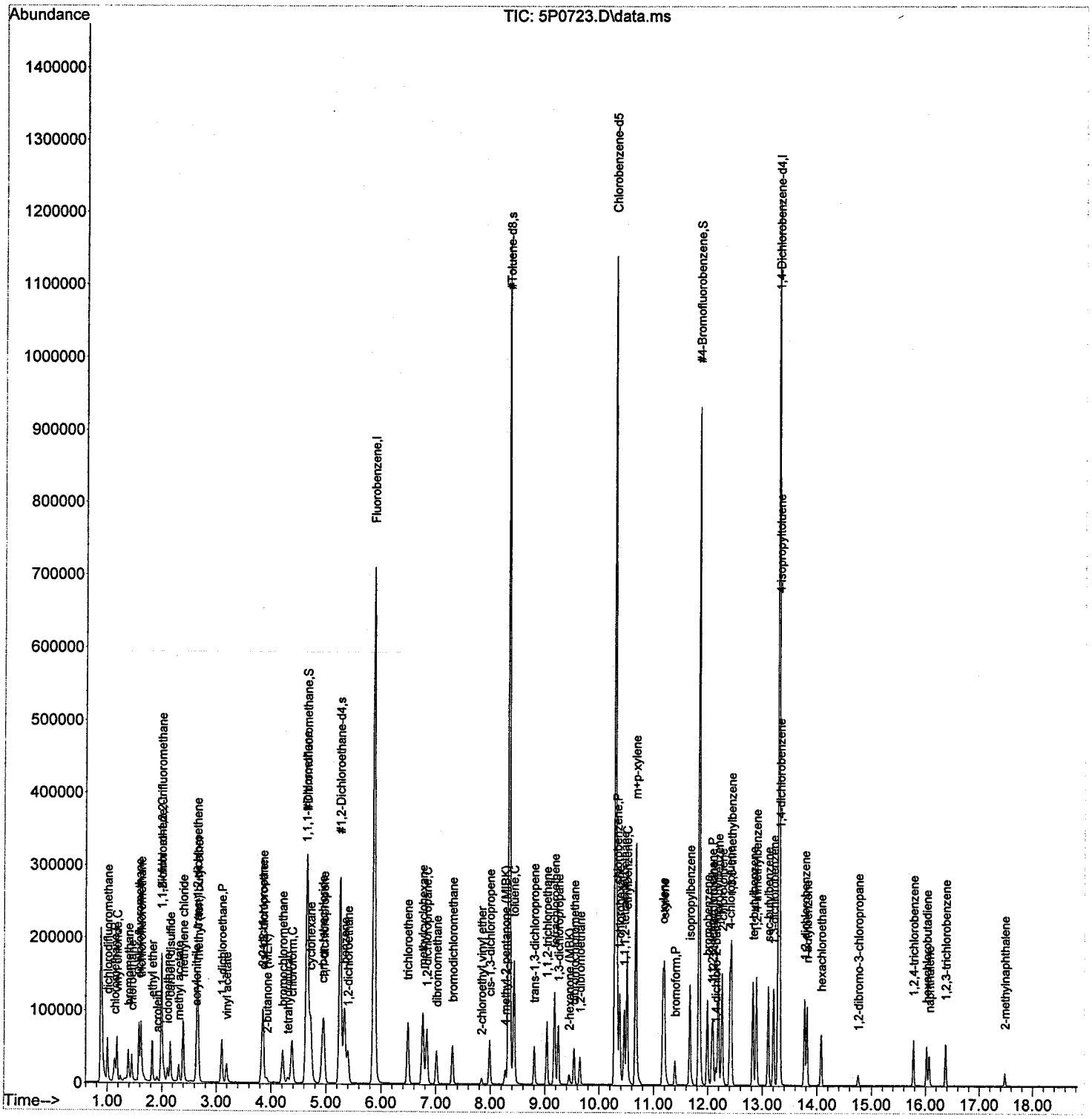
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39)	methylcyclohexane	6.744	83	6490	2.40 ug/L #	85
40)	1,2-dichloropropane	6.836	63	5487	0.88 ug/L #	82
41)	dibromomethane	7.013	93	3713	0.95 ug/L #	84
42)	1,4-dioxane	0.000		0	N.D.	
43)	bromodichloromethane	7.305	83	7519	0.92 ug/L	99
44)	2-chloroethyl vinyl ether	7.842	63	579	1.61 ug/L #	41
45)	cis-1,3-dichloropropene	7.988	75	6007	1.55 ug/L	95
46)	4-methyl-2-pentanone (...	8.274	43	3083	4.78 ug/L #	73
48)	toluene	8.433	91	25549	0.95 ug/L	98
49)	trans-1,3-dichloropropene	8.811	75	4421	4.79 ug/L	91
50)	1,1,2-trichloroethane	9.037	83	4213	0.95 ug/L	92
52)	tetrachloroethene	9.177	166	7546	0.93 ug/L	98
53)	1,3-dichloropropane	9.244	76	8216	0.84 ug/L	99
54)	2-hexanone (MBK)	9.451	43	1953	4.70 ug/L #	75
55)	dibromochloromethane	9.536	129	4550	0.78 ug/L	98
56)	1,2-dibromoethane	9.646	109	4327	0.85 ug/L #	100
57)	chlorobenzene	10.323	112	17339	0.96 ug/L #	64
58)	1-chlorohexane	10.372	55	5469	0.81 ug/L #	78
59)	1,1,1,2-tetrachloroethane	10.457	131	4647	0.78 ug/L	93
60)	ethylbenzene	10.506	91	23817	0.78 ug/L	99
61)	m+p-xylene	10.670	106	16653	1.41 ug/L	93
62)	o-xylene	11.170	106	7051	2.65 ug/L	95
63)	styrene	11.201	104	11020	2.61 ug/L	94
64)	bromoform	11.396	173	2441	3.73 ug/L	95
67)	isopropylbenzene	11.664	105	13948	0.69 ug/L	99
68)	bromobenzene	11.987	77	9940	1.04 ug/L	88
69)	1,1,2,2-tetrachloroethane	12.073	83	5950	1.05 ug/L #	97
70)	1,2,3-trichloropropane	12.097	110	1894	1.02 ug/L #	82
71)	1,4-dichloro-2-butene	12.146	53	1016	2.72 ug/L #	23
72)	n-propylbenzene	12.188	120	4344	0.69 ug/L	94
73)	2-chlorotoluene	12.262	126	4945	0.87 ug/L #	85
74)	1,3,5-trimethylbenzene	12.432	105	13186	0.68 ug/L	99
75)	4-chlorotoluene	12.408	91	15424	0.80 ug/L	94
76)	tert-butylbenzene	12.828	119	9614	0.63 ug/L	94
77)	1,2,4-trimethylbenzene	12.889	105	11004	0.59 ug/L	99
78)	sec-butylbenzene	13.103	105	13012	0.62 ug/L	96
79)	1,3-dichlorobenzene	13.200	146	10038	0.92 ug/L	99
80)	4-isopropyltoluene	13.304	119	12511	0.71 ug/L	90
81)	1,4-dichlorobenzene	13.316	146	11494	0.98 ug/L #	75
82)	1,2-dichlorobenzene	13.773	146	8791	0.89 ug/L	98
83)	n-butylbenzene	13.816	91	8000	2.72 ug/L	96
84)	hexachloroethane	14.072	201	1262	4.74 ug/L #	54
85)	1,2-dibromo-3-chloropr...	14.755	157	610	2.81 ug/L	94
86)	1,2,4-trichlorobenzene	15.779	180	3239	0.74 ug/L	99
87)	hexachlorobutadiene	16.017	225	1924	1.00 ug/L	96
88)	naphthalene	16.066	128	5410	3.16 ug/L	94
89)	1,2,3-trichlorobenzene	16.377	180	3005	0.81 ug/L	95
90)	2-methylnaphthalene	17.486	142	1654	2.04 ug/L	96

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 5P0723.D
Acq On : 23 Jul 2012 14:36
Operator : LEW
Sample : 5P0723
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 24 07:56:20 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration



01074

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 5P0723.D
Acq On : 23 Jul 2012 14:36
Operator : LEW
Sample : 5P0723
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 24 07:56:20 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.872	96	894461	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.286	117	658369	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.286	152	323369	40.00	ug/L	# 0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	4.653	111	252456	40.01	ug/L	-0.01
Spiked Amount 40.000			Recovery	=	100.02%	
37) #1,2-Dichloroethane-d4	5.257	67	157455	39.75	ug/L	0.00
Spiked Amount 40.000			Recovery	=	99.38%	
47) #Toluene-d8	8.341	98	873384	40.82	ug/L	0.00
Spiked Amount 40.000			Recovery	=	102.05%	
65) #4-Bromofluorobenzene	11.835	95	328453	38.66	ug/L	0.00
Spiked Amount 40.000			Recovery	=	96.65%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.001	85	48331	5.30	ug/L	99
3) chloromethane	1.136	50	45117	5.68	ug/L	100
4) vinyl chloride	1.178	62	46210	5.26	ug/L	99
5) bromomethane	1.385	94	23216	7.03	ug/L	100
6) chloroethane	1.446	64	25319	2.36	ug/L	100
7) dichlorofluoromethane	1.581	67	69551	5.37	ug/L	99
8) trichlorofluoromethane	1.617	101	67808	5.59	ug/L	98
9) ethyl ether	1.818	74	18860	5.07	ug/L	93
10) acrolein	1.910	56	3933	4.59	ug/L #	98
11) 1,1,2-trichloro-1,2,2-...	1.989	101	38948	5.43	ug/L	96
12) 1,1-dichloroethene	1.989	96	30835	5.25	ug/L	90
13) acetone	2.038	43	15262	Below Cal		93
14) iodomethane	2.099	142	21278	4.79	ug/L	94
15) carbon disulfide	2.154	76	69894	4.24	ug/L	100
16) methyl acetate	2.312	43	29563	4.92	ug/L	91
17) methylene chloride	2.391	49	50929	5.08	ug/L	92
18) acrylonitrile	2.629	53	12830	5.46	ug/L	97
19) trans-1,2-dichloroethene	2.647	96	36298	5.42	ug/L	99
20) methyl (tert) butyl ether	2.666	73	72359	4.63	ug/L	92
21) 1,1-dichloroethane	3.099	63	63065	4.96	ug/L	99
22) vinyl acetate	3.190	43	42480	5.30	ug/L	95
23) 2,2-dichloropropane	3.842	77	30559	6.14	ug/L	91
24) cis-1,2-dichloroethene	3.854	96	35579	4.67	ug/L	96
25) 2-butanone (MEK)	3.922	43	12881	4.63	ug/L	87
26) bromochloromethane	4.208	49	29906	4.97	ug/L #	74
27) tetrahydrofuran	4.306	71	2118	6.53	ug/L #	47
28) chloroform	4.379	83	65823	5.07	ug/L	100
30) 1,1,1-trichloroethane	4.641	97	52049	4.84	ug/L #	92
31) cyclohexane	4.714	56	58056	4.67	ug/L	87
32) carbon tetrachloride	4.934	117	46260	5.17	ug/L	99
33) 1,1-dichloropropene	4.958	75	46764	4.78	ug/L	98
34) benzene	5.336	78	136277	4.94	ug/L	95
35) 1,2-dichloroethane	5.397	62	51569	4.98	ug/L	97
36) heptane	5.872	57	34027	No Calib		
38) trichloroethene	6.482	130	36236	4.71	ug/L	96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 5P0723.D
Acq On : 23 Jul 2012 14:36
Operator : LEW
Sample : 5P0723
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 24 07:56:20 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration

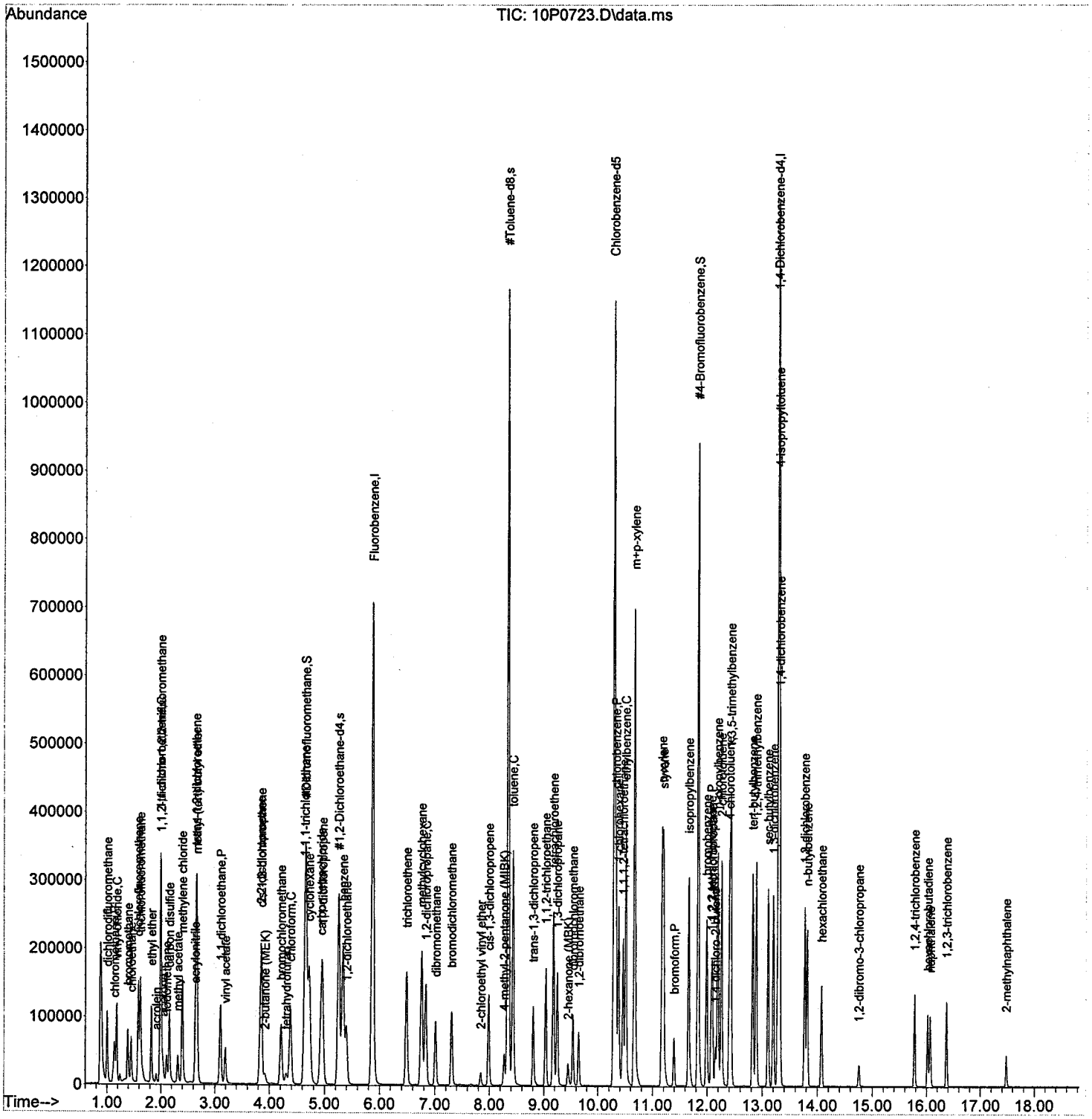
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	6.756	83	47710	5.78 ug/L	92
40) 1,2-dichloropropane	6.830	63	32139	4.92 ug/L	94
41) dibromomethane	7.012	93	20166	4.91 ug/L #	88
42) 1,4-dioxane	0.000		0	N.D.	
43) bromodichloromethane	7.311	83	41176	4.81 ug/L	99
44) 2-chloroethyl vinyl ether	7.835	63	3626	3.48 ug/L	90
45) cis-1,3-dichloropropene	7.988	75	36304	4.35 ug/L	96
46) 4-methyl-2-pentanone (...	8.274	43	17876	7.05 ug/L	90
48) toluene	8.433	91	140406	4.99 ug/L	100
49) trans-1,3-dichloropropene	8.805	75	27678	7.19 ug/L	95
50) 1,1,2-trichloroethane	9.036	83	22534	4.85 ug/L	96
52) tetrachloroethene	9.177	166	43934	5.17 ug/L	97
53) 1,3-dichloropropane	9.250	76	46991	4.60 ug/L	100
54) 2-hexanone (MBK)	9.445	43	12196	6.93 ug/L	89
55) dibromochloromethane	9.536	129	25828	4.24 ug/L	98
56) 1,2-dibromoethane	9.646	109	23526	4.43 ug/L #	100
57) chlorobenzene	10.323	112	93801	4.94 ug/L	93
58) 1-chlorohexane	10.371	55	32004	4.53 ug/L	89
59) 1,1,1,2-tetrachloroethane	10.457	131	27165	4.37 ug/L	94
60) ethylbenzene	10.506	91	146285	4.54 ug/L	99
61) m+p-xylene	10.670	106	113251	9.15 ug/L	94
62) o-xylene	11.170	106	47031	5.57 ug/L	97
63) styrene	11.195	104	81520	5.65 ug/L	98
64) bromoform	11.396	173	15394	6.34 ug/L	99
67) isopropylbenzene	11.664	105	100512	4.43 ug/L	99
68) bromobenzene	11.987	77	55426	5.17 ug/L	88
69) 1,1,2,2-tetrachloroethane	12.072	83	32780	5.17 ug/L #	97
70) 1,2,3-trichloropropane	12.091	110	10613	5.10 ug/L #	78
71) 1,4-dichloro-2-butene	12.146	53	7510	5.67 ug/L #	65
72) n-propylbenzene	12.188	120	30598	4.32 ug/L	96
73) 2-chlorotoluene	12.261	126	31858	4.99 ug/L	91
74) 1,3,5-trimethylbenzene	12.426	105	99863	4.58 ug/L	98
75) 4-chlorotoluene	12.402	91	101893	4.70 ug/L	99
76) tert-butylbenzene	12.828	119	72189	4.22 ug/L	98
77) 1,2,4-trimethylbenzene	12.889	105	87305	4.17 ug/L	97
78) sec-butylbenzene	13.103	105	94471	4.00 ug/L	98
79) 1,3-dichlorobenzene	13.200	146	58330	4.75 ug/L	98
80) 4-isopropyltoluene	13.304	119	80653	4.08 ug/L	98
81) 1,4-dichlorobenzene	13.316	146	61748	4.71 ug/L	93
82) 1,2-dichlorobenzene	13.773	146	50704	4.56 ug/L	99
83) n-butylbenzene	13.816	91	58487	5.36 ug/L	95
84) hexachloroethane	14.078	201	8282	7.04 ug/L #	63
85) 1,2-dibromo-3-chloropr...	14.755	157	3875	5.71 ug/L	97
86) 1,2,4-trichlorobenzene	15.779	180	19582	4.00 ug/L	98
87) hexachlorobutadiene	16.023	225	10140	4.71 ug/L	99
88) naphthalene	16.072	128	34178	5.43 ug/L	96
89) 1,2,3-trichlorobenzene	16.370	180	18633	4.45 ug/L	96
90) 2-methylnaphthalene	17.480	142	8841	4.00 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 10P0723.D
Acq On : 23 Jul 2012 15:03
Operator : LEW
Sample : 10P0723
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 24 07:56:29 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration



01077

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 10P0723.D
Acq On : 23 Jul 2012 15:03
Operator : LEW
Sample : 10P0723
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 24 07:56:29 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.872	96	885790	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.286	117	658426	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.286	152	327570	40.00	ug/L	# 0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	4.653	111	251849	40.31	ug/L	-0.01
Spiked Amount 40.000			Recovery	=	100.78%	
37) #1,2-Dichloroethane-d4	5.257	67	156110	39.80	ug/L	0.00
Spiked Amount 40.000			Recovery	=	99.50%	
47) #Toluene-d8	8.341	98	877676	41.42	ug/L	0.00
Spiked Amount 40.000			Recovery	=	103.55%	
65) #4-Bromofluorobenzene	11.835	95	330290	38.87	ug/L	0.00
Spiked Amount 40.000			Recovery	=	97.17%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.001	85	91515	10.13	ug/L	98
3) chloromethane	1.136	50	86389	10.99	ug/L	99
4) vinyl chloride	1.178	62	87432	10.05	ug/L	99
5) bromomethane	1.385	94	43414	13.27	ug/L	99
6) chloroethane	1.446	64	48323	8.22	ug/L	99
7) dichlorofluoromethane	1.581	67	132719	10.35	ug/L	100
8) trichlorofluoromethane	1.617	101	128671	10.70	ug/L	100
9) ethyl ether	1.824	74	36872	10.01	ug/L	96
10) acrolein	1.910	56	7989	9.42	ug/L #	99
11) 1,1,2-trichloro-1,2,2-...	1.995	101	73101	10.29	ug/L	97
12) 1,1-dichloroethene	1.989	96	58402	10.05	ug/L	92
13) acetone	2.038	43	24043	3.66	ug/L #	90
14) iodomethane	2.099	142	47676	7.25	ug/L	95
15) carbon disulfide	2.154	76	129262	7.91	ug/L	100
16) methyl acetate	2.312	43	50957	9.83	ug/L	94
17) methylene chloride	2.391	49	93921	10.43	ug/L	93
18) acrylonitrile	2.629	53	23118	9.93	ug/L	96
19) trans-1,2-dichloroethene	2.647	96	68024	10.25	ug/L	100
20) methyl (tert) butyl ether	2.660	73	152219	9.84	ug/L	94
21) 1,1-dichloroethane	3.099	63	125226	9.94	ug/L	98
22) vinyl acetate	3.190	43	86521	10.99	ug/L	95
23) 2,2-dichloropropane	3.842	77	65858	10.38	ug/L	94
24) cis-1,2-dichloroethene	3.854	96	71626	9.49	ug/L	98
25) 2-butanone (MEK)	3.915	43	24903	9.04	ug/L	90
26) bromochloromethane	4.208	49	60288	10.11	ug/L #	73
27) tetrahydrofuran	4.300	71	5126	10.79	ug/L #	68
28) chloroform	4.379	83	129773	10.09	ug/L	99
30) 1,1,1-trichloroethane	4.635	97	105421	9.89	ug/L #	93
31) cyclohexane	4.714	56	119296	9.69	ug/L	87
32) carbon tetrachloride	4.934	117	90938	10.27	ug/L	99
33) 1,1-dichloropropene	4.958	75	94112	9.72	ug/L	100
34) benzene	5.336	78	273228	10.00	ug/L	96
35) 1,2-dichloroethane	5.397	62	102004	9.95	ug/L	98
36) heptane	5.866	57	32867	No Calib		
38) trichloroethene	6.488	130	72709	9.54	ug/L	96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 10P0723.D
Acq On : 23 Jul 2012 15:03
Operator : LEW
Sample : 10P0723
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 24 07:56:29 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration

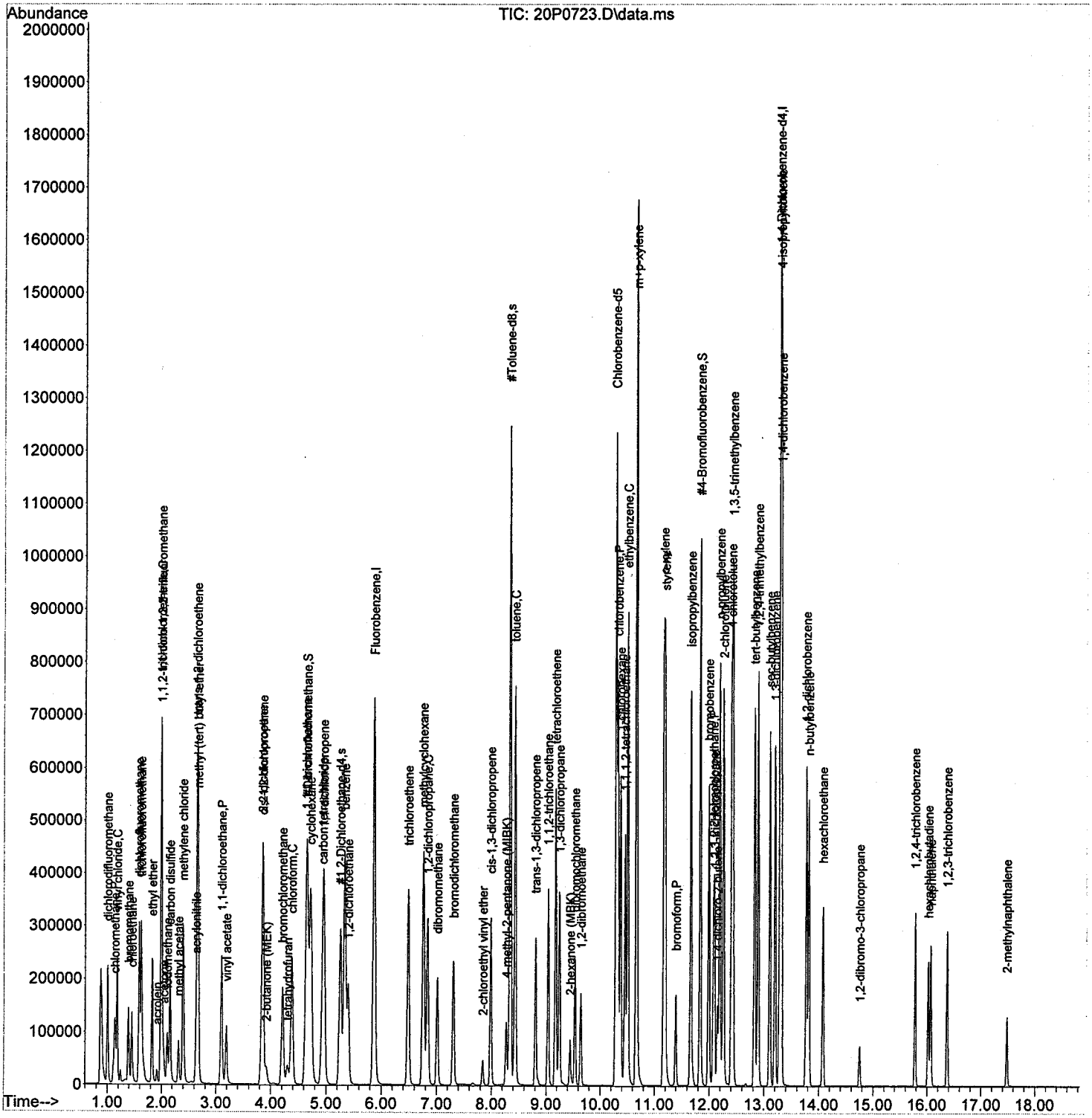
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	6.756	83	98006	10.02 ug/L	93
40) 1,2-dichloropropane	6.836	63	64363	9.96 ug/L	95
41) dibromomethane	7.012	93	41405	10.19 ug/L #	87
42) 1,4-dioxane	0.000		0	N.D.	
43) bromodichloromethane	7.305	83	84069	9.92 ug/L	99
44) 2-chloroethyl vinyl ether	7.842	63	8287	6.43 ug/L	93
45) cis-1,3-dichloropropene	7.988	75	79654	8.46 ug/L	96
46) 4-methyl-2-pentanone (...	8.268	43	44204	11.20 ug/L	85
48) toluene	8.433	91	279643	10.04 ug/L	99
49) trans-1,3-dichloropropene	8.805	75	61689	10.78 ug/L	97
50) 1,1,2-trichloroethane	9.036	83	46419	10.09 ug/L	93
52) tetrachloroethene	9.177	166	86776	10.21 ug/L	96
53) 1,3-dichloropropane	9.244	76	96312	9.43 ug/L	99
54) 2-hexanone (MBK)	9.445	43	28156	10.45 ug/L	90
55) dibromochloromethane	9.536	129	55142	9.05 ug/L	99
56) 1,2-dibromoethane	9.646	109	49836	9.37 ug/L #	100
57) chlorobenzene	10.323	112	184319	9.71 ug/L	96
58) 1-chlorohexane	10.371	55	66277	9.37 ug/L	90
59) 1,1,1,2-tetrachloroethane	10.457	131	57044	9.17 ug/L	96
60) ethylbenzene	10.506	91	305005	9.47 ug/L	98
61) m+p-xylene	10.670	106	233912	18.90 ug/L	95
62) o-xylene	11.170	106	105158	9.86 ug/L	95
63) styrene	11.195	104	176585	9.78 ug/L	97
64) bromoform	11.396	173	32454	9.82 ug/L	97
67) isopropylbenzene	11.664	105	219787	9.57 ug/L	98
68) bromobenzene	11.987	77	113121	10.42 ug/L	88
69) 1,1,2,2-tetrachloroethane	12.072	83	68327	10.64 ug/L #	100
70) 1,2,3-trichloropropane	12.091	110	21788	10.33 ug/L #	79
71) 1,4-dichloro-2-butene	12.146	53	16765	9.85 ug/L #	71
72) n-propylbenzene	12.188	120	65909	9.19 ug/L	98
73) 2-chlorotoluene	12.255	126	67239	10.40 ug/L #	89
74) 1,3,5-trimethylbenzene	12.426	105	213926	9.68 ug/L	98
75) 4-chlorotoluene	12.402	91	218329	9.95 ug/L	99
76) tert-butylbenzene	12.822	119	152776	8.82 ug/L	98
77) 1,2,4-trimethylbenzene	12.889	105	190911	9.01 ug/L	98
78) sec-butylbenzene	13.103	105	199630	8.34 ug/L	98
79) 1,3-dichlorobenzene	13.200	146	122977	9.88 ug/L	99
80) 4-isopropyltoluene	13.304	119	164578	8.23 ug/L	97
81) 1,4-dichlorobenzene	13.316	146	126408	9.52 ug/L	96
82) 1,2-dichlorobenzene	13.767	146	107210	9.52 ug/L	99
83) n-butylbenzene	13.816	91	124237	8.79 ug/L	97
84) hexachloroethane	14.078	201	17631	10.10 ug/L #	70
85) 1,2-dibromo-3-chloropr...	14.749	157	8421	9.75 ug/L	97
86) 1,2,4-trichlorobenzene	15.779	180	41378	8.34 ug/L	99
87) hexachlorobutadiene	16.023	225	19754	9.06 ug/L	99
88) naphthalene	16.066	128	81932	9.20 ug/L	97
89) 1,2,3-trichlorobenzene	16.370	180	38151	8.99 ug/L	99
90) 2-methylnaphthalene	17.480	142	22154	7.64 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 20P0723.D
Acq On : 23 Jul 2012 15:31
Operator : LEW
Sample : 20P0723
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 24 07:56:39 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration



01080

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 20P0723.D
Acq On : 23 Jul 2012 15:31
Operator : LEW
Sample : 20P0723
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 24 07:56:39 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.872	96	918243	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.286	117	692471	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.285	152	362052	40.00	ug/L	# 0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	4.653	111	262471	40.52	ug/L	-0.01
Spiked Amount 40.000			Recovery	=	101.30%	
37) #1,2-Dichloroethane-d4	5.257	67	160781	39.54	ug/L	0.00
Spiked Amount 40.000			Recovery	=	98.85%	
47) #Toluene-d8	8.341	98	918149	41.80	ug/L	0.00
Spiked Amount 40.000			Recovery	=	104.50%	
65) #4-Bromofluorobenzene	11.835	95	355179	39.75	ug/L	0.00
Spiked Amount 40.000			Recovery	=	99.38%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.001	85	190455	20.34	ug/L	100
3) chloromethane	1.135	50	177153	21.74	ug/L	99
4) vinyl chloride	1.178	62	182893	20.28	ug/L	99
5) bromomethane	1.385	94	81544	24.04	ug/L	99
6) chloroethane	1.446	64	98089	19.89	ug/L	99
7) dichlorofluoromethane	1.580	67	272132	20.47	ug/L	100
8) trichlorofluoromethane	1.617	101	267239	21.44	ug/L	100
9) ethyl ether	1.824	74	78673	20.60	ug/L	95
10) acrolein	1.910	56	17324	19.71	ug/L #	99
11) 1,1,2-trichloro-1,2,2-...	1.995	101	151668	20.60	ug/L	98
12) 1,1-dichloroethene	1.989	96	121372	20.14	ug/L	92
13) acetone	2.038	43	44481	12.87	ug/L #	88
14) iodomethane	2.105	142	118939	13.43	ug/L	96
15) carbon disulfide	2.154	76	269509	15.91	ug/L	100
16) methyl acetate	2.312	43	97510	19.60	ug/L	96
17) methylene chloride	2.391	49	185474	20.89	ug/L	93
18) acrylonitrile	2.629	53	49962	20.71	ug/L	96
19) trans-1,2-dichloroethene	2.647	96	143972	20.93	ug/L	100
20) methyl (tert) butyl ether	2.666	73	332665	20.74	ug/L	92
21) 1,1-dichloroethane	3.098	63	267028	20.44	ug/L	99
22) vinyl acetate	3.190	43	179821	20.91	ug/L	95
23) 2,2-dichloropropane	3.842	77	145398	19.26	ug/L	92
24) cis-1,2-dichloroethene	3.854	96	157278	20.10	ug/L	98
25) 2-butanone (MEK)	3.915	43	52893	18.52	ug/L	94
26) bromochloromethane	4.208	49	124736	20.17	ug/L #	76
27) tetrahydrofuran	4.299	71	12030	19.91	ug/L #	72
28) chloroform	4.379	83	271929	20.40	ug/L	99
30) 1,1,1-trichloroethane	4.641	97	227614	20.60	ug/L #	93
31) cyclohexane	4.714	56	269537	21.11	ug/L	87
32) carbon tetrachloride	4.933	117	201429	21.93	ug/L	99
33) 1,1-dichloropropene	4.952	75	208465	20.76	ug/L	100
34) benzene	5.336	78	581857	20.54	ug/L	97
35) 1,2-dichloroethane	5.397	62	220203	20.73	ug/L	97
36) heptane	5.866	57	34347	No Calib		
38) trichloroethene	6.488	130	158292	20.04	ug/L	96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 20P0723.D
Acq On : 23 Jul 2012 15:31
Operator : LEW
Sample : 20P0723
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 24 07:56:39 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration

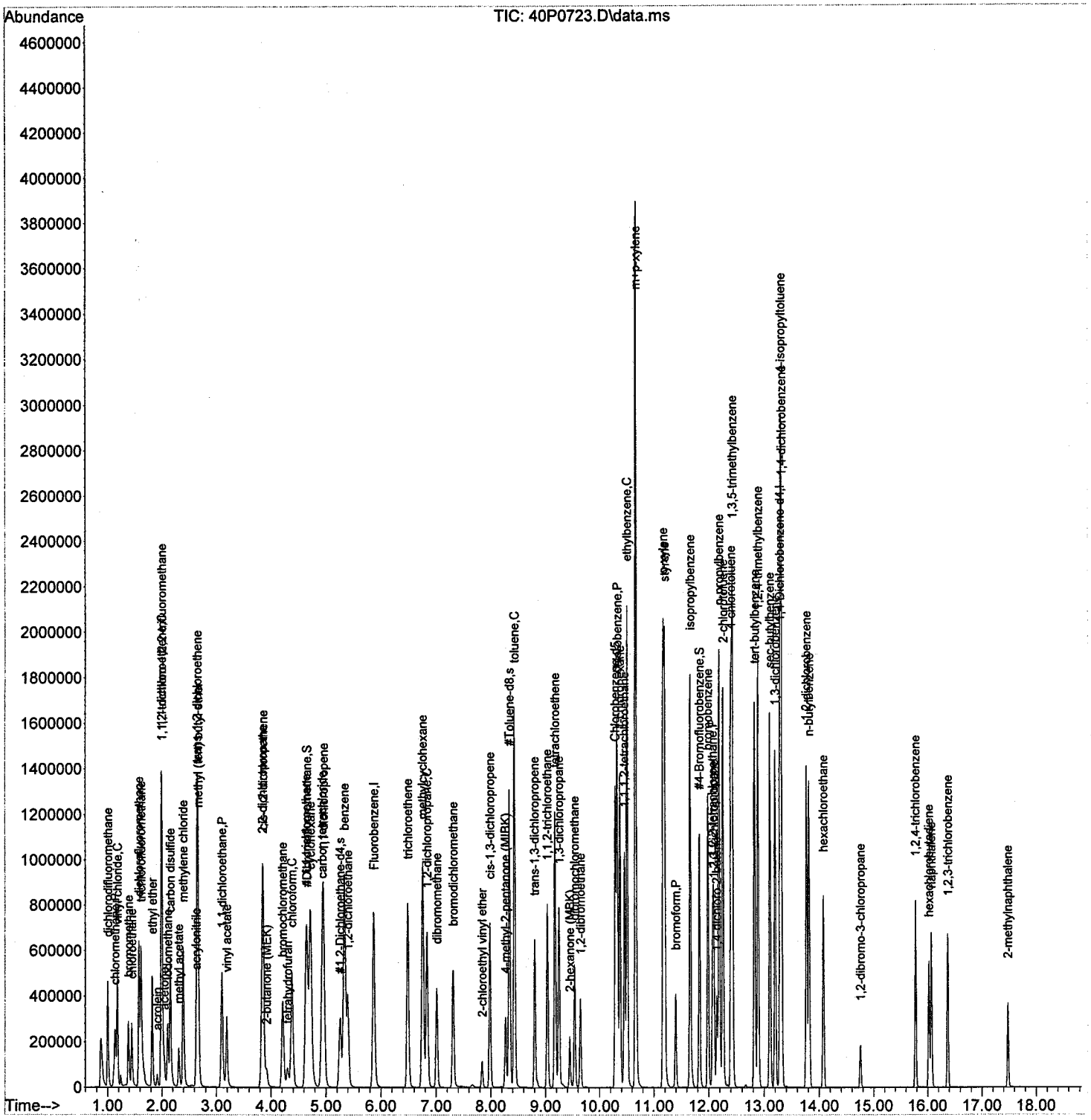
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	6.756	83	227098	20.12 ug/L	94
40) 1,2-dichloropropane	6.836	63	137971	20.59 ug/L	95
41) dibromomethane	7.012	93	89218	21.18 ug/L #	87
42) 1,4-dioxane	7.006	88	150	No Calib #	
43) bromodichloromethane	7.311	83	180733	20.58 ug/L	100
44) 2-chloroethyl vinyl ether	7.841	63	20982	13.91 ug/L	93
45) cis-1,3-dichloropropene	7.988	75	188611	18.10 ug/L	95
46) 4-methyl-2-pentanone (...	8.274	43	101160	19.57 ug/L	90
48) toluene	8.433	91	600140	20.78 ug/L	99
49) trans-1,3-dichloropropene	8.805	75	148028	19.28 ug/L	98
50) 1,1,2-trichloroethane	9.036	83	100232	21.01 ug/L	93
52) tetrachloroethene	9.177	166	182277	20.40 ug/L	95
53) 1,3-dichloropropane	9.250	76	215544	20.06 ug/L	100
54) 2-hexanone (MBK)	9.445	43	69416	18.79 ug/L	92
55) dibromochloromethane	9.536	129	125559	19.59 ug/L	99
56) 1,2-dibromoethane	9.646	109	111306	19.90 ug/L #	100
57) chlorobenzene	10.323	112	394513	19.75 ug/L	97
58) 1-chlorohexane	10.371	55	145776	19.60 ug/L	94
59) 1,1,1,2-tetrachloroethane	10.457	131	130235	19.90 ug/L	96
60) ethylbenzene	10.506	91	682429	20.15 ug/L	100
61) m+p-xylene	10.670	106	526032	40.41 ug/L	95
62) o-xylene	11.170	106	242499	19.11 ug/L	95
63) styrene	11.194	104	410399	19.07 ug/L	96
64) bromoform	11.396	173	76681	18.07 ug/L	98
67) isopropylbenzene	11.664	105	524768	20.68 ug/L	98
68) bromobenzene	11.987	77	251147	20.92 ug/L	88
69) 1,1,2,2-tetrachloroethane	12.072	83	145925	20.56 ug/L #	99
70) 1,2,3-trichloropropane	12.097	110	48468	20.79 ug/L #	84
71) 1,4-dichloro-2-butene	12.145	53	40441	18.91 ug/L #	79
72) n-propylbenzene	12.188	120	154199	19.45 ug/L	96
73) 2-chlorotoluene	12.261	126	151626	21.21 ug/L	95
74) 1,3,5-trimethylbenzene	12.426	105	502530	20.57 ug/L	98
75) 4-chlorotoluene	12.402	91	504932	20.82 ug/L	99
76) tert-butylbenzene	12.822	119	360173	18.81 ug/L	99
77) 1,2,4-trimethylbenzene	12.889	105	452683	19.33 ug/L	97
78) sec-butylbenzene	13.103	105	472602	17.86 ug/L	99
79) 1,3-dichlorobenzene	13.200	146	276230	20.07 ug/L	99
80) 4-isopropyltoluene	13.304	119	386769	17.49 ug/L	98
81) 1,4-dichlorobenzene	13.316	146	284918	19.42 ug/L	97
82) 1,2-dichlorobenzene	13.767	146	248604	19.97 ug/L	99
83) n-butylbenzene	13.816	91	299363	16.51 ug/L	98
84) hexachloroethane	14.078	201	42543	17.02 ug/L #	76
85) 1,2-dibromo-3-chloropr...	14.755	157	20102	18.51 ug/L	96
86) 1,2,4-trichlorobenzene	15.779	180	98743	18.01 ug/L	99
87) hexachlorobutadiene	16.023	225	44310	18.40 ug/L	99
88) naphthalene	16.072	128	209432	17.78 ug/L	97
89) 1,2,3-trichlorobenzene	16.370	180	88738	18.92 ug/L	99
90) 2-methylnaphthalene	17.480	142	62973	17.26 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 40P0723.D
Acq On : 23 Jul 2012 15:59
Operator : LEW
Sample : 40P0723
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 24 07:56:50 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration



01083

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 40P0723.D
Acq On : 23 Jul 2012 15:59
Operator : LEW
Sample : 40P0723
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 24 07:56:50 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.872	96	969890	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.286	117	724510	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.285	152	406555	40.00	ug/L	# 0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	4.653	111	277388	40.54	ug/L	-0.01
Spiked Amount 40.000			Recovery = 101.35%			
37) #1,2-Dichloroethane-d4	5.257	67	168726	39.29	ug/L	0.00
Spiked Amount 40.000			Recovery = 98.22%			
47) #Toluene-d8	8.341	98	955511	41.19	ug/L	0.00
Spiked Amount 40.000			Recovery = 102.97%			
65) #4-Bromofluorobenzene	11.835	95	381814	40.84	ug/L	0.00
Spiked Amount 40.000			Recovery = 102.10%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.001	85	391854	39.61	ug/L	100
3) chloromethane	1.135	50	367044	42.65	ug/L	99
4) vinyl chloride	1.178	62	380328	39.93	ug/L	100
5) bromomethane	1.385	94	170135	47.49	ug/L	99
6) chloroethane	1.446	64	204883	43.19	ug/L	100
7) dichlorofluoromethane	1.580	67	566067	40.31	ug/L	100
8) trichlorofluoromethane	1.617	101	554364	42.12	ug/L	100
9) ethyl ether	1.824	74	166884	41.38	ug/L	96
10) acrolein	1.910	56	36630	39.47	ug/L	99
11) 1,1,2-trichloro-1,2,2-...	1.995	101	312558	40.19	ug/L	97
12) 1,1-dichloroethene	1.989	96	251304	39.49	ug/L	92
13) acetone	2.038	43	92620	33.22	ug/L #	90
14) iodomethane	2.105	142	345994	31.98	ug/L	96
15) carbon disulfide	2.153	76	712867	39.84	ug/L	100
16) methyl acetate	2.312	43	199575	39.60	ug/L	96
17) methylene chloride	2.391	49	377893	41.35	ug/L	92
18) acrylonitrile	2.629	53	104097	40.84	ug/L	95
19) trans-1,2-dichloroethene	2.647	96	305977	42.11	ug/L	99
20) methyl (tert) butyl ether	2.666	73	716436	42.29	ug/L	94
21) 1,1-dichloroethane	3.098	63	573158	41.54	ug/L	99
22) vinyl acetate	3.190	43	492823	46.20	ug/L	96
23) 2,2-dichloropropane	3.842	77	337054	39.26	ug/L	93
24) cis-1,2-dichloroethene	3.854	96	345082	41.75	ug/L	98
25) 2-butanone (MEK)	3.915	43	125114	41.48	ug/L	92
26) bromochloromethane	4.208	49	263208	40.30	ug/L #	75
27) tetrahydrofuran	4.299	71	27773	39.27	ug/L #	79
28) chloroform	4.379	83	582921	41.41	ug/L	100
30) 1,1,1-trichloroethane	4.641	97	502866	43.09	ug/L #	95
31) cyclohexane	4.720	56	592772	43.96	ug/L	88
32) carbon tetrachloride	4.933	117	454476	46.85	ug/L	100
33) 1,1-dichloropropene	4.958	75	462856	43.64	ug/L	100
34) benzene	5.336	78	1261262	42.16	ug/L	96
35) 1,2-dichloroethane	5.397	62	462623	41.22	ug/L	97
36) heptane	5.872	57	36432	No Calib		
38) trichloroethene	6.488	130	344234	41.26	ug/L	97

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 40P0723.D
Acq On : 23 Jul 2012 15:59
Operator : LEW
Sample : 40P0723
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 24 07:56:50 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration

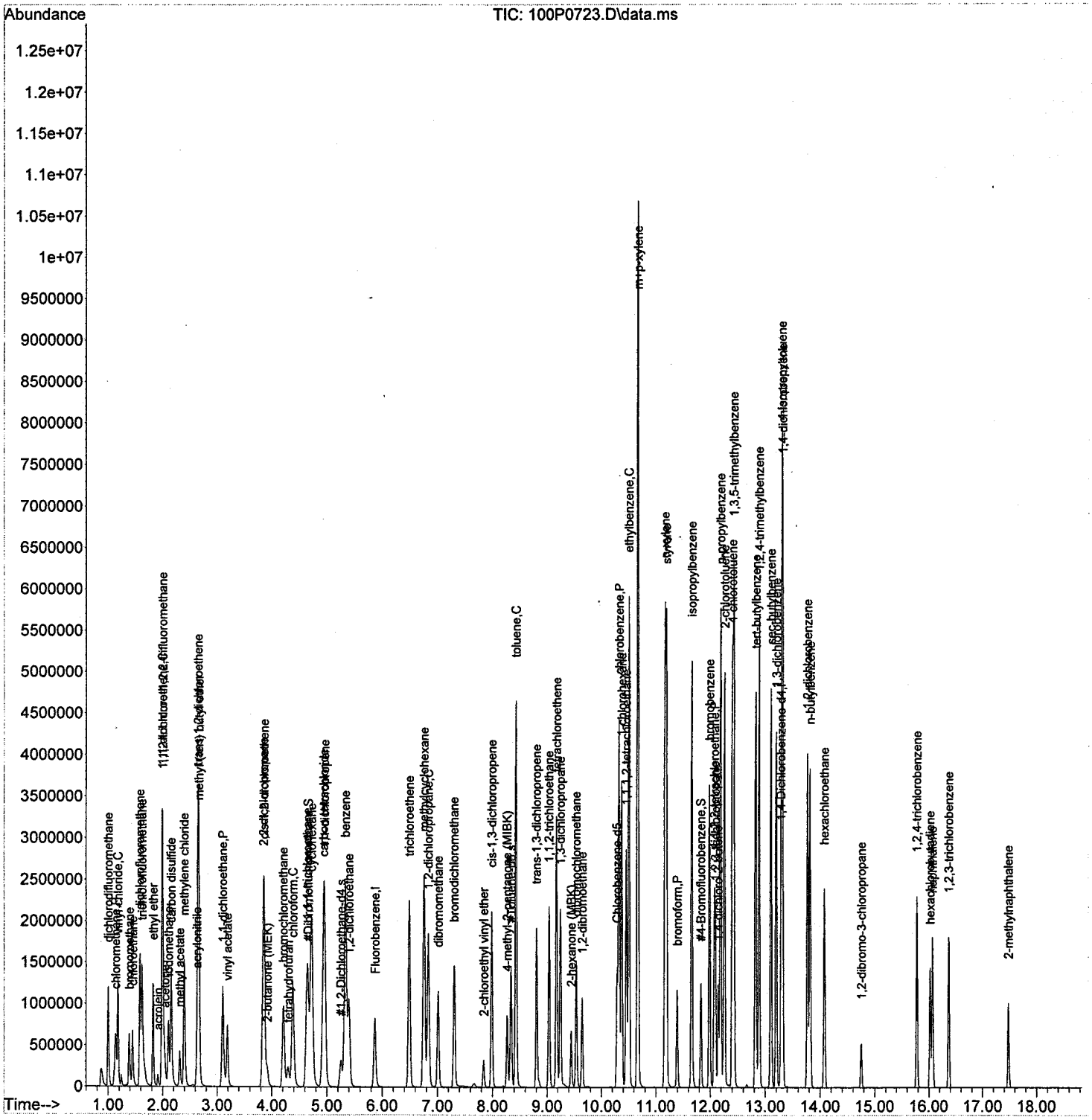
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39)	methylcyclohexane	6.756	83	506681	40.45 ug/L	94
40)	1,2-dichloropropane	6.835	63	301227	42.57 ug/L	95
41)	dibromomethane	7.012	93	187848	42.22 ug/L #	87
42)	1,4-dioxane	7.006	88	568	No Calib #	
43)	bromodichloromethane	7.311	83	397275	42.83 ug/L	99
44)	2-chloroethyl vinyl ether	7.841	63	51548	30.72 ug/L	93
45)	cis-1,3-dichloropropene	7.988	75	431398	38.07 ug/L	95
46)	4-methyl-2-pentanone (...	8.268	43	239251	38.52 ug/L	92
48)	toluene	8.433	91	1306228	42.82 ug/L	100
49)	trans-1,3-dichloropropene	8.805	75	347151	37.55 ug/L	98
50)	1,1,2-trichloroethane	9.036	83	214628	42.60 ug/L	93
52)	tetrachloroethene	9.176	166	395259	42.27 ug/L	96
53)	1,3-dichloropropane	9.250	76	467230	41.56 ug/L	100
54)	2-hexanone (MBK)	9.445	43	166141	37.51 ug/L	95
55)	dibromochloromethane	9.536	129	282665	42.15 ug/L	99
56)	1,2-dibromoethane	9.646	109	242672	41.48 ug/L #	100
57)	chlorobenzene	10.323	112	859915	41.15 ug/L	99
58)	1-chlorohexane	10.371	55	329681	42.36 ug/L	95
59)	1,1,1,2-tetrachloroethane	10.457	131	291405	42.56 ug/L	96
60)	ethylbenzene	10.506	91	1523097	42.99 ug/L	99
61)	m+p-xylene	10.670	106	1194380	87.70 ug/L	95
62)	o-xylene	11.170	106	550164	38.99 ug/L	96
63)	styrene	11.194	104	930902	38.88 ug/L	97
64)	bromoform	11.396	173	180526	36.66 ug/L	99
67)	isopropylbenzene	11.664	105	1243214	43.63 ug/L	98
68)	bromobenzene	11.987	77	563393	41.79 ug/L	88
69)	1,1,2,2-tetrachloroethane	12.072	83	326667	40.99 ug/L #	99
70)	1,2,3-trichloropropane	12.097	110	108504	41.45 ug/L	88
71)	1,4-dichloro-2-butene	12.145	53	97199	37.96 ug/L	87
72)	n-propylbenzene	12.188	120	368808	41.42 ug/L	96
73)	2-chlorotoluene	12.261	126	346285	43.14 ug/L	99
74)	1,3,5-trimethylbenzene	12.426	105	1178371	42.95 ug/L	98
75)	4-chlorotoluene	12.401	91	1162031	42.66 ug/L	99
76)	tert-butylbenzene	12.828	119	864075	40.20 ug/L	99
77)	1,2,4-trimethylbenzene	12.889	105	1095180	41.65 ug/L	97
78)	sec-butylbenzene	13.103	105	1164283	39.19 ug/L	98
79)	1,3-dichlorobenzene	13.200	146	629627	40.74 ug/L	98
80)	4-isopropyltoluene	13.304	119	954705	38.45 ug/L	98
81)	1,4-dichlorobenzene	13.316	146	656776	39.86 ug/L	98
82)	1,2-dichlorobenzene	13.767	146	571399	40.87 ug/L	98
83)	n-butylbenzene	13.816	91	752050	34.17 ug/L	98
84)	hexachloroethane	14.078	201	112163	34.21 ug/L #	84
85)	1,2-dibromo-3-chloropr...	14.755	157	48547	37.29 ug/L	96
86)	1,2,4-trichlorobenzene	15.779	180	243412	39.53 ug/L	100
87)	hexachlorobutadiene	16.023	225	102125	37.76 ug/L	99
88)	naphthalene	16.065	128	521405	36.17 ug/L	97
89)	1,2,3-trichlorobenzene	16.376	180	210496	39.96 ug/L	100
90)	2-methylnaphthalene	17.480	142	167072	38.71 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 100P0723.D
Acq On : 23 Jul 2012 16:27
Operator : LEW
Sample : 100P0723
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 24 07:57:02 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration



01086

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 100P0723.D
Acq On : 23 Jul 2012 16:27
Operator : LEW
Sample : 100P0723
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 24 07:57:02 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.872	96	1036272	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.286	117	786323	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.286	152	450796	40.00	ug/L	# 0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	4.659	111	301448	41.24	ug/L	0.00
Spiked Amount 40.000			Recovery	=	103.10%	
37) #1,2-Dichloroethane-d4	5.257	67	180537	39.34	ug/L	0.00
Spiked Amount 40.000			Recovery	=	98.35%	
47) #Toluene-d8	8.341	98	1024098	41.32	ug/L	0.00
Spiked Amount 40.000			Recovery	=	103.30%	
65) #4-Bromofluorobenzene	11.829	95	415764	40.98	ug/L	0.00
Spiked Amount 40.000			Recovery	=	102.45%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.001	85	1024634	96.95	ug/L	100
3) chloromethane	1.136	50	916770	99.71	ug/L	99
4) vinyl chloride	1.178	62	975805	95.88	ug/L	100
5) bromomethane	1.386	94	404566	105.70	ug/L	100
6) chloroethane	1.446	64	505563	104.93	ug/L	100
7) dichlorofluoromethane	1.581	67	1451018	96.70	ug/L	100
8) trichlorofluoromethane	1.617	101	1421581	101.08	ug/L	100
9) ethyl ether	1.824	74	436476	101.29	ug/L	96
10) acrolein	1.910	56	98153	98.98	ug/L	99
11) 1,1,2-trichloro-1,2,2-...	1.995	101	805932	97.00	ug/L	97
12) 1,1-dichloroethene	1.989	96	651299	95.79	ug/L	92
13) acetone	2.038	43	234593	89.82	ug/L #	90
14) iodomethane	2.105	142	994997	81.24	ug/L	96
15) carbon disulfide	2.154	76	1854492	96.99	ug/L	100
16) methyl acetate	2.312	43	501953	95.53	ug/L	97
17) methylene chloride	2.391	49	955657	99.42	ug/L	92
18) acrylonitrile	2.629	53	307428	112.90	ug/L	97
19) trans-1,2-dichloroethene	2.647	96	846661	109.05	ug/L	99
20) methyl (tert) butyl ether	2.666	73	2000364	110.50	ug/L	93
21) 1,1-dichloroethane	3.099	63	1536268	104.20	ug/L	98
22) vinyl acetate	3.190	43	1166773	83.21	ug/L	96
23) 2,2-dichloropropane	3.842	77	956198	100.07	ug/L	93
24) cis-1,2-dichloroethene	3.855	96	920765	104.27	ug/L	98
25) 2-butanone (MEK)	3.915	43	328124	101.81	ug/L	95
26) bromochloromethane	4.208	49	694726	99.56	ug/L #	76
27) tetrahydrofuran	4.300	71	79015	98.63	ug/L #	81
28) chloroform	4.385	83	1551042	103.11	ug/L	100
30) 1,1,1-trichloroethane	4.641	97	1379252	110.63	ug/L	96
31) cyclohexane	4.720	56	1610508	111.78	ug/L	87
32) carbon tetrachloride	4.940	117	1267000	122.25	ug/L	100
33) 1,1-dichloropropene	4.958	75	1256436	110.87	ug/L	100
34) benzene	5.336	78	3363746	105.23	ug/L	96
35) 1,2-dichloroethane	5.397	62	1224965	102.16	ug/L	96
36) heptane	5.872	57	38304	No Calib		
38) trichloroethene	6.488	130	963247	108.06	ug/L	97

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 100P0723.D
Acq On : 23 Jul 2012 16:27
Operator : LEW
Sample : 100P0723
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 24 07:57:02 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration

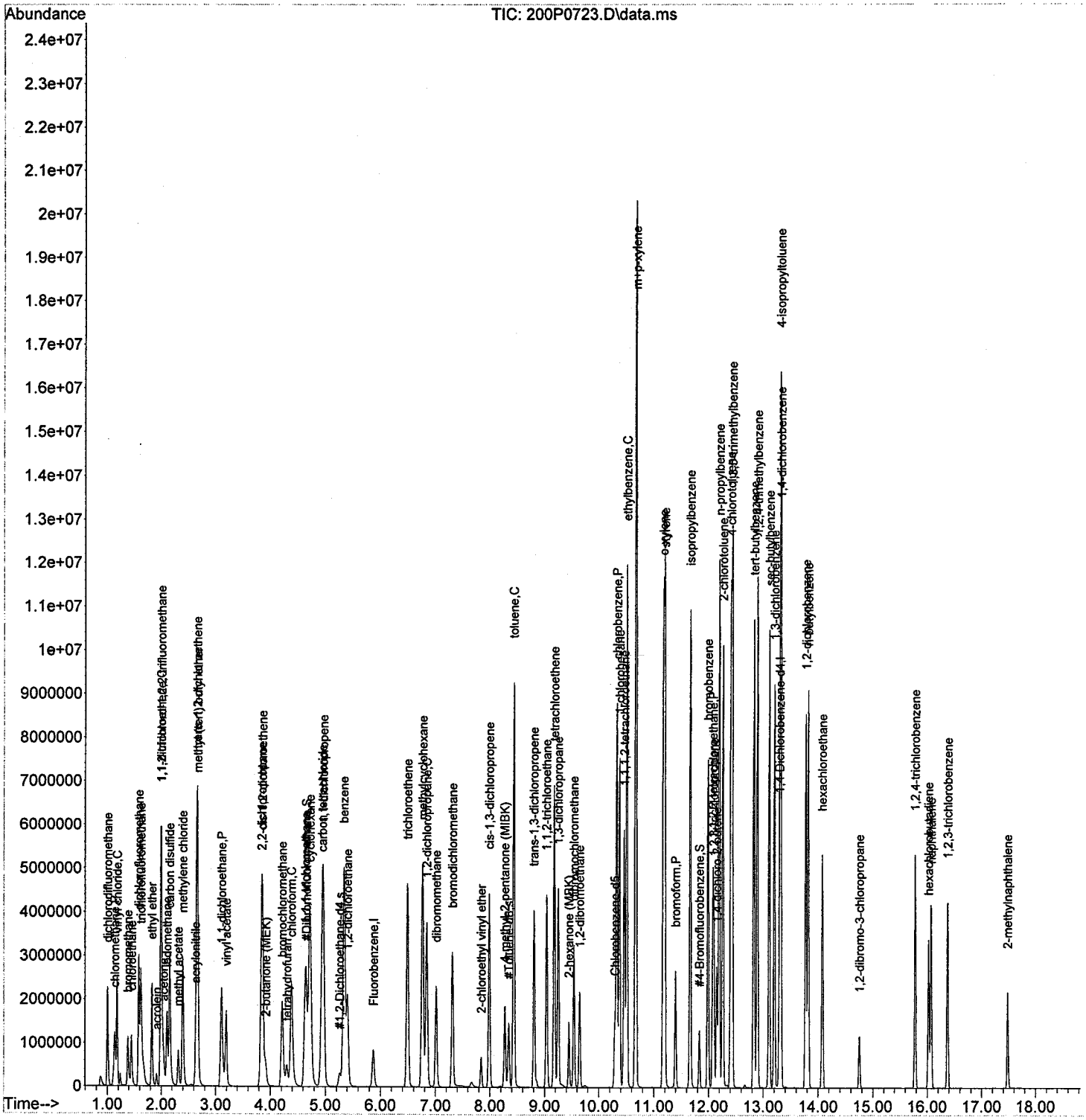
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	6.756	83	1371087	99.61 ug/L	95
40) 1,2-dichloropropane	6.836	63	813492	107.59 ug/L	95
41) dibromomethane	7.012	93	502298	105.66 ug/L #	87
42) 1,4-dioxane	7.012	88	2304	No Calib #	
43) bromodichloromethane	7.305	83	1105197	111.51 ug/L	99
44) 2-chloroethyl vinyl ether	7.842	63	146839	79.85 ug/L	94
45) cis-1,3-dichloropropene	7.988	75	1252754	101.83 ug/L	94
46) 4-methyl-2-pentanone (...	8.268	43	662327	93.01 ug/L	94
48) toluene	8.433	91	3525445	108.17 ug/L	100
49) trans-1,3-dichloropropene	8.805	75	1038199	97.35 ug/L	99
50) 1,1,2-trichloroethane	9.036	83	581478	108.02 ug/L	94
52) tetrachloroethene	9.177	166	1052004	103.67 ug/L	96
53) 1,3-dichloropropane	9.250	76	1268660	103.99 ug/L	100
54) 2-hexanone (MBK)	9.445	43	475451	91.96 ug/L	96
55) dibromochloromethane	9.536	129	815487	112.04 ug/L	99
56) 1,2-dibromoethane	9.646	109	670742	105.63 ug/L #	100
57) chlorobenzene	10.323	112	2318492	102.24 ug/L	99
58) 1-chlorohexane	10.372	55	888097	105.15 ug/L	98
59) 1,1,1,2-tetrachloroethane	10.457	131	822222	110.64 ug/L	96
60) ethylbenzene	10.506	91	4165658	108.33 ug/L	99
61) m+p-xylene	10.670	106	3235519	218.89 ug/L	94
62) o-xylene	11.170	106	1544497	97.51 ug/L	94
63) styrene	11.195	104	2610221	97.10 ug/L	95
64) bromoform	11.396	173	532791	94.17 ug/L	99
67) isopropylbenzene	11.664	105	3534357	111.86 ug/L	99
68) bromobenzene	11.987	77	1542846	103.22 ug/L	87
69) 1,1,2,2-tetrachloroethane	12.079	83	863646	97.74 ug/L #	100
70) 1,2,3-trichloropropane	12.097	110	292261	100.69 ug/L	89
71) 1,4-dichloro-2-butene	12.146	53	284506	96.60 ug/L	90
72) n-propylbenzene	12.188	120	1054803	106.85 ug/L	96
73) 2-chlorotoluene	12.261	126	950937	106.85 ug/L	100
74) 1,3,5-trimethylbenzene	12.426	105	3302531	108.55 ug/L	98
75) 4-chlorotoluene	12.402	91	3232871	107.04 ug/L	99
76) tert-butylbenzene	12.828	119	2480988	104.09 ug/L	99
77) 1,2,4-trimethylbenzene	12.889	105	3150993	108.08 ug/L	98
78) sec-butylbenzene	13.103	105	3406503	103.42 ug/L	98
79) 1,3-dichlorobenzene	13.200	146	1753971	102.35 ug/L	99
80) 4-isopropyltoluene	13.304	119	2787308	101.24 ug/L	99
81) 1,4-dichlorobenzene	13.316	146	1832135	100.28 ug/L	99
82) 1,2-dichlorobenzene	13.767	146	1603066	103.40 ug/L	99
83) n-butylbenzene	13.816	91	2175038	85.53 ug/L	99
84) hexachloroethane	14.078	201	344365	87.19 ug/L #	89
85) 1,2-dibromo-3-chloropr...	14.755	157	142947	95.41 ug/L	97
86) 1,2,4-trichlorobenzene	15.779	180	687613	100.72 ug/L	99
87) hexachlorobutadiene	16.023	225	271560	90.55 ug/L	99
88) naphthalene	16.066	128	1420326	84.97 ug/L	97
89) 1,2,3-trichlorobenzene	16.370	180	568773	97.38 ug/L	99
90) 2-methylnaphthalene	17.480	142	467646	95.39 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 200P0723.D
Acq On : 23 Jul 2012 17:23
Operator : LEW
Sample : 200P0723
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 24 07:57:14 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration



01089

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 200P0723.D
Acq On : 23 Jul 2012 17:23
Operator : LEW
Sample : 200P0723
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 24 07:57:14 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.872	96	1062880	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.292	117	814419	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.292	152	473146	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	4.659	111	310104	41.36	ug/L	0.00
Spiked Amount 40.000			Recovery	=	103.40%	
37) #1,2-Dichloroethane-d4	5.257	67	183849	39.06	ug/L	0.00
Spiked Amount 40.000			Recovery	=	97.65%	
47) #Toluene-d8	8.341	98	1058834	41.65	ug/L	0.00
Spiked Amount 40.000			Recovery	=	104.13%	
65) #4-Bromofluorobenzene	11.835	95	435306	41.42	ug/L	0.00
Spiked Amount 40.000			Recovery	=	103.55%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.001	85	1954406	180.29	ug/L	100
3) chloromethane	1.136	50	1745067	185.04	ug/L	99
4) vinyl chloride	1.178	62	1877161	179.83	ug/L	99
5) bromomethane	1.379	94	765997	195.12	ug/L	100
6) chloroethane	1.446	64	922801	189.82	ug/L	99
7) dichlorofluoromethane	1.581	67	2825758	183.60	ug/L	100
8) trichlorofluoromethane	1.617	101	2755229	191.00	ug/L	100
9) ethyl ether	1.824	74	855913	193.65	ug/L	96
10) acrolein	1.910	56	197802	194.47	ug/L	100
11) 1,1,2-trichloro-1,2,2-...	1.995	101	1552674	182.20	ug/L	97
12) 1,1-dichloroethene	1.989	96	1272533	182.47	ug/L	93
13) acetone	2.038	43	469958	183.13	ug/L #	89
14) iodomethane	2.105	142	2144598	167.58	ug/L	96
15) carbon disulfide	2.154	76	4121019	210.14	ug/L	100
16) methyl acetate	2.312	43	1015275	190.06	ug/L	97
17) methylene chloride	2.391	49	1911929	195.01	ug/L	91
18) acrylonitrile	2.629	53	540051	193.36	ug/L	96
19) trans-1,2-dichloroethene	2.654	96	1626311	204.22	ug/L	100
20) methyl (tert) butyl ether	2.666	73	3989004	214.85	ug/L	94
21) 1,1-dichloroethane	3.105	63	3154729	208.63	ug/L	99
22) vinyl acetate	3.190	43	2680545	142.81	ug/L	96
23) 2,2-dichloropropane	3.842	77	1968120	198.27	ug/L	93
24) cis-1,2-dichloroethene	3.854	96	1893031	209.00	ug/L	97
25) 2-butanone (MEK)	3.915	43	693637	209.84	ug/L	95
26) bromochloromethane	4.214	49	1413061	197.42	ug/L #	77
27) tetrahydrofuran	4.300	71	165553	197.76	ug/L	84
28) chloroform	4.385	83	3198369	207.31	ug/L	100
30) 1,1,1-trichloroethane	4.641	97	2876933	224.97	ug/L	96
31) cyclohexane	4.720	56	3269788	221.27	ug/L	87
32) carbon tetrachloride	4.940	117	2623018	246.76	ug/L	100
33) 1,1-dichloropropene	4.958	75	2554287	219.76	ug/L	100
34) benzene	5.336	78	6924048	211.18	ug/L	96
35) 1,2-dichloroethane	5.403	62	2501154	203.38	ug/L	96
36) heptane	5.872	57	39441	No Calib		
38) trichloroethene	6.488	130	1999415	218.68	ug/L	98

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : 200P0723.D
Acq On : 23 Jul 2012 17:23
Operator : LEW
Sample : 200P0723
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 24 07:57:14 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB65.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 08:11:06 2012
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39)	methylcyclohexane	6.762	83	2849298	199.94 ug/L	95
40)	1,2-dichloropropane	6.836	63	1686471	217.46 ug/L	95
41)	dibromomethane	7.012	93	1021819	209.55 ug/L #	87
42)	1,4-dioxane	7.012	88	4655	No Calib #	
43)	bromodichloromethane	7.311	83	2340328	230.22 ug/L	99
44)	2-chloroethyl vinyl ether	7.842	63	312328	164.26 ug/L	94
45)	cis-1,3-dichloropropene	7.988	75	2700254	212.94 ug/L	94
46)	4-methyl-2-pentanone (...	8.268	43	1471638	196.51 ug/L	95
48)	toluene	8.433	91	7345522	219.73 ug/L	100
49)	trans-1,3-dichloropropene	8.805	75	2271600	202.79 ug/L	100
50)	1,1,2-trichloroethane	9.036	83	1214013	219.89 ug/L	94
52)	tetrachloroethene	9.177	166	2169796	206.44 ug/L	96
53)	1,3-dichloropropane	9.250	76	2643537	209.20 ug/L	100
54)	2-hexanone (MBK)	9.445	43	1046142	190.59 ug/L	97
55)	dibromochloromethane	9.542	129	1774411	235.37 ug/L	99
56)	1,2-dibromoethane	9.646	109	1412429	214.76 ug/L #	100
57)	chlorobenzene	10.329	112	4875638	207.58 ug/L	100
58)	1-chlorohexane	10.378	55	1824658	208.59 ug/L	99
59)	1,1,1,2-tetrachloroethane	10.463	131	1768071	229.72 ug/L	96
60)	ethylbenzene	10.512	91	8578612	215.39 ug/L	98
61)	m+p-xylene	10.676	106	6444284	420.93 ug/L	93
62)	o-xylene	11.170	106	3205627	193.29 ug/L	93
63)	styrene	11.201	104	5455377	193.80 ug/L	94
64)	bromoform	11.396	173	1172069	196.42 ug/L	99
67)	isopropylbenzene	11.664	105	7380292	222.54 ug/L	98
68)	bromobenzene	11.987	77	3247175	206.99 ug/L	88
69)	1,1,2,2-tetrachloroethane	12.078	83	1784169	192.37 ug/L #	100
70)	1,2,3-trichloropropane	12.097	110	603767	198.19 ug/L	90
71)	1,4-dichloro-2-butene	12.152	53	615365	196.75 ug/L	86
72)	n-propylbenzene	12.194	120	2235138	215.72 ug/L	97
73)	2-chlorotoluene	12.261	126	2002156	214.35 ug/L	96
74)	1,3,5-trimethylbenzene	12.432	105	6879071	215.43 ug/L	97
75)	4-chlorotoluene	12.408	91	6705702	211.53 ug/L	99
76)	tert-butylbenzene	12.828	119	5449424	217.82 ug/L	100
77)	1,2,4-trimethylbenzene	12.895	105	6742080	220.33 ug/L	97
78)	sec-butylbenzene	13.109	105	7495744	216.81 ug/L	98
79)	1,3-dichlorobenzene	13.200	146	3785845	210.49 ug/L	99
80)	4-isopropyltoluene	13.310	119	6014384	208.14 ug/L	99
81)	1,4-dichlorobenzene	13.322	146	3801297	198.22 ug/L	99
82)	1,2-dichlorobenzene	13.773	146	3470731	213.29 ug/L	99
83)	n-butylbenzene	13.816	91	5014920	185.21 ug/L	99
84)	hexachloroethane	14.078	201	817294	191.79 ug/L #	94
85)	1,2-dibromo-3-chloropr...	14.755	157	315110	197.98 ug/L	98
86)	1,2,4-trichlorobenzene	15.779	180	1600512	223.36 ug/L	99
87)	hexachlorobutadiene	16.023	225	630838	200.41 ug/L	100
88)	naphthalene	16.072	128	3332965	186.68 ug/L	97
89)	1,2,3-trichlorobenzene	16.376	180	1307628	213.30 ug/L	100
90)	2-methylnaphthalene	17.480	142	1003485	193.42 ug/L	99

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

INITIAL CALIBRATION DATA
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2H01006

SDG: KNM070512

Project: KNM

Calibration Date: 07/26/12 00:00

Instrument: 224

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	1	~~0.2024906~~	5	8.122432E-02	10	0.0717048	20	6.504556E-02	40	5.572087E-02	100	6.345337E-02
Benzene	1	0.9266624	5	0.8919575	10	0.9243704	20	0.9469869	40	0.9500158	100	0.980132
Bromodichloromethane	1	0.2514071	5	0.271432	10	0.2877227	20	0.2978318	40	0.3060181	100	0.3212237
Bromoform	1	0.1196141	5	0.1626562	10	0.173775	20	0.18727	40	0.2050654	100	0.2272356
Bromomethane	1	7.925289E-02	5	7.833399E-02	10	8.322016E-02	20	8.424374E-02	40	8.617438E-02	100	0.1043457
Carbon Disulfide	1	0.4255112	5	0.3285427	10	0.3684625	20	0.3972741	40	0.3543535	100	0.4249595
Carbon Tetrachloride	1	0.2794496	5	0.2997337	10	0.3082271	20	0.3302399	40	0.3440648	100	0.3651901
Chlorobenzene	1	0.8858554	5	0.8389058	10	0.851413	20	0.8707292	40	0.8663067	100	0.8829841
Chloroethane	1	0.2423464	5	0.1511822	10	0.1433003	20	0.1444674	40	0.1377976	100	0.1400178
Chloroform	1	0.379806	5	0.3904076	10	0.398071	20	0.4040874	40	0.4072311	100	0.4197967
Chloromethane	1	0.2587475	5	0.2243372	10	0.2155518	20	0.2280343	40	0.2202632	100	0.2176161
Cyclohexane	1	0.3130546	5	0.3598998	10	0.3775782	20	0.4032596	40	0.4134779	100	0.4313738
1,2-Dibromo-3-chloropropane	1	9.660912E-02	5	0.1414479	10	0.1439221	20	0.1564277	40	0.1687502	100	0.1938744
Dibromochloromethane	1	0.2176169	5	0.2455814	10	0.2525706	20	0.2708787	40	0.2868478	100	0.3083818
1,2-Dibromoethane	1	0.1909448	5	0.2236294	10	0.2295353	20	0.2437443	40	0.2470387	100	0.2581187
1,2-Dichlorobenzene	1	0.9581998	5	0.9938713	10	1.018261	20	1.062	40	1.069883	100	1.141551
1,3-Dichlorobenzene	1	1.11244	5	1.071417	10	1.091127	20	1.123382	40	1.134555	100	1.193307
1,4-Dichlorobenzene	1	1.319767	5	1.120157	10	1.115878	20	1.138374	40	1.152004	100	1.21008
Dichlorodifluoromethane	1	0.2773851	5	0.2892341	10	0.2846669	20	0.2928057	40	0.2947245	100	0.299194
1,1-Dichloroethane	1	0.3889241	5	0.3657277	10	0.3663678	20	0.3803163	40	0.3865854	100	0.4006305
1,2-Dichloroethane	1	0.2862165	5	0.3249681	10	0.3254915	20	0.3260501	40	0.3256993	100	0.3350071
1,1-Dichloroethene	1	0.181215	5	0.1663182	10	0.1668201	20	0.1761986	40	0.1746011	100	0.1819417
cis-1,2-Dichloroethene	1	0.2285259	5	0.2250097	10	0.2340995	20	0.2437335	40	0.2465689	100	0.252636
trans-1,2-Dichloroethene	1	0.2521526	5	0.2138612	10	0.2060103	20	0.2164354	40	0.2202103	100	0.2270087
1,2-Dichloropropane	1	0.1925123	5	0.2107939	10	0.2153504	20	0.2197413	40	0.2227957	100	0.2280118
cis-1,3-Dichloropropene	1	0.2366117	5	0.2606965	10	0.282129	20	0.3039403	40	0.3222637	100	0.3480157
trans-1,3-Dichloropropene	1	0.2168845	5	0.2413961	10	0.2523595	20	0.2804516	40	0.3009016	100	0.3369627
Ethylbenzene	1	1.389753	5	1.372523	10	1.448936	20	1.501267	40	1.532393	100	1.578239
2-Hexanone	1	~~9.793445E-02~~	5	0.1303754	10	0.1501487	20	0.1614695	40	0.1531477	100	0.2075492
Isopropylbenzene	1	1.944856	5	1.98526	10	2.133798	20	2.2394	40	2.262841	100	2.446947
Methyl Acetate	1	~~0.3338714~~	5	0.1722876	10	0.1580671	20	0.1454715	40	0.1371384	100	0.1382666

INITIAL CALIBRATION DATA
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2H01006

SDG: KNM070512

Project: KNM

Calibration Date: 07/26/12 00:00

Instrument: 224

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl tert-Butyl Ether	1	0.4693239	5	0.533898	10	0.5576804	20	0.5723679	40	0.5800523	100	0.6135801
Methylcyclohexane	1	0.291435	5	0.3536827	10	0.3783263	20	0.406669	40	0.4160438	100	0.4344022
Methylene Chloride	1	1.070029	5	0.405107	10	0.2850985	20	0.2607025	40	0.2846505	100	0.277058
2-Butanone (MEK)	1	9.433502E-02	5	9.328115E-02	10	9.866604E-02	20	9.075501E-02	40	8.112621E-02	100	0.1056724
4-Methyl-2-pentanone (MIBK)	1	~~0.1516815~~	5	0.171273	10	0.1843895	20	0.191537	40	0.1770234	100	0.2328343
Styrene	1	0.7464766	5	0.8708629	10	0.9083209	20	0.9543011	40	0.9821918	100	0.9982237
1,1,2,2-Tetrachloroethane	1	0.5048065	5	0.545013	10	0.5576394	20	0.5542178	40	0.5536446	100	0.5755671
Tetrachloroethene	1	0.4638208	5	0.3960233	10	0.3959984	20	0.4179263	40	0.4237396	100	0.4317478
Toluene	1	1.109999	5	1.053804	10	1.053151	20	1.095815	40	1.093694	100	1.127982
1,2,4-Trichlorobenzene	1	0.4806543	5	0.4911866	10	0.4998119	20	0.5474885	40	0.5814529	100	0.6479671
1,1,1-Trichloroethane	1	0.3466024	5	0.330678	10	0.3349236	20	0.3572975	40	0.3617682	100	0.3847584
1,1,2-Trichloroethane	1	0.1345923	5	0.1648435	10	0.1575261	20	0.1638893	40	0.16109	100	0.1698382
Trichloroethene	1	0.3068612	5	0.2622773	10	0.2677133	20	0.2785525	40	0.2848512	100	0.2937004
Trichlorofluoromethane	1	0.3709746	5	0.3642059	10	0.3694581	20	0.3865926	40	0.377742	100	0.3928343
1,1,2-Trichloro-1,2,2-trifluoro	1	0.1671651	5	0.1872701	10	0.1871864	20	0.1979112	40	0.1907603	100	0.1963088
Vinyl Chloride	1	0.2832345	5	0.2347778	10	0.2333916	20	0.2472296	40	0.2454693	100	0.2536096
Xylene (Total)	3	0.5234341	15	0.5274447	30	0.5532895	60	0.5777267	120	0.5847842	300	0.5948676
Dibromofluoromethane	40	0.2446589	40	0.2430123	40	0.2455415	40	0.2430552	40	0.2430622	40	0.2428635
1,2-Dichloroethane-d4	40	0.2932242	40	0.2960338	40	0.2936761	40	0.2926547	40	0.2897836	40	0.2886721
Toluene-d8	40	1.010803	40	1.025159	40	1.024842	40	1.028048	40	1.031028	40	1.02896
4-Bromofluorobenzene	40	0.4969729	40	0.5066648	40	0.5043045	40	0.5008748	40	0.5101438	40	0.5056315

INITIAL CALIBRATION DATA (Continued)
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2H01006

SDG: KNM070512
Project: KNM
Calibration Date: 07/26/12 00:00
Instrument: 224

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	200	6.004579E-02										
Benzene	200	0.9756955										
Bromodichloromethane	200	0.3228678										
Bromoform	200	0.2425718										
Bromomethane	200	0.1015834										
Carbon Disulfide	200	0.4424664										
Carbon Tetrachloride	200	0.3692876										
Chlorobenzene	200	0.8795874										
Chloroethane	200	0.1326873										
Chloroform	200	0.4188814										
Chloromethane	200	0.2113896										
Cyclohexane	200	0.4303149										
1,2-Dibromo-3-chloropropane	200	0.2060309										
Dibromochloromethane	200	0.317964										
1,2-Dibromoethane	200	0.2601982										
1,2-Dichlorobenzene	200	1.166537										
1,3-Dichlorobenzene	200	1.221251										
1,4-Dichlorobenzene	200	1.222826										
Dichlorodifluoromethane	200	0.2929651										
1,1-Dichloroethane	200	0.3999479										
1,2-Dichloroethane	200	0.3293865										
1,1-Dichloroethene	200	0.1778354										
cis-1,2-Dichloroethene	200	0.2508956										
trans-1,2-Dichloroethene	200	0.2248358										
1,2-Dichloropropane	200	0.2270057										
cis-1,3-Dichloropropene	200	0.354536										
trans-1,3-Dichloropropene	200	0.3467174										
Ethylbenzene	200	1.598337										
2-Hexanone	200	0.1973115										
Isopropylbenzene	200	2.516184										
Methyl Acetate	200	0.1390408										

INITIAL CALIBRATION DATA (Continued)
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2H01006

SDG: KNM070512
Project: KNM
Calibration Date: 07/26/12 00:00
Instrument: 224

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl tert-Butyl Ether	200	0.6135303										
Methylcyclohexane	200	0.4352533										
Methylene Chloride	200	0.2677373										
2-Butanone (MEK)	200	0.1000484										
4-Methyl-2-pentanone (MIBK)	200	0.2252926										
Styrene	200	0.9930918										
1,1,2,2-Tetrachloroethane	200	0.5755809										
Tetrachloroethene	200	0.4346499										
Toluene	200	1.120994										
1,2,4-Trichlorobenzene	200	0.6725228										
1,1,1-Trichloroethane	200	0.3871868										
1,1,2-Trichloroethane	200	0.1674121										
Trichloroethene	200	0.2937693										
Trichlorofluoromethane	200	0.3949083										
1,1,2-Trichloro-1,2,2-trifluoro	200	0.1953036										
Vinyl Chloride	200	0.2449143										
Xylene (Total)	600	0.5849237										
Dibromofluoromethane	40	0.2408881										
1,2-Dichloroethane-d4	40	0.2868167										
Toluene-d8	40	1.032899										
4-Bromofluorobenzene	40	0.5107565										

INITIAL CALIBRATION DATA (Continued)
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2H01006

SDG: KNM070512
Project: KNM
Calibration Date: 07/26/12 00:00
Instrument: 224

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	Limit	Q
Acetone	6.619912E-02	13.72225	2.441667	0.1676619			15	
Benzene	0.9422601	3.27921	6.13	1.690875E-02			15	
Bromodichloromethane	0.2940719	8.885332	7.925714	6.950718E-02			15	
Bromoform	0.1883126	22.03396	11.88	1.652899E-02	0.99878		SPCC (0.1)	
Bromomethane	8.816489E-02	11.9116	1.664286	0.321613			15	
Carbon Disulfide	0.3916528	10.82326	2.58	1.453541E-02			15	
Carbon Tetrachloride	0.3280275	10.33652	5.768571	6.554158E-02			15	
Chlorobenzene	0.8679688	2.000777	10.83	1.916913E-02			SPCC (0.3)	
Chloroethane	0.1559713	24.6978	1.742857	0.2800533	0.99938		0.99	
Chloroform	0.4026116	3.618176	5.218571	7.238149E-02			CCC (30)	
Chloromethane	0.2251342	7.022825	1.36	1.543413E-02			SPCC (0.1)	
Cyclohexane	0.3898513	11.0054	5.568572	6.875698E-02			15	
1,2-Dibromo-3-chloropropane	0.1581518	23.02029	15.20429	5.133459E-02	0.99862		0.99	
Dibromochloromethane	0.2714059	13.18946	10.06143	0.0332301			15	
1,2-Dibromoethane	0.2361728	10.19904	10.18	1.473531E-02			15	
1,2-Dichlorobenzene	1.058615	7.170012	14.23	1.183785E-02			15	
1,3-Dichlorobenzene	1.135354	4.749936	13.66	5.490682E-03			15	
1,4-Dichlorobenzene	1.182727	6.216134	13.77429	4.137306E-02			15	
Dichlorodifluoromethane	0.2901393	2.483582	1.211429	0.3123854			15	
1,1-Dichloroethane	0.3840714	3.712936	3.708571	0.1012791			SPCC (0.1)	
1,2-Dichloroethane	0.3218313	5.002354	6.177143	7.932367E-02			15	
1,1-Dichloroethene	0.17499	3.604685	2.38	8.220071E-03			CCC (30)	
cis-1,2-Dichloroethene	0.2402099	4.580413	4.6	1.999044E-02			15	
trans-1,2-Dichloroethene	0.2229306	6.583256	3.171429	0.1194234			15	
1,2-Dichloropropane	0.2166016	5.661434	7.494286	7.222273E-02			CCC (30)	
cis-1,3-Dichloropropene	0.3011704	14.63952	8.57	0.0173086			15	
trans-1,3-Dichloropropene	0.2822391	17.3188	9.347143	5.337792E-02	0.99942		0.99	
Ethylbenzene	1.488778	5.943202	11	0			CCC (30)	
2-Hexanone	0.166667	17.81939	9.95	1.299104E-02	0.99716		0.99	
Isopropylbenzene	2.218469	9.731708	12.13	8.544984E-03			15	
Methyl Acetate	0.1483787	9.482133	2.77	1.636681E-02			15	
Methyl tert-Butyl Ether	0.562919	8.923798	3.187143	0.1536823			15	

INITIAL CALIBRATION DATA (Continued)
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2H01006

SDG: KNM070512
Project: KNM
Calibration Date: 07/26/12 00:00
Instrument: 224

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	Limit	Q
Methylcyclohexane	0.3879732	13.35875	7.421429	4.984238E-02			15	
Methylene Chloride	0.4071975	72.79053	2.87	6.816645E-03	0.99955		0.99	
2-Butanone (MEK)	0.0948406	8.241287	4.677143	0.1056268			15	
4-Methyl-2-pentanone (MIBK)	0.1970583	13.10469	8.83	2.384445E-02			15	
Styrene	0.9219241	9.816382	11.67286	4.380301E-02			15	
1,1,2,2-Tetrachloroethane	0.5523528	4.3262	12.53	0.0227424			SPCC (0.3)	
Tetrachloroethene	0.4234152	5.5893	9.72	2.114986E-02			15	
Toluene	1.093634	2.749786	9	0			CCC (30)	
1,2,4-Trichlorobenzene	0.5601549	13.7647	16.22714	2.265553E-02			15	
1,1,1-Trichloroethane	0.3576021	6.242918	5.49	1.784249E-02			15	
1,1,2-Trichloroethane	0.1598845	7.414009	9.572857	4.895386E-02			15	
Trichloroethene	0.2839607	5.530338	7.17	5.230315E-03			15	
Trichlorofluoromethane	0.3795308	3.183766	1.94	1.855018E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1888436	5.547689	2.39	2.993325E-03			15	
Vinyl Chloride	0.2489467	6.704412	1.428571	0.2653844			CCC (30)	
Xylene (Total)	0.5637815	5.174982	11.65571	4.502389E-02			15	
Dibromofluoromethane	0.2432974	0.6068236	5.5	0			15	
1,2-Dichloroethane-d4	0.2915516	1.106619	6.05	0.0210666			15	
Toluene-d8	1.025963	0.7104199	8.91	1.873922E-02			15	
4-Bromofluorobenzene	0.5050498	0.9723045	12.30143	0.0357525			15	

Response Factor Report 224

2H01006

Method Path : C:\MSDCHEM\2\METHODS\
Method File : 8260B-B34.M
Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
Last Update : Wed Aug 01 12:18:26 2012
Response Via : Initial Calibration

Calibration Files
1 =1P0726.D 2 =5P0726.D 3 =10P0726.D
4 =20P0726.D 5 =40P0726.D 6 =100P0726.D
7 =200P0726.D

		Compound	1	2	3	4	5	6	7	Avg	%RSD
1)	I	Fluorobenzene		----------ISTD----------							
2)		dichlorodifluor	0.277	0.289	0.285	0.293	0.295	0.299	0.293	0.290	2.48
3)	P	chloromethane	0.259	0.224	0.216	0.228	0.220	0.218	0.211	0.225	7.02
4)	C	vinyl chloride	0.283	0.235	0.233	0.247	0.245	0.254	0.245	0.249	6.70#
5)		bromomethane	0.079	0.078	0.083	0.084	0.086	0.104	0.102	0.088	11.91
6)		chloroethane	0.242	0.151	0.143	0.144	0.138	0.140	0.133	-----	
								L	M= 0.133	R=0.999	
									B= 0.005		
7)		dichlorofluorom	0.401	0.361	0.356	0.372	0.367	0.369	0.364	0.370	4.02
8)		trichlorofluoro	0.371	0.364	0.369	0.387	0.378	0.393	0.395	0.380	3.18
9)		ethyl ether	0.089	0.098	0.098	0.101	0.099	0.104	0.102	0.099	5.08
10)		acrolein	0.016	0.028	0.029	0.031	0.029	0.031	0.030	-----	
								L	M= 0.031	R=1.000	
									B= -0.000		
11)		1,1,2-trichloro	0.167	0.187	0.187	0.198	0.191	0.196	0.195	0.189	5.55
12)	C	1,1-dichloroeth	0.181	0.166	0.167	0.176	0.175	0.182	0.178	0.175	3.60#
13)		acetone		0.081	0.072	0.065	0.056	0.063	0.060	0.066	13.72
14)		iodomethane	0.030	0.045	0.066	0.108	0.132	0.194	0.205	-----	
								Q	A= 0.007	R=0.998	
									B= 0.178		
									C= -0.024		
15)		carbon disulfid	0.426	0.329	0.368	0.397	0.354	0.425	0.442	0.392	10.82
16)		methyl acetate		0.172	0.158	0.145	0.137	0.138	0.139	0.148	9.48
17)		methylene chlor	1.070	0.405	0.285	0.261	0.285	0.277	0.268	-----	
								L	M= 0.266	R=1.000	
									B= 0.013		
18)		acrylonitrile	0.069	0.083	0.083	0.084	0.086	0.090	0.089	0.083	8.42
19)		trans-1,2-dichl	0.252	0.214	0.206	0.216	0.220	0.227	0.225	0.223	6.58
20)		methyl (tert) b	0.469	0.534	0.558	0.572	0.580	0.614	0.614	0.563	8.92
21)	P	1,1-dichloroeth	0.389	0.366	0.366	0.380	0.387	0.401	0.400	0.384	3.71
22)		vinyl acetate	0.323	0.336	0.362	0.371	0.337	0.406	0.394	0.361	8.64
23)		2,2-dichloropro	0.279	0.239	0.256	0.269	0.279	0.300	0.300	0.275	8.15
24)		cis-1,2-dichlor	0.229	0.225	0.234	0.244	0.247	0.253	0.251	0.240	4.58
25)		2-butanone (MEK	0.094	0.093	0.099	0.091	0.081	0.106	0.100	0.095	8.24
26)		bromochlorometh	0.183	0.182	0.186	0.185	0.185	0.186	0.181	0.184	1.14
27)		tetrahydrofuran		0.025	0.031	0.030	0.032	0.035	0.036	0.032	12.46
28)	C	chloroform	0.380	0.390	0.398	0.404	0.407	0.420	0.419	0.403	3.62#
29)	S	#Dibromofluorom	0.245	0.243	0.246	0.243	0.243	0.243	0.241	0.243	0.61
30)		1,1,1-trichloro	0.347	0.331	0.335	0.357	0.362	0.385	0.387	0.358	6.24
31)		cyclohexane	0.313	0.360	0.378	0.403	0.413	0.431	0.430	0.390	11.01
32)		carbon tetrachl	0.279	0.300	0.308	0.330	0.344	0.365	0.369	0.328	10.34
33)		1,1-dichloropro	0.323	0.302	0.307	0.322	0.331	0.345	0.344	0.325	5.13
34)		benzene	0.927	0.892	0.924	0.947	0.950	0.980	0.976	0.942	3.28
35)		1,2-dichloroeth	0.286	0.325	0.325	0.326	0.326	0.335	0.329	0.322	5.00
36)		heptane								0.000	-1.00
37)	s	#1,2-Dichloroet	0.293	0.296	0.294	0.293	0.290	0.289	0.287	0.292	1.11
38)		trichloroethene	0.307	0.262	0.268	0.279	0.285	0.294	0.294	0.284	5.53
39)		methylcyclohexa	0.291	0.354	0.378	0.407	0.416	0.434	0.435	0.388	13.36
40)	C	1,2-dichloropro	0.193	0.211	0.215	0.220	0.223	0.228	0.227	0.217	5.66#
41)		dibromomethane	0.112	0.133	0.133	0.134	0.133	0.139	0.138	0.132	6.95
42)		1,4-dioxane								0.000	-1.00
43)		bromodichlorome	0.251	0.271	0.288	0.298	0.306	0.321	0.323	0.294	8.89
44)		2-chloroethyl v	0.082	0.099	0.110	0.119	0.110	0.139	0.140	-----	
								L	M= 0.141	R=0.999	
									B= -0.010		

KSN 8-1-12

Response Factor Report 224

Method Path : C:\MSDCHEM\2\METHODS\
Method File : 8260B-B34.M
Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
Last Update : Wed Aug 01 12:18:26 2012
Response Via : Initial Calibration

45)		cis-1,3-dichlor	0.237	0.261	0.282	0.304	0.322	0.348	0.355	0.301	14.64
46)		4-methyl-2-pent		0.171	0.184	0.192	0.177	0.233	0.225	0.197	13.10
47)	s	#Toluene-d8	1.011	1.025	1.025	1.028	1.031	1.029	1.033	1.026	0.71
48)	C	toluene	1.110	1.054	1.053	1.096	1.094	1.128	1.121	1.094	2.75#
49)		trans-1,3-dichl	0.217	0.241	0.252	0.280	0.301	0.337	0.347	-----	
								L	M=	0.350	R=0.999
									B=	-0.025	
50)		1,1,2-trichloro	0.135	0.165	0.158	0.164	0.161	0.170	0.167	0.160	7.41
51)		Chlorobenzene-d5		----------ISTD----------							
52)		tetrachloroethe	0.464	0.396	0.396	0.418	0.424	0.432	0.435	0.423	5.59
53)		1,3-dichloropro	0.354	0.416	0.417	0.432	0.438	0.446	0.446	0.421	7.61
54)		2-hexanone (MBK		0.130	0.150	0.161	0.153	0.208	0.197	-----	
								L	M=	0.203	R=0.997
									B=	-0.018	
55)		dibromochlorome	0.218	0.246	0.253	0.271	0.287	0.308	0.318	0.271	13.19
56)		1,2-dibromoetha	0.191	0.224	0.230	0.244	0.247	0.258	0.260	0.236	10.20
57)		chlorobenzene	0.886	0.839	0.851	0.871	0.866	0.883	0.880	0.868	2.00
58)		1-chlorohexane	0.298	0.282	0.287	0.304	0.307	0.313	0.308	0.300	3.84
59)		1,1,1,2-tetrach	0.248	0.274	0.276	0.293	0.301	0.314	0.316	0.289	8.48
60)	C	ethylbenzene	1.390	1.373	1.449	1.501	1.532	1.578	1.598	1.489	5.94#
61)		m+p-xylene	0.549	0.547	0.571	0.594	0.599	0.606	0.595	0.580	4.20
62)		o-xylene	0.472	0.488	0.518	0.544	0.557	0.572	0.566	0.531	7.41
63)		styrene	0.746	0.871	0.908	0.954	0.982	0.998	0.993	0.922	9.82
64)	P	bromoform	0.120	0.163	0.174	0.187	0.205	0.227	0.243	-----	
								L	M=	0.244	R=0.999
									B=	-0.021	
65)	S	#4-Bromofluorob	0.497	0.507	0.504	0.501	0.510	0.506	0.511	0.505	0.97
66)	I	1,4-Dichlorobenzene-d		----------ISTD----------							
67)		isopropylbenzen	1.945	1.985	2.134	2.239	2.263	2.447	2.516	2.218	9.73
68)		bromobenzene	0.870	0.839	0.878	0.893	0.892	0.932	0.948	0.893	4.14
69)	P	1,1,2,2-tetrach	0.505	0.545	0.558	0.554	0.554	0.576	0.576	0.552	4.33
70)		1,2,3-trichloro	0.167	0.198	0.202	0.200	0.197	0.209	0.208	0.197	7.15
71)		1,4-dichloro-2-	0.101	0.152	0.171	0.186	0.203	0.242	0.258	-----	
								L	M=	0.261	R=0.998
									B=	-0.028	
72)		n-propylbenzene	0.593	0.601	0.622	0.655	0.667	0.700	0.708	0.650	7.07
73)		2-chlorotoluene	0.515	0.537	0.544	0.573	0.568	0.595	0.608	0.563	5.88
74)		1,3,5-trimethyl	1.594	1.660	1.751	1.817	1.849	1.952	1.994	1.803	8.10
75)		4-chlorotoluene	0.549	0.540	0.563	0.577	0.583	0.610	0.606	0.575	4.65
76)		tert-butylbenze	1.396	1.376	1.487	1.569	1.614	1.724	1.779	1.564	9.91
77)		1,2,4-trimethyl	1.526	1.622	1.700	1.807	1.836	1.962	2.027	1.783	10.08
78)		sec-butylbenzen	1.831	1.839	1.965	2.099	2.140	2.309	2.408	2.084	10.68
79)		1,3-dichloroben	1.112	1.071	1.091	1.123	1.135	1.193	1.221	1.135	4.75
80)		4-isopropyltolu	1.740	1.595	1.677	1.768	1.813	1.961	2.018	1.796	8.37
81)		1,4-dichloroben	1.320	1.120	1.116	1.138	1.152	1.210	1.223	1.183	6.22
82)		1,2-dichloroben	0.958	0.994	1.018	1.062	1.070	1.142	1.167	1.059	7.17
83)		n-butylbenzene	1.113	1.139	1.218	1.303	1.351	1.478	1.523	1.303	12.19
84)		hexachloroethan	0.184	0.188	0.197	0.224	0.243	0.289	0.315	-----	
								L	M=	0.317	R=0.998
									B=	-0.036	
85)		1,2-dibromo-3-c	0.097	0.141	0.144	0.156	0.169	0.194	0.206	-----	
								L	M=	0.207	R=0.999
									B=	-0.019	
86)		1,2,4-trichloro	0.481	0.491	0.500	0.547	0.581	0.648	0.673	0.560	13.76
87)		hexachlorobutad	0.345	0.281	0.288	0.299	0.305	0.329	0.337	0.312	7.98
88)		naphthalene		0.931	1.061	1.189	1.284	1.452	1.547	-----	
								L	M=	1.569	R=0.999
									B=	-0.180	
89)		1,2,3-trichloro	0.408	0.445	0.453	0.495	0.513	0.565	0.585	0.495	13.07
90)		2-methylnaphtha		0.209	0.245	0.274	0.318	0.370	0.385	-----	
								L	M=	0.393	R=0.999

Response Factor Report 224

Method Path : C:\MSDCHEM\2\METHODS\
Method File : 8260B-B34.M
Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
Last Update : Wed Aug 01 12:18:26 2012
Response Via : Initial Calibration

B= -0.049

Total Average %RSD 7.14

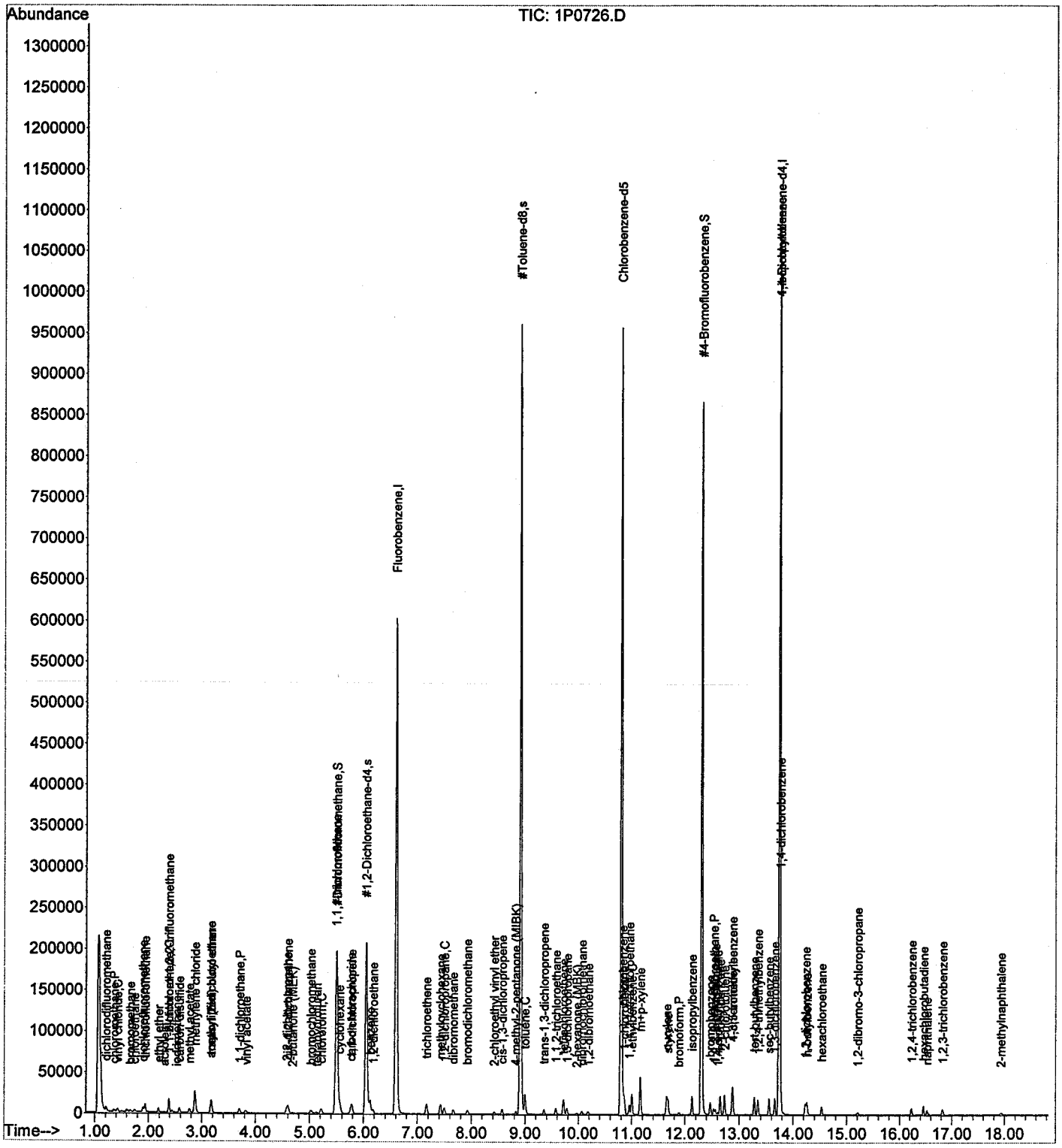
L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

8260B-B34.M Wed Aug 01 12:16:32 2012

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 1P0726.D
Acq On : 26 Jul 2012 11:35
Operator : DLV
Sample : CAL1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 26 11:54:16 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration



01101

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 1P0726.D
Acq On : 26 Jul 2012 11:35
Operator : DLV
Sample : CAL1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 26 11:54:16 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.60	96	697514	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	584881	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	334544	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.50	111	170653	41.74	ug/L	0.00
Spiked Amount 40.000			Recovery	=	104.35%	
37) #1,2-Dichloroethane-d4	6.05	65	204528	43.93	ug/L	0.00
Spiked Amount 40.000			Recovery	=	109.82%	
47) #Toluene-d8	8.91	98	705049	39.64	ug/L	0.00
Spiked Amount 40.000			Recovery	=	99.10%	
65) #4-Bromofluorobenzene	12.31	95	290670	40.05	ug/L	0.00
Spiked Amount 40.000			Recovery	=	100.13%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.21	85	4837	1.01	ug/L	98
3) chloromethane	1.36	50	4512	1.17	ug/L	97
4) vinyl chloride	1.42	62	4939	1.18	ug/L	91
5) bromomethane	1.67	94	1382	2.00	ug/L	93
6) chloroethane	1.75	64	4226	1.89	ug/L #	75
7) dichlorofluoromethane	1.90	67	7001	1.23	ug/L	98
8) trichlorofluoromethane	1.94	101	6469	1.14	ug/L	96
9) ethyl ether	2.19	74	1544	0.93	ug/L	98
10) acrolein	2.30	56	271	0.48	ug/L #	15
11) 1,1,2-trichloro-1,2,2-trif	2.39	101	2915	0.98	ug/L	91
12) 1,1-dichloroethene	2.38	96	3160	1.12	ug/L	93
13) acetone	2.44	43	3531	Below Cal		80
14) iodomethane	2.52	142	528	6.35	ug/L #	45
15) carbon disulfide	2.58	76	7420	1.36	ug/L #	94
16) methyl acetate	2.77	43	5822	1.74	ug/L	95
17) methylene chloride	2.87	49	18659	3.81	ug/L	98
18) acrylonitrile	3.16	53	1195	0.75	ug/L #	73
19) trans-1,2-dichloroethene	3.17	96	4397	1.24	ug/L	97
20) methyl (tert) butyl ether	3.18	73	8184	0.88	ug/L	95
21) 1,1-dichloroethane	3.71	63	6782	1.10	ug/L	98
22) vinyl acetate	3.82	43	5640	0.92	ug/L	78
23) 2,2-dichloropropane	4.58	77	4871	1.21	ug/L	84
24) cis-1,2-dichloroethene	4.60	96	3985	1.02	ug/L	91
25) 2-butanone (MEK)	4.68	43	1645	1.02	ug/L #	52
26) bromochloromethane	5.02	49	3192	1.02	ug/L	95
27) tetrahydrofuran	5.13	71	160	0.27	ug/L #	1
28) chloroform	5.22	83	6623	1.07	ug/L	98
30) 1,1,1-trichloroethane	5.49	97	6044	1.16	ug/L	96
31) cyclohexane	5.56	56	5459	0.83	ug/L	97
32) carbon tetrachloride	5.76	117	4873	1.02	ug/L	88
33) 1,1-dichloropropene	5.78	75	5630	1.13	ug/L	96
34) benzene	6.13	78	16159	1.05	ug/L #	76
35) 1,2-dichloroethane	6.18	62	4991	1.03	ug/L	92
36) heptane	6.60	57	21644	No Calib	#	
38) trichloroethene	7.17	130	5351	1.20	ug/L	99
39) methylcyclohexane	7.43	83	5082	0.78	ug/L	88
40) 1,2-dichloropropane	7.49	63	3357	0.91	ug/L #	85
41) dibromomethane	7.66	93	1949	0.91	ug/L	90

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 1P0726.D
Acq On : 26 Jul 2012 11:35
Operator : DLV
Sample : CAL1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 26 11:54:16 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration

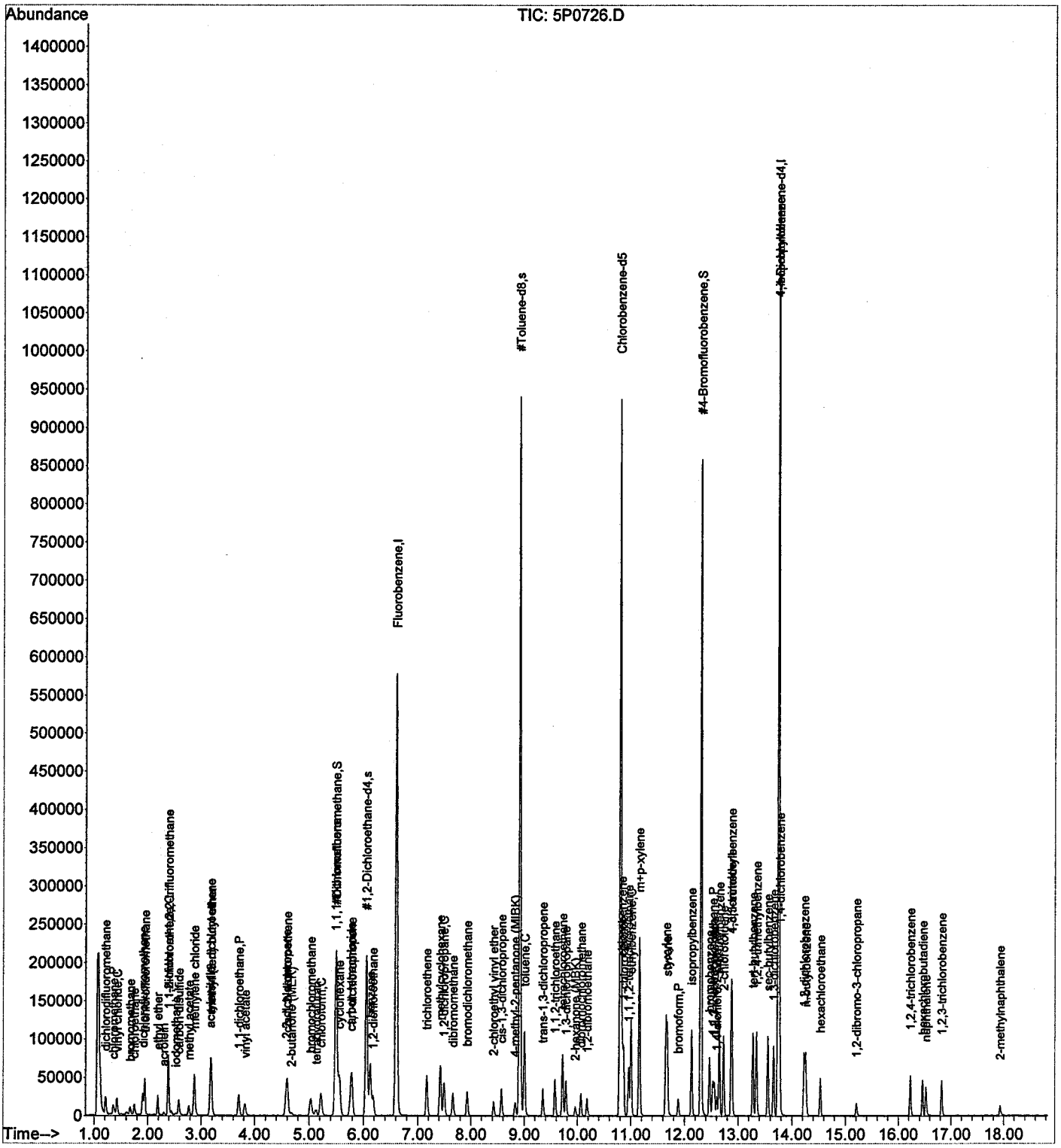
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	7.92	83	4384	0.96 ug/L	94
44) 2-chloroethyl vinyl ether	8.42	63	1432	4.29 ug/L	75
45) cis-1,3-dichloropropene	8.57	75	4126	2.67 ug/L	94
46) 4-methyl-2-pentanone (MIBK	8.83	43	2645	0.78 ug/L	81
48) toluene	9.00	91	19356	1.10 ug/L	97
49) trans-1,3-dichloropropene	9.35	75	3782	3.35 ug/L	97
50) 1,1,2-trichloroethane	9.58	83	2347	0.86 ug/L	99
52) tetrachloroethene	9.72	166	6782	1.22 ug/L	97
53) 1,3-dichloropropane	9.78	76	5176	0.86 ug/L	97
54) 2-hexanone (MBK)	9.97	43	1432	3.58 ug/L #	85
55) dibromochloromethane	10.07	129	3182	0.84 ug/L	92
56) 1,2-dibromoethane	10.18	109	2792	0.82 ug/L #	93
57) chlorobenzene	10.83	112	12953	1.05 ug/L	99
58) 1-chlorohexane	10.86	55	4359	1.06 ug/L #	86
59) 1,1,1,2-tetrachloroethane	10.95	131	3622	0.91 ug/L	97
60) ethylbenzene	11.00	91	20321	0.99 ug/L	96
61) m+p-xylene	11.16	106	16060	1.95 ug/L	94
62) o-xylene	11.66	106	6901	0.90 ug/L	91
63) styrene	11.68	104	10915	0.82 ug/L	91
64) bromoform	11.88	173	1749	3.25 ug/L	90
67) isopropylbenzene	12.13	105	16266	0.92 ug/L	98
68) bromobenzene	12.47	77	7276	1.00 ug/L	98
69) 1,1,2,2-tetrachloroethane	12.53	83	4222	0.82 ug/L #	95
70) 1,2,3-trichloropropane	12.56	110	1397	0.84 ug/L #	61
71) 1,4-dichloro-2-butene	12.60	53	847	3.11 ug/L #	34
72) n-propylbenzene	12.66	120	4960	0.94 ug/L	99
73) 2-chlorotoluene	12.73	126	4306	0.92 ug/L #	83
74) 1,3,5-trimethylbenzene	12.89	105	13333	0.92 ug/L	99
75) 4-chlorotoluene	12.87	126	4591	0.97 ug/L	97
76) tert-butylbenzene	13.28	119	11677	0.93 ug/L	99
77) 1,2,4-trimethylbenzene	13.34	105	12763	0.89 ug/L	97
78) sec-butylbenzene	13.56	105	15314	0.90 ug/L	98
79) 1,3-dichlorobenzene	13.66	146	9304	1.01 ug/L	96
80) 4-isopropyltoluene	13.75	119	14552	0.99 ug/L	92
81) 1,4-dichlorobenzene	13.77	146	11038	1.14 ug/L #	76
82) 1,2-dichlorobenzene	14.23	146	8014	0.90 ug/L	98
83) n-butylbenzene	14.26	91	9311	2.69 ug/L	99
84) hexachloroethane	14.53	201	1537	4.78 ug/L #	64
85) 1,2-dibromo-3-chloropropan	15.22	157	808	0.52 ug/L	95
86) 1,2,4-trichlorobenzene	16.23	180	4020	0.85 ug/L	94
87) hexachlorobutadiene	16.46	225	2885	1.20 ug/L	95
88) naphthalene	16.53	128	7139	3.62 ug/L	92
89) 1,2,3-trichlorobenzene	16.83	180	3412	0.78 ug/L	90
90) 2-methylnaphthalene	17.93	142	2679	3.03 ug/L	88

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

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 5P0726.D
Acq On : 26 Jul 2012 12:02
Operator : DLV
Sample : CAL2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 26 12:20:58 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration



01104

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 5P0726.D
Acq On : 26 Jul 2012 12:02
Operator : DLV
Sample : CAL2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 26 12:20:58 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.61	96	678122	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	568512	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	331882	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.50	111	164792	41.46	ug/L	0.00
Spiked Amount 40.000			Recovery	=	103.65%	
37) #1,2-Dichloroethane-d4	6.05	65	200747	44.35	ug/L	0.00
Spiked Amount 40.000			Recovery	=	110.88%	
47) #Toluene-d8	8.91	98	695183	40.21	ug/L	0.00
Spiked Amount 40.000			Recovery	=	100.52%	
65) #4-Bromofluorobenzene	12.30	95	288045	40.84	ug/L	0.00
Spiked Amount 40.000			Recovery	=	102.10%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.21	85	24517	5.27	ug/L	97
3) chloromethane	1.36	50	19016	5.05	ug/L	98
4) vinyl chloride	1.43	62	19901	4.89	ug/L	93
5) bromomethane	1.67	94	6640	5.86	ug/L	95
6) chloroethane	1.74	64	12815	5.90	ug/L	99
7) dichlorofluoromethane	1.90	67	30586	5.51	ug/L	99
8) trichlorofluoromethane	1.94	101	30872	5.61	ug/L	99
9) ethyl ether	2.19	74	8274	5.14	ug/L	96
10) acrolein	2.30	56	2407	4.41	ug/L #	98
11) 1,1,2-trichloro-1,2,2-trif	2.39	101	15874	5.48	ug/L	100
12) 1,1-dichloroethene	2.38	96	14098	5.12	ug/L	92
13) acetone	2.44	43	6885	Below Cal		90
14) iodomethane	2.52	142	3845	7.49	ug/L #	87
15) carbon disulfide	2.58	76	27849	5.25	ug/L	100
16) methyl acetate	2.77	43	14604	4.49	ug/L	99
17) methylene chloride	2.87	49	34339	7.22	ug/L	98
18) acrylonitrile	3.16	53	7057	4.56	ug/L	98
19) trans-1,2-dichloroethene	3.18	96	18128	5.24	ug/L	99
20) methyl (tert) butyl ether	3.19	73	45256	5.01	ug/L	98
21) 1,1-dichloroethane	3.71	63	31001	5.19	ug/L	99
22) vinyl acetate	3.82	43	28439	4.77	ug/L	100
23) 2,2-dichloropropane	4.58	77	20243	5.17	ug/L	100
24) cis-1,2-dichloroethene	4.60	96	19073	5.04	ug/L	98
25) 2-butanone (MEK)	4.68	43	7907	5.03	ug/L	90
26) bromochloromethane	5.02	49	15421	5.07	ug/L	96
27) tetrahydrofuran	5.13	71	2124	3.74	ug/L #	81
28) chloroform	5.22	83	33093	5.48	ug/L	99
30) 1,1,1-trichloroethane	5.49	97	28030	5.53	ug/L	97
31) cyclohexane	5.57	56	30507	4.79	ug/L	99
32) carbon tetrachloride	5.77	117	25407	5.49	ug/L	100
33) 1,1-dichloropropene	5.79	75	25565	5.30	ug/L	99
34) benzene	6.13	78	75607	5.05	ug/L	94
35) 1,2-dichloroethane	6.18	62	27546	5.84	ug/L	96
36) heptane	6.61	57	21338	No Calib	#	
38) trichloroethene	7.17	130	22232	5.14	ug/L	98
39) methylcyclohexane	7.42	83	29980	4.74	ug/L	95
40) 1,2-dichloropropane	7.50	63	17868	5.00	ug/L	96
41) dibromomethane	7.66	93	11266	5.39	ug/L	97

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 5P0726.D
Acq On : 26 Jul 2012 12:02
Operator : DLV
Sample : CAL2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 26 12:20:58 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration

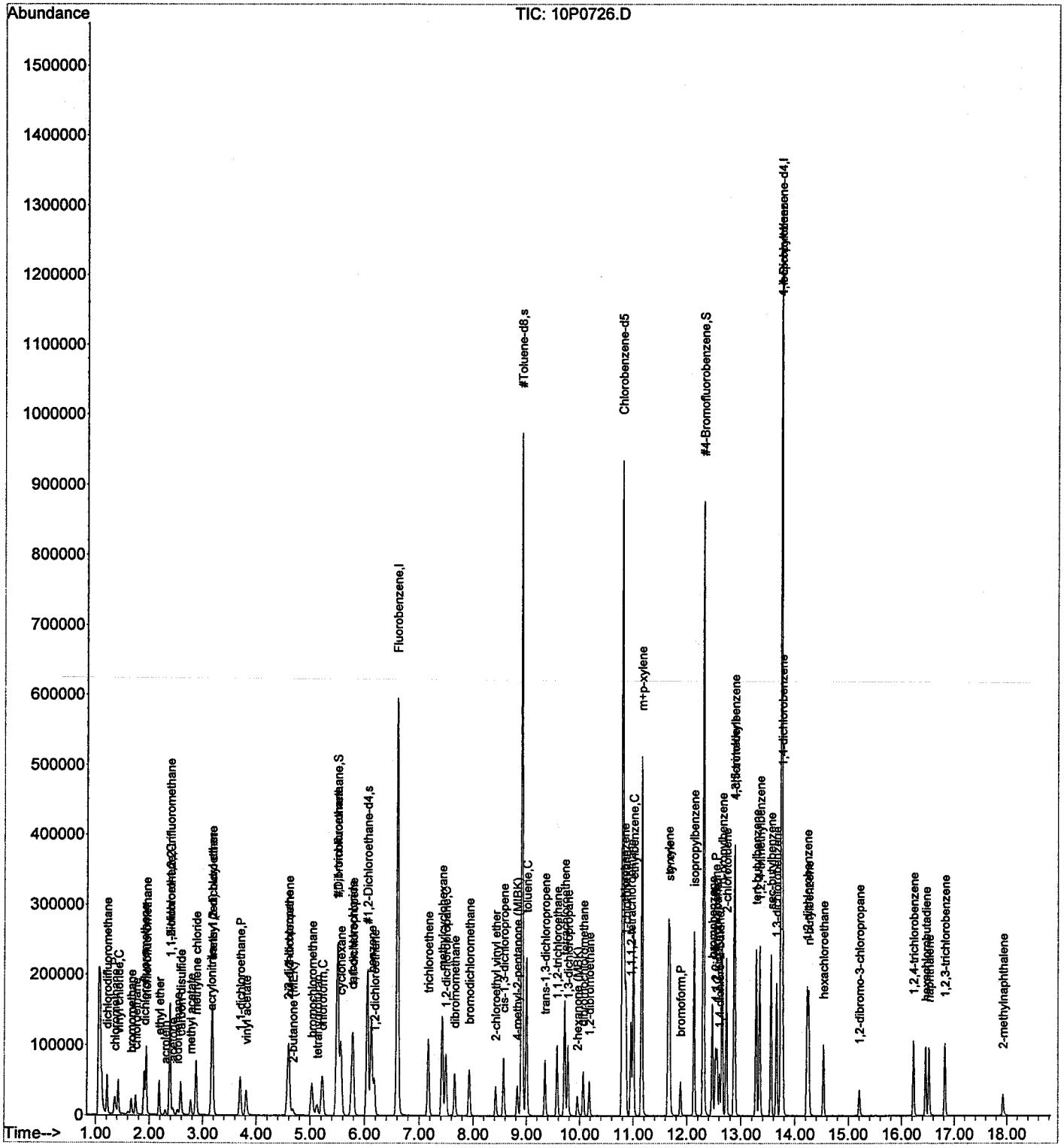
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	7.93	83	23008	5.19 ug/L	98
44) 2-chloroethyl vinyl ether	8.42	63	8364	8.18 ug/L	97
45) cis-1,3-dichloropropene	8.57	75	22098	5.85 ug/L	95
46) 4-methyl-2-pentanone (MIBK	8.83	43	14518	4.39 ug/L	94
48) toluene	9.00	91	89326	5.23 ug/L	99
49) trans-1,3-dichloropropene	9.35	75	20462	6.41 ug/L	98
50) 1,1,2-trichloroethane	9.57	83	13973	5.24 ug/L	95
52) tetrachloroethene	9.72	166	28143	5.19 ug/L	99
53) 1,3-dichloropropane	9.78	76	29565	5.03 ug/L	98
54) 2-hexanone (MBK)	9.95	43	9265	6.26 ug/L	94
55) dibromochloromethane	10.06	129	17452	4.77 ug/L	99
56) 1,2-dibromoethane	10.18	109	15892	4.80 ug/L	98
57) chlorobenzene	10.83	112	59616	4.95 ug/L	91
58) 1-chlorohexane	10.86	55	20059	5.04 ug/L	88
59) 1,1,1,2-tetrachloroethane	10.95	131	19498	5.05 ug/L	97
60) ethylbenzene	11.00	91	97537	4.89 ug/L	98
61) m+p-xylene	11.16	106	77785	9.71 ug/L	97
62) o-xylene	11.66	106	34662	4.67 ug/L	98
63) styrene	11.67	104	61887	4.79 ug/L	96
64) bromoform	11.88	173	11559	6.21 ug/L	98
67) isopropylbenzene	12.13	105	82359	4.67 ug/L	99
68) bromobenzene	12.47	77	34813	4.84 ug/L	99
69) 1,1,2,2-tetrachloroethane	12.53	83	22610	4.44 ug/L #	97
70) 1,2,3-trichloropropane	12.56	110	8221	4.96 ug/L #	79
71) 1,4-dichloro-2-butene	12.60	53	6325	5.70 ug/L #	63
72) n-propylbenzene	12.65	120	24928	4.75 ug/L	94
73) 2-chlorotoluene	12.73	126	22288	4.82 ug/L	97
74) 1,3,5-trimethylbenzene	12.88	105	68856	4.78 ug/L	100
75) 4-chlorotoluene	12.87	126	22384	4.77 ug/L	95
76) tert-butylbenzene	13.28	119	57073	4.57 ug/L	96
77) 1,2,4-trimethylbenzene	13.34	105	67288	4.74 ug/L	98
78) sec-butylbenzene	13.55	105	76282	4.53 ug/L	98
79) 1,3-dichlorobenzene	13.66	146	44448	4.85 ug/L	99
80) 4-isopropyltoluene	13.75	119	66172	4.54 ug/L	96
81) 1,4-dichlorobenzene	13.78	146	46470	4.83 ug/L	96
82) 1,2-dichlorobenzene	14.23	146	41231	4.66 ug/L	97
83) n-butylbenzene	14.26	91	47240	5.79 ug/L	99
84) hexachloroethane	14.53	201	7812	7.33 ug/L #	78
85) 1,2-dibromo-3-chloropropan	15.20	157	5868	3.77 ug/L	95
86) 1,2,4-trichlorobenzene	16.23	180	20377	4.36 ug/L	99
87) hexachlorobutadiene	16.46	225	11677	4.88 ug/L	97
88) naphthalene	16.53	128	38617	5.93 ug/L	99
89) 1,2,3-trichlorobenzene	16.82	180	18466	4.28 ug/L	99
90) 2-methylnaphthalene	17.93	142	8652	4.75 ug/L	94

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

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 10P0726.D
Acq On : 26 Jul 2012 12:28
Operator : DLV
Sample : CAL3
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 26 12:47:42 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration



01107

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 10P0726.D
Acq On : 26 Jul 2012 12:28
Operator : DLV
Sample : CAL3
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 26 12:47:42 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.60	96	695072	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	582063	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	340184	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.50	111	170669	41.89	ug/L	0.00
Spiked Amount 40.000			Recovery	=	104.72%	
37) #1,2-Dichloroethane-d4	6.05	65	204126	44.00	ug/L	0.00
Spiked Amount 40.000			Recovery	=	110.00%	
47) #Toluene-d8	8.91	98	712339	40.19	ug/L	0.00
Spiked Amount 40.000			Recovery	=	100.48%	
65) #4-Bromofluorobenzene	12.30	95	293537	40.65	ug/L	0.00
Spiked Amount 40.000			Recovery	=	101.62%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.22	85	49466	10.37	ug/L	97
3) chloromethane	1.36	50	37456	9.71	ug/L	100
4) vinyl chloride	1.43	62	40556	9.72	ug/L	97
5) bromomethane	1.66	94	14461	11.32	ug/L	99
6) chloroethane	1.75	64	24901	11.19	ug/L	97
7) dichlorofluoromethane	1.91	67	61837	10.86	ug/L	100
8) trichlorofluoromethane	1.94	101	64200	11.39	ug/L	100
9) ethyl ether	2.19	74	17077	10.35	ug/L	99
10) acrolein	2.30	56	5097	9.11	ug/L #	96
11) 1,1,2-trichloro-1,2,2-trif	2.39	101	32527	10.96	ug/L	98
12) 1,1-dichloroethene	2.38	96	28988	10.27	ug/L	93
13) acetone	2.44	43	12460	4.60	ug/L	93
14) iodomethane	2.52	142	11394	9.99	ug/L	98
15) carbon disulfide	2.58	76	64027	11.77	ug/L	99
16) methyl acetate	2.77	43	27467	8.24	ug/L	98
17) methylene chloride	2.87	49	49541	10.16	ug/L	98
18) acrylonitrile	3.15	53	14433	9.10	ug/L	96
19) trans-1,2-dichloroethene	3.17	96	35798	10.09	ug/L	98
20) methyl (tert) butyl ether	3.18	73	96907	10.46	ug/L	99
21) 1,1-dichloroethane	3.70	63	63663	10.40	ug/L	99
22) vinyl acetate	3.82	43	62859	10.30	ug/L	99
23) 2,2-dichloropropane	4.58	77	44432	11.07	ug/L	97
24) cis-1,2-dichloroethene	4.60	96	40679	10.49	ug/L	99
25) 2-butanone (MEK)	4.68	43	17145	10.64	ug/L	98
26) bromochloromethane	5.03	49	32381	10.38	ug/L	99
27) tetrahydrofuran	5.13	71	5432	9.33	ug/L	92
28) chloroform	5.21	83	69172	11.17	ug/L	99
30) 1,1,1-trichloroethane	5.49	97	58199	11.21	ug/L	97
31) cyclohexane	5.57	56	65611	10.06	ug/L	99
32) carbon tetrachloride	5.77	117	53560	11.28	ug/L	97
33) 1,1-dichloropropene	5.79	75	53356	10.78	ug/L	99
34) benzene	6.13	78	160626	10.47	ug/L	95
35) 1,2-dichloroethane	6.18	62	56560	11.69	ug/L	97
36) heptane	6.60	57	21935	No Calib	#	
38) trichloroethene	7.17	130	46520	10.50	ug/L	99
39) methylcyclohexane	7.42	83	65741	10.15	ug/L	97
40) 1,2-dichloropropane	7.50	63	37421	10.23	ug/L	98
41) dibromomethane	7.66	93	23161	10.81	ug/L	100

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 10P0726.D
Acq On : 26 Jul 2012 12:28
Operator : DLV
Sample : CAL3
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 26 12:47:42 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration

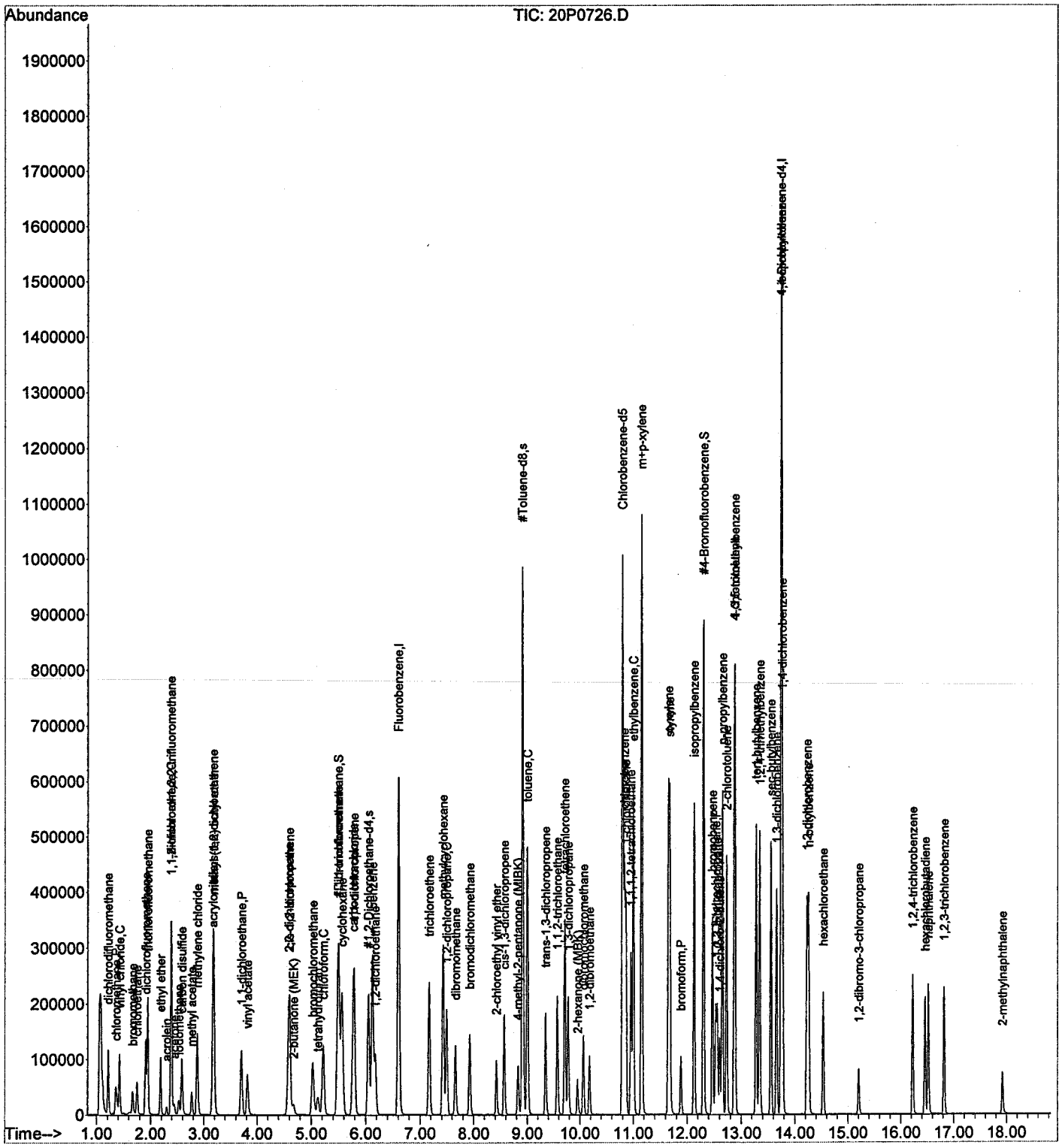
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	7.93	83	49997	11.00 ug/L	99
44) 2-chloroethyl vinyl ether	8.42	63	19064	13.89 ug/L	99
45) cis-1,3-dichloropropene	8.57	75	49025	10.37 ug/L	97
46) 4-methyl-2-pentanone (MIBK	8.83	43	32041	9.45 ug/L	97
48) toluene	9.00	91	183004	10.45 ug/L	100
49) trans-1,3-dichloropropene	9.35	75	43852	10.47 ug/L	97
50) 1,1,2-trichloroethane	9.58	83	27373	10.02 ug/L	99
52) tetrachloroethene	9.72	166	57624	10.38 ug/L	99
53) 1,3-dichloropropane	9.78	76	60734	10.09 ug/L	99
54) 2-hexanone (MBK)	9.95	43	21849	10.37 ug/L	96
55) dibromochloromethane	10.06	129	36753	9.80 ug/L	100
56) 1,2-dibromoethane	10.18	109	33401	9.85 ug/L	100
57) chlorobenzene	10.83	112	123894	10.06 ug/L	95
58) 1-chlorohexane	10.86	55	41693	10.23 ug/L	89
59) 1,1,1,2-tetrachloroethane	10.95	131	40180	10.17 ug/L	99
60) ethylbenzene	11.00	91	210843	10.32 ug/L	99
61) m+p-xylene	11.16	106	166196	20.27 ug/L	96
62) o-xylene	11.65	106	75341	9.92 ug/L	99
63) styrene	11.67	104	132175	9.99 ug/L	95
64) bromoform	11.88	173	25287	10.14 ug/L	99
67) isopropylbenzene	12.13	105	181471	10.05 ug/L	100
68) bromobenzene	12.47	77	74659	10.12 ug/L	97
69) 1,1,2,2-tetrachloroethane	12.53	83	47425	9.08 ug/L #	100
70) 1,2,3-trichloropropane	12.56	110	17184	10.11 ug/L	97
71) 1,4-dichloro-2-butene	12.60	53	14557	9.44 ug/L #	70
72) n-propylbenzene	12.65	120	52929	9.84 ug/L	96
73) 2-chlorotoluene	12.73	126	46251	9.76 ug/L	98
74) 1,3,5-trimethylbenzene	12.88	105	148952	10.10 ug/L	99
75) 4-chlorotoluene	12.88	126	47871	9.94 ug/L	97
76) tert-butylbenzene	13.28	119	126447	9.87 ug/L	97
77) 1,2,4-trimethylbenzene	13.34	105	144546	9.92 ug/L	99
78) sec-butylbenzene	13.55	105	167098	9.67 ug/L	99
79) 1,3-dichlorobenzene	13.66	146	92796	9.88 ug/L	98
80) 4-isopropyltoluene	13.75	119	142637	9.55 ug/L	97
81) 1,4-dichlorobenzene	13.77	146	94901	9.62 ug/L	97
82) 1,2-dichlorobenzene	14.23	146	86599	9.55 ug/L	99
83) n-butylbenzene	14.26	91	103554	10.18 ug/L	100
84) hexachloroethane	14.53	201	16760	10.80 ug/L #	82
85) 1,2-dibromo-3-chloropropan	15.21	157	12240	7.68 ug/L	90
86) 1,2,4-trichlorobenzene	16.23	180	42507	8.88 ug/L	100
87) hexachlorobutadiene	16.46	225	24493	9.99 ug/L	98
88) naphthalene	16.52	128	90255	9.57 ug/L	98
89) 1,2,3-trichlorobenzene	16.82	180	38517	8.71 ug/L	99
90) 2-methylnaphthalene	17.93	142	20818	8.10 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 20P0726.D
Acq On : 26 Jul 2012 12:55
Operator : DLV
Sample : CAL4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 12:16:39 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration



01110

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 20P0726.D
Acq On : 26 Jul 2012 12:55
Operator : DLV
Sample : CAL4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 12:16:39 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.61	96	715068	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	596732	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	349516	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	173801	41.47 ug/L	0.00
Spiked Amount 40.000			Recovery	= 103.68%	
37) #1,2-Dichloroethane-d4	6.05	65	209268	43.84 ug/L	0.00
Spiked Amount 40.000			Recovery	= 109.60%	
47) #Toluene-d8	8.91	98	735124	40.32 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.80%	
65) #4-Bromofluorobenzene	12.30	95	298888	40.37 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.93%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.21	85	104688	21.32 ug/L	99
3) chloromethane	1.36	50	81530	20.54 ug/L	99
4) vinyl chloride	1.43	62	88393	20.59 ug/L	98
5) bromomethane	1.66	94	30120	21.88 ug/L	100
6) chloroethane	1.74	64	51652	22.55 ug/L	98
7) dichlorofluoromethane	1.91	67	132950	22.70 ug/L	99
8) trichlorofluoromethane	1.94	101	138220	23.83 ug/L	100
9) ethyl ether	2.19	74	36224	21.34 ug/L	98
10) acrolein	2.30	56	11230	19.51 ug/L #	96
11) 1,1,2-trichloro-1,2,2-trif	2.39	101	70760	23.18 ug/L	99
12) 1,1-dichloroethene	2.38	96	62997	21.70 ug/L	93
13) acetone	2.44	43	23256	14.27 ug/L	94
14) iodomethane	2.53	142	38506	18.70 ug/L	95
15) carbon disulfide	2.58	76	142039	25.38 ug/L	100
16) methyl acetate	2.77	43	52011	15.17 ug/L	98
17) methylene chloride	2.87	49	93210	18.58 ug/L	99
18) acrylonitrile	3.16	53	29994	18.38 ug/L	96
19) trans-1,2-dichloroethene	3.17	96	77383	21.21 ug/L	97
20) methyl (tert) butyl ether	3.19	73	204641	21.48 ug/L	99
21) 1,1-dichloroethane	3.71	63	135976	21.59 ug/L	99
22) vinyl acetate	3.82	43	132476	21.09 ug/L	99
23) 2,2-dichloropropane	4.58	77	96172	23.29 ug/L	98
24) cis-1,2-dichloroethene	4.60	96	87143	21.84 ug/L	100
25) 2-butanone (MEK)	4.68	43	32448	19.58 ug/L	96
26) bromochloromethane	5.02	49	66303	20.67 ug/L	98
27) tetrahydrofuran	5.12	71	10798	18.04 ug/L	94
28) chloroform	5.22	83	144475	22.68 ug/L	100
30) 1,1,1-trichloroethane	5.49	97	127746	23.92 ug/L	98
31) cyclohexane	5.57	56	144179	21.49 ug/L	98
32) carbon tetrachloride	5.77	117	118072	24.18 ug/L	99
33) 1,1-dichloropropene	5.79	75	115154	22.62 ug/L	99
34) benzene	6.13	78	338580	21.45 ug/L	96
35) 1,2-dichloroethane	6.18	62	116574	23.42 ug/L	97
36) heptane	6.61	57	21368	No Calib #	
38) trichloroethene	7.17	130	99592	21.85 ug/L	99
39) methylcyclohexane	7.42	83	145398	21.82 ug/L	98
40) 1,2-dichloropropane	7.50	63	78565	20.87 ug/L	100
41) dibromomethane	7.66	93	47938	21.75 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 20P0726.D
Acq On : 26 Jul 2012 12:55
Operator : DLV
Sample : CAL4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 12:16:39 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration

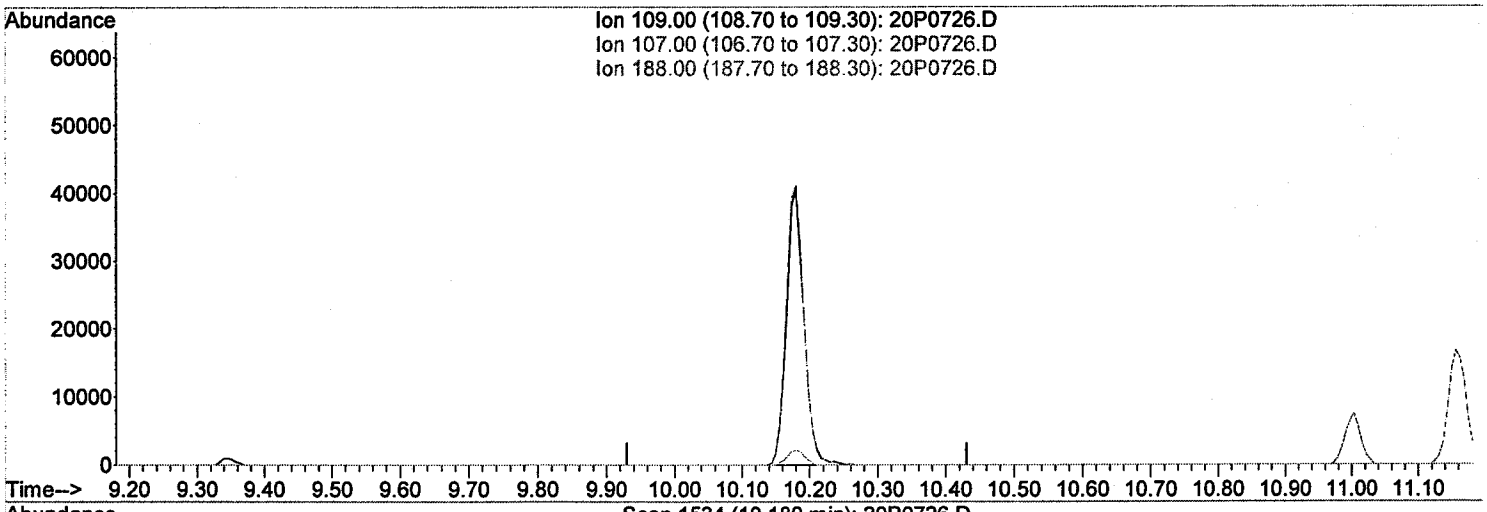
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	7.93	83	106485	22.78 ug/L	100
44) 2-chloroethyl vinyl ether	8.42	63	42375	25.94 ug/L	100
45) cis-1,3-dichloropropene	8.57	75	108669	20.08 ug/L	98
46) 4-methyl-2-pentanone (MIBK	8.83	43	68481	19.62 ug/L	99
48) toluene	9.00	91	391791	21.74 ug/L	99
49) trans-1,3-dichloropropene	9.34	75	100271	20.00 ug/L	98
50) 1,1,2-trichloroethane	9.57	83	58596	20.84 ug/L	98
52) tetrachloroethene	9.72	166	124695	21.91 ug/L	99
53) 1,3-dichloropropane	9.78	76	128759	20.87 ug/L	100
54) 2-hexanone (MBK)	9.95	43	48177	18.74 ug/L	97
55) dibromochloromethane	10.06	129	80821	21.03 ug/L	100
56) 1,2-dibromoethane	10.18	109	72725m	20.92 ug/L	
57) chlorobenzene	10.83	112	259796	20.57 ug/L	96
58) 1-chlorohexane	10.86	55	90687	21.71 ug/L	89
59) 1,1,1,2-tetrachloroethane	10.95	131	87462	21.59 ug/L	98
60) ethylbenzene	11.00	91	447927	21.38 ug/L	98
61) m+p-xylene	11.16	106	354746	42.21 ug/L	97
62) o-xylene	11.65	106	162376	20.86 ug/L	99
63) styrene	11.67	104	284731	21.00 ug/L	94
64) bromoform	11.88	173	55875	18.69 ug/L	100
67) isopropylbenzene	12.13	105	391353	21.09 ug/L	98
68) bromobenzene	12.47	77	156122	20.61 ug/L	99
69) 1,1,2,2-tetrachloroethane	12.53	83	96854	18.05 ug/L #	99
70) 1,2,3-trichloropropane	12.56	110	34993	20.04 ug/L	96
71) 1,4-dichloro-2-butene	12.60	53	32535	17.34 ug/L #	83
72) n-propylbenzene	12.65	120	114490	20.73 ug/L	96
73) 2-chlorotoluene	12.73	126	100119	20.57 ug/L	97
74) 1,3,5-trimethylbenzene	12.88	105	317572	20.95 ug/L	99
75) 4-chlorotoluene	12.87	126	100810	20.38 ug/L	99
76) tert-butylbenzene	13.28	119	274239	20.84 ug/L	96
77) 1,2,4-trimethylbenzene	13.34	105	315849	21.11 ug/L	100
78) sec-butylbenzene	13.55	105	366762	20.67 ug/L	99
79) 1,3-dichlorobenzene	13.66	146	196320	20.34 ug/L	99
80) 4-isopropyltoluene	13.75	119	308988	20.13 ug/L	98
81) 1,4-dichlorobenzene	13.77	146	198940	19.62 ug/L	96
82) 1,2-dichlorobenzene	14.23	146	185593	19.92 ug/L	98
83) n-butylbenzene	14.26	91	227668	19.57 ug/L	99
84) hexachloroethane	14.53	201	39167	19.25 ug/L #	88
85) 1,2-dibromo-3-chloropropan	15.20	157	27337	16.69 ug/L	93
86) 1,2,4-trichlorobenzene	16.23	180	95678	19.45 ug/L	99
87) hexachlorobutadiene	16.46	225	52282	20.75 ug/L	99
88) naphthalene	16.52	128	207850	17.60 ug/L	99
89) 1,2,3-trichlorobenzene	16.82	180	86501	19.04 ug/L	100
90) 2-methylnaphthalene	17.92	142	47802	15.31 ug/L	98

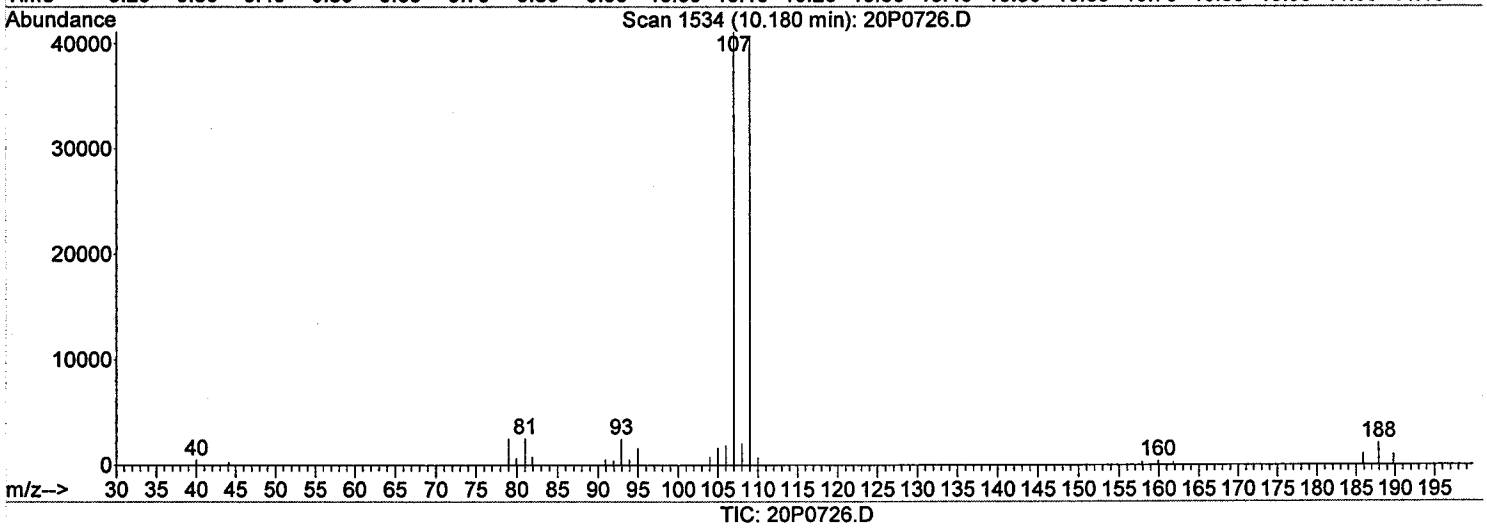
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 20P0726.D
Acq On : 26 Jul 2012 12:55
Operator : DLV
Sample : CAL4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 26 13:14:29 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration





(56) 1,2-dibromoethane

10.180min (-10.180) 0.00ug/L

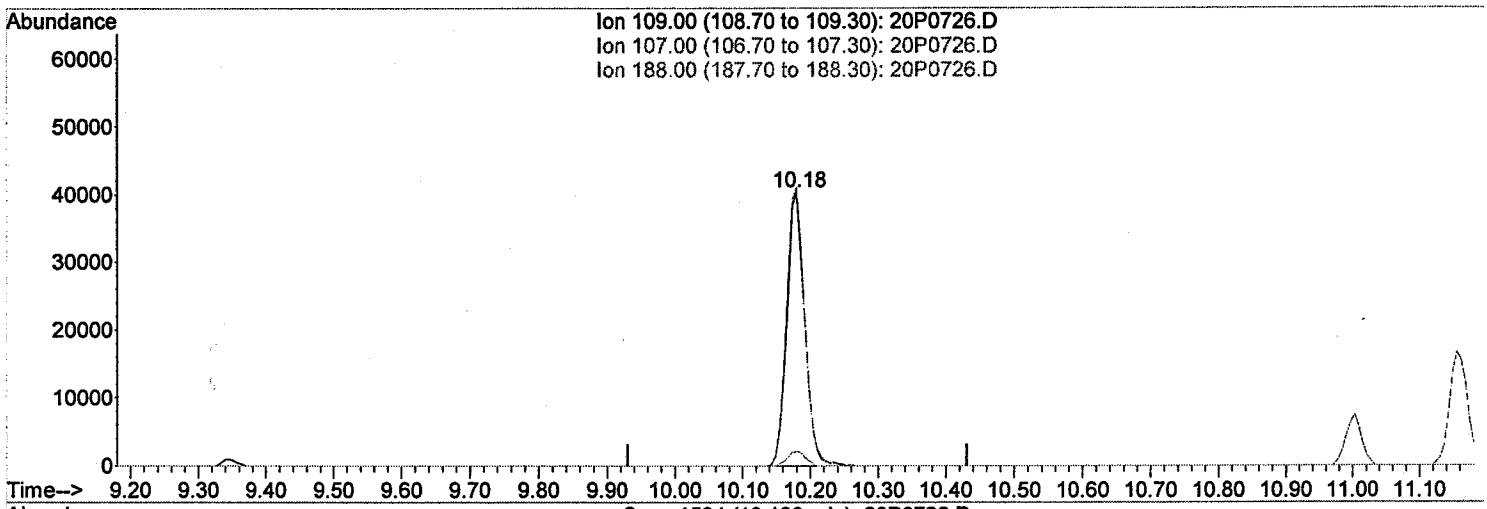
response 0

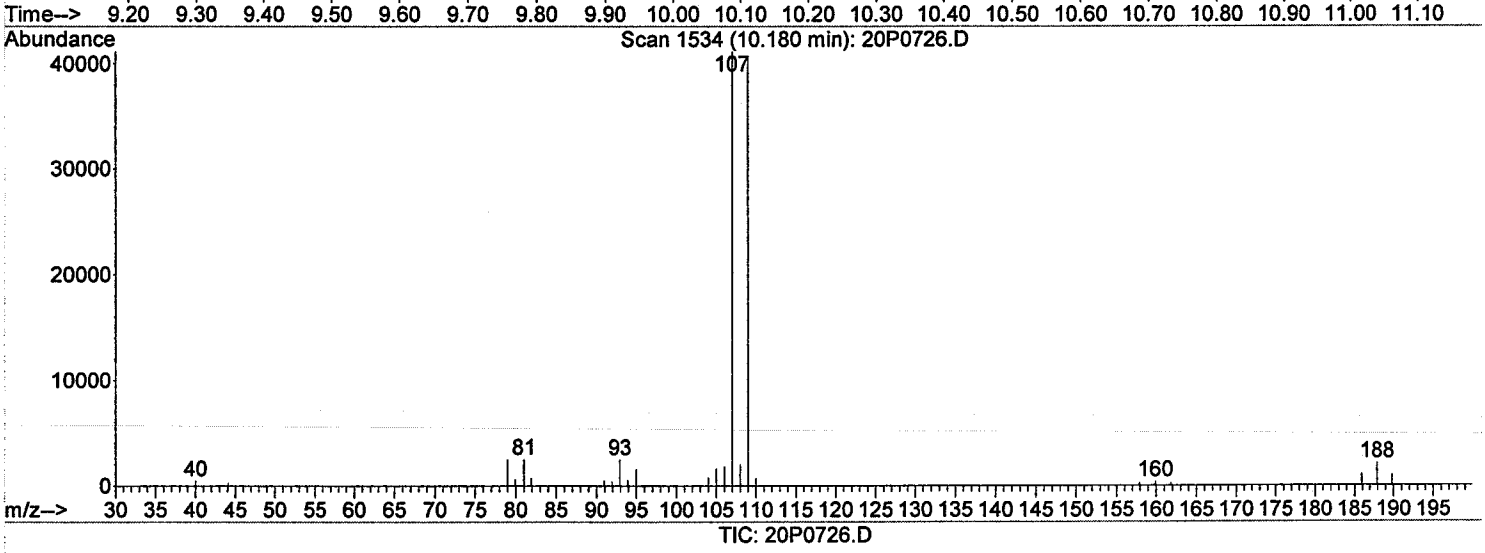
Ion	Exp%	Act%
109.00	100	0.00
107.00	106.50	0.00#
188.00	5.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 20P0726.D
Acq On : 26 Jul 2012 12:55
Operator : DLV
Sample : CAL4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 26 13:14:29 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration





(56) 1,2-dibromoethane

10.180min (-0.000) 20.92ug/L m

response 72725

Ion	Exp%	Act%
109.00	100	100
107.00	106.50	0.00#
188.00	5.20	0.00
0.00	0.00	0.00

Manual Integration Explanation

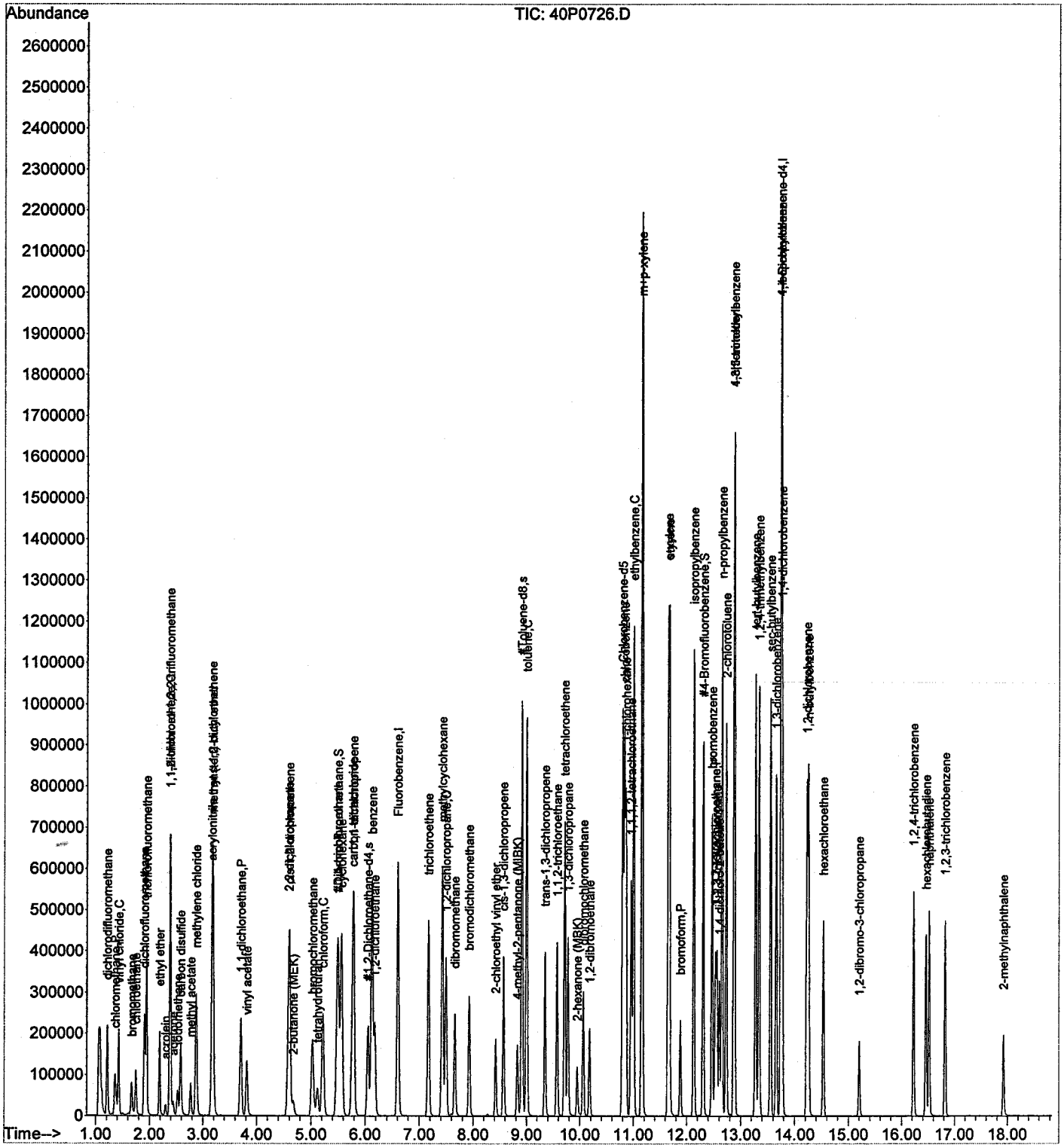
Reason 4: The peak was not integrated during initial quantitation of the sample.

Flagged on Quantitation Report: Yes / No
Analyst: DW Date: 7-27-12
Reviewed By: [illegible] Date: 8-1-12

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 40P0726.D
Acq On : 26 Jul 2012 13:22
Operator : DLV
Sample : CAL5
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 26 13:41:16 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 40P0726.D
Acq On : 26 Jul 2012 13:22
Operator : DLV
Sample : CAL5
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 26 13:41:16 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.60	96	717487	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	596522	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	355721	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	174394	41.47 ug/L	0.00
Spiked Amount 40.000			Recovery	= 103.68%	
37) #1,2-Dichloroethane-d4	6.05	65	207916	43.41 ug/L	0.00
Spiked Amount 40.000			Recovery	= 108.52%	
47) #Toluene-d8	8.91	98	739749	40.44 ug/L	0.00
Spiked Amount 40.000			Recovery	= 101.10%	
65) #4-Bromofluorobenzene	12.30	95	304312	41.12 ug/L	0.00
Spiked Amount 40.000			Recovery	= 102.80%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.21	85	211461	42.93 ug/L	100
3) chloromethane	1.36	50	158036	39.67 ug/L	99
4) vinyl chloride	1.43	62	176121	40.90 ug/L	99
5) bromomethane	1.67	94	61829	43.69 ug/L	100
6) chloroethane	1.74	64	98868	43.02 ug/L	99
7) dichlorofluoromethane	1.90	67	263156	44.78 ug/L	99
8) trichlorofluoromethane	1.94	101	271025	46.56 ug/L	100
9) ethyl ether	2.19	74	70681	41.50 ug/L	99
10) acrolein	2.30	56	21124	36.57 ug/L #	98
11) 1,1,2-trichloro-1,2,2-trif	2.39	101	136868	44.69 ug/L	99
12) 1,1-dichloroethene	2.38	96	125274	43.01 ug/L	94
13) acetone	2.44	43	39979	29.63 ug/L	93
14) iodomethane	2.52	142	94750	36.90 ug/L	96
15) carbon disulfide	2.58	76	254244	45.28 ug/L	100
16) methyl acetate	2.77	43	98395	28.60 ug/L	99
17) methylene chloride	2.87	49	204233	40.58 ug/L	100
18) acrylonitrile	3.16	53	61386	37.50 ug/L	98
19) trans-1,2-dichloroethene	3.17	96	157998	43.16 ug/L	97
20) methyl (tert) butyl ether	3.19	73	416180	43.53 ug/L	99
21) 1,1-dichloroethane	3.71	63	277370	43.89 ug/L	99
22) vinyl acetate	3.82	43	241694	38.35 ug/L	99
23) 2,2-dichloropropane	4.58	77	200456	48.38 ug/L	98
24) cis-1,2-dichloroethene	4.60	96	176910	44.18 ug/L	99
25) 2-butanone (MEK)	4.67	43	58207	35.00 ug/L	93
26) bromochloromethane	5.02	49	132558	41.18 ug/L	98
27) tetrahydrofuran	5.12	71	23122	38.49 ug/L	97
28) chloroform	5.22	83	292183	45.72 ug/L	100
30) 1,1,1-trichloroethane	5.49	97	259564	48.43 ug/L	99
31) cyclohexane	5.57	56	296665	44.07 ug/L	99
32) carbon tetrachloride	5.77	117	246862	50.38 ug/L	100
33) 1,1-dichloropropene	5.78	75	237366	46.48 ug/L	99
34) benzene	6.13	78	681624	43.03 ug/L	97
35) 1,2-dichloroethane	6.17	62	233685	46.80 ug/L	97
36) heptane	6.60	57	22782	No Calib #	
38) trichloroethene	7.17	130	204377	44.69 ug/L	99
39) methylcyclohexane	7.42	83	298506	44.64 ug/L	99
40) 1,2-dichloropropane	7.49	63	159853	42.32 ug/L	99
41) dibromomethane	7.66	93	95620	43.24 ug/L	99

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 40P0726.D
Acq On : 26 Jul 2012 13:22
Operator : DLV
Sample : CAL5
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 26 13:41:16 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration

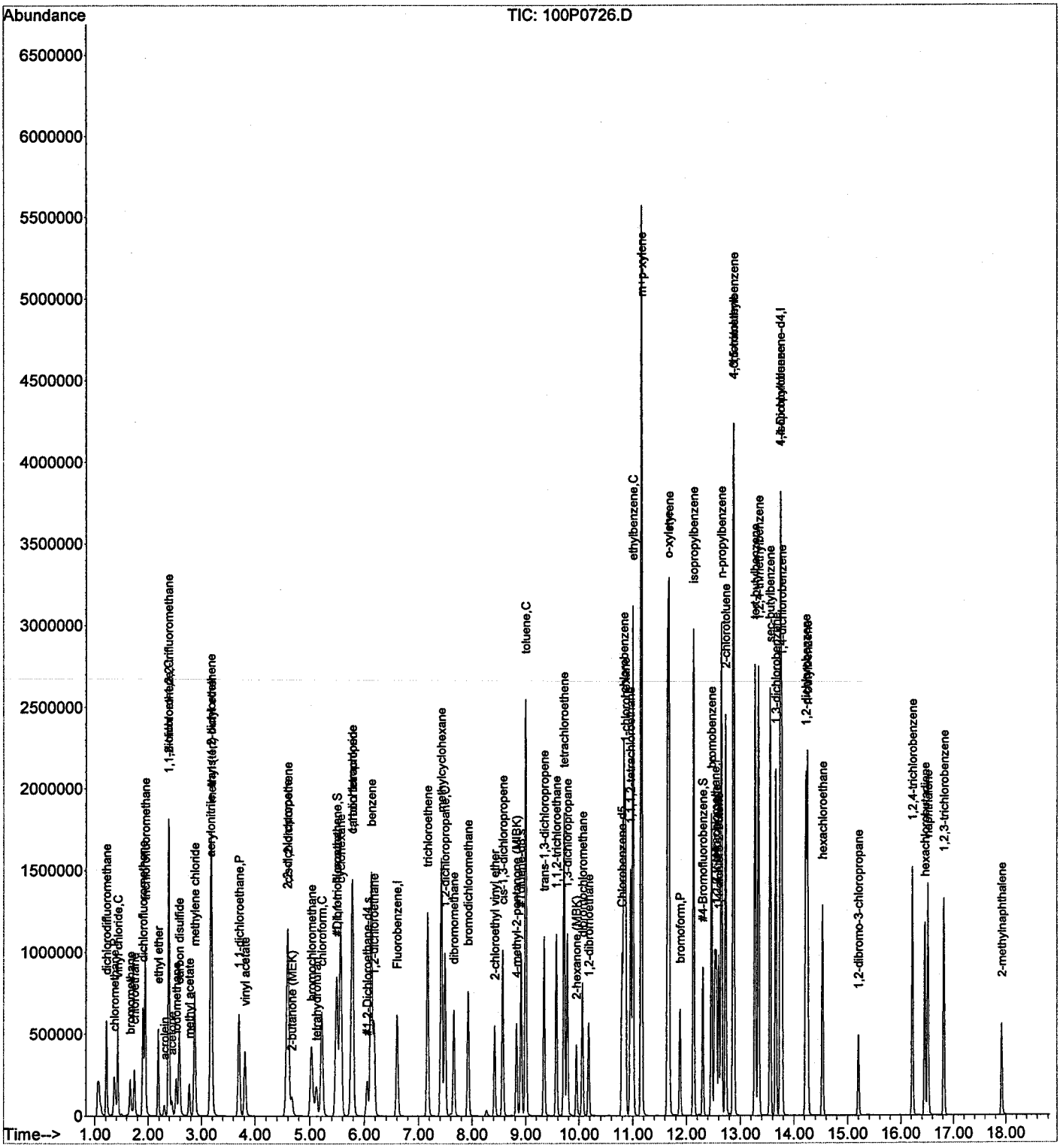
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	7.66	88	274	No Calib #	
43) bromodichloromethane	7.92	83	219564	46.80 ug/L	99
44) 2-chloroethyl vinyl ether	8.42	63	79264	45.33 ug/L	98
45) cis-1,3-dichloropropene	8.57	75	231220	40.38 ug/L	97
46) 4-methyl-2-pentanone (MIBK	8.83	43	127012	36.27 ug/L	100
48) toluene	9.00	91	784711	43.40 ug/L	99
49) trans-1,3-dichloropropene	9.34	75	215893	39.84 ug/L	97
50) 1,1,2-trichloroethane	9.57	83	115580	40.97 ug/L	97
52) tetrachloroethene	9.72	166	252770	44.44 ug/L	100
53) 1,3-dichloropropane	9.78	76	261002	42.31 ug/L	100
54) 2-hexanone (MBK)	9.95	43	91356	32.76 ug/L	98
55) dibromochloromethane	10.06	129	171111	44.54 ug/L	100
56) 1,2-dibromoethane	10.18	109	147364	42.41 ug/L	99
57) chlorobenzene	10.83	112	516771	40.93 ug/L	96
58) 1-chlorohexane	10.86	55	183063	43.83 ug/L	91
59) 1,1,1,2-tetrachloroethane	10.95	131	179629	44.37 ug/L	99
60) ethylbenzene	11.00	91	914106	43.65 ug/L	99
61) m+p-xylene	11.16	106	714357	85.02 ug/L	97
62) o-xylene	11.65	106	332153	42.68 ug/L	100
63) styrene	11.67	104	585899	43.22 ug/L	95
64) bromoform	11.88	173	122326	37.68 ug/L	100
67) isopropylbenzene	12.13	105	804940	42.62 ug/L	98
68) bromobenzene	12.47	77	317193	41.14 ug/L	100
69) 1,1,2,2-tetrachloroethane	12.53	83	196943	36.06 ug/L #	100
70) 1,2,3-trichloropropane	12.56	110	70057	39.42 ug/L	99
71) 1,4-dichloro-2-butene	12.60	53	72309	34.67 ug/L	92
72) n-propylbenzene	12.65	120	237304	42.21 ug/L	96
73) 2-chlorotoluene	12.73	126	202000	40.77 ug/L	99
74) 1,3,5-trimethylbenzene	12.88	105	657713	42.64 ug/L	100
75) 4-chlorotoluene	12.87	126	207290	41.18 ug/L	97
76) tert-butylbenzene	13.28	119	574006	42.85 ug/L	97
77) 1,2,4-trimethylbenzene	13.34	105	653252	42.89 ug/L	99
78) sec-butylbenzene	13.55	105	761185	42.15 ug/L	98
79) 1,3-dichlorobenzene	13.66	146	403585	41.09 ug/L	99
80) 4-isopropyltoluene	13.75	119	644967	41.30 ug/L	97
81) 1,4-dichlorobenzene	13.77	146	409792	39.72 ug/L	98
82) 1,2-dichlorobenzene	14.23	146	380580	40.13 ug/L	98
83) n-butylbenzene	14.26	91	480412	38.50 ug/L	99
84) hexachloroethane	14.53	201	86576	36.92 ug/L #	92
85) 1,2-dibromo-3-chloropropan	15.20	157	60028	36.01 ug/L	95
86) 1,2,4-trichlorobenzene	16.22	180	206835	41.31 ug/L	99
87) hexachlorobutadiene	16.46	225	108532	42.31 ug/L	99
88) naphthalene	16.52	128	456620	34.40 ug/L	99
89) 1,2,3-trichlorobenzene	16.82	180	182652	39.51 ug/L	100
90) 2-methylnaphthalene	17.92	142	112976	32.55 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 100P0726.D
Acq On : 26 Jul 2012 13:49
Operator : DLV
Sample : CAL6
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 26 14:08:01 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 100P0726.D
Acq On : 26 Jul 2012 13:49
Operator : DLV
Sample : CAL6
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 26 14:08:01 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.60	96	718140	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	600457	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	348735	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.50	111	174410	41.44	ug/L	0.00
Spiked Amount 40.000			Recovery	=	103.60%	
37) #1,2-Dichloroethane-d4	6.05	65	207307	43.25	ug/L	0.00
Spiked Amount 40.000			Recovery	=	108.13%	
47) #Toluene-d8	8.91	98	738937	40.36	ug/L	0.00
Spiked Amount 40.000			Recovery	=	100.90%	
65) #4-Bromofluorobenzene	12.30	95	303610	40.75	ug/L	0.00
Spiked Amount 40.000			Recovery	=	101.88%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.21	85	537158	108.95	ug/L	99
3) chloromethane	1.36	50	390697	97.99	ug/L	99
4) vinyl chloride	1.43	62	455318	105.63	ug/L	100
5) bromomethane	1.66	94	187337	130.21	ug/L	98
6) chloroethane	1.74	64	251381	109.29	ug/L	99
7) dichlorofluoromethane	1.90	67	662542	112.64	ug/L	100
8) trichlorofluoromethane	1.94	101	705275	121.06	ug/L	100
9) ethyl ether	2.19	74	186322	109.29	ug/L	99
10) acrolein	2.30	56	56254	97.30	ug/L #	100
11) 1,1,2-trichloro-1,2,2-trif	2.39	101	352443	114.97	ug/L	100
12) 1,1-dichloroethene	2.38	96	326649	112.04	ug/L	95
13) acetone	2.44	43	113921	97.77	ug/L	96
14) iodomethane	2.53	142	348519	119.09	ug/L	97
15) carbon disulfide	2.58	76	762951	135.76	ug/L	100
16) methyl acetate	2.77	43	248237	72.08	ug/L	98
17) methylene chloride	2.87	49	497416	98.75	ug/L	99
18) acrylonitrile	3.16	53	161063	98.29	ug/L	98
19) trans-1,2-dichloroethene	3.17	96	407560	111.23	ug/L	98
20) methyl (tert) butyl ether	3.19	73	1101591	115.12	ug/L	99
21) 1,1-dichloroethane	3.71	63	719272	113.71	ug/L	99
22) vinyl acetate	3.82	43	728433	115.49	ug/L	100
23) 2,2-dichloropropane	4.58	77	538667	129.88	ug/L	98
24) cis-1,2-dichloroethene	4.60	96	453570	113.18	ug/L	98
25) 2-butanone (MEK)	4.67	43	189719	113.98	ug/L	96
26) bromochloromethane	5.03	49	333598	103.55	ug/L	98
27) tetrahydrofuran	5.12	71	62825	104.49	ug/L	96
28) chloroform	5.22	83	753682	117.82	ug/L	99
30) 1,1,1-trichloroethane	5.49	97	690776	128.78	ug/L	99
31) cyclohexane	5.57	56	774467	114.94	ug/L	98
32) carbon tetrachloride	5.77	117	655644	133.69	ug/L	100
33) 1,1-dichloropropene	5.78	75	618639	121.02	ug/L	99
34) benzene	6.13	78	1759680	110.99	ug/L	97
35) 1,2-dichloroethane	6.17	62	601455	120.33	ug/L	97
36) heptane	6.60	57	23041	No Calib	#	
38) trichloroethene	7.17	130	527295	115.20	ug/L	99
39) methylcyclohexane	7.42	83	779904	116.52	ug/L	98
40) 1,2-dichloropropane	7.49	63	409361	108.27	ug/L	99
41) dibromomethane	7.66	93	250203	113.05	ug/L	100

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 100P0726.D
Acq On : 26 Jul 2012 13:49
Operator : DLV
Sample : CAL6
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 26 14:08:01 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration

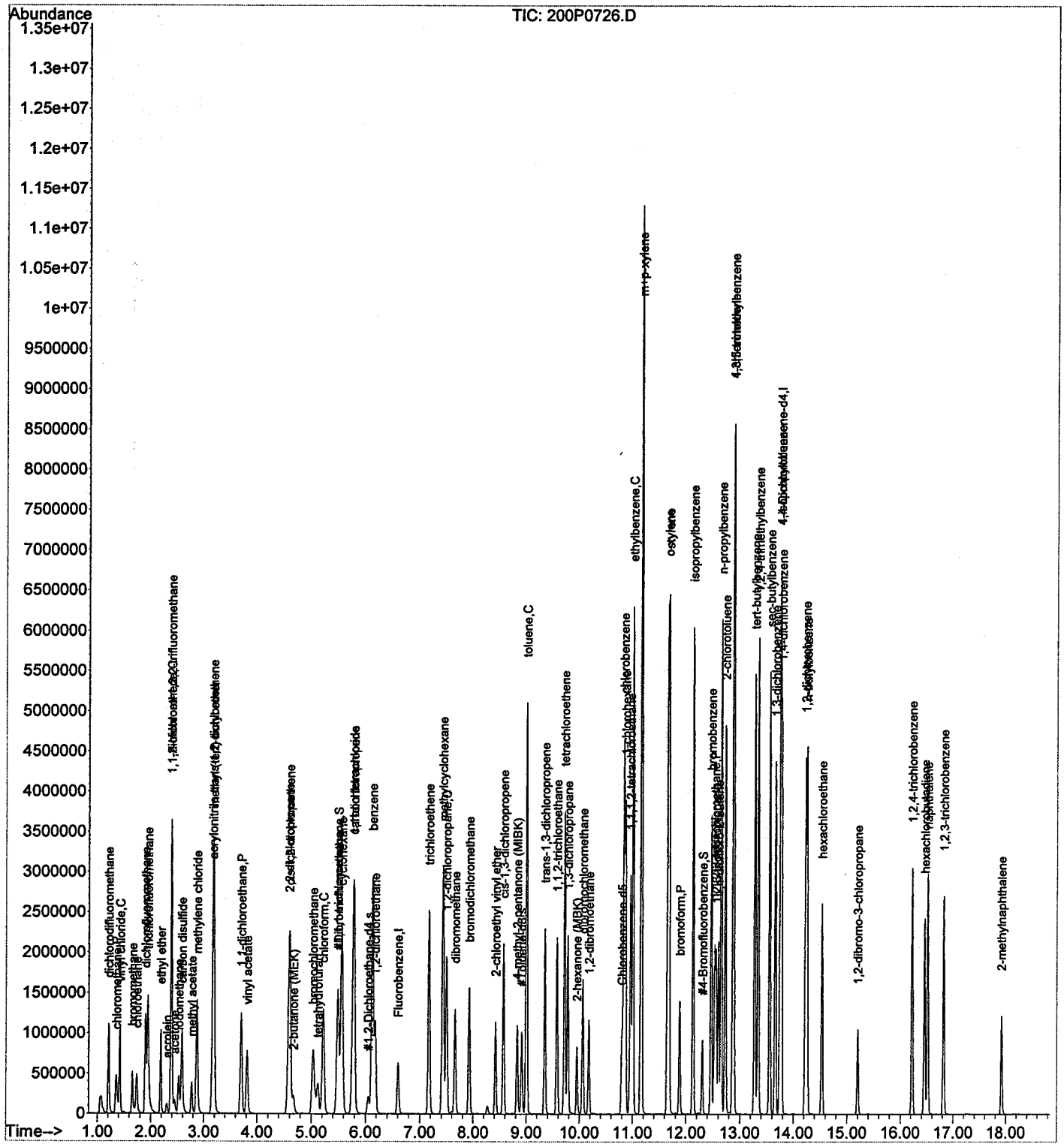
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	7.66	88	1021	No Calib #	
43) bromodichloromethane	7.92	83	576709	122.82 ug/L	100
44) 2-chloroethyl vinyl ether	8.42	63	248993	134.74 ug/L	99
45) cis-1,3-dichloropropene	8.57	75	624810	105.68 ug/L	97
46) 4-methyl-2-pentanone (MIBK	8.83	43	418019	119.27 ug/L	100
48) toluene	9.00	91	2025123	111.91 ug/L	99
49) trans-1,3-dichloropropene	9.35	75	604966	106.70 ug/L	98
50) 1,1,2-trichloroethane	9.57	83	304919	107.99 ug/L	99
52) tetrachloroethene	9.72	166	648115	113.20 ug/L	99
53) 1,3-dichloropropane	9.78	76	669405	107.81 ug/L	100
54) 2-hexanone (MBK)	9.95	43	311561	103.58 ug/L	99
55) dibromochloromethane	10.06	129	462925	119.72 ug/L	100
56) 1,2-dibromoethane	10.18	109	387473	110.78 ug/L	98
57) chlorobenzene	10.83	112	1325485	104.29 ug/L	98
58) 1-chlorohexane	10.86	55	469968	111.79 ug/L	94
59) 1,1,1,2-tetrachloroethane	10.95	131	472012	115.82 ug/L	98
60) ethylbenzene	11.00	91	2369161	112.39 ug/L	99
61) m+p-xylene	11.16	106	1819819	215.17 ug/L	99
62) o-xylene	11.66	106	859124	109.68 ug/L	100
63) styrene	11.67	104	1498476	109.82 ug/L	94
64) bromoform	11.88	173	341113	99.52 ug/L	100
67) isopropylbenzene	12.13	105	2133340	115.21 ug/L	99
68) bromobenzene	12.47	77	812932	107.54 ug/L	99
69) 1,1,2,2-tetrachloroethane	12.53	83	501801	93.72 ug/L #	99
70) 1,2,3-trichloropropane	12.56	110	182178	104.56 ug/L	98
71) 1,4-dichloro-2-butene	12.60	53	210813	97.76 ug/L	99
72) n-propylbenzene	12.66	120	610435	110.76 ug/L	100
73) 2-chlorotoluene	12.73	126	519137	106.88 ug/L	99
74) 1,3,5-trimethylbenzene	12.89	105	1702177	112.57 ug/L	99
75) 4-chlorotoluene	12.87	126	531447	107.69 ug/L	98
76) tert-butylbenzene	13.28	119	1503398	114.48 ug/L	97
77) 1,2,4-trimethylbenzene	13.34	105	1710727	114.57 ug/L	100
78) sec-butylbenzene	13.55	105	2013065	113.70 ug/L	99
79) 1,3-dichlorobenzene	13.66	146	1040370	108.06 ug/L	99
80) 4-isopropyltoluene	13.75	119	1710015	111.68 ug/L	98
81) 1,4-dichlorobenzene	13.78	146	1054993	104.31 ug/L	99
82) 1,2-dichlorobenzene	14.23	146	995247	107.06 ug/L	99
83) n-butylbenzene	14.26	91	1288241	101.94 ug/L	99
84) hexachloroethane	14.53	201	251935	101.38 ug/L	97
85) 1,2-dibromo-3-chloropropan	15.20	157	169027	103.41 ug/L	98
86) 1,2,4-trichlorobenzene	16.22	180	564922	115.10 ug/L	99
87) hexachlorobutadiene	16.46	225	286857	114.08 ug/L	100
88) naphthalene	16.51	128	1265530	91.58 ug/L	99
89) 1,2,3-trichlorobenzene	16.82	180	492557	108.67 ug/L	100
90) 2-methylnaphthalene	17.92	142	322928	90.57 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 200P0726.D
Acq On : 26 Jul 2012 14:42
Operator : DLV
Sample : CAL7
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 26 15:01:34 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration



01121

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 200P0726.D
Acq On : 26 Jul 2012 14:42
Operator : DLV
Sample : CAL7
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 26 15:01:34 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.60	96	725453	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	603540	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	347408	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.50	111	174753	41.10	ug/L	0.00
Spiked Amount 40.000			Recovery	=	102.75%	
37) #1,2-Dichloroethane-d4	6.05	65	208072	42.97	ug/L	0.00
Spiked Amount 40.000			Recovery	=	107.43%	
47) #Toluene-d8	8.91	98	749320	40.51	ug/L	0.00
Spiked Amount 40.000			Recovery	=	101.28%	
65) #4-Bromofluorobenzene	12.30	95	308262	41.17	ug/L	0.00
Spiked Amount 40.000			Recovery	=	102.93%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.21	85	1062662	213.36	ug/L	99
3) chloromethane	1.36	50	766766	190.36	ug/L	100
4) vinyl chloride	1.43	62	888369	204.01	ug/L	99
5) bromomethane	1.66	94	368470	252.57	ug/L	100
6) chloroethane	1.74	64	481292	207.13	ug/L	99
7) dichlorofluoromethane	1.90	67	1320800	222.28	ug/L	100
8) trichlorofluoromethane	1.94	101	1432437	243.40	ug/L	100
9) ethyl ether	2.19	74	371323	215.61	ug/L	99
10) acrolein	2.30	56	110600	189.36	ug/L	97
11) 1,1,2-trichloro-1,2,2-trif	2.39	101	708418	228.76	ug/L	100
12) 1,1-dichloroethene	2.38	96	645056	219.03	ug/L	93
13) acetone	2.45	43	217802	191.53	ug/L	95
14) iodomethane	2.52	142	745083	245.14	ug/L	96
15) carbon disulfide	2.58	76	1604943	282.70	ug/L	100
16) methyl acetate	2.77	43	504338	144.97	ug/L	98
17) methylene chloride	2.87	49	971154	190.85	ug/L	99
18) acrylonitrile	3.16	53	321987	194.52	ug/L	99
19) trans-1,2-dichloroethene	3.17	96	815539	220.33	ug/L	99
20) methyl (tert) butyl ether	3.19	73	2225437	230.22	ug/L	99
21) 1,1-dichloroethane	3.71	63	1450717	227.03	ug/L	100
22) vinyl acetate	3.82	43	1430205	224.47	ug/L	99
23) 2,2-dichloropropane	4.58	77	1087883	259.65	ug/L	97
24) cis-1,2-dichloroethene	4.60	96	910065	224.79	ug/L	98
25) 2-butanone (MEK)	4.68	43	362902	215.83	ug/L	96
26) bromochloromethane	5.03	49	656072	201.59	ug/L	97
27) tetrahydrofuran	5.12	71	131269	216.12	ug/L	97
28) chloroform	5.22	83	1519394	235.13	ug/L	100
30) 1,1,1-trichloroethane	5.49	97	1404429	259.19	ug/L	100
31) cyclohexane	5.57	56	1560866	229.32	ug/L	98
32) carbon tetrachloride	5.77	117	1339504	270.39	ug/L	100
33) 1,1-dichloropropene	5.79	75	1248125	241.69	ug/L	99
34) benzene	6.13	78	3539106	220.98	ug/L	97
35) 1,2-dichloroethane	6.18	62	1194772	236.63	ug/L	98
36) heptane	6.60	57	22496	No Calib	#	
38) trichloroethene	7.17	130	1065579	230.46	ug/L	99
39) methylcyclohexane	7.42	83	1578779	233.51	ug/L	99
40) 1,2-dichloropropane	7.49	63	823410	215.59	ug/L	100
41) dibromomethane	7.66	93	499295	223.32	ug/L	100

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : 200P0726.D
Acq On : 26 Jul 2012 14:42
Operator : DLV
Sample : CAL7
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 26 15:01:34 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Mon Jul 23 09:14:49 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	7.66	88	2464	No Calib #	
43) bromodichloromethane	7.93	83	1171127	246.90 ug/L	99
44) 2-chloroethyl vinyl ether	8.42	63	507354	268.21 ug/L	99
45) cis-1,3-dichloropropene	8.57	75	1285996	213.28 ug/L	98
46) 4-methyl-2-pentanone (MIBK	8.83	43	817196	230.82 ug/L	100
48) toluene	9.00	91	4066141	222.44 ug/L	100
49) trans-1,3-dichloropropene	9.35	75	1257636	216.75 ug/L	99
50) 1,1,2-trichloroethane	9.57	83	607248	212.90 ug/L	99
52) tetrachloroethene	9.72	166	1311643	227.92 ug/L	99
53) 1,3-dichloropropane	9.78	76	1346097	215.68 ug/L	100
54) 2-hexanone (MBK)	9.95	43	595427	194.15 ug/L	100
55) dibromochloromethane	10.06	129	959520	246.87 ug/L	100
56) 1,2-dibromoethane	10.18	109	785200	223.34 ug/L	99
57) chlorobenzene	10.83	112	2654331	207.77 ug/L	98
58) 1-chlorohexane	10.86	55	928853	219.82 ug/L	96
59) 1,1,1,2-tetrachloroethane	10.96	131	952375	232.49 ug/L	98
60) ethylbenzene	11.00	91	4823303	227.64 ug/L	100
61) m+p-xylene	11.16	106	3588560	422.14 ug/L	98
62) o-xylene	11.66	106	1706813	216.79 ug/L	98
63) styrene	11.68	104	2996853	218.51 ug/L	94
64) bromoform	11.88	173	732009	209.35 ug/L	99
67) isopropylbenzene	12.13	105	4370713	236.95 ug/L	100
68) bromobenzene	12.47	77	1646297	218.61 ug/L	99
69) 1,1,2,2-tetrachloroethane	12.53	83	999807	187.44 ug/L #	99
70) 1,2,3-trichloropropane	12.56	110	360806	207.88 ug/L	99
71) 1,4-dichloro-2-butene	12.61	53	448703	205.79 ug/L	95
72) n-propylbenzene	12.66	120	1230401	224.10 ug/L	98
73) 2-chlorotoluene	12.73	126	1056534	218.36 ug/L	99
74) 1,3,5-trimethylbenzene	12.89	105	3464163	229.96 ug/L	98
75) 4-chlorotoluene	12.87	126	1052177	214.02 ug/L	99
76) tert-butylbenzene	13.28	119	3090148	236.20 ug/L	98
77) 1,2,4-trimethylbenzene	13.34	105	3520303	236.67 ug/L	99
78) sec-butylbenzene	13.56	105	4182247	237.12 ug/L	100
79) 1,3-dichlorobenzene	13.66	146	2121362	221.17 ug/L	99
80) 4-isopropyltoluene	13.75	119	3505862	229.84 ug/L	98
81) 1,4-dichlorobenzene	13.78	146	2124098	210.81 ug/L	99
82) 1,2-dichlorobenzene	14.23	146	2026322	218.80 ug/L	99
83) n-butylbenzene	14.26	91	2645823	208.11 ug/L	99
84) hexachloroethane	14.53	201	547640	216.29 ug/L	99
85) 1,2-dibromo-3-chloropropan	15.20	157	357884	219.80 ug/L	98
86) 1,2,4-trichlorobenzene	16.23	180	1168199	238.91 ug/L	99
87) hexachlorobutadiene	16.46	225	585435	233.71 ug/L	100
88) naphthalene	16.51	128	2687680	191.73 ug/L	99
89) 1,2,3-trichlorobenzene	16.82	180	1015551	224.92 ug/L	99
90) 2-methylnaphthalene	17.92	142	669421	186.01 ug/L	99

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

INITIAL CALIBRATION DATA
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2H10001

SDG: KNM070512

Project: KNM

Calibration Date: 08/08/12 00:00

Instrument: 323

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	1	~~0.7965946~~	5	0.1962861	10	0.1253015	20	8.720046E-02	40	7.538756E-02	100	6.386312E-02
Benzene	1	0.9500554	5	0.9268447	10	0.9499349	20	0.9585699	40	0.9611115	100	1.024637
Bromodichloromethane	1	0.232565	5	0.2583796	10	0.2755284	20	0.2895409	40	0.3013791	100	0.3286499
Bromoform	1	0.1038741	5	0.1265136	10	0.1498252	20	0.1730084	40	0.1921044	100	0.226002
Bromomethane	1	0.1302196	5	0.1155989	10	0.1104828	20	0.1145241	40	0.1196922	100	0.1266645
Carbon Disulfide	1	0.5772009	5	0.5565282	10	0.6409947	20	0.5904437	40	0.6339386	100	0.7312513
Carbon Tetrachloride	1	0.2591373	5	0.2584715	10	0.2873773	20	0.3006602	40	0.3128672	100	0.3461361
Chlorobenzene	1	0.8860792	5	0.8710553	10	0.9080202	20	0.9124575	40	0.9197711	100	0.9940988
Chloroethane	1	0.2195852	5	0.1907471	10	0.1930285	20	0.1925051	40	0.1901596	100	0.1913513
Chloroform	1	0.4504655	5	0.3962418	10	0.3992859	20	0.4007737	40	0.4020577	100	0.4211661
Chloromethane	1	0.3192122	5	0.2919737	10	0.2893559	20	0.2837455	40	0.2822068	100	0.2891701
Cyclohexane	1	0.3748838	5	0.3817623	10	0.4054048	20	0.4037398	40	0.4023282	100	0.4338917
1,2-Dibromo-3-chloropropane	1	7.802633E-02	5	8.141401E-02	10	0.0922569	20	0.1013555	40	0.1087307	100	0.1217626
Dibromochloromethane	1	0.1868794	5	0.2050734	10	0.2360327	20	0.2572316	40	0.2722398	100	0.3061604
1,2-Dibromoethane	1	0.1988649	5	0.2024538	10	0.2190213	20	0.2270169	40	0.2274845	100	0.2390451
1,2-Dichlorobenzene	1	1.191757	5	1.106142	10	1.129838	20	1.159908	40	1.163193	100	1.270107
1,3-Dichlorobenzene	1	1.290245	5	1.234481	10	1.247237	20	1.274495	40	1.281851	100	1.401134
1,4-Dichlorobenzene	1	1.375617	5	1.252747	10	1.271259	20	1.308323	40	1.331218	100	1.516101
Dichlorodifluoromethane	1	0.2428647	5	0.2585022	10	0.2678198	20	0.2675912	40	0.2740476	100	0.2848245
1,1-Dichloroethane	1	0.4024133	5	0.4218837	10	0.4173948	20	0.4280897	40	0.4286333	100	0.454055
1,2-Dichloroethane	1	0.3091423	5	0.3029598	10	0.3020588	20	0.3135425	40	0.3075256	100	0.3219634
1,1-Dichloroethene	1	0.2496418	5	0.2431952	10	0.264484	20	0.2587181	40	0.2583838	100	0.2785109
cis-1,2-Dichloroethene	1	0.2379254	5	0.2523196	10	0.2563178	20	0.255754	40	0.2591446	100	0.2755466
trans-1,2-Dichloroethene	1	0.2695136	5	0.2560276	10	0.2651587	20	0.2793976	40	0.2779203	100	0.2962618
1,2-Dichloropropane	1	0.216369	5	0.2233529	10	0.2243358	20	0.2302685	40	0.2315282	100	0.2503011
cis-1,3-Dichloropropene	1	0.2569166	5	0.2933067	10	0.3207661	20	0.3363815	40	0.3431884	100	0.3800758
trans-1,3-Dichloropropene	1	0.2167136	5	0.2544265	10	0.2811288	20	0.3052603	40	0.3192908	100	0.3602989
Ethylbenzene	1	1.449726	5	1.447792	10	1.506489	20	1.524081	40	1.5516	100	1.703604
2-Hexanone	1	0.1799232	5	0.1234511	10	0.1507716	20	0.1995414	40	0.1483392	100	0.1652391
Isopropylbenzene	1	2.297917	5	2.085943	10	2.177315	20	2.23675	40	2.222532	100	2.422696
Methyl Acetate	1	~~0.2574909~~	5	0.1585396	10	0.1482597	20	0.158797	40	0.1501338	100	0.1569905

INITIAL CALIBRATION DATA
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2H10001

SDG: KNM070512

Project: KNM

Calibration Date: 08/08/12 00:00

Instrument: 323

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl tert-Butyl Ether	1	0.5623832	5	0.5463465	10	0.5800996	20	0.613656	40	0.6106853	100	0.6460911
Methylcyclohexane	1	0.35103	5	0.3664093	10	0.3960454	20	0.4036089	40	0.4024477	100	0.4369527
Methylene Chloride	1	0.7068844	5	0.3813716	10	0.3606818	20	0.3423501	40	0.3289028	100	0.3375513
2-Butanone (MEK)	1	~~0.1652537~~	5	7.918554E-02	10	8.397532E-02	20	8.244057E-02	40	7.378859E-02	100	8.356571E-02
4-Methyl-2-pentanone (MIBK)	1	~~0.3539399~~	5	0.1808948	10	0.1874891	20	0.2176961	40	0.1703278	100	0.1911407
Styrene	1	0.955877	5	0.9788547	10	1.047273	20	1.066964	40	1.105117	100	1.216151
1,1,2,2-Tetrachloroethane	1	0.4541417	5	0.4392927	10	0.4633699	20	0.4792685	40	0.4441049	100	0.4772036
Tetrachloroethene	1	0.4162955	5	0.3732179	10	0.3917502	20	0.3957814	40	0.4026282	100	0.4323141
Toluene	1	1.020774	5	1.011194	10	1.03367	20	1.051325	40	1.057815	100	1.158362
1,2,4-Trichlorobenzene	1	0.7289203	5	0.5629048	10	0.585345	20	0.6015432	40	0.6117758	100	0.6828893
1,1,1-Trichloroethane	1	0.3198631	5	0.3156313	10	0.3389664	20	0.3445847	40	0.3517739	100	0.383021
1,1,2-Trichloroethane	1	0.1410553	5	0.1424053	10	0.1503832	20	0.1539756	40	0.1500315	100	0.1629675
Trichloroethene	1	0.2490291	5	0.2548631	10	0.2591352	20	0.2638322	40	0.2784603	100	0.2957591
Trichlorofluoromethane	1	0.3772194	5	0.3834937	10	0.3953249	20	0.4144086	40	0.4146182	100	0.4433147
1,1,2-Trichloro-1,2,2-trifluoro	1	0.211736	5	0.2190473	10	0.2428716	20	0.2318699	40	0.2280961	100	0.2522479
Vinyl Chloride	1	0.3188293	5	0.314712	10	0.3301332	20	0.3256934	40	0.3309099	100	0.3458212
Xylene (Total)	3	0.587539	15	0.5827389	30	0.6022857	60	0.6158057	120	0.6329621	300	0.7060342
Dibromofluoromethane	40	0.2383122	40	0.2382988	40	0.2408176	40	0.240717	40	0.2408994	40	0.2448163
1,2-Dichloroethane-d4	40	0.1476696	40	0.1495914	40	0.1458503	40	0.1485555	40	0.1479365	40	0.1477314
Toluene-d8	40	0.9887929	40	0.9920707	40	0.992462	40	0.9987547	40	0.9869789	40	0.9967068
4-Bromofluorobenzene	40	0.5098281	40	0.5100131	40	0.5113763	40	0.5057254	40	0.5115409	40	0.5041767

INITIAL CALIBRATION DATA (Continued)
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2H10001

SDG: KNM070512
Project: KNM
Calibration Date: 08/08/12 00:00
Instrument: 323

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	200	5.918928E-02										
Benzene	200	1.033719										
Bromodichloromethane	200	0.3379483										
Bromoform	200	0.2412581										
Bromomethane	200	0.1160207										
Carbon Disulfide	200	0.7654673										
Carbon Tetrachloride	200	0.3527018										
Chlorobenzene	200	1.050737										
Chloroethane	200	0.1652808										
Chloroform	200	0.4245541										
Chloromethane	200	0.2750428										
Cyclohexane	200	0.4330133										
1,2-Dibromo-3-chloropropane	200	0.1235343										
Dibromochloromethane	200	0.316865										
1,2-Dibromoethane	200	0.2428916										
1,2-Dichlorobenzene	200	1.309059										
1,3-Dichlorobenzene	200	1.461186										
1,4-Dichlorobenzene	200	1.602618										
Dichlorodifluoromethane	200	0.2744753										
1,1-Dichloroethane	200	0.4551118										
1,2-Dichloroethane	200	0.3215852										
1,1-Dichloroethene	200	0.274961										
cis-1,2-Dichloroethene	200	0.2794576										
trans-1,2-Dichloroethene	200	0.2800218										
1,2-Dichloropropane	200	0.2533834										
cis-1,3-Dichloropropene	200	0.3933464										
trans-1,3-Dichloropropene	200	0.3737905										
Ethylbenzene	200	1.793898										
2-Hexanone	200	0.1748993										
Isopropylbenzene	200	2.509743										
Methyl Acetate	200	0.1541201										

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INITIAL CALIBRATION DATA (Continued)
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2H10001

SDG: KNM070512
Project: KNM
Calibration Date: 08/08/12 00:00
Instrument: 323

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl tert-Butyl Ether	200	0.6366241										
Methylcyclohexane	200	0.4370105										
Methylene Chloride	200	0.3285427										
2-Butanone (MEK)	200	8.828784E-02										
4-Methyl-2-pentanone (MIBK)	200	0.2071181										
Styrene	200	1.301883										
1,1,2,2-Tetrachloroethane	200	0.4746292										
Tetrachloroethene	200	0.4435243										
Toluene	200	1.21039										
1,2,4-Trichlorobenzene	200	0.7161407										
1,1,1-Trichloroethane	200	0.3859134										
1,1,2-Trichloroethane	200	0.1677266										
Trichloroethene	200	0.3045266										
Trichlorofluoromethane	200	0.4398553										
1,1,2-Trichloro-1,2,2-trifluoroe	200	0.2516334										
Vinyl Chloride	200	0.337047										
Xylene (Total)	600	0.7515256										
Dibromofluoromethane	40	0.2510591										
1,2-Dichloroethane-d4	40	0.1501546										
Toluene-d8	40	1.015159										
4-Bromofluorobenzene	40	0.5058946										

INITIAL CALIBRATION DATA (Continued)
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2H10001

SDG: KNM070512
Project: KNM
Calibration Date: 08/08/12 00:00
Instrument: 323

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	Limit	Q
Acetone	0.1012047	51.61508	1.84	1.078331E-02	0.99975		0.99	
Benzene	0.9721246	4.175577	4.868571	7.551056E-02			15	
Bromodichloromethane	0.2891416	12.96016	6.98	1.893752E-02			15	
Bromoform	0.1732265	29.16015	11.03	1.449809E-02	0.99839		SPCC (0.1)	
Bromomethane	0.119029	5.921945	1.23	2.003847E-02			15	
Carbon Disulfide	0.6422607	12.29897	1.91	9.25749E-03			15	
Carbon Tetrachloride	0.3024788	12.5038	4.457143	0.1078172			15	
Chlorobenzene	0.9346027	6.884058	9.96	1.388277E-02			SPCC (0.3)	
Chloroethane	0.1918082	8.191767	1.282857	0.3806538			15	
Chloroform	0.4135064	4.776022	3.997143	0.1221907			CCC (30)	
Chloromethane	0.290101	4.837913	1.011429	0.3737992			SPCC (0.1)	
Cyclohexane	0.4050034	5.58999	4.232857	0.115994			15	
1,2-Dibromo-3-chloropropane	0.1010115	18.014	14.33	1.783937E-02	0.99957		0.99	
Dibromochloromethane	0.2543546	19.15096	9.208571	4.655142E-02	0.99935		0.99	
1,2-Dibromoethane	0.2223969	7.584912	9.3	1.619965E-02			15	
1,2-Dichlorobenzene	1.190001	6.219899	13.34143	1.843936E-02			15	
1,3-Dichlorobenzene	1.312947	6.461828	12.78143	3.670268E-02			15	
1,4-Dichlorobenzene	1.379698	9.525674	12.90143	2.646547E-02			15	
Dichlorodifluoromethane	0.2671608	5.019117	0.8885714	0.4250467			15	
1,1-Dichloroethane	0.4296545	4.456446	2.794286	0.1907296			SPCC (0.1)	
1,2-Dichloroethane	0.3112539	2.617897	4.972857	9.663416E-02			15	
1,1-Dichloroethene	0.2611278	4.873304	1.77	1.581199E-02			CCC (30)	
cis-1,2-Dichloroethene	0.2594951	5.443279	3.498571	0.1082696			15	
trans-1,2-Dichloroethene	0.2749002	4.677358	2.378572	0.1591203			15	
1,2-Dichloropropane	0.2327913	5.995661	6.48	2.261164E-02			CCC (30)	
cis-1,3-Dichloropropene	0.3319974	14.27689	7.667143	6.184252E-02			15	
trans-1,3-Dichloropropene	0.3015585	18.57882	8.5	6.764523E-02	0.99928		0.99	
Ethylbenzene	1.56817	8.389004	10.14143	4.158209E-02			CCC (30)	
2-Hexanone	0.1631664	15.21244	9.135715	5.758222E-02	0.99812		0.99	
Isopropylbenzene	2.278985	6.379693	11.28	1.254029E-02			15	
Methyl Acetate	0.1544734	2.882447	2.088333	0.1959138			15	
Methyl tert-Butyl Ether	0.5994122	6.262132	2.388572	0.1582931			15	

INITIAL CALIBRATION DATA (Continued)
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2H10001

SDG: KNM070512
Project: KNM
Calibration Date: 08/08/12 00:00
Instrument: 323

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	Limit	Q
Methylcyclohexane	0.3990721	8.113505	6.34	1.183008E-02			15	
Methylene Chloride	0.3980407	34.54282	2.15	4.906081E-03	0.99984		0.99	
2-Butanone (MEK)	8.187393E-02	6.016821	3.588333	0.1148268			15	
4-Methyl-2-pentanone (MIBK)	0.1924444	9.005556	7.961667	4.877208E-02			15	
Styrene	1.096017	11.38862	10.83	1.916913E-02			15	
1,1,2,2-Tetrachloroethane	0.4617158	3.523238	11.72429	5.163493E-02			SPCC (0.3)	
Tetrachloroethene	0.4079302	5.982893	8.801429	4.069081E-02			15	
Toluene	1.077647	7.067687	8.084286	6.829545E-02			CCC (30)	
1,2,4-Trichlorobenzene	0.6413599	10.40831	15.31714	3.403988E-02			15	
1,1,1-Trichloroethane	0.3485363	7.951906	4.197143	0.1146791			15	
1,1,2-Trichloroethane	0.1526493	6.479052	8.721429	4.553078E-02			15	
Trichloroethene	0.2722294	7.817458	6.1	8.817192E-03			15	
Trichlorofluoromethane	0.4097478	6.328173	1.43	2.272325E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2339289	6.716689	1.77	1.581199E-02			15	
Vinyl Chloride	0.3290209	3.214502	1.04	0.0180295			CCC (30)	
Xylene (Total)	0.6398416	10.06547	10.79286	4.883688E-02			15	
Dibromofluoromethane	0.2421315	1.857998	4.26	9.184869E-03			15	
1,2-Dichloroethane-d4	0.1482128	0.9531944	4.828571	7.825766E-02			15	
Toluene-d8	0.9958464	0.9493849	7.99	1.225973E-02			15	
4-Bromofluorobenzene	0.508365	0.5934789	11.45	1.444892E-02			15	

Response Factor Report 323

2H10001

Method Path : C:\MSDCHEM\1\METHODS\
Method File : 8260B-A168.M
Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
Last Update : Thu Aug 16 11:13:31 2012
Response Via : Initial Calibration

Calibration Files
1 =1P0808.D 2 =5P0808.D 3 =10P0808.D
4 =20P0808.D 5 =40P0808.D 6 =100P0808.D
7 =200P0808.D

		Compound	1	2	3	4	5	6	7	Avg	%RSD
1)	I	Fluorobenzene		----------ISTD----------							
2)		dichlorodifluor	0.243	0.259	0.268	0.268	0.274	0.285	0.274	0.267	5.02
3)	P	chloromethane	0.319	0.292	0.289	0.284	0.282	0.289	0.275	0.290	4.84
4)	C	vinyl chloride	0.319	0.315	0.330	0.326	0.331	0.346	0.337	0.329	3.21#
5)		bromomethane	0.130	0.116	0.110	0.115	0.120	0.127	0.116	0.119	5.92
6)		chloroethane	0.220	0.191	0.193	0.193	0.190	0.191	0.165	0.192	8.19
7)		dichlorofluorom	0.464	0.439	0.450	0.446	0.445	0.466	0.457	0.452	2.25
8)		trichlorofluoro	0.377	0.383	0.395	0.414	0.415	0.443	0.440	0.410	6.33
9)		ethyl ether	0.121	0.126	0.131	0.138	0.135	0.144	0.143	0.134	6.47
10)		acrolein	0.034	0.032	0.034	0.036	0.032	0.034	0.033	0.034	3.29
11)		1,1,2-trichloro	0.212	0.219	0.243	0.232	0.228	0.252	0.252	0.234	6.72
12)	C	1,1-dichloroeth	0.250	0.243	0.264	0.259	0.258	0.279	0.275	0.261	4.87#
13)		acetone		0.196	0.125	0.087	0.075	0.064	0.059	-----	
								L	M=	0.056	R=1.000
									B=	0.018	
14)		iodomethane	0.036	0.128	0.215	0.233	0.292	0.368	0.384	-----	
								L	M=	0.391	R=0.998
									B=	-0.051	
15)		carbon disulfid	0.577	0.557	0.641	0.590	0.634	0.731	0.765	0.642	12.30
16)		methyl acetate		0.159	0.148	0.159	0.150	0.157	0.154	0.154	2.88
17)		methylene chlor	0.707	0.381	0.361	0.342	0.329	0.338	0.329	-----	
								L	M=	0.328	R=1.000
									B=	0.008	
18)		acrylonitrile	0.085	0.071	0.077	0.083	0.081	0.083	0.082	0.080	6.09
19)		trans-1,2-dichl	0.270	0.256	0.265	0.279	0.278	0.296	0.280	0.275	4.68
20)		methyl (tert) b	0.562	0.546	0.580	0.614	0.611	0.646	0.637	0.599	6.26
21)	P	1,1-dichloroeth	0.402	0.422	0.417	0.428	0.429	0.454	0.455	0.430	4.46
22)		vinyl acetate	0.408	0.389	0.476	0.435	0.325	0.436	0.428	0.414	11.45
23)		2,2-dichloropro	0.292	0.277	0.288	0.295	0.272	0.302	0.296	0.289	3.67
24)		cis-1,2-dichlor	0.238	0.252	0.256	0.256	0.259	0.276	0.279	0.259	5.44
25)		2-butanone (MEK		0.079	0.084	0.082	0.074	0.084	0.088	0.082	6.02
26)		bromochlorometh	0.194	0.204	0.199	0.205	0.202	0.208	0.204	0.202	2.15
27)		tetrahydrofuran		0.018	0.019	0.019	0.019	0.020	0.021	0.019	4.82
28)	C	chloroform	0.450	0.396	0.399	0.401	0.402	0.421	0.425	0.414	4.78#
29)		1,1,1-trichloro	0.320	0.316	0.339	0.345	0.352	0.383	0.386	0.349	7.95
30)	S	#Dibromofluorom	0.238	0.238	0.241	0.241	0.241	0.245	0.251	0.242	1.86
31)		cyclohexane	0.375	0.382	0.405	0.404	0.402	0.434	0.433	0.405	5.59
32)		carbon tetrachl	0.259	0.258	0.287	0.301	0.313	0.346	0.353	0.302	12.50
33)		1,1-dichloropro	0.313	0.315	0.332	0.333	0.333	0.359	0.360	0.335	5.53
34)		benzene	0.950	0.927	0.950	0.959	0.961	1.025	1.034	0.972	4.18
35)		1,2-dichloroeth	0.309	0.303	0.302	0.314	0.308	0.322	0.322	0.311	2.62
36)		heptane								0.000	-1.00
37)	S	#1,2-Dichloroet	0.148	0.150	0.146	0.149	0.148	0.148	0.150	0.148	0.95
38)		trichloroethene	0.249	0.255	0.259	0.264	0.278	0.296	0.305	0.272	7.82
39)		methylcyclohexa	0.351	0.366	0.396	0.404	0.402	0.437	0.437	0.399	8.11
40)	C	1,2-dichloropro	0.216	0.223	0.224	0.230	0.232	0.250	0.253	0.233	6.00#
41)		dibromomethane	0.110	0.119	0.124	0.127	0.127	0.134	0.136	0.125	6.93
42)		bromodichlorome	0.233	0.258	0.276	0.290	0.301	0.329	0.338	0.289	12.96
43)		2-chloroehtyl v	0.105	0.105	0.124	0.121	0.120	0.135	0.145	0.122	11.82
44)		cis-1,3-dichlor	0.257	0.293	0.321	0.336	0.343	0.380	0.393	0.332	14.28
45)		4-methyl-2-pent		0.181	0.187	0.218	0.170	0.191	0.207	0.192	9.01
46)	s	#Toluene-d8	0.989	0.992	0.992	0.999	0.987	0.997	1.015	0.996	0.95
47)	C	toluene	1.021	1.011	1.034	1.051	1.058	1.158	1.210	1.078	7.07#
48)		trans-1,3-dichl	0.217	0.254	0.281	0.305	0.319	0.360	0.374	-----	
								L	M=	0.377	R=0.999

HEW 8-20-12

01130

Method Path : C:\MSDCHEM\1\METHODS\
Method File : 8260B-A168.M
Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
Last Update : Thu Aug 16 11:13:31 2012
Response Via : Initial Calibration

									B= -0.027		
49)		1,1,2-trichloro	0.141	0.142	0.150	0.154	0.150	0.163	0.168	0.153	6.48
50)		Chlorobenzene-d5	----------ISTD----------								
51)		tetrachloroethe	0.416	0.373	0.392	0.396	0.403	0.432	0.444	0.408	5.98
52)		1,3-dichloropro	0.402	0.406	0.425	0.433	0.437	0.455	0.459	0.431	5.04
53)		2-hexanone (MBK	0.180	0.123	0.151	0.200	0.148	0.165	0.175	-----	
								L	M=	0.174	R=0.998
									B= -0.006		
54)		dibromochlorome	0.187	0.205	0.236	0.257	0.272	0.306	0.317	-----	
								L	M=	0.320	R=0.999
									B= -0.023		
55)		1,2-dibromoetha	0.199	0.202	0.219	0.227	0.227	0.239	0.243	0.222	7.58
56)	P	chlorobenzene	0.886	0.871	0.908	0.912	0.920	0.994	1.051	0.935	6.88
57)		1-chlorohexane	0.286	0.279	0.302	0.299	0.303	0.316	0.312	0.300	4.48
58)		1,1,1,2-tetrach	0.218	0.249	0.277	0.290	0.306	0.339	0.356	-----	
								L	M=	0.358	R=0.999
									B= -0.026		
59)	C	ethylbenzene	1.450	1.448	1.506	1.524	1.552	1.704	1.794	1.568	8.39#
60)		m+p-xylene	0.595	0.596	0.612	0.623	0.644	0.725	0.775	0.653	10.72
61)		o-xylene	0.573	0.557	0.582	0.602	0.611	0.668	0.704	0.614	8.73
62)		styrene	0.956	0.979	1.047	1.067	1.105	1.216	1.302	1.096	11.39
63)	P	bromoform	0.104	0.127	0.150	0.173	0.192	0.226	0.241	-----	
								L	M=	0.244	R=0.998
									B= -0.026		
64)	S	#4-Bromofluorob	0.510	0.510	0.511	0.506	0.512	0.504	0.506	0.508	0.59
65)		1,4-Dichlorobenzene-d	----------ISTD----------								
66)		isopropylbenzen	2.298	2.086	2.177	2.237	2.223	2.423	2.510	2.279	6.38
67)		bromobenzene	0.915	0.901	0.927	0.927	0.915	0.960	0.964	0.930	2.53
68)	P	1,1,2,2-tetrach	0.454	0.439	0.463	0.479	0.444	0.477	0.475	0.462	3.52
69)		1,2,3-trichloro	0.137	0.148	0.150	0.153	0.150	0.154	0.156	0.150	4.27
70)		1,4-dichloro-2-	0.124	0.127	0.137	0.154	0.152	0.162	0.159	0.145	10.59
71)		n-propylbenzene	0.710	0.658	0.688	0.700	0.692	0.764	0.799	0.716	6.78
72)		2-chlorotoluene	0.621	0.591	0.597	0.601	0.599	0.648	0.669	0.618	4.80
73)		1,3,5-trimethyl	2.030	1.946	2.032	2.051	2.057	2.252	2.348	2.102	6.79
74)		4-chlorotoluene	1.985	1.931	1.928	1.978	1.978	2.123	2.184	2.015	4.91
75)		tert-butylbenze	1.865	1.693	1.765	1.792	1.804	1.976	2.068	1.852	7.00
76)		1,2,4-trimethyl	2.079	1.983	2.048	2.105	2.106	2.323	2.400	2.149	7.10
77)		sec-butylbenzen	2.691	2.446	2.562	2.611	2.645	2.931	3.016	2.700	7.53
78)		1,3-dichloroben	1.290	1.234	1.247	1.274	1.282	1.401	1.461	1.313	6.46
79)		4-isopropyltolu	2.538	2.205	2.308	2.390	2.425	2.768	2.901	2.505	9.98
80)		1,4-dichloroben	1.376	1.253	1.271	1.308	1.331	1.516	1.603	1.380	9.53
81)		1,2-dichloroben	1.192	1.106	1.130	1.160	1.163	1.270	1.309	1.190	6.22
82)		n-butylbenzene	2.008	1.813	1.922	1.978	1.995	2.186	2.218	2.017	7.07
83)		hexachloroethan	0.159	0.186	0.224	0.274	0.313	0.391	0.422	-----	
								L	M=	0.427	R=0.998
									B= -0.057		
84)		1,2-dibromo-3-c	0.078	0.081	0.092	0.101	0.109	0.122	0.124	-----	
								L	M=	0.125	R=1.000
									B= -0.008		
85)		1,2,4-trichloro	0.729	0.563	0.585	0.602	0.612	0.683	0.716	0.641	10.41
86)		hexachlorobutad	0.407	0.326	0.347	0.358	0.365	0.406	0.417	0.375	9.29
87)		naphthalene	1.262	1.025	1.107	1.182	1.189	1.275	1.306	1.192	8.39
88)		1,2,3-trichloro	0.611	0.433	0.473	0.491	0.499	0.548	0.568	0.518	11.81
89)		2-methylnaphtha	0.423	0.308	0.367	0.415	0.440	0.487	0.478	-----	
								L	M=	0.484	R=1.000
									B= -0.022		

Total Average %RSD 6.57

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

Response Factor Report 323

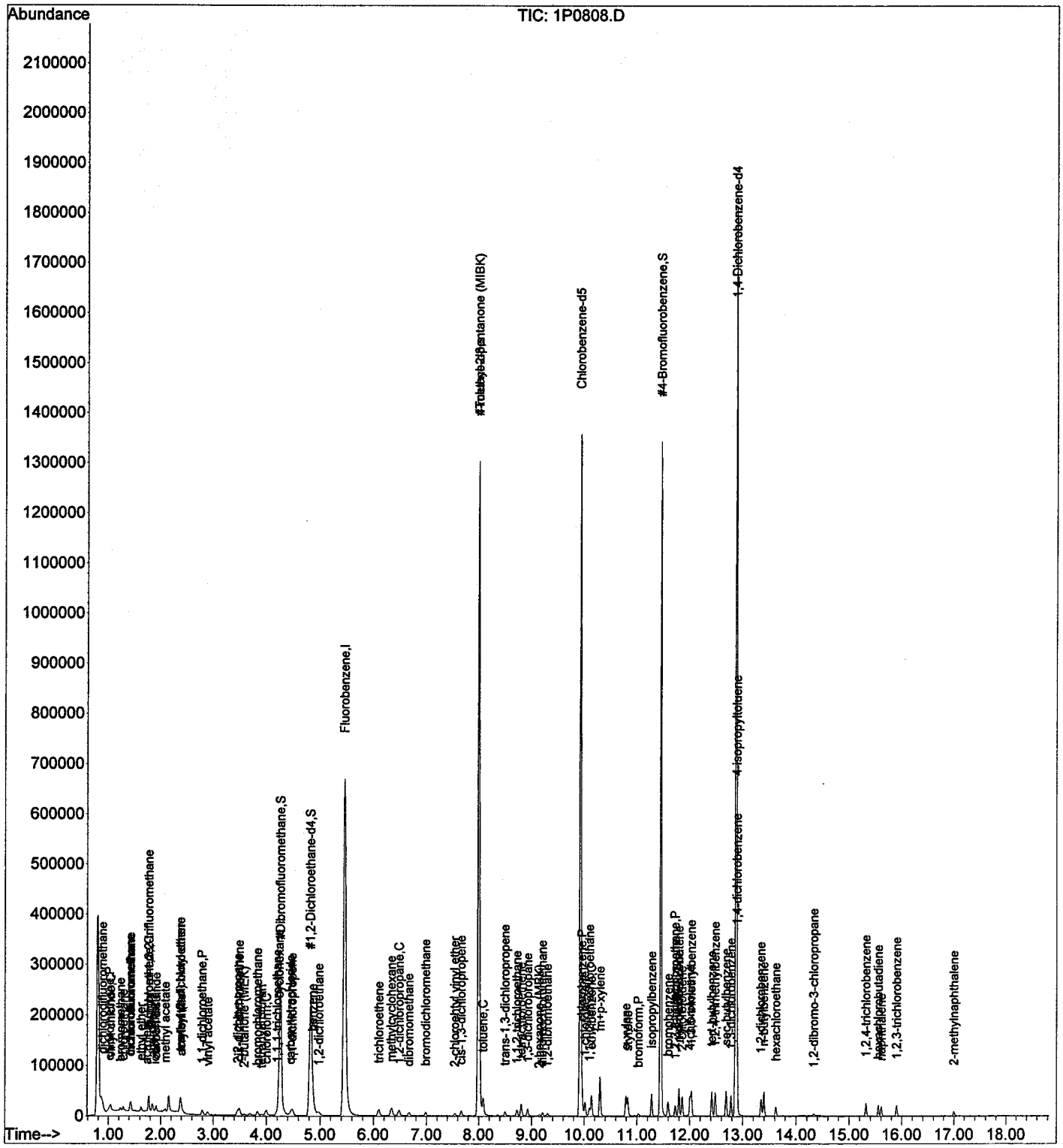
Method Path : C:\MSDCHEM\1\METHODS\
Method File : 8260B-A168.M
Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
Last Update : Thu Aug 16 11:13:31 2012
Response Via : Initial Calibration

8260B-A168.M Thu Aug 16 11:13:53 2012

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 1P0808.D
InstName : 323
Acq On : 8 Aug 2012 14:31
Operator : DLV
Sample : CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 16 11:10:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration



01133

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 1P0808.D
InstName : 323
Acq On : 8 Aug 2012 14:31
Operator : DLV
Sample : CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 16 11:10:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	1044697	40.00 ug/L	-0.01 151.13%
50) Chlorobenzene-d5	9.92	117	851030	40.00 ug/L	0.00 147.07%
65) 1,4-Dichlorobenzene-d4	12.87	152	533666	40.00 ug/L	0.00 129.20%
System Monitoring Compounds					
30) #Dibromofluoromethane	4.26	111	248964	35.68 ug/L	-0.01
Spiked Amount 40.000			Recovery = 89.20%		
37) #1,2-Dichloroethane-d4	4.82	67	154270	32.93 ug/L	-0.02
Spiked Amount 40.000			Recovery = 82.33%		
46) #Toluene-d8	7.99	98	1032989	38.15 ug/L	0.00
Spiked Amount 40.000			Recovery = 95.38%		
64) #4-Bromofluorobenzene	11.45	95	433879	35.96 ug/L	0.00
Spiked Amount 40.000			Recovery = 89.90%		
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.88	85	6343	0.71 ug/L	98
3) chloromethane	1.01	50	8337	1.20 ug/L	94
4) vinyl chloride	1.04	62	8327	1.04 ug/L	96
5) bromomethane	1.23	94	3401	3.08 ug/L	99
6) chloroethane	1.29	64	5735	1.15 ug/L	100
7) dichlorofluoromethane	1.41	67	12115	0.85 ug/L	98
8) trichlorofluoromethane	1.43	101	9852	0.69 ug/L	100
9) ethyl ether	1.62	74	3149	0.89 ug/L #	91
10) acrolein	1.73	56	884	1.18 ug/L #	29
11) 1,1,2-trichloro-1,2,2-trif	1.77	101	5530	0.87 ug/L	98
12) 1,1-dichloroethene	1.77	96	6520	1.09 ug/L #	76
13) acetone	1.84	43	20805	3.99 ug/L	86
14) iodomethane	1.88	142	943	7.09 ug/L #	60
15) carbon disulfide	1.91	76	15075	0.90 ug/L	97
16) methyl acetate	2.09	43	6725	1.22 ug/L #	97
17) methylene chloride	2.15	49	18462	Below Cal	88
18) acrylonitrile	2.40	53	2224	0.88 ug/L	97
19) trans-1,2-dichloroethene	2.38	96	7039	1.07 ug/L #	86
20) methyl (tert) butyl ether	2.38	73	14688	0.89 ug/L	97
21) 1,1-dichloroethane	2.79	63	10510	0.87 ug/L	97
22) vinyl acetate	2.90	43	10662	2.05 ug/L	97
23) 2,2-dichloropropane	3.46	77	7636	0.95 ug/L	91
24) cis-1,2-dichloroethene	3.50	96	6214	0.96 ug/L #	87
25) 2-butanone (MEK)	3.58	43	4316	1.65 ug/L	94
26) bromochloromethane	3.83	49	5072	0.87 ug/L	96
27) tetrahydrofuran	3.91	71	206	4.07 ug/L #	1
28) chloroform	4.00	83	11765	0.96 ug/L	99
29) 1,1,1-trichloroethane	4.19	97	8354	0.79 ug/L	96
31) cyclohexane	4.23	56	9791	0.89 ug/L	99
32) carbon tetrachloride	4.45	117	6768	0.69 ug/L	97
33) 1,1-dichloropropene	4.49	75	8182	2.53 ug/L	98
34) benzene	4.87	78	24813	0.97 ug/L #	74
35) 1,2-dichloroethane	4.98	62	8074	0.78 ug/L	93
36) heptane	4.22	57	62	No Calib #	

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 1P0808.D
InstName : 323
Acq On : 8 Aug 2012 14:31
Operator : DLV
Sample : CAL1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 16 11:10:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration

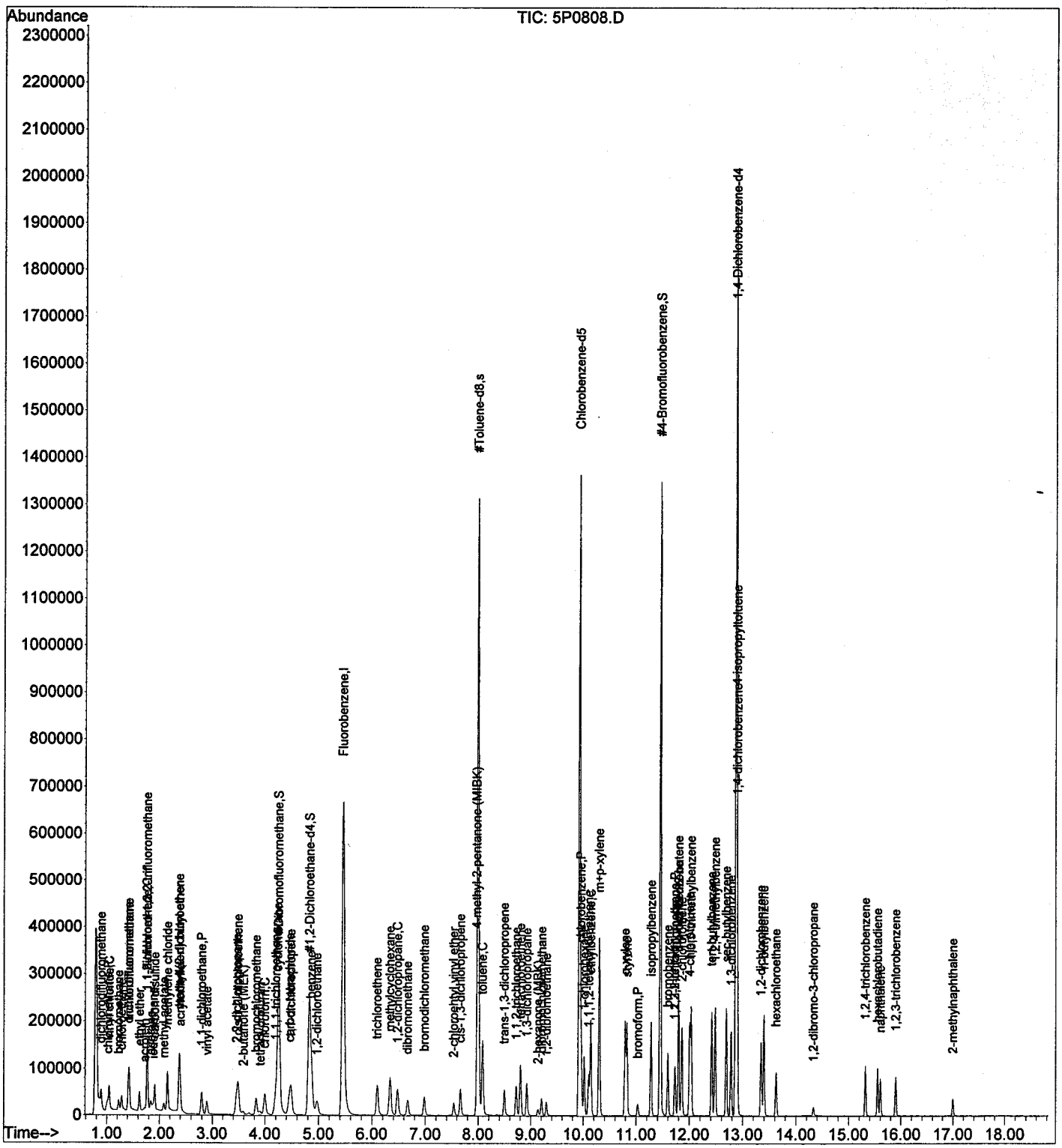
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
38) trichloroethene	6.10	130	6504	0.95 ug/L	96
39) methylcyclohexane	6.34	83	9168	0.86 ug/L	99
40) 1,2-dichloropropane	6.48	63	5651	0.92 ug/L	89
41) dibromomethane	6.66	93	2877	0.77 ug/L	88
42) bromodichloromethane	6.98	83	6074	0.69 ug/L	96
43) 2-chloroehtyl vinyl ether	7.55	63	2748	3.85 ug/L	92
44) cis-1,3-dichloropropene	7.67	75	6710	3.15 ug/L	97
45) 4-methyl-2-pentanone (MIBK	7.99	43	9244	1.73 ug/L #	5
47) toluene	8.08	91	26660	0.95 ug/L	99
48) trans-1,3-dichloropropene	8.51	75	5660	3.80 ug/L	99
49) 1,1,2-trichloroethane	8.72	83	3684	0.85 ug/L	97
51) tetrachloroethene	8.80	166	8857	1.03 ug/L	96
52) 1,3-dichloropropane	8.93	76	8556	0.90 ug/L	100
53) 2-hexanone (MBK)	9.14	43	3828	4.95 ug/L #	80
54) dibromochloromethane	9.21	129	3976	2.57 ug/L	98
55) 1,2-dibromoethane	9.30	109	4231	0.86 ug/L	90
56) chlorobenzene	9.96	112	18852	0.97 ug/L	96
57) 1-chlorohexane	10.02	55	6083	0.85 ug/L	96
58) 1,1,1,2-tetrachloroethane	10.10	131	4642	0.69 ug/L	92
59) ethylbenzene	10.14	91	30844	0.95 ug/L	94
60) m+p-xylene	10.30	106	25304	2.01 ug/L	88
61) o-xylene	10.79	106	12197	2.85 ug/L #	87
62) styrene	10.83	104	20337	2.73 ug/L	93
63) bromoform	11.03	173	2210	3.57 ug/L	96
66) isopropylbenzene	11.28	105	30658	3.46 ug/L	98
67) bromobenzene	11.60	77	12214	1.00 ug/L	93
68) 1,1,2,2-tetrachloroethane	11.72	83	6059	0.95 ug/L #	100
69) 1,2,3-trichloropropane	11.73	110	1822	0.82 ug/L	89
70) 1,4-dichloro-2-butene	11.80	53	1657	2.65 ug/L	81
71) n-propylbenzene	11.80	120	9479	1.14 ug/L #	89
72) 2-chlorotoluene	11.86	126	8288	1.12 ug/L #	88
73) 1,3,5-trimethylbenzene	12.04	105	27077	3.03 ug/L	91
74) 4-chlorotoluene	12.01	91	26487	1.03 ug/L	94
75) tert-butylbenzene	12.42	119	24887	3.26 ug/L	93
76) 1,2,4-trimethylbenzene	12.48	105	27734	2.86 ug/L	97
77) sec-butylbenzene	12.69	105	35901	3.09 ug/L	99
78) 1,3-dichlorobenzene	12.78	146	17214	1.05 ug/L	96
79) 4-isopropyltoluene	12.89	119	33863	1.11 ug/L	95
80) 1,4-dichlorobenzene	12.90	146	18353	1.07 ug/L #	74
81) 1,2-dichlorobenzene	13.34	146	15900	1.09 ug/L	96
82) n-butylbenzene	13.39	91	26794	2.54 ug/L	98
83) hexachloroethane	13.63	201	2118	4.86 ug/L #	42
84) 1,2-dibromo-3-chloropropan	14.33	157	1041	3.41 ug/L	94
85) 1,2,4-trichlorobenzene	15.32	180	9725	3.34 ug/L	98
86) hexachlorobutadiene	15.54	225	5424	1.01 ug/L	97
87) naphthalene	15.60	128	16837	4.17 ug/L	99
88) 1,2,3-trichlorobenzene	15.90	180	8153	3.18 ug/L	94
89) 2-methylnaphthalene	17.00	142	5646	5.81 ug/L	94

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

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 5P0808.D
InstName : 323
Acq On : 8 Aug 2012 14:58
Operator : DLV
Sample : CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 16 11:10:34 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration



01136

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 5P0808.D
InstName : 323
Acq On : 8 Aug 2012 14:58
Operator : DLV
Sample : CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 16 11:10:34 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	1044231	40.00	ug/L	-0.01 151.06%
50) Chlorobenzene-d5	9.93	117	848984	40.00	ug/L	0.00 146.72%
65) 1,4-Dichlorobenzene-d4	12.87	152	536517	40.00	ug/L	0.00 129.89%
System Monitoring Compounds						
30) #Dibromofluoromethane	4.26	111	248839	35.68	ug/L	-0.01
Spiked Amount 40.000			Recovery = 89.20%			
37) #1,2-Dichloroethane-d4	4.83	67	156208	33.36	ug/L	-0.01
Spiked Amount 40.000			Recovery = 83.40%			
46) #Toluene-d8	7.99	98	1035951	38.27	ug/L	0.00
Spiked Amount 40.000			Recovery = 95.68%			
64) #4-Bromofluorobenzene	11.45	95	432993	35.97	ug/L	0.00
Spiked Amount 40.000			Recovery = 89.92%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.89	85	33742	3.77	ug/L	100
3) chloromethane	1.01	50	38111	5.50	ug/L	99
4) vinyl chloride	1.04	62	41079	5.13	ug/L	97
5) bromomethane	1.23	94	15089	7.73	ug/L	99
6) chloroethane	1.28	64	24898	5.02	ug/L	100
7) dichlorofluoromethane	1.41	67	57270	4.03	ug/L	98
8) trichlorofluoromethane	1.43	101	50057	3.52	ug/L	96
9) ethyl ether	1.62	74	16397	4.66	ug/L	91
10) acrolein	1.72	56	4228	5.66	ug/L #	90
11) 1,1,2-trichloro-1,2,2-trif	1.77	101	28592	4.48	ug/L	96
12) 1,1-dichloroethene	1.77	96	31744	5.30	ug/L #	73
13) acetone	1.84	43	25621	6.53	ug/L	84
14) iodomethane	1.88	142	16712	10.41	ug/L #	86
15) carbon disulfide	1.91	76	72643	4.33	ug/L	100
16) methyl acetate	2.08	43	20694	3.74	ug/L	94
17) methylene chloride	2.15	49	49780	3.10	ug/L	87
18) acrylonitrile	2.40	53	9237	3.68	ug/L	98
19) trans-1,2-dichloroethene	2.37	96	33419	5.10	ug/L	88
20) methyl (tert) butyl ether	2.39	73	71314	4.32	ug/L	99
21) 1,1-dichloroethane	2.79	63	55068	4.57	ug/L	97
22) vinyl acetate	2.89	43	50831	5.13	ug/L	100
23) 2,2-dichloropropane	3.46	77	36131	4.51	ug/L	96
24) cis-1,2-dichloroethene	3.49	96	32935	5.09	ug/L	90
25) 2-butanone (MEK)	3.59	43	10336	3.96	ug/L	97
26) bromochloromethane	3.83	49	26573	4.54	ug/L	99
27) tetrahydrofuran	3.90	71	2357	7.39	ug/L	93
28) chloroform	3.99	83	51721	4.24	ug/L	97
29) 1,1,1-trichloroethane	4.19	97	41199	3.92	ug/L	99
31) cyclohexane	4.23	56	49831	4.54	ug/L	99
32) carbon tetrachloride	4.46	117	33738	3.42	ug/L	98
33) 1,1-dichloropropene	4.49	75	41155	5.83	ug/L	98
34) benzene	4.86	78	120980	4.72	ug/L #	73
35) 1,2-dichloroethane	4.97	62	39545	3.83	ug/L	98
36) heptane	4.23	57	2200	No Calib	#	

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 5P0808.D
InstName : 323
Acq On : 8 Aug 2012 14:58
Operator : DLV
Sample : CAL2
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 16 11:10:34 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration

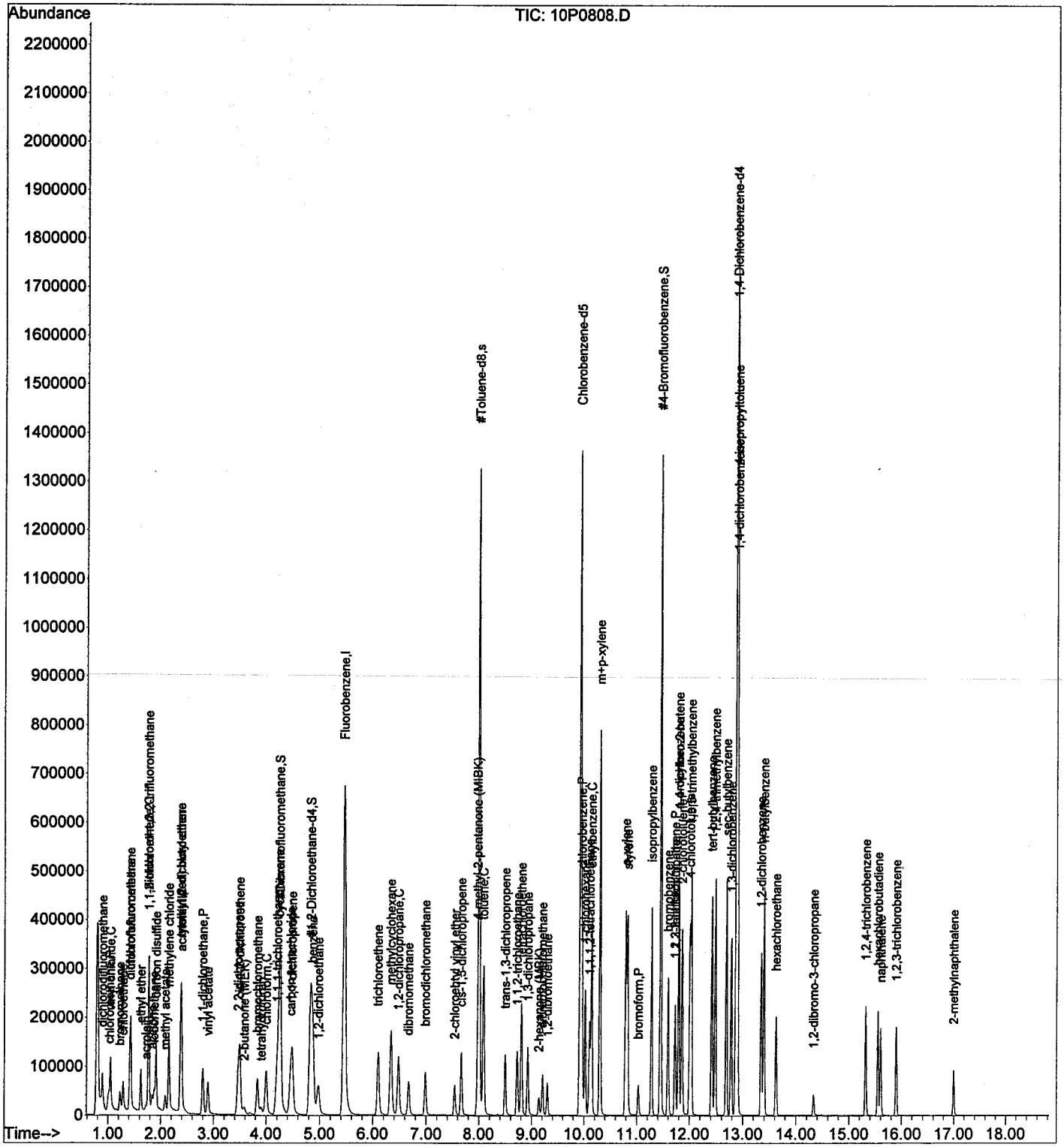
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
38) trichloroethene	6.10	130	33267	4.87	ug/L		97
39) methylcyclohexane	6.34	83	47827	4.51	ug/L		96
40) 1,2-dichloropropane	6.48	63	29154	4.77	ug/L		98
41) dibromomethane	6.67	93	15590	4.19	ug/L		93
42) bromodichloromethane	6.98	83	33726	3.82	ug/L		99
43) 2-chloroehtyl vinyl ether	7.54	63	13758	6.68	ug/L		99
44) cis-1,3-dichloropropene	7.67	75	38285	6.04	ug/L		96
45) 4-methyl-2-pentanone (MIBK	7.96	43	23612	4.41	ug/L	#	55
47) toluene	8.08	91	131990	4.70	ug/L		99
48) trans-1,3-dichloropropene	8.49	75	33210	6.26	ug/L		99
49) 1,1,2-trichloroethane	8.72	83	18588	4.27	ug/L		98
51) tetrachloroethene	8.80	166	39607	4.62	ug/L		98
52) 1,3-dichloropropane	8.92	76	43119	4.55	ug/L		99
53) 2-hexanone (MBK)	9.14	43	13101	7.13	ug/L		96
54) dibromochloromethane	9.21	129	21763	4.98	ug/L		99
55) 1,2-dibromoethane	9.30	109	21485	4.35	ug/L		99
56) chlorobenzene	9.96	112	92439	4.79	ug/L		96
57) 1-chlorohexane	10.02	55	29573	4.13	ug/L		95
58) 1,1,1,2-tetrachloroethane	10.10	131	26439	3.92	ug/L		98
59) ethylbenzene	10.14	91	153644	4.75	ug/L		96
60) m+p-xylene	10.30	106	126436	10.06	ug/L	#	86
61) o-xylene	10.79	106	59090	6.25	ug/L		91
62) styrene	10.83	104	103879	6.08	ug/L		92
63) bromoform	11.03	173	13426	5.57	ug/L		100
66) isopropylbenzene	11.28	105	139893	6.83	ug/L		97
67) bromobenzene	11.59	77	60443	4.90	ug/L		93
68) 1,1,2,2-tetrachloroethane	11.72	83	29461	4.58	ug/L	#	98
69) 1,2,3-trichloropropane	11.73	110	9916	4.46	ug/L		99
70) 1,4-dichloro-2-butene	11.80	53	8539	4.92	ug/L		84
71) n-propylbenzene	11.80	120	44150	5.28	ug/L	#	86
72) 2-chlorotoluene	11.85	126	39649	5.31	ug/L		91
73) 1,3,5-trimethylbenzene	12.04	105	130527	6.40	ug/L		95
74) 4-chlorotoluene	12.01	91	129486	4.99	ug/L		94
75) tert-butylbenzene	12.42	119	113561	6.60	ug/L		95
76) 1,2,4-trimethylbenzene	12.48	105	133011	6.22	ug/L		96
77) sec-butylbenzene	12.69	105	164021	6.37	ug/L		97
78) 1,3-dichlorobenzene	12.78	146	82790	5.04	ug/L		99
79) 4-isopropyltoluene	12.89	119	147901	4.82	ug/L		97
80) 1,4-dichlorobenzene	12.90	146	84015	4.86	ug/L		99
81) 1,2-dichlorobenzene	13.34	146	74183	5.05	ug/L		99
82) n-butylbenzene	13.39	91	121571	5.68	ug/L		99
83) hexachloroethane	13.62	201	12483	6.64	ug/L	#	64
84) 1,2-dibromo-3-chloropropan	14.33	157	5460	5.71	ug/L		91
85) 1,2,4-trichlorobenzene	15.32	180	37751	6.27	ug/L		98
86) hexachlorobutadiene	15.55	225	21884	4.05	ug/L		96
87) naphthalene	15.60	128	68730	6.74	ug/L		99
88) 1,2,3-trichlorobenzene	15.90	180	29030	5.36	ug/L		97
89) 2-methylnaphthalene	17.00	142	20626	7.62	ug/L		98

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

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 10P0808.D
InstName : 323
Acq On : 8 Aug 2012 15:25
Operator : DLV
Sample : CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 11:10:43 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration



01139

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 10P0808.D
InstName : 323
Acq On : 8 Aug 2012 15:25
Operator : DLV
Sample : CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 11:10:43 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	1049213	40.00	ug/L	0.00 151.78%
50) Chlorobenzene-d5	9.92	117	841087	40.00	ug/L	0.00 145.35%
65) 1,4-Dichlorobenzene-d4	12.87	152	542832	40.00	ug/L	0.00 131.42%
System Monitoring Compounds						
30) #Dibromofluoromethane	4.26	111	252669	36.06	ug/L	-0.01
Spiked Amount 40.000			Recovery = 90.15%			
37) #1,2-Dichloroethane-d4	4.83	67	153028	32.52	ug/L	-0.01
Spiked Amount 40.000			Recovery = 81.30%			
46) #Toluene-d8	7.99	98	1041304	38.29	ug/L	0.00
Spiked Amount 40.000			Recovery = 95.72%			
64) #4-Bromofluorobenzene	11.45	95	430112	36.07	ug/L	0.00
Spiked Amount 40.000			Recovery = 90.18%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.89	85	70250	7.82	ug/L	99
3) chloromethane	1.02	50	75899	10.89	ug/L	100
4) vinyl chloride	1.04	62	86595	10.75	ug/L	99
5) bromomethane	1.23	94	28980	13.04	ug/L	99
6) chloroethane	1.29	64	50632	10.15	ug/L	97
7) dichlorofluoromethane	1.41	67	118100	8.28	ug/L	99
8) trichlorofluoromethane	1.43	101	103695	7.25	ug/L	95
9) ethyl ether	1.62	74	34387	9.73	ug/L	91
10) acrolein	1.72	56	8949	11.93	ug/L #	94
11) 1,1,2-trichloro-1,2,2-trif	1.77	101	63706	9.93	ug/L	97
12) 1,1-dichloroethene	1.77	96	69375	11.52	ug/L #	72
13) acetone	1.84	43	32867	10.26	ug/L	83
14) iodomethane	1.88	142	56344	18.54	ug/L #	84
15) carbon disulfide	1.91	76	168135	9.97	ug/L	99
16) methyl acetate	2.09	43	38889	7.00	ug/L #	91
17) methylene chloride	2.15	49	94608	8.02	ug/L	85
18) acrylonitrile	2.39	53	20234	8.01	ug/L	98
19) trans-1,2-dichloroethene	2.38	96	69552	10.57	ug/L #	88
20) methyl (tert) butyl ether	2.39	73	152162	9.18	ug/L	100
21) 1,1-dichloroethane	2.79	63	109484	9.04	ug/L	99
22) vinyl acetate	2.89	43	124794	10.76	ug/L	99
23) 2,2-dichloropropane	3.46	77	75638	9.39	ug/L	96
24) cis-1,2-dichloroethene	3.50	96	67233	10.33	ug/L	91
25) 2-butanone (MEK)	3.59	43	22027	8.40	ug/L	94
26) bromochloromethane	3.83	49	52308	8.90	ug/L	95
27) tetrahydrofuran	3.90	71	4985	11.41	ug/L	93
28) chloroform	3.99	83	104734	8.54	ug/L	100
29) 1,1,1-trichloroethane	4.20	97	88912	8.42	ug/L	99
31) cyclohexane	4.23	56	106339	9.65	ug/L	99
32) carbon tetrachloride	4.45	117	75380	7.60	ug/L	99
33) 1,1-dichloropropene	4.49	75	86988	10.38	ug/L	97
34) benzene	4.87	78	249171	9.67	ug/L #	73
35) 1,2-dichloroethane	4.97	62	79231	7.64	ug/L	97
36) heptane	4.23	57	4719	No Calib	#	

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 10P0808.D
InstName : 323
Acq On : 8 Aug 2012 15:25
Operator : DLV
Sample : CAL3
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 16 11:10:43 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration

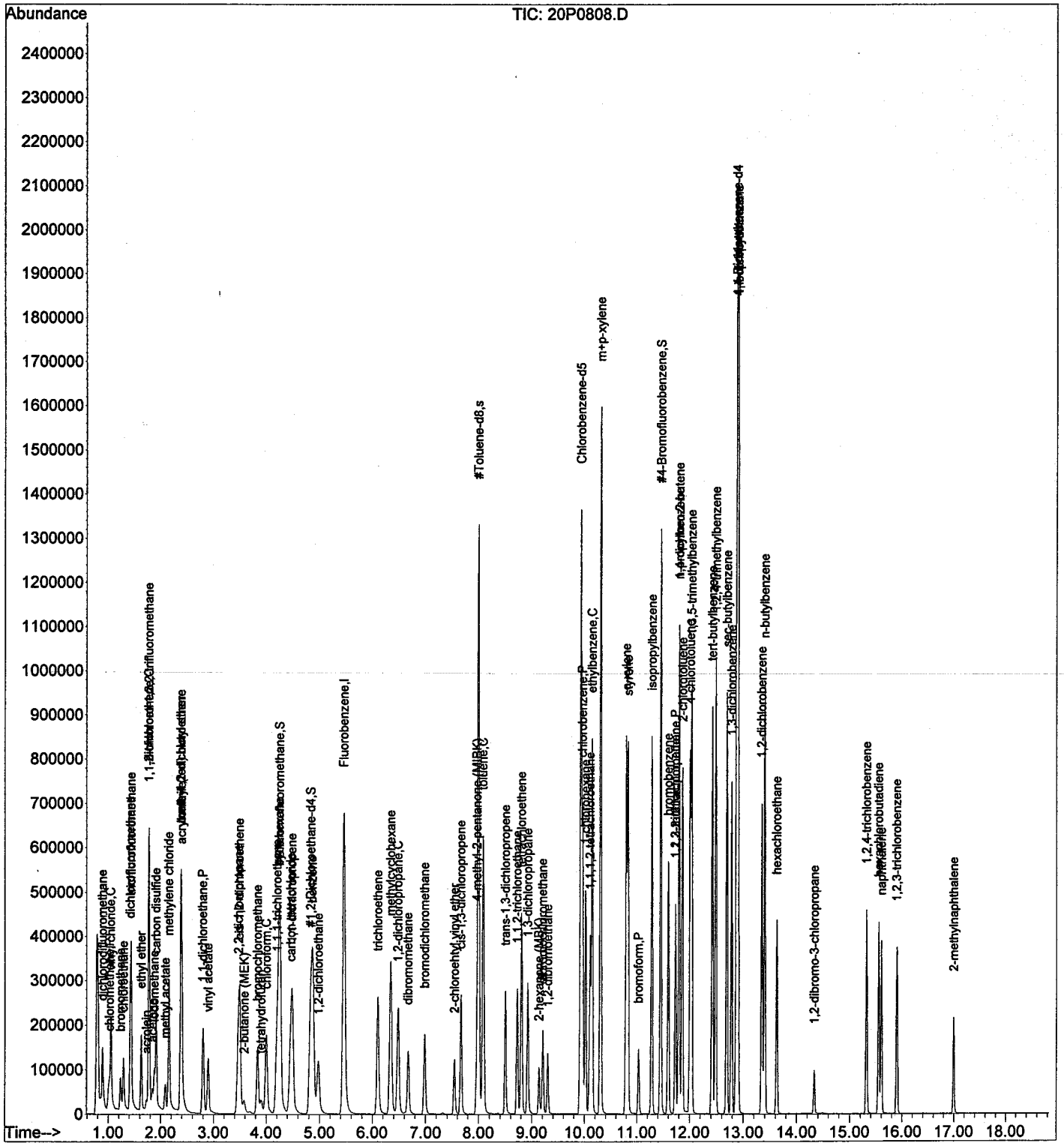
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min) Rcv(Ar)
38) trichloroethene	6.10	130	67972	9.90 ug/L		97
39) methylcyclohexane	6.34	83	103884	9.75 ug/L		97
40) 1,2-dichloropropane	6.48	63	58844	9.57 ug/L		100
41) dibromomethane	6.67	93	32551	8.70 ug/L		96
42) bromodichloromethane	6.98	83	72272	8.14 ug/L		98
43) 2-chloroehtyl vinyl ether	7.54	63	32569	11.48 ug/L		99
44) cis-1,3-dichloropropene	7.67	75	84138	10.21 ug/L		94
45) 4-methyl-2-pentanone (MIBK	7.96	43	49179	9.14 ug/L	#	82
47) toluene	8.09	91	271135	9.60 ug/L		99
48) trans-1,3-dichloropropene	8.50	75	73741	9.84 ug/L		98
49) 1,1,2-trichloroethane	8.72	83	39446	9.01 ug/L		98
51) tetrachloroethene	8.80	166	82374	9.69 ug/L		98
52) 1,3-dichloropropane	8.92	76	89377	9.51 ug/L		99
53) 2-hexanone (MBK)	9.14	43	31703	11.57 ug/L		99
54) dibromochloromethane	9.21	129	49631	8.81 ug/L		99
55) 1,2-dibromoethane	9.30	109	46054	9.42 ug/L		98
56) chlorobenzene	9.96	112	190931	9.98 ug/L		100
57) 1-chlorohexane	10.02	55	63584	8.95 ug/L		94
58) 1,1,1,2-tetrachloroethane	10.10	131	58192	8.72 ug/L		98
59) ethylbenzene	10.14	91	316772	9.88 ug/L		96
60) m+p-xylene	10.30	106	257534	20.69 ug/L		89
61) o-xylene	10.79	106	122397	10.91 ug/L		91
62) styrene	10.83	104	220212	10.83 ug/L		93
63) bromoform	11.03	173	31504	8.84 ug/L		99
66) isopropylbenzene	11.28	105	295479	11.55 ug/L		97
67) bromobenzene	11.59	77	125744	10.08 ug/L		95
68) 1,1,2,2-tetrachloroethane	11.72	83	62883	9.66 ug/L	#	99
69) 1,2,3-trichloropropane	11.73	110	20374	9.06 ug/L		97
70) 1,4-dichloro-2-butene	11.80	53	18628	8.19 ug/L		91
71) n-propylbenzene	11.80	120	93357	11.05 ug/L	#	86
72) 2-chlorotoluene	11.86	126	80967	10.71 ug/L		93
73) 1,3,5-trimethylbenzene	12.04	105	275801	11.04 ug/L		96
74) 4-chlorotoluene	12.00	91	261616	9.97 ug/L		94
75) tert-butylbenzene	12.42	119	239507	11.24 ug/L		95
76) 1,2,4-trimethylbenzene	12.48	105	277988	10.76 ug/L		94
77) sec-butylbenzene	12.69	105	347651	10.98 ug/L		97
78) 1,3-dichlorobenzene	12.78	146	169260	10.19 ug/L		99
79) 4-isopropyltoluene	12.89	119	313168	10.08 ug/L		97
80) 1,4-dichlorobenzene	12.90	146	172520	9.86 ug/L		99
81) 1,2-dichlorobenzene	13.34	146	153328	10.31 ug/L		99
82) n-butylbenzene	13.39	91	260795	10.21 ug/L		97
83) hexachloroethane	13.62	201	30412	9.67 ug/L	#	75
84) 1,2-dibromo-3-chloropropan	14.33	157	12520	9.31 ug/L		95
85) 1,2,4-trichlorobenzene	15.32	180	79436	10.53 ug/L		99
86) hexachlorobutadiene	15.55	225	47148	8.62 ug/L		99
87) naphthalene	15.60	128	150213	10.71 ug/L		98
88) 1,2,3-trichlorobenzene	15.90	180	64218	8.96 ug/L		98
89) 2-methylnaphthalene	17.00	142	49843	11.07 ug/L		98

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

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 20P0808.D
InstName : 323
Acq On : 8 Aug 2012 15:53
Operator : DLV
Sample : CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 16 11:10:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration



01142

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 20P0808.D
InstName : 323
Acq On : 8 Aug 2012 15:53
Operator : DLV
Sample : CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 16 11:10:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	1039100	40.00	ug/L	0.00 150.32%
50) Chlorobenzene-d5	9.93	117	836017	40.00	ug/L	0.00 144.48%
65) 1,4-Dichlorobenzene-d4	12.87	152	540553	40.00	ug/L	0.00 130.86%
System Monitoring Compounds						
30) #Dibromofluoromethane	4.26	111	250129	36.04	ug/L	-0.01
Spiked Amount 40.000			Recovery = 90.10%			
37) #1,2-Dichloroethane-d4	4.83	67	154364	33.12	ug/L	-0.01
Spiked Amount 40.000			Recovery = 82.80%			
46) #Toluene-d8	7.99	98	1037806	38.53	ug/L	0.00
Spiked Amount 40.000			Recovery = 96.33%			
64) #4-Bromofluorobenzene	11.45	95	422795	35.67	ug/L	0.00
Spiked Amount 40.000			Recovery = 89.18%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.89	85	139027	15.62	ug/L	100
3) chloromethane	1.01	50	147420	21.37	ug/L	98
4) vinyl chloride	1.04	62	169214	21.22	ug/L	99
5) bromomethane	1.23	94	59501	24.46	ug/L	99
6) chloroethane	1.28	64	100016	20.25	ug/L	99
7) dichlorofluoromethane	1.41	67	231973	16.42	ug/L	99
8) trichlorofluoromethane	1.43	101	215306	15.19	ug/L	99
9) ethyl ether	1.62	74	71957	20.55	ug/L	87
10) acrolein	1.72	56	18487	24.89	ug/L #	99
11) 1,1,2-trichloro-1,2,2-trif	1.77	101	120468	18.96	ug/L	93
12) 1,1-dichloroethene	1.77	96	134417	22.55	ug/L #	75
13) acetone	1.84	43	45305	17.00	ug/L	85
14) iodomethane	1.88	142	121312	31.72	ug/L #	88
15) carbon disulfide	1.91	76	306765	18.36	ug/L	99
16) methyl acetate	2.09	43	82503	15.00	ug/L	94
17) methylene chloride	2.15	49	177868	17.40	ug/L	87
18) acrylonitrile	2.39	53	43263	17.30	ug/L	95
19) trans-1,2-dichloroethene	2.38	96	145161	22.27	ug/L #	87
20) methyl (tert) butyl ether	2.39	73	318825	19.43	ug/L	100
21) 1,1-dichloroethane	2.79	63	222414	18.54	ug/L	100
22) vinyl acetate	2.89	43	225881	18.65	ug/L	99
23) 2,2-dichloropropane	3.47	77	153082	19.19	ug/L	97
24) cis-1,2-dichloroethene	3.50	96	132877	20.62	ug/L	92
25) 2-butanone (MEK)	3.59	43	42832	16.49	ug/L	95
26) bromochloromethane	3.83	49	106409	18.27	ug/L	97
27) tetrahydrofuran	3.90	71	9911	19.12	ug/L	96
28) chloroform	4.00	83	208222	17.14	ug/L	99
29) 1,1,1-trichloroethane	4.20	97	179029	17.11	ug/L	99
31) cyclohexane	4.23	56	209763	19.22	ug/L	97
32) carbon tetrachloride	4.46	117	156208	15.90	ug/L	100
33) 1,1-dichloropropene	4.49	75	173094	19.12	ug/L	98
34) benzene	4.87	78	498025	19.52	ug/L #	73
35) 1,2-dichloroethane	4.97	62	162901	15.86	ug/L	97
36) heptane	4.23	57	9405	No Calib	#	

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 20P0808.D
InstName : 323
Acq On : 8 Aug 2012 15:53
Operator : DLV
Sample : CAL4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 16 11:10:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration

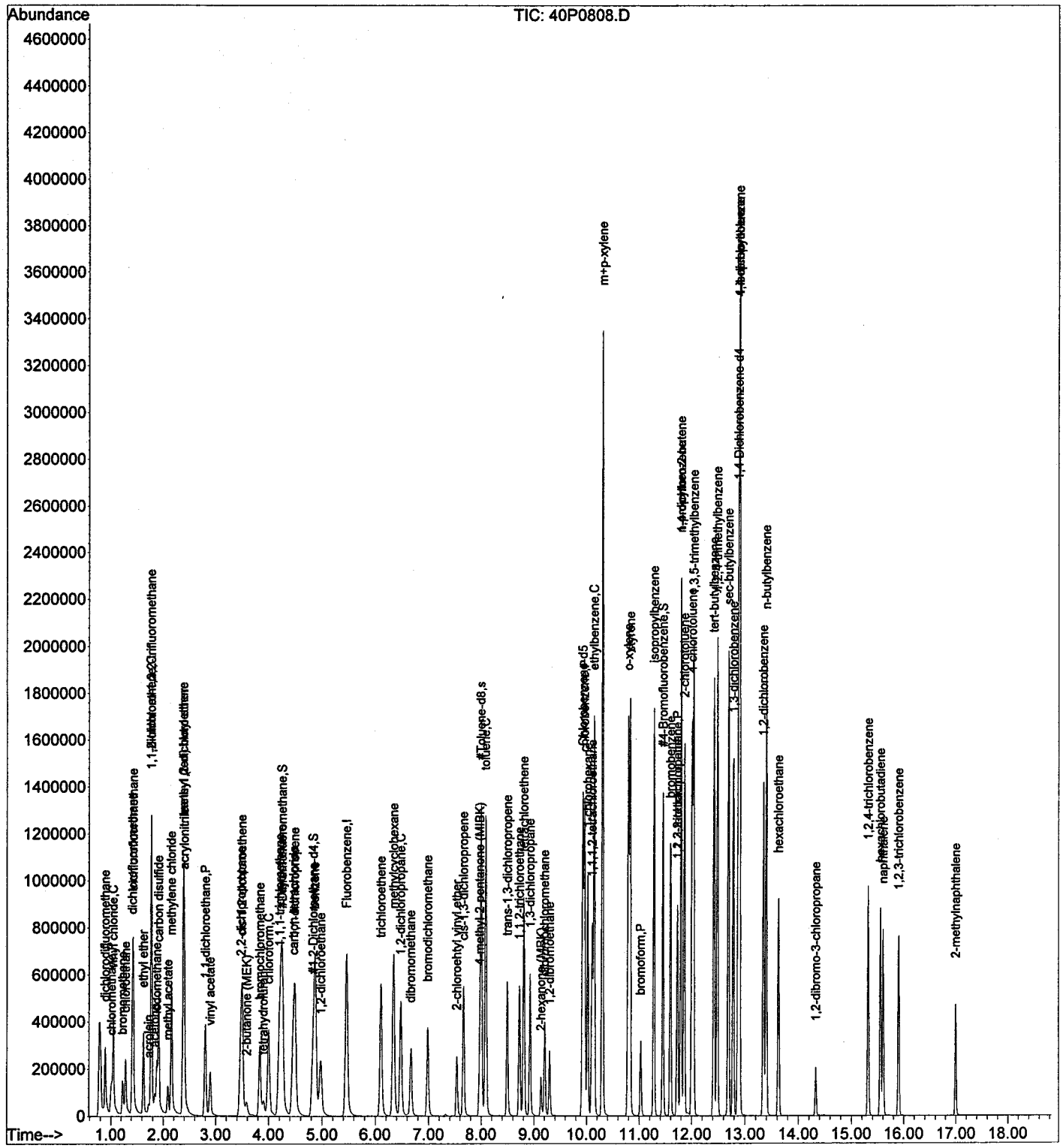
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
38) trichloroethene	6.10	130	137074	20.15	ug/L		98
39) methylcyclohexane	6.34	83	209695	19.88	ug/L		96
40) 1,2-dichloropropane	6.48	63	119636	19.65	ug/L		100
41) dibromomethane	6.67	93	66033	17.82	ug/L		96
42) bromodichloromethane	6.98	83	150431	17.12	ug/L		99
43) 2-chloroehtyl vinyl ether	7.54	63	63014	19.43	ug/L		98
44) cis-1,3-dichloropropene	7.66	75	174767	18.63	ug/L		94
45) 4-methyl-2-pentanone (MIBK	7.96	43	113104	21.23	ug/L	#	91
47) toluene	8.08	91	546216	19.54	ug/L		99
48) trans-1,3-dichloropropene	8.50	75	158598	17.51	ug/L		97
49) 1,1,2-trichloroethane	8.72	83	79998	18.45	ug/L		99
51) tetrachloroethene	8.80	166	165440	19.58	ug/L		98
52) 1,3-dichloropropane	8.92	76	180828	19.36	ug/L		100
53) 2-hexanone (MBK)	9.13	43	83410	23.94	ug/L		98
54) dibromochloromethane	9.21	129	107525	16.80	ug/L		99
55) 1,2-dibromoethane	9.30	109	94895	19.53	ug/L		100
56) chlorobenzene	9.96	112	381415	20.05	ug/L		98
57) 1-chlorohexane	10.02	55	125176	17.73	ug/L		92
58) 1,1,1,2-tetrachloroethane	10.10	131	121194	18.27	ug/L		99
59) ethylbenzene	10.14	91	637079	20.00	ug/L		96
60) m+p-xylene	10.30	106	520769	42.09	ug/L		88
61) o-xylene	10.79	106	251467	20.46	ug/L		88
62) styrene	10.83	104	446000	20.08	ug/L		92
63) bromoform	11.03	173	72319	16.26	ug/L		100
66) isopropylbenzene	11.28	105	604541	21.08	ug/L		97
67) bromobenzene	11.59	77	250659	20.18	ug/L		94
68) 1,1,2,2-tetrachloroethane	11.72	83	129535	19.98	ug/L	#	99
69) 1,2,3-trichloropropane	11.73	110	41239	18.42	ug/L		96
70) 1,4-dichloro-2-butene	11.80	53	41562	15.74	ug/L		94
71) n-propylbenzene	11.80	120	189170	22.48	ug/L	#	86
72) 2-chlorotoluene	11.86	126	162523	21.59	ug/L		93
73) 1,3,5-trimethylbenzene	12.04	105	554373	20.10	ug/L		94
74) 4-chlorotoluene	12.00	91	534495	20.46	ug/L		94
75) tert-butylbenzene	12.42	119	484426	20.43	ug/L		95
76) 1,2,4-trimethylbenzene	12.48	105	568951	20.04	ug/L		95
77) sec-butylbenzene	12.69	105	705787	20.13	ug/L		96
78) 1,3-dichlorobenzene	12.78	146	344466	20.83	ug/L		99
79) 4-isopropyltoluene	12.89	119	645964	20.88	ug/L		97
80) 1,4-dichlorobenzene	12.90	146	353609	20.30	ug/L		99
81) 1,2-dichlorobenzene	13.34	146	313496	21.17	ug/L		98
82) n-butylbenzene	13.39	91	534588	19.28	ug/L		97
83) hexachloroethane	13.62	201	73980	17.15	ug/L	#	85
84) 1,2-dibromo-3-chloropropan	14.33	157	27394	17.02	ug/L		96
85) 1,2,4-trichlorobenzene	15.31	180	162583	19.20	ug/L		100
86) hexachlorobutadiene	15.55	225	96775	17.76	ug/L		98
87) naphthalene	15.60	128	319468	19.09	ug/L		99
88) 1,2,3-trichlorobenzene	15.90	180	132625	16.09	ug/L		100
89) 2-methylnaphthalene	17.00	142	112047	18.54	ug/L		97

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

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 40P0808.D
InstName : 323
Acq On : 8 Aug 2012 16:20
Operator : DLV
Sample : CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 16 11:10:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration



01145

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 40P0808.D
InstName : 323
Acq On : 8 Aug 2012 16:20
Operator : DLV
Sample : CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 16 11:10:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	1046300	40.00 ug/L	0.00 151.36%
50) Chlorobenzene-d5	9.93	117	834338	40.00 ug/L	0.00 144.19%
65) 1,4-Dichlorobenzene-d4	12.87	152	554342	40.00 ug/L	0.00 134.20%
System Monitoring Compounds					
30) #Dibromofluoromethane	4.26	111	252053	36.07 ug/L	-0.01
Spiked Amount 40.000			Recovery =	90.18%	
37) #1,2-Dichloroethane-d4	4.83	67	154786	32.99 ug/L	-0.01
Spiked Amount 40.000			Recovery =	82.48%	
46) #Toluene-d8	7.99	98	1032676	38.08 ug/L	0.00
Spiked Amount 40.000			Recovery =	95.20%	
64) #4-Bromofluorobenzene	11.45	95	426798	36.08 ug/L	0.00
Spiked Amount 40.000			Recovery =	90.20%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.89	85	286736	32.00 ug/L	99
3) chloromethane	1.01	50	295273	42.50 ug/L	97
4) vinyl chloride	1.04	62	346231	43.12 ug/L	99
5) bromomethane	1.23	94	125234	46.53 ug/L	99
6) chloroethane	1.28	64	198964	40.00 ug/L	100
7) dichlorofluoromethane	1.41	67	465338	32.70 ug/L	99
8) trichlorofluoromethane	1.43	101	433815	30.40 ug/L	98
9) ethyl ether	1.62	74	141072	40.02 ug/L	91
10) acrolein	1.72	56	33845	45.25 ug/L #	96
11) 1,1,2-trichloro-1,2,2-trif	1.77	101	238657	37.29 ug/L	95
12) 1,1-dichloroethene	1.77	96	270347	45.03 ug/L #	74
13) acetone	1.84	43	78878	34.46 ug/L	91
14) iodomethane	1.88	142	305887	66.03 ug/L #	86
15) carbon disulfide	1.91	76	663290	39.43 ug/L	100
16) methyl acetate	2.09	43	157085	28.37 ug/L	96
17) methylene chloride	2.15	49	344131	35.66 ug/L	86
18) acrylonitrile	2.40	53	84739	33.65 ug/L	97
19) trans-1,2-dichloroethene	2.38	96	290788	44.31 ug/L #	86
20) methyl (tert) butyl ether	2.39	73	638960	38.67 ug/L	99
21) 1,1-dichloroethane	2.80	63	448479	37.12 ug/L	100
22) vinyl acetate	2.89	43	340085	27.27 ug/L	99
23) 2,2-dichloropropane	3.47	77	285086	35.49 ug/L	95
24) cis-1,2-dichloroethene	3.50	96	271143	41.79 ug/L	90
25) 2-butanone (MEK)	3.59	43	77205	29.52 ug/L	93
26) bromochloromethane	3.83	49	210925	35.97 ug/L	95
27) tetrahydrofuran	3.90	71	20200	34.85 ug/L	92
28) chloroform	4.00	83	420673	34.39 ug/L	100
29) 1,1,1-trichloroethane	4.20	97	368061	34.94 ug/L	99
31) cyclohexane	4.23	56	420956	38.31 ug/L	96
32) carbon tetrachloride	4.46	117	327353	33.08 ug/L	100
33) 1,1-dichloropropene	4.49	75	348894	36.57 ug/L	98
34) benzene	4.87	78	1005611	39.14 ug/L	89
35) 1,2-dichloroethane	4.97	62	321764	31.10 ug/L	96
36) heptane	4.23	57	18966	No Calib #	

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 40P0808.D
InstName : 323
Acq On : 8 Aug 2012 16:20
Operator : DLV
Sample : CAL5
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 16 11:10:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration

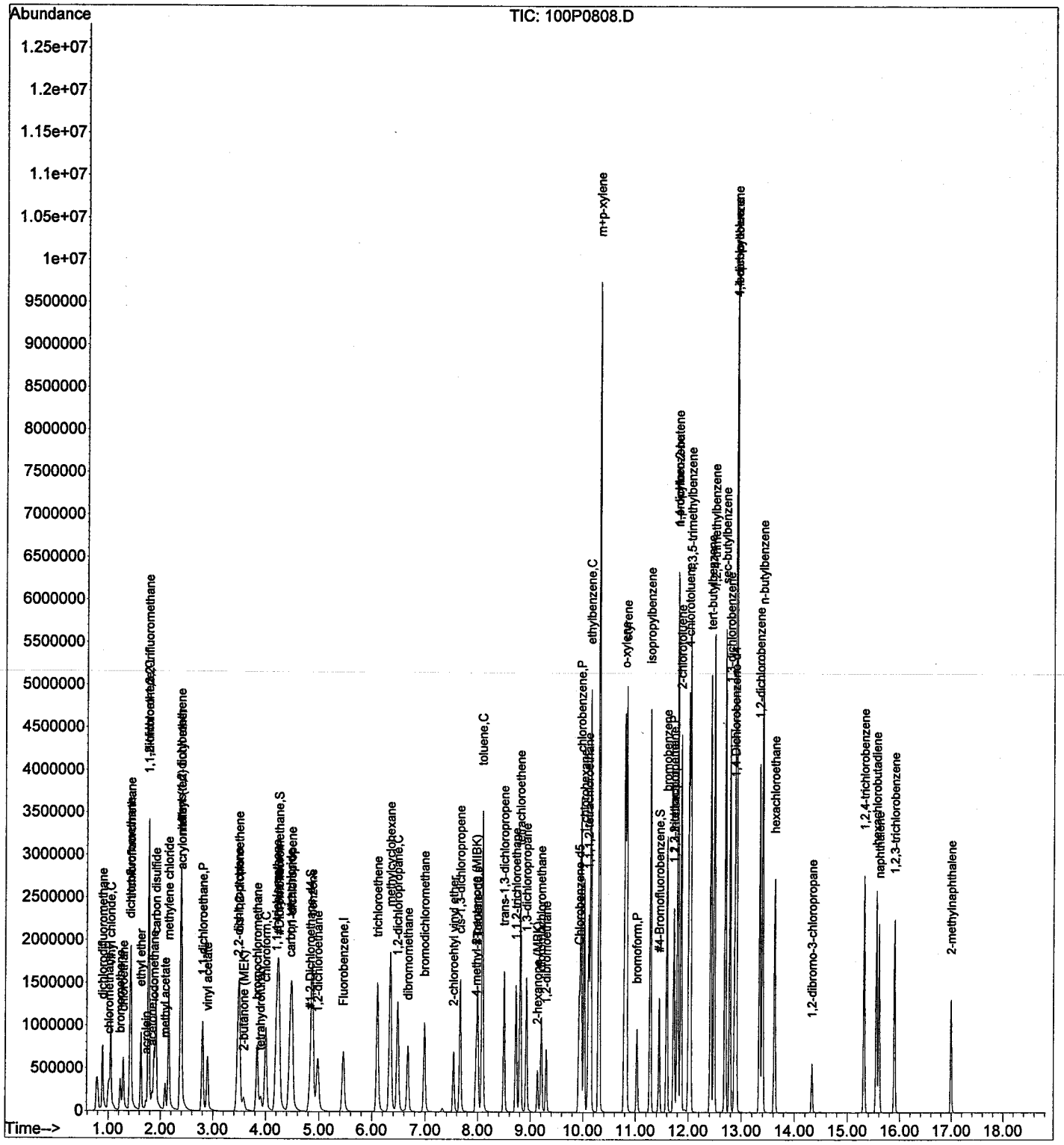
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
38) trichloroethene	6.10	130	291353	42.54	ug/L		97
39) methylcyclohexane	6.34	83	421081	39.64	ug/L		96
40) 1,2-dichloropropane	6.48	63	242248	39.52	ug/L		100
41) dibromomethane	6.67	93	133256	35.71	ug/L		97
42) bromodichloromethane	6.98	83	315333	35.63	ug/L		100
43) 2-chloroehtyl vinyl ether	7.54	63	125127	35.25	ug/L		98
44) cis-1,3-dichloropropene	7.66	75	359078	35.38	ug/L		94
45) 4-methyl-2-pentanone (MIBK	7.96	43	178214	33.22	ug/L	#	92
47) toluene	8.08	91	1106792	39.31	ug/L		99
48) trans-1,3-dichloropropene	8.50	75	334074	33.03	ug/L		97
49) 1,1,2-trichloroethane	8.72	83	156978	35.95	ug/L		98
51) tetrachloroethene	8.80	166	335928	39.84	ug/L		98
52) 1,3-dichloropropane	8.92	76	364204	39.07	ug/L		100
53) 2-hexanone (MBK)	9.13	43	123765	33.62	ug/L		96
54) dibromochloromethane	9.20	129	227140	33.28	ug/L		99
55) 1,2-dibromoethane	9.30	109	189799	39.13	ug/L		100
56) chlorobenzene	9.96	112	767400	40.42	ug/L		97
57) 1-chlorohexane	10.02	55	252431	35.83	ug/L		91
58) 1,1,1,2-tetrachloroethane	10.10	131	255226	38.55	ug/L		98
59) ethylbenzene	10.14	91	1294559	40.72	ug/L		96
60) m+p-xylene	10.30	106	1074351	87.01	ug/L		88
61) o-xylene	10.79	106	509962	39.53	ug/L		89
62) styrene	10.83	104	922041	39.54	ug/L		91
63) bromoform	11.03	173	160280	32.22	ug/L		99
66) isopropylbenzene	11.28	105	1232043	39.42	ug/L		97
67) bromobenzene	11.59	77	507169	39.81	ug/L		94
68) 1,1,2,2-tetrachloroethane	11.73	83	246186	37.02	ug/L	#	99
69) 1,2,3-trichloropropane	11.73	110	83121	36.20	ug/L		98
70) 1,4-dichloro-2-butene	11.79	53	84292	29.08	ug/L		95
71) n-propylbenzene	11.80	120	383568	44.44	ug/L	#	88
72) 2-chlorotoluene	11.86	126	332312	43.06	ug/L		93
73) 1,3,5-trimethylbenzene	12.04	105	1140147	38.15	ug/L		95
74) 4-chlorotoluene	12.01	91	1096588	40.93	ug/L		93
75) tert-butylbenzene	12.42	119	1000101	38.79	ug/L		95
76) 1,2,4-trimethylbenzene	12.48	105	1167235	38.12	ug/L		95
77) sec-butylbenzene	12.69	105	1466141	38.56	ug/L		97
78) 1,3-dichlorobenzene	12.78	146	710584	41.90	ug/L		99
79) 4-isopropyltoluene	12.89	119	1344531	42.38	ug/L		96
80) 1,4-dichlorobenzene	12.90	146	737950	41.31	ug/L		98
81) 1,2-dichlorobenzene	13.34	146	644807	42.47	ug/L		98
82) n-butylbenzene	13.39	91	1105922	37.21	ug/L		98
83) hexachloroethane	13.63	201	173689	33.47	ug/L	#	91
84) 1,2-dibromo-3-chloropropan	14.33	157	60274	33.23	ug/L		95
85) 1,2,4-trichlorobenzene	15.31	180	339133	36.66	ug/L		99
86) hexachlorobutadiene	15.55	225	202124	36.18	ug/L		100
87) naphthalene	15.60	128	659168	35.04	ug/L		98
88) 1,2,3-trichlorobenzene	15.90	180	276686	30.34	ug/L		99
89) 2-methylnaphthalene	17.00	142	244138	33.63	ug/L		98

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

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 100P0808.D
InstName : 323
Acq On : 8 Aug 2012 16:47
Operator : DLV
Sample : CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 16 11:11:08 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration



01148

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 100P0808.D
InstName : 323
Acq On : 8 Aug 2012 16:47
Operator : DLV
Sample : CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 16 11:11:08 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	1050359	40.00	ug/L	0.00 151.95%
50) Chlorobenzene-d5	9.93	117	849833	40.00	ug/L	0.00 146.86%
65) 1,4-Dichlorobenzene-d4	12.87	152	573963	40.00	ug/L	0.00 138.95%
System Monitoring Compounds						
30) #Dibromofluoromethane	4.26	111	257145	36.65	ug/L	-0.01
Spiked Amount 40.000			Recovery = 91.63%			
37) #1,2-Dichloroethane-d4	4.83	67	155171	32.94	ug/L	-0.01
Spiked Amount 40.000			Recovery = 82.35%			
46) #Toluene-d8	7.99	98	1046900	38.45	ug/L	0.00
Spiked Amount 40.000			Recovery = 96.13%			
64) #4-Bromofluorobenzene	11.45	95	428466	35.56	ug/L	0.00
Spiked Amount 40.000			Recovery = 88.90%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.89	85	747920	83.14	ug/L	100
3) chloromethane	1.01	50	759331	108.88	ug/L	98
4) vinyl chloride	1.04	62	908091	112.65	ug/L	100
5) bromomethane	1.23	94	332608	104.66	ug/L	99
6) chloroethane	1.28	64	502469	100.62	ug/L	100
7) dichlorofluoromethane	1.41	67	1224170	85.70	ug/L	99
8) trichlorofluoromethane	1.43	101	1164099	81.27	ug/L	100
9) ethyl ether	1.62	74	377674	106.72	ug/L	89
10) acrolein	1.72	56	88367	117.69	ug/L #	97
11) 1,1,2-trichloro-1,2,2-trif	1.77	101	662377	103.11	ug/L	96
12) 1,1-dichloroethene	1.77	96	731341	121.35	ug/L #	73
13) acetone	1.84	43	167698	80.73	ug/L	85
14) iodomethane	1.88	142	965721	169.09	ug/L #	86
15) carbon disulfide	1.91	76	1920191	113.70	ug/L	100
16) methyl acetate	2.09	43	412241	74.15	ug/L	95
17) methylene chloride	2.15	49	886375	95.28	ug/L	86
18) acrylonitrile	2.40	53	218413	86.40	ug/L	96
19) trans-1,2-dichloroethene	2.38	96	777953	118.09	ug/L #	86
20) methyl (tert) butyl ether	2.39	73	1696569	102.29	ug/L	100
21) 1,1-dichloroethane	2.80	63	1192302	98.31	ug/L	100
22) vinyl acetate	2.89	43	1144756	88.54	ug/L	98
23) 2,2-dichloropropane	3.47	77	791959	98.20	ug/L	95
24) cis-1,2-dichloroethene	3.50	96	723557	111.08	ug/L	91
25) 2-butanone (MEK)	3.58	43	219435	83.58	ug/L	98
26) bromochloromethane	3.83	49	544925	92.56	ug/L	94
27) tetrahydrofuran	3.90	71	53172	85.29	ug/L	91
28) chloroform	4.00	83	1105939	90.07	ug/L	99
29) 1,1,1-trichloroethane	4.20	97	1005774	95.10	ug/L	99
31) cyclohexane	4.24	56	1139355	103.28	ug/L	96
32) carbon tetrachloride	4.46	117	908918	91.50	ug/L	100
33) 1,1-dichloropropene	4.49	75	942259	95.48	ug/L	97
34) benzene	4.87	78	2690591	104.32	ug/L	96
35) 1,2-dichloroethane	4.97	62	845443	81.41	ug/L	96
36) heptane	4.23	57	50777	No Calib	#	

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 100P0808.D
InstName : 323
Acq On : 8 Aug 2012 16:47
Operator : DLV
Sample : CAL6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 16 11:11:08 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration

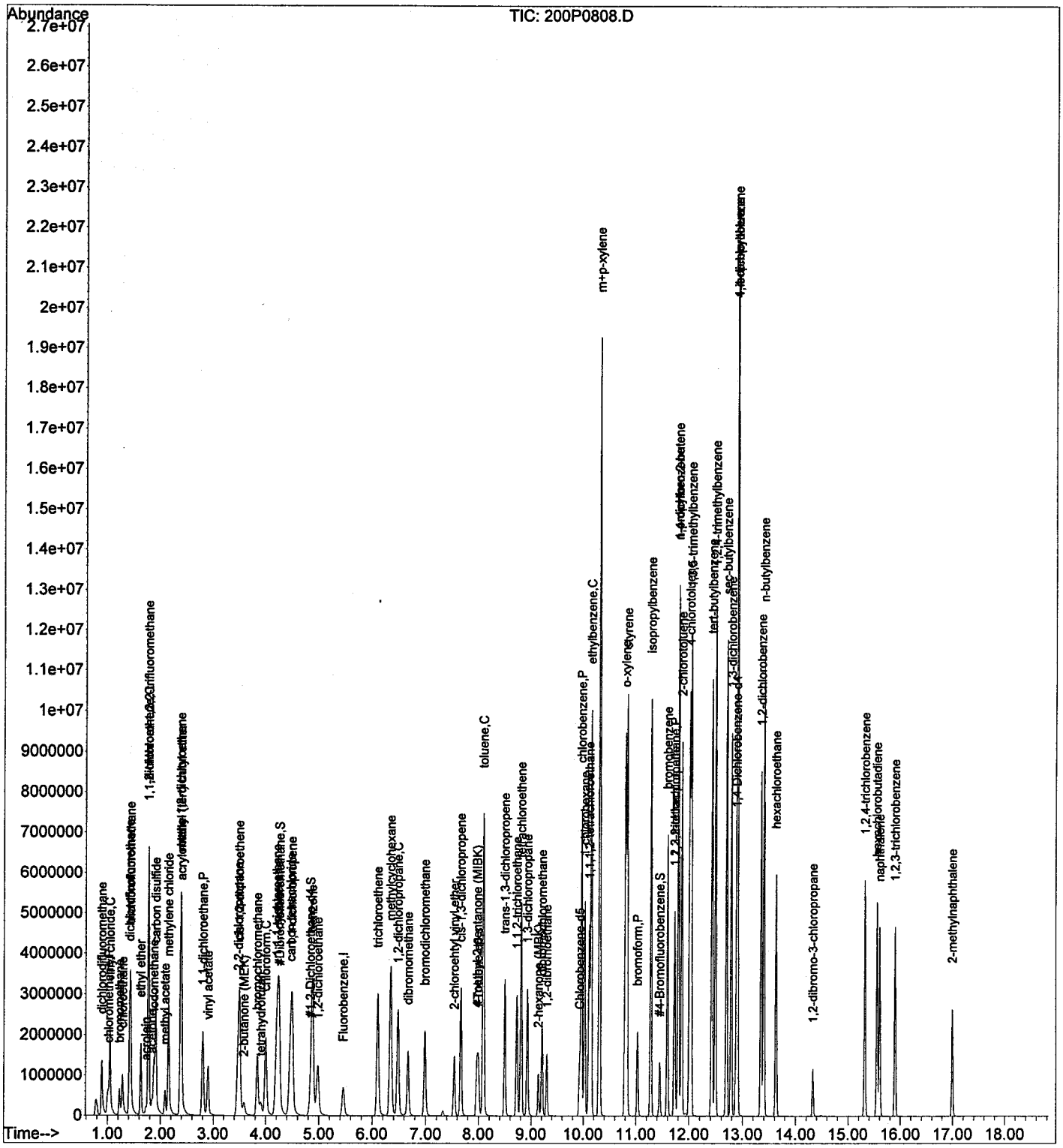
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
38) trichloroethene	6.10	130	776633	112.96	ug/L		96
39) methylcyclohexane	6.34	83	1147393	107.61	ug/L		95
40) 1,2-dichloropropane	6.48	63	657265	106.82	ug/L		100
41) dibromomethane	6.67	93	351139	93.73	ug/L		95
42) bromodichloromethane	6.98	83	863001	97.13	ug/L		100
43) 2-chloroehtyl vinyl ether	7.54	63	353621	93.53	ug/L		98
44) cis-1,3-dichloropropene	7.67	75	998040	93.48	ug/L		93
45) 4-methyl-2-pentanone (MIBK	7.96	43	501916	93.19	ug/L	#	96
47) toluene	8.09	91	3041739	107.63	ug/L		99
48) trans-1,3-dichloropropene	8.50	75	946108	87.17	ug/L		95
49) 1,1,2-trichloroethane	8.72	83	427936	97.63	ug/L		100
51) tetrachloroethene	8.80	166	918487	106.93	ug/L		98
52) 1,3-dichloropropane	8.92	76	965910	101.73	ug/L		100
53) 2-hexanone (MBK)	9.13	43	351064	86.39	ug/L		97
54) dibromochloromethane	9.21	129	650463	89.88	ug/L		99
55) 1,2-dibromoethane	9.30	109	507871	102.81	ug/L		100
56) chlorobenzene	9.96	112	2112045	109.23	ug/L		95
57) 1-chlorohexane	10.02	55	672343	93.70	ug/L		87
58) 1,1,1,2-tetrachloroethane	10.10	131	719933	106.75	ug/L		98
59) ethylbenzene	10.14	91	3619448	111.76	ug/L		96
60) m+p-xylene	10.30	106	3079984	244.88	ug/L	#	87
61) o-xylene	10.80	106	1420100	104.66	ug/L		89
62) styrene	10.83	104	2583814	105.42	ug/L		90
63) bromoform	11.03	173	480160	88.60	ug/L		99
66) isopropylbenzene	11.28	105	3476345	103.12	ug/L		97
67) bromobenzene	11.60	77	1377321	104.43	ug/L		92
68) 1,1,2,2-tetrachloroethane	11.73	83	684743	99.45	ug/L	#	100
69) 1,2,3-trichloropropane	11.73	110	221659	93.22	ug/L		97
70) 1,4-dichloro-2-butene	11.80	53	232056	73.83	ug/L	#	86
71) n-propylbenzene	11.80	120	1096433	122.68	ug/L	#	87
72) 2-chlorotoluene	11.86	126	929543	116.32	ug/L		90
73) 1,3,5-trimethylbenzene	12.04	105	3231400	100.69	ug/L		94
74) 4-chlorotoluene	12.01	91	3046973	109.84	ug/L		93
75) tert-butylbenzene	12.42	119	2836058	102.19	ug/L		94
76) 1,2,4-trimethylbenzene	12.49	105	3332872	101.67	ug/L		94
77) sec-butylbenzene	12.69	105	4205964	103.00	ug/L		97
78) 1,3-dichlorobenzene	12.78	146	2010497	114.49	ug/L		98
79) 4-isopropyltoluene	12.89	119	3971115	120.89	ug/L		95
80) 1,4-dichlorobenzene	12.90	146	2175465	117.63	ug/L		98
81) 1,2-dichlorobenzene	13.34	146	1822486	115.92	ug/L		98
82) n-butylbenzene	13.40	91	3137291	99.09	ug/L		98
83) hexachloroethane	13.63	201	560614	94.84	ug/L		98
84) 1,2-dibromo-3-chloropropan	14.33	157	174718	87.87	ug/L		94
85) 1,2,4-trichlorobenzene	15.32	180	979883	98.14	ug/L		98
86) hexachlorobutadiene	15.55	225	582775	100.74	ug/L		100
87) naphthalene	15.60	128	1828811	88.32	ug/L		98
88) 1,2,3-trichlorobenzene	15.90	180	785748	79.16	ug/L		99
89) 2-methylnaphthalene	17.00	142	698854	83.92	ug/L		98

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

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 200P0808.D
InstName : 323
Acq On : 8 Aug 2012 17:41
Operator : DLV
Sample : CAL7
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 16 11:11:15 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration



01151

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 200P0808.D
InstName : 323
Acq On : 8 Aug 2012 17:41
Operator : DLV
Sample : CAL7
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 16 11:11:15 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	1043591	40.00	ug/L	0.00 150.97%
50) Chlorobenzene-d5	9.93	117	859768	40.00	ug/L	0.00 148.58%
65) 1,4-Dichlorobenzene-d4	12.88	152	591219	40.00	ug/L	0.00 143.13%
System Monitoring Compounds						
30) #Dibromofluoromethane	4.26	111	262003	37.59	ug/L	0.00
Spiked Amount 40.000			Recovery = 93.98%			
37) #1,2-Dichloroethane-d4	4.83	67	156700	33.48	ug/L	0.00
Spiked Amount 40.000			Recovery = 83.70%			
46) #Toluene-d8	7.99	98	1059411	39.16	ug/L	0.00
Spiked Amount 40.000			Recovery = 97.90%			
64) #4-Bromofluorobenzene	11.45	95	434952	35.68	ug/L	0.00
Spiked Amount 40.000			Recovery = 89.20%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.89	85	1432200	160.23	ug/L	100
3) chloromethane	1.01	50	1435161	207.12	ug/L	98
4) vinyl chloride	1.04	62	1758696	219.58	ug/L	99
5) bromomethane	1.23	94	605391	166.96	ug/L	100
6) chloroethane	1.28	64	862428	173.83	ug/L	100
7) dichlorofluoromethane	1.41	67	2382151	167.85	ug/L	99
8) trichlorofluoromethane	1.43	101	2295145	161.27	ug/L	99
9) ethyl ether	1.63	74	744196	211.66	ug/L	89
10) acrolein	1.72	56	174009	233.26	ug/L	95
11) 1,1,2-trichloro-1,2,2-trif	1.77	101	1313012	205.71	ug/L	96
12) 1,1-dichloroethene	1.77	96	1434734	239.61	ug/L #	71
13) acetone	1.84	43	308847	155.57	ug/L	84
14) iodomethane	1.88	142	2003285	298.63	ug/L #	86
15) carbon disulfide	1.91	76	3994174	238.04	ug/L	100
16) methyl acetate	2.09	43	804192	145.60	ug/L	94
17) methylene chloride	2.15	49	1714321	187.76	ug/L	84
18) acrylonitrile	2.40	53	425559	169.44	ug/L	97
19) trans-1,2-dichloroethene	2.38	96	1461141	223.24	ug/L	90
20) methyl (tert) butyl ether	2.39	73	3321876	201.58	ug/L	99
21) 1,1-dichloroethane	2.80	63	2374753	197.08	ug/L	100
22) vinyl acetate	2.90	43	2230816	172.47	ug/L	98
23) 2,2-dichloropropane	3.47	77	1545667	192.89	ug/L	95
24) cis-1,2-dichloroethene	3.50	96	1458197	225.31	ug/L	90
25) 2-butanone (MEK)	3.59	43	460682	176.62	ug/L	95
26) bromochloromethane	3.83	49	1066077	182.26	ug/L	93
27) tetrahydrofuran	3.90	71	107788	170.10	ug/L	89
28) chloroform	4.00	83	2215304	181.58	ug/L	100
29) 1,1,1-trichloroethane	4.20	97	2013679	191.64	ug/L	99
31) cyclohexane	4.24	56	2259444	206.14	ug/L	96
32) carbon tetrachloride	4.46	117	1840382	186.48	ug/L	100
33) 1,1-dichloropropene	4.49	75	1877305	189.75	ug/L	97
34) benzene	4.87	78	5393898	210.50	ug/L	94
35) 1,2-dichloroethane	4.98	62	1678017	162.63	ug/L	95
36) heptane	4.24	57	100241	No Calib	#	

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : 200P0808.D
InstName : 323
Acq On : 8 Aug 2012 17:41
Operator : DLV
Sample : CAL7
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 16 11:11:15 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A167.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:09:47 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min) Rcv(Ar)
38) trichloroethene	6.10	130	1589006	232.61 ug/L		96
39) methylcyclohexane	6.34	83	2280301	215.25 ug/L		95
40) 1,2-dichloropropane	6.48	63	1322143	216.27 ug/L		100
41) dibromomethane	6.67	93	708391	190.32 ug/L		94
42) bromodichloromethane	6.98	83	1763399	199.76 ug/L		100
43) 2-chloroehtyl vinyl ether	7.54	63	755765	197.57 ug/L		98
44) cis-1,3-dichloropropene	7.67	75	2052464	190.77 ug/L		91
45) 4-methyl-2-pentanone (MIBK	7.97	43	1080733	201.97 ug/L	#	97
47) toluene	8.09	91	6315760	224.93 ug/L		100
48) trans-1,3-dichloropropene	8.50	75	1950422	177.33 ug/L		94
49) 1,1,2-trichloroethane	8.73	83	875190	200.97 ug/L		99
51) tetrachloroethene	8.81	166	1906640	219.41 ug/L		97
52) 1,3-dichloropropane	8.93	76	1971447	205.24 ug/L		100
53) 2-hexanone (MBK)	9.14	43	751864	178.35 ug/L		96
54) dibromochloromethane	9.21	129	1362152	183.87 ug/L		99
55) 1,2-dibromoethane	9.30	109	1044152	208.92 ug/L		99
56) chlorobenzene	9.96	112	4516952	230.90 ug/L		94
57) 1-chlorohexane	10.03	55	1341446	184.78 ug/L	#	83
58) 1,1,1,2-tetrachloroethane	10.11	131	1530711	224.35 ug/L		98
59) ethylbenzene	10.15	91	7711680	235.37 ug/L		97
60) m+p-xylene	10.31	106	6663922	523.71 ug/L	#	83
61) o-xylene	10.80	106	3028143	218.41 ug/L		89
62) styrene	10.83	104	5596588	223.53 ug/L		87
63) bromoform	11.03	173	1037130	185.55 ug/L		99
66) isopropylbenzene	11.28	105	7419038	210.96 ug/L		97
67) bromobenzene	11.60	77	2848964	209.70 ug/L		89
68) 1,1,2,2-tetrachloroethane	11.73	83	1403049	197.83 ug/L	#	99
69) 1,2,3-trichloropropane	11.74	110	460659	188.09 ug/L		96
70) 1,4-dichloro-2-butene	11.80	53	470946	143.43 ug/L	#	76
71) n-propylbenzene	11.81	120	2360861	256.46 ug/L	#	85
72) 2-chlorotoluene	11.87	126	1976919	240.16 ug/L	#	85
73) 1,3,5-trimethylbenzene	12.04	105	6941535	207.65 ug/L		93
74) 4-chlorotoluene	12.01	91	6456713	225.96 ug/L		92
75) tert-butylbenzene	12.42	119	6111966	211.27 ug/L		92
76) 1,2,4-trimethylbenzene	12.49	105	7095434	208.04 ug/L		94
77) sec-butylbenzene	12.70	105	8915138	209.66 ug/L		97
78) 1,3-dichlorobenzene	12.79	146	4319404	238.79 ug/L		98
79) 4-isopropyltoluene	12.90	119	8575294	253.42 ug/L		94
80) 1,4-dichlorobenzene	12.91	146	4737490	248.68 ug/L		97
81) 1,2-dichlorobenzene	13.35	146	3869703	238.96 ug/L		98
82) n-butylbenzene	13.40	91	6557707	199.39 ug/L		98
83) hexachloroethane	13.63	201	1246378	199.49 ug/L		99
84) 1,2-dibromo-3-chloropropan	14.33	157	365179	175.35 ug/L		93
85) 1,2,4-trichlorobenzene	15.32	180	2116980	203.29 ug/L		98
86) hexachlorobutadiene	15.56	225	1233861	207.06 ug/L		100
87) naphthalene	15.60	128	3860243	177.49 ug/L		97
88) 1,2,3-trichlorobenzene	15.90	180	1679424	161.75 ug/L		99
89) 2-methylnaphthalene	17.00	142	1413101	159.79 ug/L		98

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

SECOND-SOURCE CALIBRATION VERIFICATION

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Laboratory ID: 2G19007-SCV1
Sequence: 2G19007

SDG: KNM070512
Project: KNM
Standard ID: 2070149
Calibration: 2G19002

Analyte	Expected (ug/L)	Found (ug/L)	% Rec.	QC Limit
Acetone	40.0	40.6	102	75-125
Benzene	40.0	45.0	113	75-125
Bromodichloromethane	40.0	42.2	106	75-125
Bromoform	40.0	38.1	95	75-125
Bromomethane	40.0	46.0	115	75-125
Carbon Disulfide	40.0	59.9	150 *	75-125
Carbon Tetrachloride	40.0	45.5	114	75-125
Chlorobenzene	40.0	43.8	110	75-125
Chloroethane	40.0	45.4	114	75-125
Chloroform	40.0	43.6	109	75-125
Chloromethane	40.0	47.0	118	75-125
Cyclohexane	40.0	47.3	118	75-125
1,2-Dibromo-3-chloropropane	40.0	36.3	91	75-125
Dibromochloromethane	40.0	43.7	109	75-125
1,2-Dibromoethane	40.0	43.3	108	75-125
1,2-Dichlorobenzene	40.0	42.0	105	75-125
1,3-Dichlorobenzene	40.0	43.1	108	75-125
1,4-Dichlorobenzene	40.0	42.2	106	75-125
Dichlorodifluoromethane	40.0	41.3	103	75-125
1,1-Dichloroethane	40.0	44.9	112	75-125
1,2-Dichloroethane	40.0	42.0	105	75-125
1,1-Dichloroethene	40.0	41.4	104	75-125
cis-1,2-Dichloroethene	40.0	46.2	116	75-125
trans-1,2-Dichloroethene	40.0	44.1	110	75-125
1,2-Dichloropropane	40.0	43.9	110	75-125
cis-1,3-Dichloropropene	40.0	42.0	105	75-125
trans-1,3-Dichloropropene	40.0	35.8	90	75-125

SECOND-SOURCE CALIBRATION VERIFICATION

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Laboratory ID: 2G19007-SCV1
Sequence: 2G19007

SDG: KNM070512
Project: KNM
Standard ID: 2070149
Calibration: 2G19002

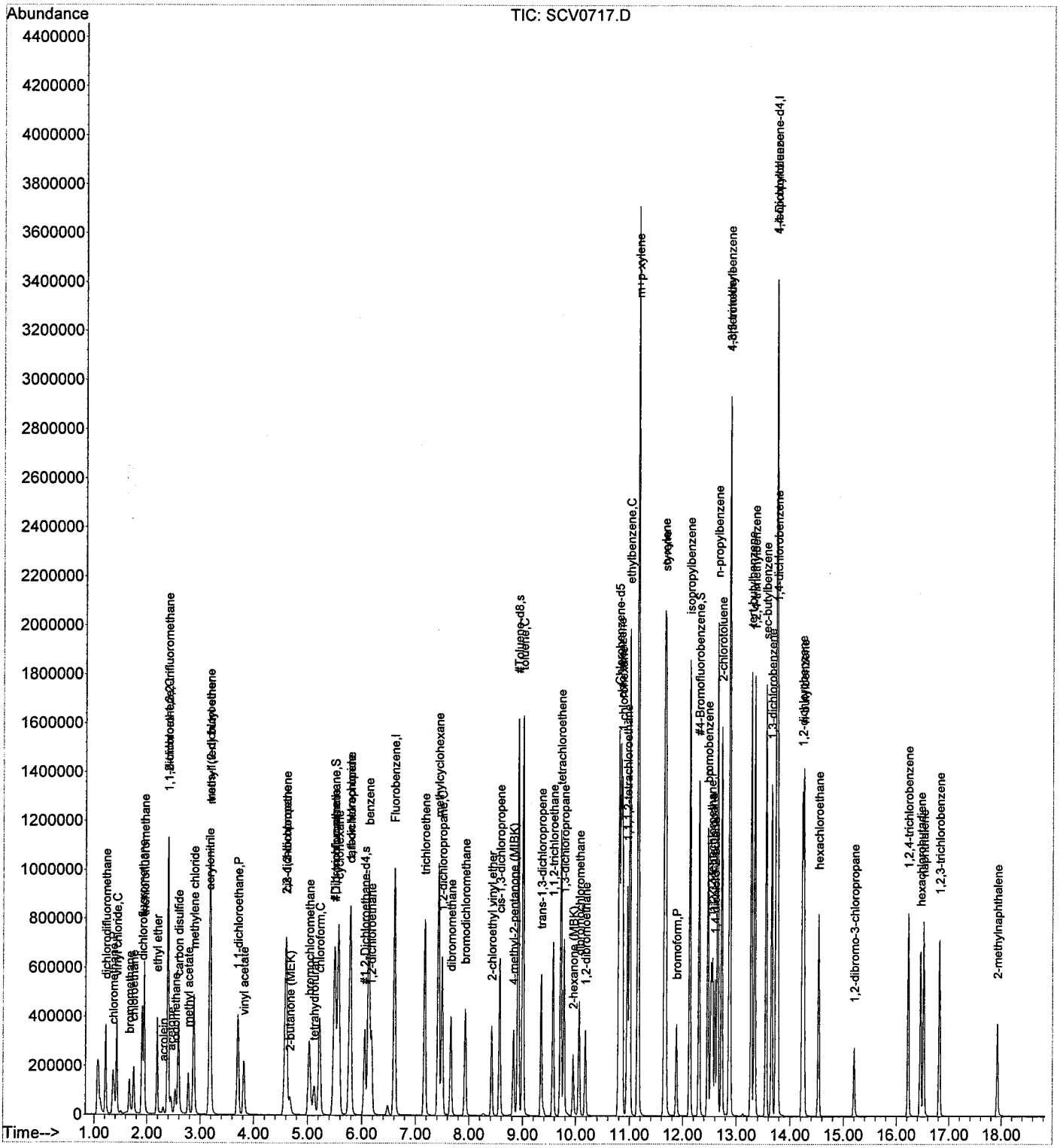
Analyte	Expected (ug/L)	Found (ug/L)	% Rec.	QC Limit
Ethylbenzene	40.0	46.1	115	75-125
2-Hexanone	40.0	40.4	101	75-125
Isopropylbenzene	40.0	44.3	111	75-125
Methyl Acetate	40.0	36.9	92	75-125
Methyl tert-Butyl Ether	40.0	43.6	109	75-125
Methylcyclohexane	40.0	46.7	117	75-125
Methylene Chloride	40.0	39.4	99	75-125
2-Butanone (MEK)	40.0	41.6	104	75-125
4-Methyl-2-pentanone (MIBK)	40.0	44.7	112	75-125
Styrene	40.0	45.5	114	75-125
1,1,2,2-Tetrachloroethane	40.0	37.1	93	75-125
Tetrachloroethene	40.0	45.4	114	75-125
Toluene	40.0	45.1	113	75-125
1,2,4-Trichlorobenzene	40.0	40.5	101	75-125
1,1,1-Trichloroethane	40.0	45.9	115	75-125
1,1,2-Trichloroethane	40.0	43.6	109	75-125
Trichloroethene	40.0	45.9	115	75-125
Trichlorofluoromethane	40.0	40.6	102	75-125
1,1,2-Trichloro-1,2,2-trifluoroethane	40.0	45.3	113	75-125
Vinyl Chloride	40.0	44.9	112	75-125
Xylene (Total)	120	139	116	75-125
Dibromofluoromethane	40.0	39.6	99	75-125
1,2-Dichloroethane-d4	40.0	39.0	98	75-125
Toluene-d8	40.0	39.7	99	75-125
4-Bromofluorobenzene	40.0	39.7	99	75-125

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : SCV0717.D
Acq On : 17 Jul 2012 19:43
Operator : DLV
Sample : SCV1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 18 07:31:04 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration



01156

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : SCV0717.D
Acq On : 17 Jul 2012 19:43
Operator : DLV
Sample : SCV1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 18 07:31:04 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.61	96	1191722	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	956946	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	562671	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.50	111	276514	39.59	ug/L	0.00
Spiked Amount 40.000			Recovery =	98.98%		
37) #1,2-Dichloroethane-d4	6.05	65	310531	39.04	ug/L	0.00
Spiked Amount 40.000			Recovery =	97.60%		
47) #Toluene-d8	8.91	98	1207180	39.73	ug/L	0.00
Spiked Amount 40.000			Recovery =	99.33%		
65) #4-Bromofluorobenzene	12.30	95	470894	39.66	ug/L	0.00
Spiked Amount 40.000			Recovery =	99.15%		
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.22	85	337809	41.29	ug/L	99
3) chloromethane	1.36	50	311214	47.03	ug/L	100
4) vinyl chloride	1.43	62	321408	44.93	ug/L	100
5) bromomethane	1.66	94	108345	46.04	ug/L	99
6) chloroethane	1.75	64	173099	45.35	ug/L	99
7) dichlorofluoromethane	1.91	67	435563	44.62	ug/L	100
8) trichlorofluoromethane	1.94	101	392599	40.61	ug/L	99
9) ethyl ether	2.19	74	139459	49.29	ug/L	99
10) acrolein	2.30	56	23760	24.76	ug/L #	98
11) 1,1,2-trichloro-1,2,2-trif	2.39	101	230270	45.27	ug/L	99
12) 1,1-dichloroethene	2.38	96	200058	41.35	ug/L	100
13) acetone	2.45	43	86086	40.57	ug/L	100
14) iodomethane	2.53	142	164302	38.25	ug/L	100
15) carbon disulfide	2.59	76	558586	59.90	ug/L	99
16) methyl acetate	2.77	43	211046	36.93	ug/L	100
17) methylene chloride	2.88	49	329673	39.44	ug/L	100
18) acrylonitrile	3.16	53	112638	41.42	ug/L	99
19) trans-1,2-dichloroethene	3.17	96	268178	44.11	ug/L	100
20) methyl (tert) butyl ether	3.19	73	692193	43.59	ug/L	99
21) 1,1-dichloroethane	3.71	63	471009	44.87	ug/L	100
22) vinyl acetate	3.82	43	401680	38.38	ug/L	99
23) 2,2-dichloropropane	4.59	77	306810	44.58	ug/L	100
24) cis-1,2-dichloroethene	4.60	96	306936	46.15	ug/L	98
25) 2-butanone (MEK)	4.68	43	115005	41.64	ug/L	99
26) bromochloromethane	5.03	49	226536	42.37	ug/L	99
27) tetrahydrofuran	5.12	71	42242	42.34	ug/L	98
28) chloroform	5.22	83	462939	43.61	ug/L	100
30) 1,1,1-trichloroethane	5.49	97	408428	45.88	ug/L	99
31) cyclohexane	5.57	56	529124	47.32	ug/L	100
32) carbon tetrachloride	5.77	117	370439	45.52	ug/L	99
33) 1,1-dichloropropene	5.79	75	382593	45.10	ug/L	99
34) benzene	6.13	78	1183309	44.98	ug/L	99
35) 1,2-dichloroethane	6.18	62	348541	42.02	ug/L	100
36) heptane	6.61	57	37364	No Calib	#	
38) trichloroethene	7.17	130	348693	45.91	ug/L	99
39) methylcyclohexane	7.42	83	518911	46.72	ug/L	99
40) 1,2-dichloropropane	7.49	63	275572	43.92	ug/L	100
41) dibromomethane	7.66	93	156071	42.49	ug/L	99

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-17-12\
InstName : 224
Data File : SCV0717.D
Acq On : 17 Jul 2012 19:43
Operator : DLV
Sample : SCV1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 18 07:31:04 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.			
43) bromodichloromethane	7.93	83	329170	42.24	ug/L		100
44) 2-chloroethyl vinyl ether	8.42	63	161704	54.87	ug/L		100
45) cis-1,3-dichloropropene	8.57	75	400001	41.98	ug/L		99
46) 4-methyl-2-pentanone (MIBK	8.83	43	259722	44.66	ug/L		100
48) toluene	9.00	91	1354348	45.10	ug/L		99
49) trans-1,3-dichloropropene	9.35	75	320058	35.84	ug/L		97
50) 1,1,2-trichloroethane	9.57	83	204123	43.56	ug/L		98
52) tetrachloroethene	9.72	166	413846	45.35	ug/L		99
53) 1,3-dichloropropane	9.78	76	436741	44.14	ug/L		99
54) 2-hexanone (MBK)	9.95	43	184391	40.41	ug/L		100
55) dibromochloromethane	10.06	129	269502	43.73	ug/L		99
56) 1,2-dibromoethane	10.18	109	241532	43.33	ug/L		99
57) chlorobenzene	10.83	112	886149	43.75	ug/L		98
58) 1-chlorohexane	10.86	55	305093	45.54	ug/L		94
59) 1,1,1,2-tetrachloroethane	10.95	131	288996	44.49	ug/L		99
60) ethylbenzene	11.00	91	1548312	46.09	ug/L		98
61) m+p-xylene	11.16	106	1237685	91.83	ug/L		94
62) o-xylene	11.65	106	582944	46.70	ug/L		96
63) styrene	11.67	104	988963	45.48	ug/L		98
64) bromoform	11.88	173	198625	38.10	ug/L		100
67) isopropylbenzene	12.13	105	1323711	44.31	ug/L		97
68) bromobenzene	12.47	77	529035	43.37	ug/L		99
69) 1,1,2,2-tetrachloroethane	12.53	83	320155	37.06	ug/L	#	98
70) 1,2,3-trichloropropane	12.56	110	113753	40.47	ug/L		97
71) 1,4-dichloro-2-butene	12.60	53	116120	35.16	ug/L		94
72) n-propylbenzene	12.65	120	410461	46.16	ug/L		96
73) 2-chlorotoluene	12.73	126	352739	45.01	ug/L		96
74) 1,3,5-trimethylbenzene	12.88	105	1155805	47.37	ug/L		98
75) 4-chlorotoluene	12.87	126	352236	44.24	ug/L		95
76) tert-butylbenzene	13.28	119	992928	46.86	ug/L		98
77) 1,2,4-trimethylbenzene	13.34	105	1113053	46.20	ug/L		98
78) sec-butylbenzene	13.55	105	1332434	46.64	ug/L		98
79) 1,3-dichlorobenzene	13.66	146	669191	43.08	ug/L		99
80) 4-isopropyltoluene	13.75	119	1062309	43.00	ug/L		98
81) 1,4-dichlorobenzene	13.77	146	689231	42.23	ug/L		98
82) 1,2-dichlorobenzene	14.23	146	629316	41.96	ug/L		99
83) n-butylbenzene	14.26	91	819467	41.37	ug/L		98
84) hexachloroethane	14.53	201	146532	39.21	ug/L	#	90
85) 1,2-dibromo-3-chloropropan	15.20	157	95692	36.29	ug/L		99
86) 1,2,4-trichlorobenzene	16.23	180	320985	40.53	ug/L		100
87) hexachlorobutadiene	16.46	225	166812	41.12	ug/L		100
88) naphthalene	16.51	128	719913	34.29	ug/L		99
89) 1,2,3-trichlorobenzene	16.82	180	283025	38.70	ug/L		99
90) 2-methylnaphthalene	17.92	142	219991	39.55	ug/L		100

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

SECOND-SOURCE CALIBRATION VERIFICATION

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Laboratory ID: 2G27017-SCV1
Sequence: 2G27017

SDG: KNM070512
Project: KNM
Standard ID: 2070512
Calibration: 2G27002

Analyte	Expected (ug/L)	Found (ug/L)	% Rec.	QC Limit
Acetone	40.0	37.5	94	75-125
Benzene	40.0	38.7	97	75-125
Bromodichloromethane	40.0	41.0	103	75-125
Bromoform	40.0	35.2	88	75-125
Bromomethane	40.0	45.7	114	75-125
Carbon Disulfide	40.0	31.4	79	75-125
Carbon Tetrachloride	40.0	40.5	101	75-125
Chlorobenzene	40.0	38.5	96	75-125
Chloroethane	40.0	39.4	99	75-125
Chloroform	40.0	38.2	96	75-125
Chloromethane	40.0	37.9	95	75-125
Cyclohexane	40.0	40.1	100	75-125
1,2-Dibromo-3-chloropropane	40.0	38.3	96	75-125
Dibromochloromethane	40.0	40.8	102	75-125
1,2-Dibromoethane	40.0	39.2	98	75-125
1,2-Dichlorobenzene	40.0	40.2	101	75-125
1,3-Dichlorobenzene	40.0	39.2	98	75-125
1,4-Dichlorobenzene	40.0	38.1	95	75-125
Dichlorodifluoromethane	40.0	41.2	103	75-125
1,1-Dichloroethane	40.0	39.1	98	75-125
1,2-Dichloroethane	40.0	38.7	97	75-125
1,1-Dichloroethene	40.0	41.3	103	75-125
cis-1,2-Dichloroethene	40.0	39.1	98	75-125
trans-1,2-Dichloroethene	40.0	40.6	102	75-125
1,2-Dichloropropane	40.0	39.2	98	75-125
cis-1,3-Dichloropropene	40.0	33.7	84	75-125
trans-1,3-Dichloropropene	40.0	38.6	97	75-125

SECOND-SOURCE CALIBRATION VERIFICATION

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Laboratory ID: 2G27017-SCV1
Sequence: 2G27017

SDG: KNM070512
Project: KNM
Standard ID: 2070512
Calibration: 2G27002

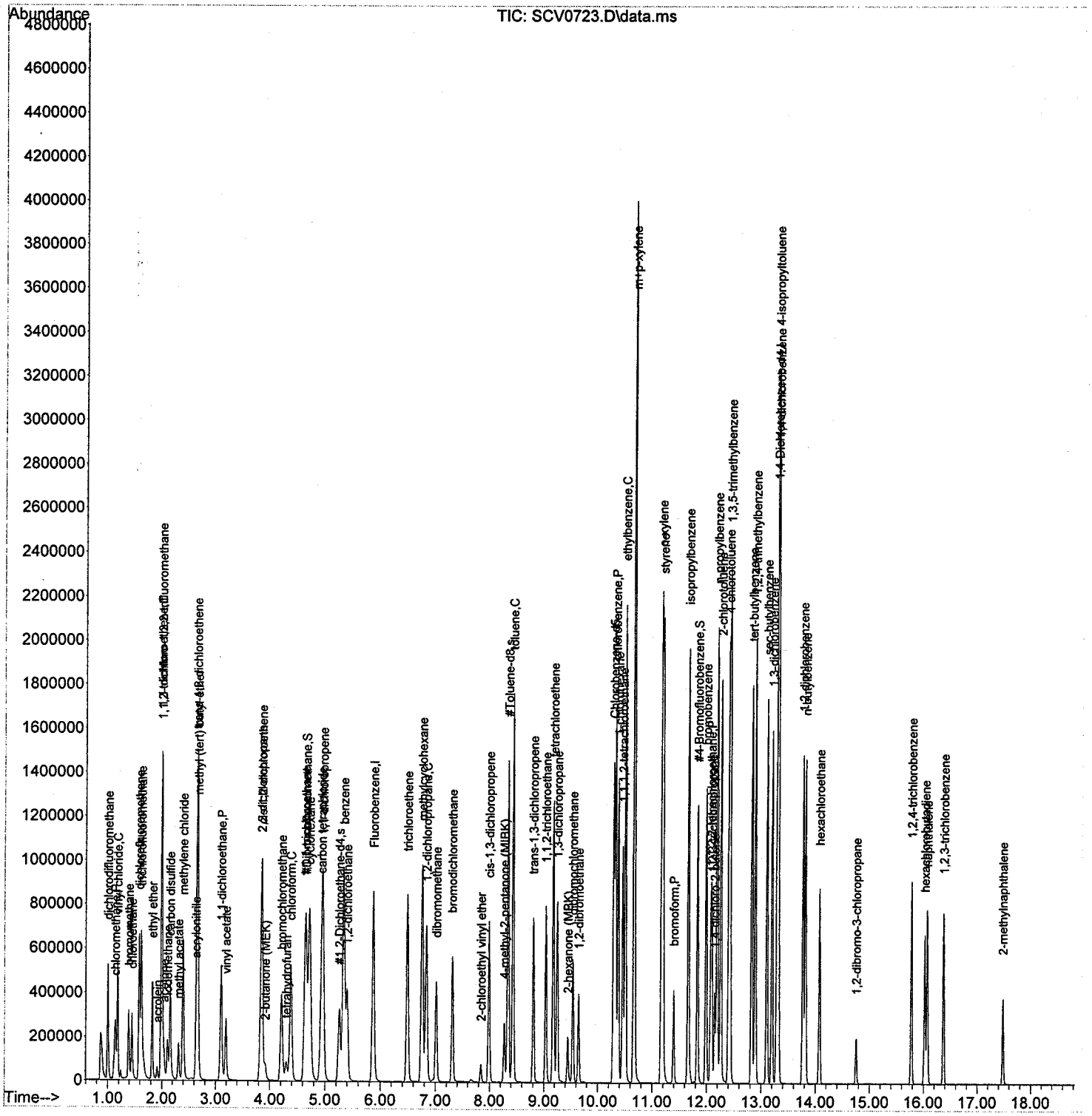
Analyte	Expected (ug/L)	Found (ug/L)	% Rec.	QC Limit
Ethylbenzene	40.0	40.6	102	75-125
2-Hexanone	40.0	32.8	82	75-125
Isopropylbenzene	40.0	40.2	101	75-125
Methyl Acetate	40.0	36.7	92	75-125
Methyl tert-Butyl Ether	40.0	39.5	99	75-125
Methylcyclohexane	40.0	37.0	93	75-125
Methylene Chloride	40.0	39.0	98	75-125
2-Butanone (MEK)	40.0	35.0	88	75-125
4-Methyl-2-pentanone (MIBK)	40.0	31.8	80	75-125
Styrene	40.0	37.5	94	75-125
1,1,2,2-Tetrachloroethane	40.0	37.5	94	75-125
Tetrachloroethene	40.0	38.8	97	75-125
Toluene	40.0	38.7	97	75-125
1,2,4-Trichlorobenzene	40.0	45.0	113	75-125
1,1,1-Trichloroethane	40.0	39.8	100	75-125
1,1,2-Trichloroethane	40.0	37.8	95	75-125
Trichloroethene	40.0	39.9	100	75-125
Trichlorofluoromethane	40.0	40.8	102	75-125
1,1,2-Trichloro-1,2,2-trifluoroethane	40.0	36.8	92	75-125
Vinyl Chloride	40.0	39.4	99	75-125
Xylene (Total)	120	120	100	75-125
Dibromofluoromethane	40.0	39.7	99	75-125
1,2-Dichloroethane-d4	40.0	39.5	99	75-125
Toluene-d8	40.0	39.8	100	75-125
4-Bromofluorobenzene	40.0	41.0	103	75-125

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : SCV0723.D
Acq On : 23 Jul 2012 18:18
Operator : LEW
Sample : SCV0723
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 24 08:07:02 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



01161

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : SCV0723.D
Acq On : 23 Jul 2012 18:18
Operator : LEW
Sample : SCV0723
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 24 08:07:02 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.872	96	1074565	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.286	117	810674	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.292	152	449212	40.00	ug/L	# 0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	4.653	111	305338	39.71	ug/L	0.00
Spiked Amount 40.000			Recovery = 99.28%			
37) #1,2-Dichloroethane-d4	5.257	67	185940	39.48	ug/L	0.00
Spiked Amount 40.000			Recovery = 98.70%			
47) #Toluene-d8	8.341	98	1054911	39.79	ug/L	0.00
Spiked Amount 40.000			Recovery = 99.48%			
65) #4-Bromofluorobenzene	11.835	95	424958	40.95	ug/L	0.00
Spiked Amount 40.000			Recovery = 102.38%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.001	85	445520	41.20	ug/L	100
3) chloromethane	1.136	50	386735	37.88	ug/L	99
4) vinyl chloride	1.178	62	410401	39.42	ug/L	100
5) bromomethane	1.385	94	192568	45.68	ug/L	100
6) chloroethane	1.446	64	221930	39.45	ug/L	99
7) dichlorofluoromethane	1.581	67	590215	37.48	ug/L	100
8) trichlorofluoromethane	1.617	101	618600	40.83	ug/L	100
9) ethyl ether	1.824	74	153277	34.48	ug/L	96
10) acrolein	1.916	56	41972	42.69	ug/L	98
11) 1,1,2-trichloro-1,2,2-...	1.995	101	315094	36.76	ug/L	97
12) 1,1-dichloroethene	1.989	96	289484	41.32	ug/L	93
13) acetone	2.038	43	94706	37.49	ug/L #	90
14) iodomethane	2.105	142	246512	26.62	ug/L	96
15) carbon disulfide	2.154	76	565973	31.37	ug/L	100
16) methyl acetate	2.312	43	198516	36.74	ug/L	96
17) methylene chloride	2.391	49	395502	39.04	ug/L	92
18) acrylonitrile	2.629	53	112618	38.32	ug/L	96
19) trans-1,2-dichloroethene	2.647	96	344784	40.62	ug/L	97
20) methyl (tert) butyl ether	2.666	73	753432	39.48	ug/L	93
21) 1,1-dichloroethane	3.099	63	605099	39.08	ug/L	98
22) vinyl acetate	3.190	43	455380	36.18	ug/L	96
23) 2,2-dichloropropane	3.842	77	346788	36.35	ug/L	93
24) cis-1,2-dichloroethene	3.854	96	354226	39.10	ug/L	98
25) 2-butanone (MEK)	3.915	43	114045	35.03	ug/L	94
26) bromochloromethane	4.214	49	274525	37.94	ug/L #	76
27) tetrahydrofuran	4.300	71	28297	35.98	ug/L #	77
28) chloroform	4.379	83	607955	38.20	ug/L	100
30) 1,1,1-trichloroethane	4.641	97	526255	39.85	ug/L	95
31) cyclohexane	4.714	56	599754	40.09	ug/L	87
32) carbon tetrachloride	4.934	117	477014	40.49	ug/L	99
33) 1,1-dichloropropene	4.958	75	497269	42.16	ug/L	100
34) benzene	5.336	78	1300185	38.69	ug/L	97
35) 1,2-dichloroethane	5.397	62	485709	38.67	ug/L	96
36) heptane	5.872	57	39733	No Calib		
38) trichloroethene	6.488	130	369234	39.92	ug/L	97

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-23-12\
InstName : 328
Data File : SCV0723.D
Acq On : 23 Jul 2012 18:18
Operator : LEW
Sample : SCV0723
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 24 08:07:02 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	6.756	83	517347	37.01 ug/L	95
40) 1,2-dichloropropane	6.836	63	312706	39.21 ug/L	95
41) dibromomethane	7.012	93	198306	39.27 ug/L #	87
42) 1,4-dioxane	7.012	88	754	No Calib #	
43) bromodichloromethane	7.305	83	435807	40.98 ug/L	99
44) 2-chloroethyl vinyl ether	7.841	63	36159	25.80 ug/L	93
45) cis-1,3-dichloropropene	7.988	75	432812	33.72 ug/L	95
46) 4-methyl-2-pentanone (...	8.268	43	212980	31.77 ug/L	93
48) toluene	8.433	91	1352358	38.66 ug/L	100
49) trans-1,3-dichloropropene	8.805	75	403449	38.65 ug/L	100
50) 1,1,2-trichloroethane	9.036	83	218014	37.84 ug/L	94
52) tetrachloroethene	9.177	166	413133	38.75 ug/L	96
53) 1,3-dichloropropane	9.250	76	474269	38.61 ug/L	99
54) 2-hexanone (MBK)	9.445	43	151642	32.83 ug/L	95
55) dibromochloromethane	9.536	129	300535	40.83 ug/L	98
56) 1,2-dibromoethane	9.646	109	250921	39.23 ug/L #	100
57) chlorobenzene	10.323	112	899960	38.52 ug/L	98
58) 1-chlorohexane	10.371	55	336618	39.87 ug/L	96
59) 1,1,1,2-tetrachloroethane	10.457	131	300315	39.83 ug/L	96
60) ethylbenzene	10.506	91	1580607	40.59 ug/L	99
61) m+p-xylene	10.670	106	1235821	83.24 ug/L	95
62) o-xylene	11.170	106	574576	37.22 ug/L	95
63) styrene	11.195	104	982045	37.52 ug/L	96
64) bromoform	11.396	173	186811	35.17 ug/L	99
67) isopropylbenzene	11.664	105	1383527	40.22 ug/L	98
68) bromobenzene	11.987	77	582850	37.65 ug/L	87
69) 1,1,2,2-tetrachloroethane	12.072	83	336855	37.48 ug/L #	100
70) 1,2,3-trichloropropane	12.097	110	111296	37.68 ug/L #	86
71) 1,4-dichloro-2-butene	12.146	53	101225	36.61 ug/L	88
72) n-propylbenzene	12.188	120	390526	41.93 ug/L	97
73) 2-chlorotoluene	12.261	126	355537	39.05 ug/L #	89
74) 1,3,5-trimethylbenzene	12.426	105	1198793	40.55 ug/L	98
75) 4-chlorotoluene	12.402	91	1224788	40.87 ug/L	99
76) tert-butylbenzene	12.828	119	911416	37.23 ug/L	99
77) 1,2,4-trimethylbenzene	12.889	105	1154398	42.68 ug/L	98
78) sec-butylbenzene	13.103	105	1237626	37.15 ug/L	98
79) 1,3-dichlorobenzene	13.200	146	665170	39.22 ug/L	99
80) 4-isopropyltoluene	13.304	119	1073958	43.91 ug/L	99
81) 1,4-dichlorobenzene	13.316	146	677553	38.08 ug/L	98
82) 1,2-dichlorobenzene	13.767	146	609196	40.17 ug/L	99
83) n-butylbenzene	13.816	91	801992	37.04 ug/L	98
84) hexachloroethane	14.078	201	115856	34.52 ug/L #	83
85) 1,2-dibromo-3-chloropr...	14.755	157	53681	38.28 ug/L	96
86) 1,2,4-trichlorobenzene	15.779	180	279645	45.03 ug/L	99
87) hexachlorobutadiene	16.023	225	126160	44.61 ug/L	100
88) naphthalene	16.066	128	615094	42.72 ug/L	97
89) 1,2,3-trichlorobenzene	16.376	180	240369	43.94 ug/L	100
90) 2-methylnaphthalene	17.480	142	177441	39.77 ug/L	100

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

SECOND-SOURCE CALIBRATION VERIFICATION

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Laboratory ID: 2H01030-SCV1
Sequence: 2H01030

SDG: KNM070512
Project: KNM
Standard ID: 2071184
Calibration: 2H01006

Analyte	Expected (ug/L)	Found (ug/L)	% Rec.	QC Limit
Acetone	40.0	41.4	104	75-125
Benzene	40.0	39.7	99	75-125
Bromodichloromethane	40.0	38.6	97	75-125
Bromoform	40.0	35.3	88	75-125
Bromomethane	40.0	41.0	103	75-125
Carbon Disulfide	40.0	44.3	111	75-125
Carbon Tetrachloride	40.0	39.9	100	75-125
Chlorobenzene	40.0	38.5	96	75-125
Chloroethane	40.0	37.5	94	75-125
Chloroform	40.0	39.1	98	75-125
Chloromethane	40.0	38.8	97	75-125
Cyclohexane	40.0	42.2	106	75-125
1,2-Dibromo-3-chloropropane	40.0	33.4	84	75-125
Dibromochloromethane	40.0	40.0	100	75-125
1,2-Dibromoethane	40.0	40.1	100	75-125
1,2-Dichlorobenzene	40.0	38.9	97	75-125
1,3-Dichlorobenzene	40.0	38.2	96	75-125
1,4-Dichlorobenzene	40.0	38.1	95	75-125
Dichlorodifluoromethane	40.0	34.3	86	75-125
1,1-Dichloroethane	40.0	38.6	97	75-125
1,2-Dichloroethane	40.0	38.6	97	75-125
1,1-Dichloroethene	40.0	34.6	87	75-125
cis-1,2-Dichloroethene	40.0	40.6	102	75-125
trans-1,2-Dichloroethene	40.0	37.6	94	75-125
1,2-Dichloropropane	40.0	40.0	100	75-125
cis-1,3-Dichloropropene	40.0	42.5	106	75-125
trans-1,3-Dichloropropene	40.0	33.1	83	75-125

SECOND-SOURCE CALIBRATION VERIFICATION

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Laboratory ID: 2H01030-SCV1
Sequence: 2H01030

SDG: KNM070512
Project: KNM
Standard ID: 2071184
Calibration: 2H01006

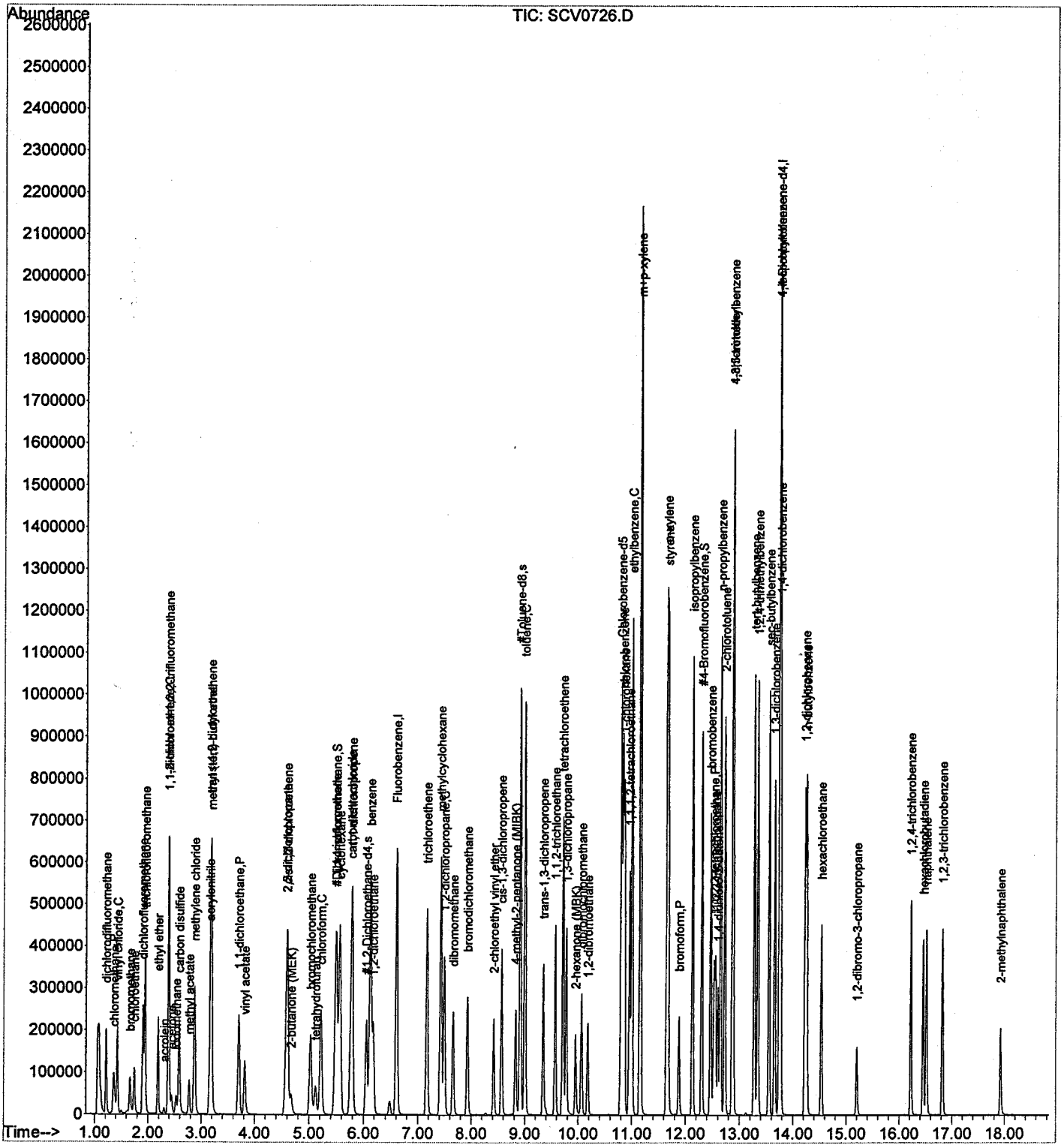
Analyte	Expected (ug/L)	Found (ug/L)	% Rec.	QC Limit
Ethylbenzene	40.0	39.8	100	75-125
2-Hexanone	40.0	47.8	120	75-125
Isopropylbenzene	40.0	38.0	95	75-125
Methyl Acetate	40.0	37.8	95	75-125
Methyl tert-Butyl Ether	40.0	40.6	102	75-125
Methylcyclohexane	40.0	42.2	106	75-125
Methylene Chloride	40.0	38.6	97	75-125
2-Butanone (MEK)	40.0	44.1	110	75-125
4-Methyl-2-pentanone (MIBK)	40.0	49.6	124	75-125
Styrene	40.0	40.4	101	75-125
1,1,2,2-Tetrachloroethane	40.0	36.4	91	75-125
Tetrachloroethene	40.0	38.1	95	75-125
Toluene	40.0	39.4	99	75-125
1,2,4-Trichlorobenzene	40.0	38.0	95	75-125
1,1,1-Trichloroethane	40.0	39.2	98	75-125
1,1,2-Trichloroethane	40.0	41.1	103	75-125
Trichloroethene	40.0	39.4	99	75-125
Trichlorofluoromethane	40.0	35.5	89	75-125
1,1,2-Trichloro-1,2,2-trifluoroethane	40.0	39.9	100	75-125
Vinyl Chloride	40.0	36.9	92	75-125
Xylene (Total)	120	121	101	75-125
Dibromofluoromethane	40.0	39.9	100	75-125
1,2-Dichloroethane-d4	40.0	39.2	98	75-125
Toluene-d8	40.0	40.0	100	75-125
4-Bromofluorobenzene	40.0	40.0	100	75-125

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : SCV0726.D
Acq On : 26 Jul 2012 15:36
Operator : DLV
Sample : SCV1
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 01 12:18:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : SCV0726.D
Acq On : 26 Jul 2012 15:36
Operator : DLV
Sample : SCV1
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 01 12:18:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.60	96	738445	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	617048	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	361027	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	179357	39.93 ug/L	0.00
Spiked Amount 40.000			Recovery =	99.83%	
37) #1,2-Dichloroethane-d4	6.05	65	210743	39.15 ug/L	0.00
Spiked Amount 40.000			Recovery =	97.88%	
47) #Toluene-d8	8.91	98	757579	40.00 ug/L	0.00
Spiked Amount 40.000			Recovery =	100.00%	
65) #4-Bromofluorobenzene	12.30	95	311808	40.02 ug/L	0.00
Spiked Amount 40.000			Recovery =	100.05%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.21	85	183681	34.29 ug/L	100
3) chloromethane	1.36	50	161432	38.84 ug/L	100
4) vinyl chloride	1.43	62	169437	36.87 ug/L	99
5) bromomethane	1.66	94	66816	41.05 ug/L	99
6) chloroethane	1.74	64	95647	37.48 ug/L	98
7) dichlorofluoromethane	1.90	67	259689	38.02 ug/L	100
8) trichlorofluoromethane	1.94	101	248876	35.52 ug/L	100
9) ethyl ether	2.19	74	79971	43.92 ug/L	99
10) acrolein	2.30	56	11386	20.31 ug/L #	96
11) 1,1,2-trichloro-1,2,2-trif	2.39	101	139076	39.89 ug/L	100
12) 1,1-dichloroethene	2.38	96	111678	34.57 ug/L	94
13) acetone	2.44	43	50599	41.40 ug/L	96
14) iodomethane	2.53	142	74790	27.44 ug/L	97
15) carbon disulfide	2.58	76	320037	44.26 ug/L	100
16) methyl acetate	2.77	43	103550	37.80 ug/L	99
17) methylene chloride	2.87	49	199521	38.62 ug/L	99
18) acrylonitrile	3.15	53	61657	40.12 ug/L	98
19) trans-1,2-dichloroethene	3.17	96	154542	37.55 ug/L	99
20) methyl (tert) butyl ether	3.19	73	422071	40.61 ug/L	99
21) 1,1-dichloroethane	3.70	63	273595	38.59 ug/L	100
22) vinyl acetate	3.82	43	228467	34.27 ug/L	100
23) 2,2-dichloropropane	4.58	77	186270	36.74 ug/L	98
24) cis-1,2-dichloroethene	4.60	96	179991	40.59 ug/L	99
25) 2-butanone (MEK)	4.68	43	77140	44.06 ug/L	95
26) bromochloromethane	5.03	49	133473	39.29 ug/L	99
27) tetrahydrofuran	5.12	71	23867	40.84 ug/L	95
28) chloroform	5.22	83	290530	39.09 ug/L	100
30) 1,1,1-trichloroethane	5.49	97	259026	39.24 ug/L	98
31) cyclohexane	5.57	56	303797	42.21 ug/L	98
32) carbon tetrachloride	5.77	117	241466	39.87 ug/L	99
33) 1,1-dichloropropene	5.79	75	233772	39.00 ug/L	98
34) benzene	6.13	78	690985	39.72 ug/L	98
35) 1,2-dichloroethane	6.18	62	229654	38.65 ug/L	98
36) heptane	6.60	57	23136	No Calib #	
38) trichloroethene	7.17	130	206437	39.38 ug/L	98
39) methylcyclohexane	7.42	83	302378	42.22 ug/L	99
40) 1,2-dichloropropane	7.49	63	160157	40.05 ug/L	100
41) dibromomethane	7.66	93	95868	39.41 ug/L	99

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-26-12\
InstName : 224
Data File : SCV0726.D
Acq On : 26 Jul 2012 15:36
Operator : DLV
Sample : SCV1
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 01 12:18:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	7.93	83	209609	38.61 ug/L	100
44) 2-chloroethyl vinyl ether	8.42	63	98896	40.78 ug/L	99
45) cis-1,3-dichloropropene	8.56	75	236302	42.50 ug/L	97
46) 4-methyl-2-pentanone (MIBK	8.83	43	180442	49.60 ug/L	99
48) toluene	9.00	91	794793	39.37 ug/L	98
49) trans-1,3-dichloropropene	9.35	75	195730	33.12 ug/L	97
50) 1,1,2-trichloroethane	9.57	83	121331	41.11 ug/L	99
52) tetrachloroethene	9.72	166	248712	38.08 ug/L	99
53) 1,3-dichloropropane	9.78	76	264965	40.78 ug/L	100
54) 2-hexanone (MBK)	9.95	43	138344	47.76 ug/L	98
55) dibromochloromethane	10.06	129	167426	39.99 ug/L	99
56) 1,2-dibromoethane	10.18	109	146027	40.08 ug/L	100
57) chlorobenzene	10.83	112	516006	38.54 ug/L	97
58) 1-chlorohexane	10.86	55	180493	39.03 ug/L	92
59) 1,1,1,2-tetrachloroethane	10.95	131	176046	39.50 ug/L	99
60) ethylbenzene	11.00	91	913497	39.78 ug/L	99
61) m+p-xylene	11.16	106	713166	79.68 ug/L	97
62) o-xylene	11.65	106	334938	40.90 ug/L	99
63) styrene	11.67	104	575129	40.44 ug/L	95
64) bromoform	11.88	173	119824	35.27 ug/L	99
67) isopropylbenzene	12.13	105	760624	37.99 ug/L	99
68) bromobenzene	12.47	77	311996	38.70 ug/L	100
69) 1,1,2,2-tetrachloroethane	12.53	83	181649	36.44 ug/L #	99
70) 1,2,3-trichloropropane	12.56	110	66794	37.51 ug/L	97
71) 1,4-dichloro-2-butene	12.60	53	67301	32.85 ug/L	89
72) n-propylbenzene	12.65	120	230146	39.25 ug/L	96
73) 2-chlorotoluene	12.73	126	201979	39.75 ug/L	97
74) 1,3,5-trimethylbenzene	12.88	105	662969	40.75 ug/L	100
75) 4-chlorotoluene	12.87	126	200101	38.54 ug/L	100
76) tert-butylbenzene	13.28	119	562089	39.83 ug/L	97
77) 1,2,4-trimethylbenzene	13.34	105	646881	40.20 ug/L	100
78) sec-butylbenzene	13.55	105	742935	39.49 ug/L	98
79) 1,3-dichlorobenzene	13.66	146	391649	38.22 ug/L	99
80) 4-isopropyltoluene	13.75	119	595884	36.76 ug/L	97
81) 1,4-dichlorobenzene	13.77	146	406793	38.11 ug/L	98
82) 1,2-dichlorobenzene	14.23	146	371703	38.90 ug/L	98
83) n-butylbenzene	14.26	91	464925	39.52 ug/L	99
84) hexachloroethane	14.53	201	83710	33.76 ug/L #	91
85) 1,2-dibromo-3-chloropropan	15.20	157	55705	33.39 ug/L	97
86) 1,2,4-trichlorobenzene	16.22	180	192142	38.00 ug/L	100
87) hexachlorobutadiene	16.46	225	100532	35.69 ug/L	99
88) naphthalene	16.52	128	409010	33.48 ug/L	99
89) 1,2,3-trichlorobenzene	16.82	180	168838	37.80 ug/L	99
90) 2-methylnaphthalene	17.92	142	118833	38.43 ug/L	98

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

SECOND-SOURCE CALIBRATION VERIFICATION

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Laboratory ID: 2H10006-SCV1
Sequence: 2H10006

SDG: KNM070512
Project: KNM
Standard ID: 2080055
Calibration: 2H10001

Analyte	Expected (ug/L)	Found (ug/L)	% Rec.	QC Limit
Acetone	40.0	42.0	105	75-125
Benzene	40.0	41.4	104	75-125
Bromodichloromethane	40.0	42.4	106	75-125
Bromoform	40.0	38.8	97	75-125
Bromomethane	40.0	45.8	115	75-125
Carbon Disulfide	40.0	41.6	104	75-125
Carbon Tetrachloride	40.0	43.1	108	75-125
Chlorobenzene	40.0	41.2	103	75-125
Chloroethane	40.0	41.8	105	75-125
Chloroform	40.0	40.4	101	75-125
Chloromethane	40.0	43.9	110	75-125
Cyclohexane	40.0	46.3	116	75-125
1,2-Dibromo-3-chloropropane	40.0	34.1	85	75-125
Dibromochloromethane	40.0	39.3	98	75-125
1,2-Dibromoethane	40.0	43.5	109	75-125
1,2-Dichlorobenzene	40.0	40.4	101	75-125
1,3-Dichlorobenzene	40.0	40.6	102	75-125
1,4-Dichlorobenzene	40.0	41.0	103	75-125
Dichlorodifluoromethane	40.0	43.5	109	75-125
1,1-Dichloroethane	40.0	40.8	102	75-125
1,2-Dichloroethane	40.0	41.7	104	75-125
1,1-Dichloroethene	40.0	36.0	90	75-125
cis-1,2-Dichloroethene	40.0	41.5	104	75-125
trans-1,2-Dichloroethene	40.0	35.2	88	75-125
1,2-Dichloropropane	40.0	41.9	105	75-125
cis-1,3-Dichloropropene	40.0	45.9	115	75-125
trans-1,3-Dichloropropene	40.0	36.6	92	75-125

SECOND-SOURCE CALIBRATION VERIFICATION

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Laboratory ID: 2H10006-SCV1
Sequence: 2H10006

SDG: KNM070512
Project: KNM
Standard ID: 2080055
Calibration: 2H10001

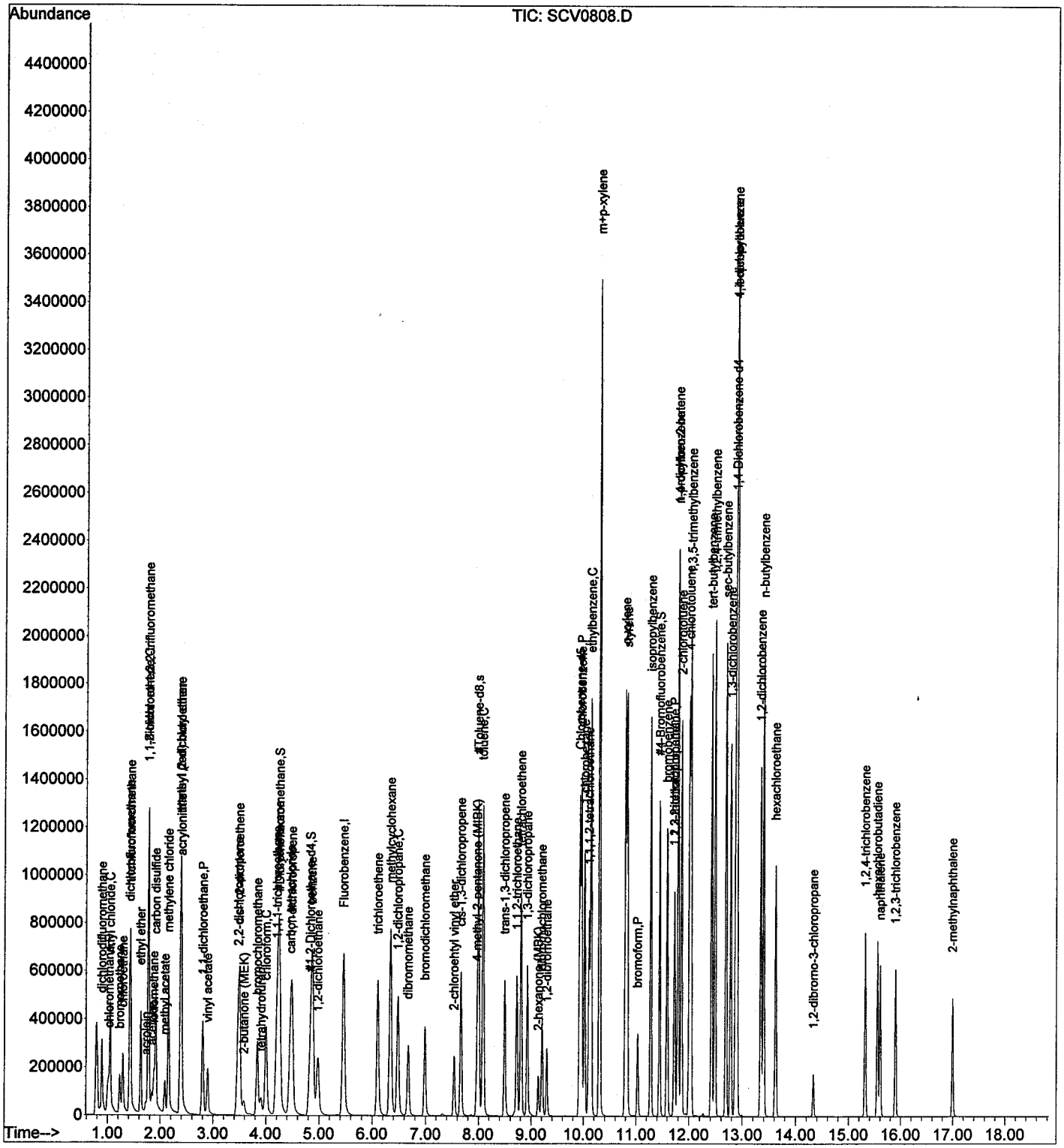
Analyte	Expected (ug/L)	Found (ug/L)	% Rec.	QC Limit
Ethylbenzene	40.0	41.6	104	75-125
2-Hexanone	40.0	37.2	93	75-125
Isopropylbenzene	40.0	38.7	97	75-125
Methyl Acetate	40.0	44.8	112	75-125
Methyl tert-Butyl Ether	40.0	43.7	109	75-125
Methylcyclohexane	40.0	46.4	116	75-125
Methylene Chloride	40.0	40.3	101	75-125
2-Butanone (MEK)	40.0	38.4	96	75-125
4-Methyl-2-pentanone (MIBK)	40.0	37.8	95	75-125
Styrene	40.0	42.0	105	75-125
1,1,2,2-Tetrachloroethane	40.0	41.1	103	75-125
Tetrachloroethene	40.0	40.8	102	75-125
Toluene	40.0	41.6	104	75-125
1,2,4-Trichlorobenzene	40.0	32.4	81	75-125
1,1,1-Trichloroethane	40.0	42.3	106	75-125
1,1,2-Trichloroethane	40.0	43.5	109	75-125
Trichloroethene	40.0	42.0	105	75-125
Trichlorofluoromethane	40.0	41.7	104	75-125
1,1,2-Trichloro-1,2,2-trifluoroethane	40.0	47.4	119	75-125
Vinyl Chloride	40.0	43.4	109	75-125
Xylene (Total)	120	125	104	75-125
Dibromofluoromethane	40.0	40.1	100	75-125
1,2-Dichloroethane-d4	40.0	40.1	100	75-125
Toluene-d8	40.0	39.8	100	75-125
4-Bromofluorobenzene	40.0	40.1	100	75-125

* Values outside of QC limits

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : SCV0808.D
InstName : 323
Acq On : 8 Aug 2012 18:36
Operator : DLV
Sample : SCV1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 16 11:13:49 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration



01171

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : SCV0808.D
InstName : 323
Acq On : 8 Aug 2012 18:36
Operator : DLV
Sample : SCV1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 16 11:13:49 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	1020244	40.00 ug/L	0.00 97.51%
50) Chlorobenzene-d5	9.93	117	817006	40.00 ug/L	0.00 97.92%
65) 1,4-Dichlorobenzene-d4	12.87	152	539238	40.00 ug/L	0.00 97.28%
System Monitoring Compounds					
30) #Dibromofluoromethane	4.26	111	247520	40.08 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.20%	
37) #1,2-Dichloroethane-d4	4.83	67	151423	40.06 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.15%	
46) #Toluene-d8	7.99	98	1012139	39.85 ug/L	0.00
Spiked Amount 40.000			Recovery	= 99.63%	
64) #4-Bromofluorobenzene	11.45	95	416012	40.06 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.15%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.89	85	296635	43.53 ug/L	99
3) chloromethane	1.02	50	324684	43.88 ug/L	99
4) vinyl chloride	1.04	62	364629	43.45 ug/L	100
5) bromomethane	1.23	94	139022	45.79 ug/L	99
6) chloroethane	1.28	64	204683	41.84 ug/L	100
7) dichlorofluoromethane	1.41	67	490580	42.51 ug/L	99
8) trichlorofluoromethane	1.43	101	435865	41.71 ug/L	100
9) ethyl ether	1.62	74	176722	51.76 ug/L	99
10) acrolein	1.72	56	37458	43.69 ug/L #	94
11) 1,1,2-trichloro-1,2,2-trif	1.77	101	283052	47.44 ug/L	99
12) 1,1-dichloroethene	1.77	96	239873	36.02 ug/L	97
13) acetone	1.84	43	77959	41.98 ug/L	95
14) iodomethane	1.88	142	264035	31.70 ug/L	99
15) carbon disulfide	1.91	76	681973	41.63 ug/L	100
16) methyl acetate	2.09	43	176660	44.84 ug/L	98
17) methylene chloride	2.15	49	345763	40.31 ug/L	99
18) acrylonitrile	2.40	53	91632	44.74 ug/L	99
19) trans-1,2-dichloroethene	2.38	96	246505	35.16 ug/L	95
20) methyl (tert) butyl ether	2.39	73	668261	43.71 ug/L	99
21) 1,1-dichloroethane	2.80	63	446641	40.76 ug/L	100
22) vinyl acetate	2.89	43	349786	33.14 ug/L	99
23) 2,2-dichloropropane	3.47	77	309043	41.94 ug/L	99
24) cis-1,2-dichloroethene	3.50	96	274625	41.49 ug/L	97
25) 2-butanone (MEK)	3.58	43	80097	38.36 ug/L	98
26) bromochloromethane	3.83	49	215949	41.87 ug/L	98
27) tetrahydrofuran	3.90	71	23050	46.60 ug/L	96
28) chloroform	4.00	83	426259	40.42 ug/L	100
29) 1,1,1-trichloroethane	4.20	97	375713	42.26 ug/L	98
31) cyclohexane	4.24	56	478519	46.32 ug/L	99
32) carbon tetrachloride	4.46	117	332820	43.14 ug/L	100
33) 1,1-dichloropropene	4.49	75	345059	40.38 ug/L	100
34) benzene	4.87	78	1026930	41.42 ug/L	89
35) 1,2-dichloroethane	4.97	62	331320	41.73 ug/L	100
36) heptane	4.24	57	21405	No Calib #	

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-08-12\
Data File : SCV0808.D
InstName : 323
Acq On : 8 Aug 2012 18:36
Operator : DLV
Sample : SCV1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 16 11:13:49 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
38) trichloroethene	6.10	130	291491	41.98	ug/L		99
39) methylcyclohexane	6.34	83	472329	46.40	ug/L		99
40) 1,2-dichloropropane	6.48	63	248733	41.89	ug/L		100
41) dibromomethane	6.67	93	135607	42.41	ug/L		98
42) bromodichloromethane	6.98	83	312447	42.37	ug/L		100
43) 2-chloroehtyl vinyl ether	7.54	63	124834	40.06	ug/L		100
44) cis-1,3-dichloropropene	7.66	75	388569	45.89	ug/L		96
45) 4-methyl-2-pentanone (MIBK	7.96	43	185581	37.81	ug/L	#	97
47) toluene	8.08	91	1142305	41.56	ug/L		100
48) trans-1,3-dichloropropene	8.49	75	323418	36.57	ug/L		96
49) 1,1,2-trichloroethane	8.72	83	169247	43.47	ug/L		99
51) tetrachloroethene	8.80	166	340396	40.85	ug/L		99
52) 1,3-dichloropropane	8.92	76	383322	43.56	ug/L		99
53) 2-hexanone (MBK)	9.13	43	127307	37.22	ug/L		99
54) dibromochloromethane	9.20	129	237387	39.30	ug/L		99
55) 1,2-dibromoethane	9.30	109	197685	43.52	ug/L		99
56) chlorobenzene	9.96	112	787198	41.24	ug/L		96
57) 1-chlorohexane	10.02	55	274111	44.79	ug/L		94
58) 1,1,1,2-tetrachloroethane	10.10	131	263936	38.98	ug/L		99
59) ethylbenzene	10.14	91	1332036	41.59	ug/L		99
60) m+p-xylene	10.30	106	1108979	83.18	ug/L		95
61) o-xylene	10.79	106	527397	42.06	ug/L		100
62) styrene	10.83	104	939880	41.98	ug/L		95
63) bromoform	11.03	173	171475	38.79	ug/L		99
66) isopropylbenzene	11.28	105	1189378	38.71	ug/L		100
67) bromobenzene	11.59	77	523483	41.76	ug/L		96
68) 1,1,2,2-tetrachloroethane	11.73	83	256048	41.14	ug/L	#	100
69) 1,2,3-trichloropropane	11.73	110	88056	43.65	ug/L		97
70) 1,4-dichloro-2-butene	11.79	53	93186	47.64	ug/L	#	83
71) n-propylbenzene	11.80	120	394740	40.90	ug/L		98
72) 2-chlorotoluene	11.86	126	341896	41.03	ug/L		92
73) 1,3,5-trimethylbenzene	12.04	105	1195509	42.18	ug/L		99
74) 4-chlorotoluene	12.01	91	1113252	40.98	ug/L		98
75) tert-butylbenzene	12.42	119	1019220	40.82	ug/L		97
76) 1,2,4-trimethylbenzene	12.48	105	1204697	41.58	ug/L		99
77) sec-butylbenzene	12.69	105	1496070	41.10	ug/L		100
78) 1,3-dichlorobenzene	12.78	146	718746	40.61	ug/L		99
79) 4-isopropyltoluene	12.89	119	1295478	38.36	ug/L		97
80) 1,4-dichlorobenzene	12.90	146	762609	41.00	ug/L		98
81) 1,2-dichlorobenzene	13.34	146	648321	40.41	ug/L		99
82) n-butylbenzene	13.39	91	1100201	40.46	ug/L		99
83) hexachloroethane	13.63	201	193382	38.89	ug/L	#	92
84) 1,2-dibromo-3-chloropropan	14.33	157	53003	34.09	ug/L		97
85) 1,2,4-trichlorobenzene	15.31	180	280590	32.45	ug/L		100
86) hexachlorobutadiene	15.55	225	164498	32.52	ug/L		100
87) naphthalene	15.60	128	530073	32.98	ug/L		99
88) 1,2,3-trichlorobenzene	15.90	180	218496	31.32	ug/L		98
89) 2-methylnaphthalene	17.00	142	268658	42.99	ug/L		99

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

CONTINUING CALIBRATION CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Lab Sample ID: 2G19009-CCV1
Injection Date: 07/18/12
Calibration Date: 07/17/12 00:00
Sequence: 2G19009

SDG: KNM070512
Project: KNM
Lab File ID: CCV0718.D
Injection Time: 08:38
Calibration: 2G19002
Instrument ID: 224

Analyte	Type	CONC. (ug/L)		Response Factor			% Diff. / Drift	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	40.0	35.0	9.027939E-02	6.384264E-02		-12.5	40
Benzene	A	40.0	41.7	0.8830438	0.9202441		4.2	20
Bromodichloromethane	A	40.0	43.6	0.2615391	0.2848788		8.9	20
Bromoform	L	40.0	36.9	0.1909812	0.2006441	0.1	-7.7	20
Bromomethane	L	40.0	47.8	6.837427E-02	9.454586E-02		19.6	20
Carbon Disulfide	A	40.0	46.6	0.3130287	0.3650783		16.6	20
Carbon Tetrachloride	A	40.0	44.2	0.2731558	0.3015302		10.4	20
Chlorobenzene	A	40.0	41.0	0.8466857	0.8668319	0.3	2.4	20
Chloroethane	A	40.0	43.6	0.1281176	0.1394727		8.9	20
Chloroform	A	40.0	42.3	0.3563023	0.3768723		5.8	20
Chloromethane	A	40.0	42.8	0.2220898	0.2377621	0.1	7.1	20
Cyclohexane	A	40.0	43.3	0.3752897	0.4064787		8.3	20
1,2-Dibromo-3-chloropropane	A	40.0	37.4	0.1874731	0.175526		-6.4	20
Dibromochloromethane	A	40.0	42.8	0.2575942	0.2757543		7.0	20
1,2-Dibromoethane	A	40.0	41.9	0.2330072	0.2443265		4.9	20
1,2-Dichlorobenzene	A	40.0	40.7	1.066299	1.085392		1.8	20
1,3-Dichlorobenzene	A	40.0	40.6	1.104346	1.121818		1.6	20
1,4-Dichlorobenzene	A	40.0	39.4	1.160131	1.143		-1.5	20
Dichlorodifluoromethane	A	40.0	44.0	0.2746187	0.3020267		10.0	20
1,1-Dichloroethane	A	40.0	42.4	0.3523374	0.373783	0.1	6.1	20
1,2-Dichloroethane	A	40.0	42.5	0.278396	0.2958299		6.3	20
1,1-Dichloroethene	A	40.0	42.6	0.1623868	0.1730775		6.6	20
cis-1,2-Dichloroethene	A	40.0	42.6	0.2232236	0.2377177		6.5	20
trans-1,2-Dichloroethene	A	40.0	42.0	0.2040877	0.2145147		5.1	20
1,2-Dichloropropane	A	40.0	42.1	0.2105922	0.2218045		5.3	20
cis-1,3-Dichloropropene	L	40.0	39.6	0.2841345	0.3159851		-0.9	20
trans-1,3-Dichloropropene	L	40.0	38.8	0.2584815	0.2926547		-3.0	20
Ethylbenzene	A	40.0	42.2	1.404262	1.481478		5.5	20
2-Hexanone	L	40.0	37.1	0.1731379	0.1756685		-7.2	40

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CONTINUING CALIBRATION CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM070512
Client: TechLaw
Project: KNM
Lab Sample ID: 2G19009-CCV1
Lab File ID: CCV0718.D
Injection Date: 07/18/12
Injection Time: 08:38
Calibration Date: 07/17/12 00:00
Calibration: 2G19002
Sequence: 2G19009
Instrument ID: 224

Analyte	Type	CONC. (ug/L)		Response Factor			% Diff. / Drift	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Isopropylbenzene	A	40.0	42.5	2.123819	2.256136		6.2	20
Methyl Acetate	A	40.0	30.9	0.1918268	0.1480896		-22.8	20 *
Methyl tert-Butyl Ether	A	40.0	42.5	0.5330044	0.5663558		6.3	20
Methylcyclohexane	A	40.0	43.4	0.3727974	0.4049383		8.6	20
Methylene Chloride	A	40.0	39.1	0.2805672	0.274259		-2.2	20
2-Butanone (MEK)	A	40.0	38.2	9.271066E-02	8.849923E-02		-4.5	40
4-Methyl-2-pentanone (MIBK)	A	40.0	41.6	0.1952119	0.2029076		3.9	40
Styrene	A	40.0	43.0	0.9089485	0.977205		7.5	20
1,1,2,2-Tetrachloroethane	A	40.0	38.0	0.6141367	0.5827536	0.3	-5.1	20
Tetrachloroethene	A	40.0	41.2	0.3814097	0.3930291		3.0	20
Toluene	A	40.0	41.8	1.007903	1.053123		4.5	20
1,2,4-Trichlorobenzene	A	40.0	40.8	0.5629816	0.5737473		1.9	20
1,1,1-Trichloroethane	A	40.0	43.1	0.2987714	0.3220949		7.8	20
1,1,2-Trichloroethane	A	40.0	42.3	0.1572704	0.1662691		5.7	20
Trichloroethene	A	40.0	41.6	0.2549456	0.2648285		3.9	20
Trichlorofluoromethane	A	40.0	43.7	0.324496	0.35477		9.3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	40.0	43.7	0.170748	0.1866989		9.3	20
Vinyl Chloride	A	40.0	42.8	0.2400948	0.2567307		6.9	20
Xylene (Total)	A	120	128	0.5495341	0.5843146		6.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Evaluate Continuing Calibration Report

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : CCV0718.D
Acq On : 18 Jul 2012 8:38
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 08:57:45 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
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 : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	91	0.00
2		dichlorodifluoromethane	0.275	0.302	-9.8	98	0.00
3	P	chloromethane	0.222	0.238	-7.2	96	0.00
4	C	vinyl chloride	0.240	0.257	-7.1	94	0.00
5		bromomethane	0.068	0.095	-39.7#	110	0.01
6		chloroethane	0.128	0.139	-8.6	95	0.00
7		dichlorofluoromethane	0.328	0.356	-8.5	97	0.00
8		trichlorofluoromethane	0.324	0.355	-9.6	98	0.00
9		ethyl ether	0.095	0.104	-9.5	96	0.00
10		acrolein	0.032	0.033	-3.1	91	0.00
11		1,1,2-trichloro-1,2,2-trifl	0.171	0.187	-9.4	96	0.00
12	C	1,1-dichloroethene	0.162	0.173	-6.8	96	0.00
13		acetone	0.090	0.064	28.9#	85	0.00
14		iodomethane	0.099	0.108	-9.1	78	0.00
15		carbon disulfide	0.313	0.365	-16.6	105	0.00
16		methyl acetate	0.192	0.148	22.9	73	0.00
17		methylene chloride	0.281	0.274	2.5	93	0.00
18		acrylonitrile	0.091	0.091	0.0	87	0.00
19		trans-1,2-dichloroethene	0.204	0.215	-5.4	92	0.00
20		methyl (tert) butyl ether	0.533	0.566	-6.2	92	0.00
21	P	1,1-dichloroethane	0.352	0.374	-6.3	93	0.00
22		vinyl acetate	0.351	0.459	-30.8#	113	0.00
23		2,2-dichloropropane	0.231	0.254	-10.0	95	0.00
24		cis-1,2-dichloroethene	0.223	0.238	-6.7	93	0.00
25		2-butanone (MEK)	0.093	0.088	5.4	86	0.00
26		bromochloromethane	0.179	0.187	-4.5	93	0.00
27		tetrahydrofuran	0.033	0.033	0.0	86	0.00
28	C	chloroform	0.356	0.377	-5.9	93	0.00
29	S	#Dibromofluoromethane	0.234	0.241	-3.0	94	0.00
30		1,1,1-trichloroethane	0.299	0.322	-7.7	94	0.00
31		cyclohexane	0.375	0.406	-8.3	93	0.00
32		carbon tetrachloride	0.273	0.302	-10.6	95	0.00
33		1,1-dichloropropene	0.285	0.308	-8.1	94	0.00
34		benzene	0.883	0.920	-4.2	93	0.00
35		1,2-dichloroethane	0.278	0.296	-6.5	94	0.00
36		heptane	0.000	0.000	0.0	0#	0.00
37	s	#1,2-Dichloroethane-d4	0.267	0.270	-1.1	94	0.00
38		trichloroethene	0.255	0.265	-3.9	91	0.00
39		methylcyclohexane	0.373	0.405	-8.6	92	0.00
40	C	1,2-dichloropropane	0.211	0.222	-5.2	92	0.00
41		dibromomethane	0.123	0.131	-6.5	94	0.00
42		1,4-dioxane	0.000	0.000	0.0	0#	-7.66#
43		bromodichloromethane	0.262	0.285	-8.8	95	0.00
44		2-chloroethyl vinyl ether	0.088	0.094	-6.8	93	0.00
45		cis-1,3-dichloropropene	0.284	0.316	-11.3	93	0.00
46		4-methyl-2-pentanone (MIBK)	0.195	0.203	-4.1	92	0.00
47	s	#Toluene-d8	1.020	1.033	-1.3	93	0.00
48	C	toluene	1.008	1.053	-4.5	92	0.00
49		trans-1,3-dichloropropene	0.258	0.293	-13.6	93	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : CCV0718.D
Acq On : 18 Jul 2012 8:38
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 08:57:45 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
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 : 150%

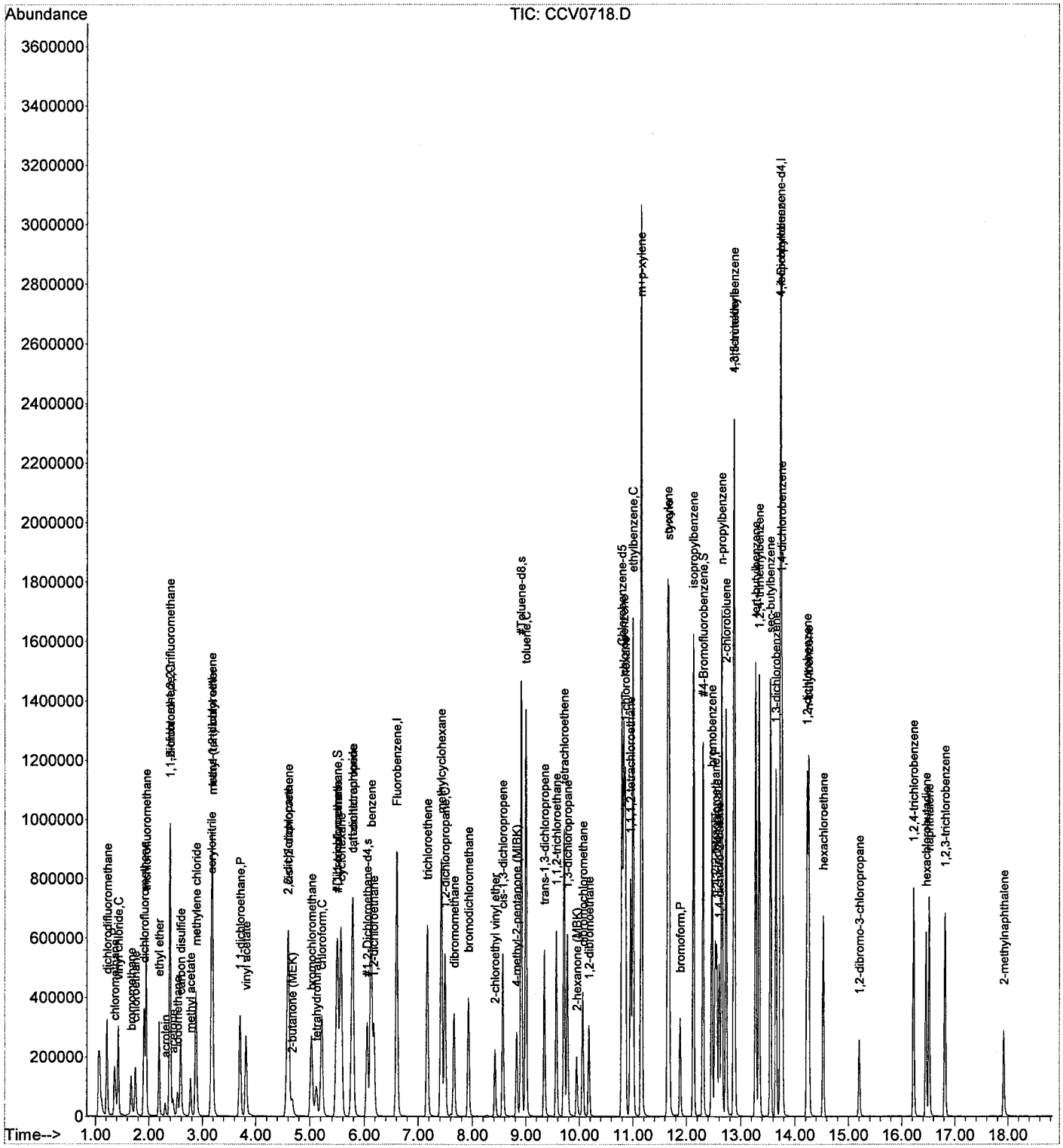
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50		1,1,2-trichloroethane	0.157	0.166	-5.7	94	0.00
51		Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
52		tetrachloroethene	0.381	0.393	-3.1	92	0.00
53		1,3-dichloropropane	0.414	0.440	-6.3	94	0.00
54		2-hexanone (MBK)	0.173	0.176	-1.7	88	0.00
55		dibromochloromethane	0.258	0.276	-7.0	92	0.00
56		1,2-dibromoethane	0.233	0.244	-4.7	92	0.00
57		chlorobenzene	0.847	0.867	-2.4	93	0.00
58		1-chlorohexane	0.280	0.295	-5.4	94	0.00
59		1,1,1,2-tetrachloroethane	0.271	0.287	-5.9	93	0.00
60	C	ethylbenzene	1.404	1.481	-5.5	93	0.00
61		m+p-xylene	0.563	0.596	-5.9	93	0.00
62		o-xylene	0.522	0.561	-7.5	92	0.00
63		styrene	0.909	0.977	-7.5	93	0.00
64	P	bromoform	0.191	0.201	-5.2	90	0.00
65	S	#4-Bromofluorobenzene	0.496	0.500	-0.8	94	0.00
66	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
67		isopropylbenzene	2.124	2.256	-6.2	92	0.00
68		bromobenzene	0.867	0.888	-2.4	93	0.00
69	P	1,1,2,2-tetrachloroethane	0.614	0.583	5.0	91	0.00
70		1,2,3-trichloropropane	0.200	0.197	1.5	92	0.00
71		1,4-dichloro-2-butene	0.207	0.216	-4.3	88	0.00
72		n-propylbenzene	0.632	0.676	-7.0	92	0.00
73		2-chlorotoluene	0.557	0.568	-2.0	90	0.00
74		1,3,5-trimethylbenzene	1.734	1.831	-5.6	92	0.00
75		4-chlorotoluene	0.566	0.582	-2.8	91	0.00
76		tert-butylbenzene	1.506	1.598	-6.1	92	0.00
77		1,2,4-trimethylbenzene	1.713	1.804	-5.3	92	0.00
78		sec-butylbenzene	2.031	2.159	-6.3	92	0.00
79		1,3-dichlorobenzene	1.104	1.122	-1.6	92	0.00
80		4-isopropyltoluene	1.756	1.817	-3.5	91	0.00
81		1,4-dichlorobenzene	1.160	1.143	1.5	93	0.00
82		1,2-dichlorobenzene	1.066	1.085	-1.8	93	0.00
83		n-butylbenzene	1.258	1.346	-7.0	91	0.00
84		hexachloroethane	0.221	0.237	-7.2	91	0.00
85		1,2-dibromo-3-chloropropane	0.187	0.176	5.9	85	0.00
86		1,2,4-trichlorobenzene	0.563	0.574	-2.0	91	0.00
87		hexachlorobutadiene	0.288	0.294	-2.1	91	0.00
88		naphthalene	1.338	1.292	3.4	85	0.00
89		1,2,3-trichlorobenzene	0.520	0.514	1.2	89	0.00
90		2-methylnaphthalene	0.336	0.323	3.9	79	0.00

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

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\07-18-12\
InstName : 224
Data File : CCV0718.D
Acq On : 18 Jul 2012 8:38
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 08:57:45 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration



01178

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\07-18-12\
InstName : 224
Data File : CCV0718.D
Acq On : 18 Jul 2012 8:38
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 08:57:45 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.61	96	1059433	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	872251	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	514636	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	255546	41.15 ug/L	0.00
Spiked Amount 40.000			Recovery	= 102.88%	
37) #1,2-Dichloroethane-d4	6.05	65	286425	40.50 ug/L	0.00
Spiked Amount 40.000			Recovery	= 101.25%	
47) #Toluene-d8	8.91	98	1094230	40.51 ug/L	0.00
Spiked Amount 40.000			Recovery	= 101.28%	
65) #4-Bromofluorobenzene	12.30	95	435976	40.28 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.70%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.22	85	319977	43.99 ug/L	99
3) chloromethane	1.36	50	251893	42.82 ug/L	99
4) vinyl chloride	1.43	62	271989	42.77 ug/L	100
5) bromomethane	1.67	94	100165	47.84 ug/L	98
6) chloroethane	1.74	64	147762	43.55 ug/L	100
7) dichlorofluoromethane	1.91	67	376683	43.41 ug/L	99
8) trichlorofluoromethane	1.94	101	375855	43.73 ug/L	100
9) ethyl ether	2.19	74	110027	43.75 ug/L	99
10) acrolein	2.30	56	34541	40.50 ug/L #	98
11) 1,1,2-trichloro-1,2,2-trif	2.39	101	197795	43.74 ug/L	99
12) 1,1-dichloroethene	2.38	96	183364	42.63 ug/L	99
13) acetone	2.44	43	67637	35.01 ug/L	98
14) iodomethane	2.53	142	114624	31.35 ug/L	99
15) carbon disulfide	2.59	76	386776	46.65 ug/L	100
16) methyl acetate	2.77	43	156891	30.88 ug/L	99
17) methylene chloride	2.87	49	290559	39.10 ug/L	100
18) acrylonitrile	3.16	53	96166	39.78 ug/L	99
19) trans-1,2-dichloroethene	3.17	96	227264	42.04 ug/L	99
20) methyl (tert) butyl ether	3.19	73	600016	42.50 ug/L	100
21) 1,1-dichloroethane	3.71	63	395998	42.43 ug/L	100
22) vinyl acetate	3.82	43	486263	52.26 ug/L	100
23) 2,2-dichloropropane	4.58	77	269468	44.04 ug/L	99
24) cis-1,2-dichloroethene	4.60	96	251846	42.60 ug/L	99
25) 2-butanone (MEK)	4.68	43	93759	38.18 ug/L	100
26) bromochloromethane	5.03	49	197832	41.62 ug/L	100
27) tetrahydrofuran	5.13	71	34600	39.01 ug/L	96
28) chloroform	5.22	83	399271	42.31 ug/L	100
30) 1,1,1-trichloroethane	5.49	97	341238	43.12 ug/L	99
31) cyclohexane	5.57	56	430637	43.32 ug/L	99
32) carbon tetrachloride	5.77	117	319451	44.16 ug/L	99
33) 1,1-dichloropropene	5.79	75	326327	43.27 ug/L	99
34) benzene	6.13	78	974937	41.69 ug/L	99
35) 1,2-dichloroethane	6.17	62	313412	42.50 ug/L	99
36) heptane	6.60	57	33324	No Calib #	
38) trichloroethene	7.17	130	280568	41.55 ug/L	100
39) methylcyclohexane	7.42	83	429005	43.45 ug/L	98
40) 1,2-dichloropropane	7.49	63	234987	42.13 ug/L	100
41) dibromomethane	7.66	93	138500	42.42 ug/L	99

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\07-18-12\
InstName : 224
Data File : CCV0718.D
Acq On : 18 Jul 2012 8:38
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 08:57:45 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	7.93	83	301810	43.57 ug/L	100
44) 2-chloroethyl vinyl ether	8.42	63	99954	39.22 ug/L	99
45) cis-1,3-dichloropropene	8.57	75	334765	39.63 ug/L	98
46) 4-methyl-2-pentanone (MIBK	8.83	43	214967	41.58 ug/L	99
48) toluene	9.00	91	1115713	41.79 ug/L	98
49) trans-1,3-dichloropropene	9.35	75	310048	38.82 ug/L	98
50) 1,1,2-trichloroethane	9.57	83	176151	42.29 ug/L	99
52) tetrachloroethene	9.72	166	342820	41.22 ug/L	100
53) 1,3-dichloropropane	9.78	76	383500	42.52 ug/L	100
54) 2-hexanone (MBK)	9.95	43	153227	37.12 ug/L	98
55) dibromochloromethane	10.06	129	240527	42.82 ug/L	99
56) 1,2-dibromoethane	10.18	109	213114	41.94 ug/L	99
57) chlorobenzene	10.83	112	756095	40.95 ug/L	98
58) 1-chlorohexane	10.86	55	257594	42.18 ug/L	94
59) 1,1,1,2-tetrachloroethane	10.95	131	250496	42.31 ug/L	100
60) ethylbenzene	11.00	91	1292221	42.20 ug/L	97
61) m+p-xylene	11.16	106	1039271	84.59 ug/L	95
62) o-xylene	11.65	106	489736	43.04 ug/L	97
63) styrene	11.67	104	852368	43.00 ug/L	98
64) bromoform	11.88	173	175012	36.92 ug/L	99
67) isopropylbenzene	12.13	105	1161089	42.49 ug/L	98
68) bromobenzene	12.47	77	456984	40.96 ug/L	99
69) 1,1,2,2-tetrachloroethane	12.53	83	299906	37.96 ug/L #	99
70) 1,2,3-trichloropropane	12.56	110	101234	39.37 ug/L	97
71) 1,4-dichloro-2-butene	12.60	53	110999	36.62 ug/L	93
72) n-propylbenzene	12.65	120	347677	42.75 ug/L	95
73) 2-chlorotoluene	12.73	126	292158	40.76 ug/L	99
74) 1,3,5-trimethylbenzene	12.88	105	942437	42.23 ug/L	99
75) 4-chlorotoluene	12.87	126	299301	41.10 ug/L	96
76) tert-butylbenzene	13.28	119	822618	42.45 ug/L	98
77) 1,2,4-trimethylbenzene	13.34	105	928474	42.14 ug/L	98
78) sec-butylbenzene	13.55	105	1111080	42.52 ug/L	98
79) 1,3-dichlorobenzene	13.66	146	577328	40.63 ug/L	98
80) 4-isopropyltoluene	13.75	119	935128	41.39 ug/L	98
81) 1,4-dichlorobenzene	13.77	146	588229	39.41 ug/L	98
82) 1,2-dichlorobenzene	14.23	146	558582	40.72 ug/L	99
83) n-butylbenzene	14.26	91	692822	38.38 ug/L	99
84) hexachloroethane	14.53	201	121849	36.03 ug/L #	90
85) 1,2-dibromo-3-chloropropan	15.20	157	90332	37.45 ug/L	98
86) 1,2,4-trichlorobenzene	16.23	180	295271	40.76 ug/L	100
87) hexachlorobutadiene	16.46	225	151265	40.76 ug/L	99
88) naphthalene	16.51	128	664981	34.60 ug/L	99
89) 1,2,3-trichlorobenzene	16.82	180	264761	39.58 ug/L	99
90) 2-methylnaphthalene	17.92	142	166125	33.05 ug/L	99

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

CONTINUING CALIBRATION CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Lab Sample ID: 2G27052-CCV1
Injection Date: 07/26/12
Calibration Date: 07/23/12 00:00
Sequence: 2G27052

SDG: KNM070512
Project: KNM
Lab File ID: CCV0726.D
Injection Time: 09:00
Calibration: 2G27002
Instrument ID: 328

Analyte	Type	CONC. (ug/L)		Response Factor			% Diff. / Drift	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	40.0	34.5	0.1027394	8.156521E-02		-13.8	40
Benzene	A	40.0	40.4	1.250988	1.261901		0.9	20
Bromodichloromethane	A	40.0	39.8	0.3958723	0.3944249		-0.4	20
Bromoform	L	40.0	34.6	0.2242068	0.2265886	0.1	-13.4	20
Bromomethane	L	40.0	48.2	0.1827549	0.1880254		20.4	20 *
Carbon Disulfide	A	40.0	45.5	0.6716659	0.7644622		13.8	20
Carbon Tetrachloride	A	40.0	42.6	0.4385409	0.4676149		6.6	20
Chlorobenzene	A	40.0	38.8	1.152688	1.118084	0.3	-3.0	20
Chloroethane	A	40.0	42.4	0.2114086	0.2214584		4.8	20
Chloroform	A	40.0	39.6	0.5924608	0.5864511		-1.0	20
Chloromethane	A	40.0	40.8	0.3800691	0.3881538	0.1	2.1	20
Cyclohexane	A	40.0	42.8	0.5568446	0.5955761		7.0	20
1,2-Dibromo-3-chloropropane	L	40.0	34.1	0.110562	0.1054203		-14.8	20
Dibromochloromethane	A	40.0	39.5	0.3632127	0.3586356		-1.3	20
1,2-Dibromoethane	A	40.0	38.1	0.315595	0.3006579		-4.7	20
1,2-Dichlorobenzene	A	40.0	38.4	1.350449	1.297816		-3.9	20
1,3-Dichlorobenzene	A	40.0	38.5	1.510073	1.453314		-3.8	20
1,4-Dichlorobenzene	A	40.0	38.5	1.584273	1.523118		-3.9	20
Dichlorodifluoromethane	A	40.0	34.5	0.4025591	0.3469945		-13.8	20
1,1-Dichloroethane	A	40.0	39.2	0.5764122	0.5645166	0.1	-2.1	20
1,2-Dichloroethane	A	40.0	40.3	0.467571	0.4706105		0.7	20
1,1-Dichloroethene	A	40.0	41.1	0.26079	0.2681004		2.8	20
cis-1,2-Dichloroethene	A	40.0	40.7	0.3372106	0.3432784		1.8	20
trans-1,2-Dichloroethene	A	40.0	42.2	0.315937	0.3335126		5.6	20
1,2-Dichloropropane	A	40.0	39.7	0.2968721	0.2946753		-0.7	20
cis-1,3-Dichloropropene	L	40.0	35.8	0.4019488	0.4288784		-10.4	20
trans-1,3-Dichloropropene	L	40.0	35.6	0.3203119	0.3425814		-11.0	20
Ethylbenzene	A	40.0	41.4	1.921278	1.990067		3.6	20
2-Hexanone	L	40.0	32.9	0.2079692	0.1873777		-17.8	40

CONTINUING CALIBRATION CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM070512
Client: TechLaw
Project: KNM
Lab Sample ID: 2G27052-CCV1
Lab File ID: CCV0726.D
Injection Date: 07/26/12
Injection Time: 09:00
Calibration Date: 07/23/12 00:00
Calibration: 2G27002
Sequence: 2G27052
Instrument ID: 328

Analyte	Type	CONC. (ug/L)		Response Factor			% Diff. / Drift	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Isopropylbenzene	L	40.0	36.8	2.76011	2.807998		-8.1	20
Methyl Acetate	L	40.0	40.3	0.2576772	0.2014429		0.7	20
Methyl tert-Butyl Ether	A	40.0	39.1	0.7103539	0.6938496		-2.3	20
Methylcyclohexane	L	40.0	39.3	0.465196	0.5118693		-1.8	20
Methylene Chloride	L	40.0	45.8	0.4496572	0.4287846		14.6	20
2-Butanone (MEK)	A	40.0	36.6	0.1212022	0.1107995		-8.6	40
4-Methyl-2-pentanone (MIBK)	L	40.0	34.3	0.2148291	0.2157519		-14.3	40
Styrene	L	40.0	37.3	1.129156	1.204463		-6.7	20
1,1,2,2-Tetrachloroethane	A	40.0	37.8	0.80029	0.7558993	0.3	-5.5	20
Tetrachloroethene	A	40.0	39.7	0.5260644	0.521838		-0.8	20
Toluene	A	40.0	41.2	1.302121	1.340462		2.9	20
1,2,4-Trichlorobenzene	A	40.0	36.8	0.5529373	0.5090027		-7.9	20
1,1,1-Trichloroethane	A	40.0	41.2	0.4916116	0.5057329		2.9	20
1,1,2-Trichloroethane	A	40.0	40.2	0.2144884	0.2154075		0.4	20
Trichloroethene	A	40.0	39.3	0.3443226	0.338467		-1.7	20
Trichlorofluoromethane	A	40.0	42.6	0.5639701	0.6000244		6.4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	40.0	43.2	0.3190342	0.3443398		7.9	20
Vinyl Chloride	A	40.0	41.3	0.3875036	0.4003388		3.3	20
Xylene (Total)	L	120	124	0.7118428	0.764383		3.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : CCV0726.D
Acq On : 26 Jul 2012 9:00
Operator : LEW
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 26 10:15:38 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
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 : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	88	0.01
2		dichlorodifluoromethane	0.403	0.347	13.9	76	0.00
3	P	chloromethane	0.380	0.388	-2.1	90	0.00
4	C	vinyl chloride	0.388	0.400	-3.1	90	0.00
5		bromomethane	0.183	0.188	-2.7	94	0.00
6		chloroethane	0.211	0.221	-4.7	92	0.00
7		dichlorofluoromethane	0.586	0.614	-4.8	93	0.00
8		trichlorofluoromethane	0.564	0.600	-6.4	92	0.00
9		ethyl ether	0.165	0.174	-5.5	89	0.00
10		acrolein	0.037	0.045	-21.6	104	0.00
11		1,1,2-trichloro-1,2,2-trifl	0.319	0.344	-7.8	94	0.00
12	C	1,1-dichloroethene	0.261	0.268	-2.7	91	0.00
13		acetone	0.103	0.082	20.4	75	0.00
14		iodomethane	0.281	0.361	-28.5#	89	0.00
15		carbon disulfide	0.672	0.764	-13.7	92	0.00
16		methyl acetate	0.258	0.201	22.1	86	0.00
17		methylene chloride	0.450	0.429	4.7	97	0.00
18		acrylonitrile	0.109	0.115	-5.5	94	0.00
19		trans-1,2-dichloroethene	0.316	0.334	-5.7	93	0.00
20		methyl (tert) butyl ether	0.710	0.694	2.3	83	0.00
21	P	1,1-dichloroethane	0.576	0.565	1.9	84	0.00
22		vinyl acetate	0.423	0.508	-20.1	88	0.00
23		2,2-dichloropropane	0.315	0.353	-12.1	89	0.00
24		cis-1,2-dichloroethene	0.337	0.343	-1.8	85	0.00
25		2-butanone (MEK)	0.121	0.111	8.3	76	0.01
26		bromochloromethane	0.269	0.265	1.5	86	0.00
27		tetrahydrofuran	0.023	0.024	-4.3	75	0.01
28	C	chloroform	0.592	0.586	1.0	86	0.00
29	S	#Dibromofluoromethane	0.286	0.292	-2.1	90	0.00
30		1,1,1-trichloroethane	0.492	0.506	-2.8	86	0.01
31		cyclohexane	0.557	0.596	-7.0	86	0.01
32		carbon tetrachloride	0.439	0.468	-6.6	88	0.00
33		1,1-dichloropropene	0.439	0.467	-6.4	86	0.01
34		benzene	1.251	1.262	-0.9	85	0.01
35		1,2-dichloroethane	0.468	0.471	-0.6	87	0.00
36		heptane	0.000	0.000	0.0	0#	0.01
37	s	#1,2-Dichloroethane-d4	0.175	0.177	-1.1	90	0.01
38		trichloroethene	0.344	0.338	1.7	84	0.00
39		methylcyclohexane	0.465	0.512	-10.1	86	0.00
40	C	1,2-dichloropropane	0.297	0.295	0.7	84	0.00
41		dibromomethane	0.188	0.186	1.1	85	0.00
42		1,4-dioxane	0.000	0.000	0.0	0#	-7.01#
43		bromodichloromethane	0.396	0.394	0.5	85	0.00
44		2-chloroethyl vinyl ether	0.044	0.039	11.4	65	0.00
45		cis-1,3-dichloropropene	0.402	0.429	-6.7	85	0.00
46		4-methyl-2-pentanone (MIBK)	0.215	0.216	-0.5	77	0.01
47	s	#Toluene-d8	0.987	1.030	-4.4	92	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : CCV0726.D
Acq On : 26 Jul 2012 9:00
Operator : LEW
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 26 10:15:38 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
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 : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	C	toluene	1.302	1.340	-2.9	88	0.00
49		trans-1,3-dichloropropene	0.320	0.343	-7.2	84	0.00
50		1,1,2-trichloroethane	0.214	0.215	-0.5	86	0.00
51		Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
52		tetrachloroethene	0.526	0.522	0.8	89	0.00
53		1,3-dichloropropane	0.606	0.595	1.8	86	0.00
54		2-hexanone (MBK)	0.208	0.187	10.1	76	0.00
55		dibromochloromethane	0.363	0.359	1.1	85	0.00
56		1,2-dibromoethane	0.316	0.301	4.7	83	0.00
57	P	chlorobenzene	1.153	1.118	3.0	88	0.00
58		1-chlorohexane	0.417	0.427	-2.4	87	0.00
59		1,1,1,2-tetrachloroethane	0.372	0.381	-2.4	88	0.00
60	C	ethylbenzene	1.921	1.990	-3.6	88	0.00
61		m+p-xylene	0.733	0.789	-7.6	89	0.00
62		o-xylene	0.670	0.716	-6.9	88	0.00
63		styrene	1.129	1.204	-6.6	87	0.00
64	P	bromoform	0.224	0.227	-1.3	84	0.00
65	S	#4-Bromofluorobenzene	0.512	0.521	-1.8	92	0.00
66	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
67		isopropylbenzene	2.760	2.808	-1.7	85	0.00
68		bromobenzene	1.378	1.287	6.6	86	0.00
69	P	1,1,2,2-tetrachloroethane	0.800	0.756	5.5	87	0.00
70		1,2,3-trichloropropane	0.263	0.242	8.0	84	0.00
71		1,4-dichloro-2-butene	0.215	0.220	-2.3	85	0.00
72		n-propylbenzene	0.829	0.845	-1.9	86	0.00
73		2-chlorotoluene	0.811	0.783	3.5	85	0.00
74		1,3,5-trimethylbenzene	2.632	2.714	-3.1	86	0.00
75		4-chlorotoluene	2.669	2.677	-0.3	87	0.00
76		tert-butylbenzene	1.944	1.945	-0.1	85	0.00
77		1,2,4-trimethylbenzene	2.409	2.478	-2.9	85	0.00
78		sec-butylbenzene	2.607	2.624	-0.7	85	0.00
79		1,3-dichlorobenzene	1.510	1.453	3.8	87	0.00
80		4-isopropyltoluene	2.178	2.178	0.0	86	0.00
81		1,4-dichlorobenzene	1.584	1.523	3.9	87	0.00
82		1,2-dichlorobenzene	1.350	1.298	3.9	85	0.00
83		n-butylbenzene	1.661	1.657	0.2	83	0.00
84		hexachloroethane	0.251	0.252	-0.4	84	0.00
85		1,2-dibromo-3-chloropropane	0.111	0.105	5.4	82	0.00
86		1,2,4-trichlorobenzene	0.553	0.509	8.0	79	0.00
87		hexachlorobutadiene	0.252	0.233	7.5	86	0.00
88		naphthalene	1.159	1.002	13.5	72	0.00
89		1,2,3-trichlorobenzene	0.487	0.439	9.9	78	0.00
90		2-methylnaphthalene	0.348	0.268	23.0	60	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : CCV0726.D
Acq On : 26 Jul 2012 9:00
Operator : LEW
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 26 10:15:38 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
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 : 150%

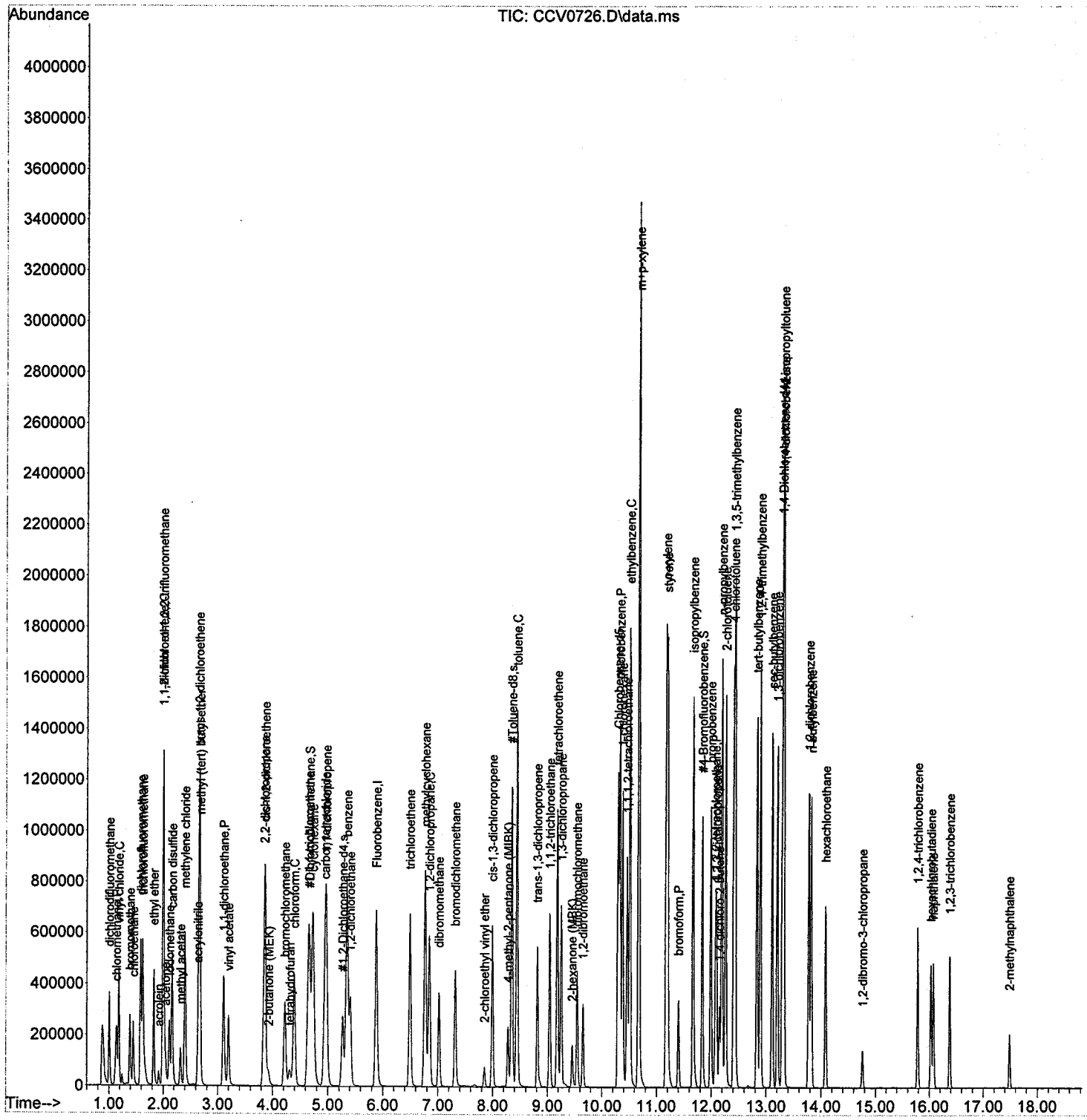
Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : CCV0726.D
Acq On : 26 Jul 2012 9:00
Operator : LEW
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 26 10:15:38 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



01186

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : CCV0726.D
Acq On : 26 Jul 2012 9:00
Operator : LEW
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 26 10:15:38 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.884	96	853587	40.00	ug/L	0.01
51) Chlorobenzene-d5	10.298	117	673207	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.298	152	375554	40.00	ug/L	# 0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	4.665	111	249566	40.86	ug/L	0.00
Spiked Amount 40.000			Recovery	=	102.15%	
37) #1,2-Dichloroethane-d4	5.269	67	151054	40.38	ug/L	0.01
Spiked Amount 40.000			Recovery	=	100.95%	
47) #Toluene-d8	8.347	98	878803	41.73	ug/L	0.00
Spiked Amount 40.000			Recovery	=	104.33%	
65) #4-Bromofluorobenzene	11.841	95	350949	40.73	ug/L	0.00
Spiked Amount 40.000			Recovery	=	101.82%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.001	85	296190	34.48	ug/L	100
3) chloromethane	1.135	50	331323	40.85	ug/L	100
4) vinyl chloride	1.178	62	341724	41.32	ug/L	99
5) bromomethane	1.385	94	160496	48.15	ug/L	100
6) chloroethane	1.452	64	189034	42.45	ug/L	100
7) dichlorofluoromethane	1.587	67	524529	41.93	ug/L	100
8) trichlorofluoromethane	1.623	101	512173	42.56	ug/L	100
9) ethyl ether	1.824	74	148154	41.95	ug/L	95
10) acrolein	1.916	56	38117	48.81	ug/L	98
11) 1,1,2-trichloro-1,2,2-...	1.995	101	293924	43.17	ug/L	97
12) 1,1-dichloroethene	1.995	96	228847	41.12	ug/L	94
13) acetone	2.038	43	69623	34.48	ug/L #	88
14) iodomethane	2.111	142	307888	39.46	ug/L	96
15) carbon disulfide	2.160	76	652535	45.53	ug/L	100
16) methyl acetate	2.318	43	171949	40.28	ug/L	97
17) methylene chloride	2.397	49	366005	45.84	ug/L	92
18) acrylonitrile	2.635	53	97893	41.93	ug/L	96
19) trans-1,2-dichloroethene	2.653	96	284682	42.23	ug/L	99
20) methyl (tert) butyl ether	2.672	73	592261	39.07	ug/L	93
21) 1,1-dichloroethane	3.105	63	481864	39.17	ug/L	98
22) vinyl acetate	3.196	43	433475	42.89	ug/L	95
23) 2,2-dichloropropane	3.848	77	301440	39.61	ug/L	93
24) cis-1,2-dichloroethene	3.860	96	293018	40.72	ug/L	99
25) 2-butanone (MEK)	3.928	43	94577	36.57	ug/L	92
26) bromochloromethane	4.220	49	226356	39.38	ug/L #	76
27) tetrahydrofuran	4.312	71	20911	33.64	ug/L #	79
28) chloroform	4.391	83	500587	39.59	ug/L	99
30) 1,1,1-trichloroethane	4.653	97	431687	41.15	ug/L #	94
31) cyclohexane	4.732	56	508376	42.78	ug/L	87
32) carbon tetrachloride	4.946	117	399150	42.65	ug/L	100
33) 1,1-dichloropropene	4.970	75	398430	42.52	ug/L	99
34) benzene	5.348	78	1077142	40.35	ug/L	97
35) 1,2-dichloroethane	5.409	62	401707	40.26	ug/L	97
36) heptane	5.884	57	31859	No Calib		
38) trichloroethene	6.494	130	288911	39.32	ug/L	97

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : CCV0726.D
Acq On : 26 Jul 2012 9:00
Operator : LEW
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 26 10:15:38 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	6.768	83	436925	39.27 ug/L	94
40) 1,2-dichloropropane	6.842	63	251531	39.70 ug/L	95
41) dibromomethane	7.018	93	159150	39.68 ug/L #	87
42) 1,4-dioxane	0.000		0	N.D.	
43) bromodichloromethane	7.317	83	336676	39.85 ug/L	99
44) 2-chloroethyl vinyl ether	7.848	63	33697	29.73 ug/L	95
45) cis-1,3-dichloropropene	7.994	75	366085	35.85 ug/L	96
46) 4-methyl-2-pentanone (...	8.280	43	184163	34.29 ug/L	92
48) toluene	8.439	91	1144201	41.18 ug/L	99
49) trans-1,3-dichloropropene	8.811	75	292423	35.59 ug/L	98
50) 1,1,2-trichloroethane	9.042	83	183869	40.17 ug/L	94
52) tetrachloroethene	9.183	166	351305	39.68 ug/L	97
53) 1,3-dichloropropane	9.256	76	400395	39.26 ug/L	100
54) 2-hexanone (MBK)	9.451	43	126144	32.88 ug/L	93
55) dibromochloromethane	9.542	129	241436	39.50 ug/L	99
56) 1,2-dibromoethane	9.652	109	202405	38.11 ug/L #	100
57) chlorobenzene	10.329	112	752702	38.80 ug/L	98
58) 1-chlorohexane	10.378	55	287187	40.96 ug/L	95
59) 1,1,1,2-tetrachloroethane	10.463	131	256810	41.02 ug/L	96
60) ethylbenzene	10.512	91	1339727	41.43 ug/L	99
61) m+p-xylene	10.676	106	1062040	86.14 ug/L	95
62) o-xylene	11.176	106	481724	37.56 ug/L	96
63) styrene	11.201	104	810853	37.31 ug/L	96
64) bromoform	11.402	173	152541	34.64 ug/L	99
67) isopropylbenzene	11.670	105	1054555	36.76 ug/L	98
68) bromobenzene	11.993	77	483522	37.36 ug/L	88
69) 1,1,2,2-tetrachloroethane	12.078	83	283881	37.78 ug/L #	100
70) 1,2,3-trichloropropane	12.103	110	91016	36.86 ug/L #	85
71) 1,4-dichloro-2-butene	12.152	53	82681	35.82 ug/L	86
72) n-propylbenzene	12.194	120	317508	40.78 ug/L	96
73) 2-chlorotoluene	12.267	126	294072	38.63 ug/L #	85
74) 1,3,5-trimethylbenzene	12.432	105	1019252	41.24 ug/L	98
75) 4-chlorotoluene	12.414	91	1005363	40.13 ug/L	98
76) tert-butylbenzene	12.834	119	730354	35.78 ug/L	99
77) 1,2,4-trimethylbenzene	12.895	105	930487	41.15 ug/L	98
78) sec-butylbenzene	13.109	105	985606	35.50 ug/L	98
79) 1,3-dichlorobenzene	13.206	146	545798	38.50 ug/L	99
80) 4-isopropyltoluene	13.310	119	817970	40.01 ug/L	99
81) 1,4-dichlorobenzene	13.322	146	572013	38.46 ug/L	98
82) 1,2-dichlorobenzene	13.779	146	487400	38.44 ug/L	99
83) n-butylbenzene	13.822	91	622367	34.63 ug/L	98
84) hexachloroethane	14.084	201	94611	33.83 ug/L #	83
85) 1,2-dibromo-3-chloropr...	14.761	157	39591	34.07 ug/L	98
86) 1,2,4-trichlorobenzene	15.785	180	191158	36.82 ug/L	99
87) hexachlorobutadiene	16.029	225	87434	36.98 ug/L	99
88) naphthalene	16.072	128	376490	32.34 ug/L	97
89) 1,2,3-trichlorobenzene	16.382	180	164942	36.07 ug/L	97
90) 2-methylnaphthalene	17.486	142	100490	27.93 ug/L	98

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

CONTINUING CALIBRATION CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Lab Sample ID: 2H07013-CCV1
Injection Date: 08/06/12
Calibration Date: 07/26/12 00:00
Sequence: 2H07013

SDG: KNM070512
Project: KNM
Lab File ID: CCV0806.D
Injection Time: 08:36
Calibration: 2H01006
Instrument ID: 224

Analyte	Type	CONC. (ug/L)		Response Factor			% Diff. / Drift	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	40.0	48.2	6.619912E-02	7.972482E-02		20.4	40
Benzene	A	40.0	40.1	0.9422601	0.9442453		0.2	20
Bromodichloromethane	A	40.0	43.1	0.2940719	0.3170767		7.8	20
Bromoform	L	40.0	38.7	0.1883126	0.2150654	0.1	-3.2	20
Bromomethane	A	40.0	46.0	8.816489E-02	0.1012964		14.9	20
Carbon Disulfide	A	40.0	53.5	0.3916528	0.523653		33.7	20 *
Carbon Tetrachloride	A	40.0	43.9	0.3280275	0.3597052		9.7	20
Chlorobenzene	A	40.0	38.5	0.8679688	0.836159	0.3	-3.7	20
Chloroethane	L	40.0	44.2	0.1559713	0.1516778		10.4	20
Chloroform	A	40.0	41.2	0.4026116	0.4143283		2.9	20
Chloromethane	A	40.0	39.9	0.2251342	0.2245799	0.1	-0.2	20
Cyclohexane	A	40.0	42.0	0.3898513	0.4097766		5.1	20
1,2-Dibromo-3-chloropropane	L	40.0	36.3	0.1581518	0.169289		-9.3	20
Dibromochloromethane	A	40.0	44.6	0.2714059	0.3026077		11.5	20
1,2-Dibromoethane	A	40.0	40.5	0.2361728	0.2392582		1.3	20
1,2-Dichlorobenzene	A	40.0	38.2	1.058615	1.011734		-4.4	20
1,3-Dichlorobenzene	A	40.0	38.8	1.135354	1.100942		-3.0	20
1,4-Dichlorobenzene	A	40.0	38.0	1.182727	1.122994		-5.1	20
Dichlorodifluoromethane	A	40.0	43.4	0.2901393	0.3150323		8.6	20
1,1-Dichloroethane	A	40.0	40.9	0.3840714	0.3927583	0.1	2.3	20
1,2-Dichloroethane	A	40.0	41.5	0.3218313	0.3340794		3.8	20
1,1-Dichloroethene	A	40.0	45.2	0.17499	0.1977468		13.0	20
cis-1,2-Dichloroethene	A	40.0	41.1	0.2402099	0.2465922		2.7	20
trans-1,2-Dichloroethene	A	40.0	40.2	0.2229306	0.2242494		0.6	20
1,2-Dichloropropane	A	40.0	40.7	0.2166016	0.2203997		1.8	20
cis-1,3-Dichloropropene	A	40.0	45.0	0.3011704	0.3387947		12.5	20
trans-1,3-Dichloropropene	L	40.0	40.0	0.2822391	0.3250453		-0.05	20
Ethylbenzene	A	40.0	39.1	1.488778	1.454132		-2.3	20
2-Hexanone	L	40.0	37.9	0.166667	0.1743494		-5.2	40

CONTINUING CALIBRATION CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Lab Sample ID: 2H07013-CCV1
Injection Date: 08/06/12
Calibration Date: 07/26/12 00:00
Sequence: 2H07013

SDG: KNM070512
Project: KNM
Lab File ID: CCV0806.D
Injection Time: 08:36
Calibration: 2H01006
Instrument ID: 224

Analyte	Type	CONC. (ug/L)		Response Factor			% Diff. / Drift	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Isopropylbenzene	A	40.0	37.1	2.218469	2.056435		-7.3	20
Methyl Acetate	A	40.0	44.3	0.1483787	0.1641634		10.6	20
Methyl tert-Butyl Ether	A	40.0	43.0	0.562919	0.6054428		7.6	20
Methylcyclohexane	A	40.0	43.2	0.3879732	0.4192215		8.1	20
Methylene Chloride	L	40.0	40.0	0.4071975	0.2792879		-0.05	20
2-Butanone (MEK)	A	40.0	40.5	0.0948406	9.609316E-02		1.3	40
4-Methyl-2-pentanone (MIBK)	A	40.0	43.4	0.1970583	0.2137044		8.4	40
Styrene	A	40.0	39.8	0.9219241	0.9181404		-0.4	20
1,1,2,2-Tetrachloroethane	A	40.0	36.4	0.5523528	0.5031991	0.3	-8.9	20
Tetrachloroethene	A	40.0	38.6	0.4234152	0.40902		-3.4	20
Toluene	A	40.0	39.7	1.093634	1.08597		-0.7	20
1,2,4-Trichlorobenzene	A	40.0	41.9	0.5601549	0.5868018		4.8	20
1,1,1-Trichloroethane	A	40.0	42.0	0.3576021	0.3758611		5.1	20
1,1,2-Trichloroethane	A	40.0	42.0	0.1598845	0.167925		5.0	20
Trichloroethene	A	40.0	39.7	0.2839607	0.2820343		-0.7	20
Trichlorofluoromethane	A	40.0	43.7	0.3795308	0.4143739		9.2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	40.0	45.2	0.1888436	0.2135596		13.1	20
Vinyl Chloride	A	40.0	43.0	0.2489467	0.2677829		7.6	20
Xylene (Total)	A	120	118	0.5637815	0.5553574		-1.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk
* Values outside of QC limits

Evaluate Continuing Calibration Report

Data Path : C:\MSDChem\1\DATA\08-06-12\
InstName : 224
Data File : CCV0806.D
Acq On : 6 Aug 2012 8:36
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 08:55:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
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 : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	89	0.00
2		dichlorodifluoromethane	0.290	0.315	-8.6	95	0.00
3	P	chloromethane	0.225	0.225	0.0	90	0.00
4	C	vinyl chloride	0.249	0.268	-7.6	97	0.00
5		bromomethane	0.088	0.101	-14.8	104	0.00
6		chloroethane	0.156	0.152	2.6	97	0.00
7		dichlorofluoromethane	0.370	0.402	-8.6	97	0.00
8		trichlorofluoromethane	0.380	0.414	-8.9	97	0.00
9		ethyl ether	0.099	0.110	-11.1	99	0.00
10		acrolein	0.028	0.031	-10.7	94	-0.01
11		1,1,2-trichloro-1,2,2-trifl	0.189	0.214	-13.2	99	0.00
12	C	1,1-dichloroethene	0.175	0.198	-13.1	100	0.00
13		acetone	0.066	0.080	-21.2	127	-0.01
14		iodomethane	0.112	0.098	12.5	66	0.00
15		carbon disulfide	0.392	0.524	-33.7#	131	0.00
16		methyl acetate	0.148	0.164	-10.8	106	0.00
17		methylene chloride	0.407	0.279	31.4#	87	0.00
18		acrylonitrile	0.083	0.083	0.0	86	0.00
19		trans-1,2-dichloroethene	0.223	0.224	-0.4	90	0.00
20		methyl (tert) butyl ether	0.563	0.605	-7.5	92	0.00
21	P	1,1-dichloroethane	0.384	0.393	-2.3	90	0.00
22		vinyl acetate	0.361	0.515	-42.7#	135	0.00
23		2,2-dichloropropane	0.275	0.320	-16.4	101	0.00
24		cis-1,2-dichloroethene	0.240	0.247	-2.9	89	0.00
25		2-butanone (MEK)	0.095	0.096	-1.1	105	-0.01
26		bromochloromethane	0.184	0.184	0.0	88	-0.01
27		tetrahydrofuran	0.032	0.032	0.0	88	0.00
28	C	chloroform	0.403	0.414	-2.7	90	0.00
29	S	#Dibromofluoromethane	0.243	0.249	-2.5	91	0.00
30		1,1,1-trichloroethane	0.358	0.376	-5.0	92	0.00
31		cyclohexane	0.390	0.410	-5.1	88	0.00
32		carbon tetrachloride	0.328	0.360	-9.8	93	-0.01
33		1,1-dichloropropene	0.325	0.335	-3.1	90	0.00
34		benzene	0.942	0.944	-0.2	88	0.00
35		1,2-dichloroethane	0.322	0.334	-3.7	91	0.00
36		heptane	0.000	0.000	0.0	87	0.00
37	s	#1,2-Dichloroethane-d4	0.292	0.293	-0.3	90	0.00
38		trichloroethene	0.284	0.282	0.7	88	0.00
39		methylcyclohexane	0.388	0.419	-8.0	89	0.00
40	C	1,2-dichloropropane	0.217	0.220	-1.4	88	0.00
41		dibromomethane	0.132	0.136	-3.0	90	0.00
42		1,4-dioxane	0.000	0.000	0.0	0#	-7.66#
43		bromodichloromethane	0.294	0.317	-7.8	92	0.00
44		2-chloroethyl vinyl ether	0.114	0.139	-21.9	112	0.00
45		cis-1,3-dichloropropene	0.301	0.339	-12.6	93	0.00
46		4-methyl-2-pentanone (MIBK)	0.197	0.214	-8.6	107	0.00
47	s	#Toluene-d8	1.026	1.041	-1.5	89	0.00
48	C	toluene	1.094	1.086	0.7	88	0.00
49		trans-1,3-dichloropropene	0.282	0.325	-15.2	96	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MSDChem\1\DATA\08-06-12\
InstName : 224
Data File : CCV0806.D
Acq On : 6 Aug 2012 8:36
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 08:55:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
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 : 150%

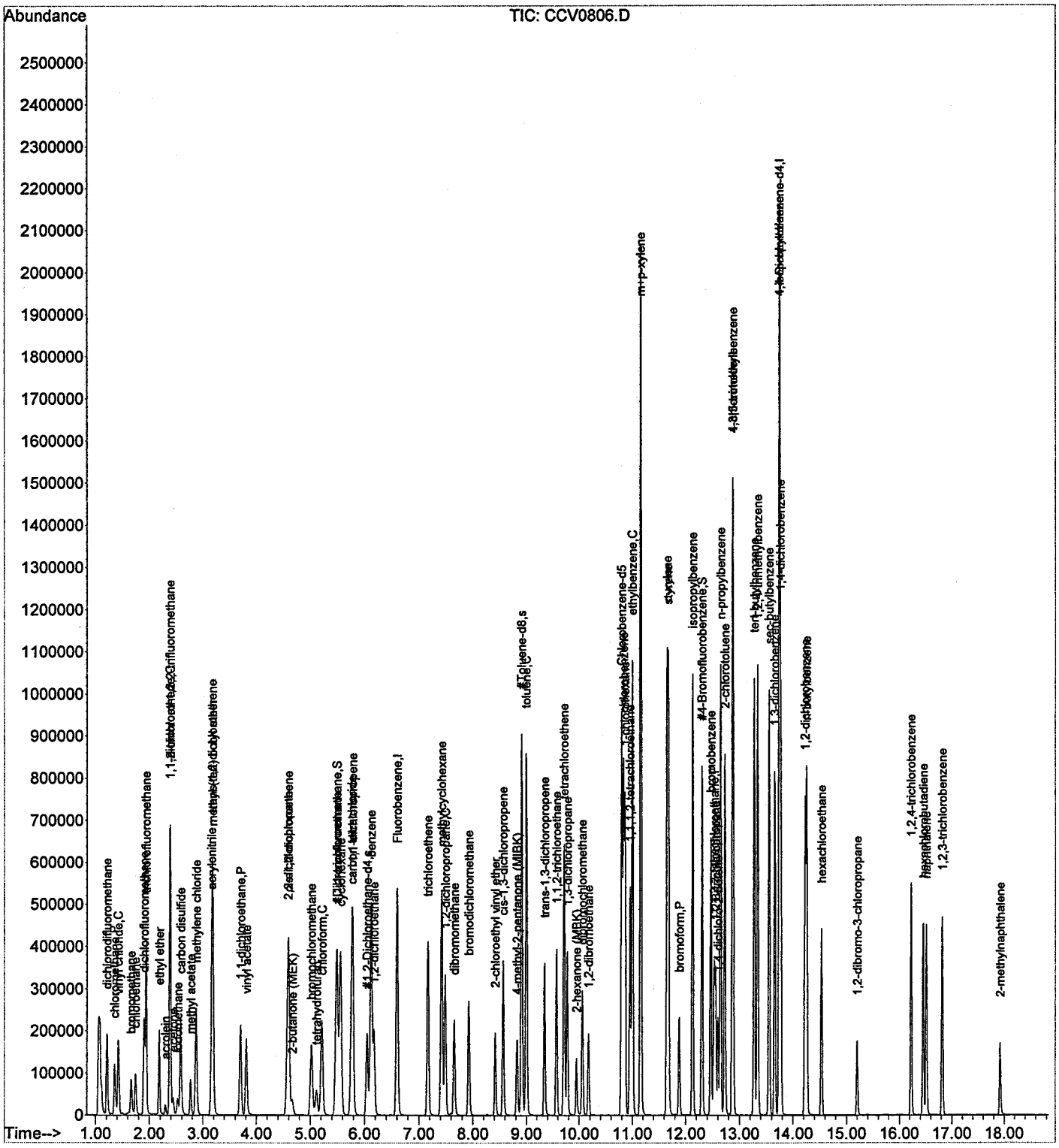
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50		1,1,2-trichloroethane	0.160	0.168	-5.0	92	0.00
51		Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
52		tetrachloroethene	0.423	0.409	3.3	93	0.00
53		1,3-dichloropropane	0.421	0.413	1.9	91	0.00
54		2-hexanone (MBK)	0.167	0.174	-4.2	110	0.00
55		dibromochloromethane	0.271	0.303	-11.8	102	0.00
56		1,2-dibromoethane	0.236	0.239	-1.3	93	0.00
57		chlorobenzene	0.868	0.836	3.7	93	0.00
58		1-chlorohexane	0.300	0.291	3.0	91	0.00
59		1,1,1,2-tetrachloroethane	0.289	0.296	-2.4	95	0.00
60	C	ethylbenzene	1.489	1.454	2.4	92	0.00
61		m+p-xylene	0.580	0.568	2.1	92	0.00
62		o-xylene	0.531	0.529	0.4	92	0.00
63		styrene	0.922	0.918	0.4	90	0.00
64	P	bromoform	0.188	0.215	-14.4	101	0.00
65	S	#4-Bromofluorobenzene	0.505	0.487	3.6	92	0.00
66	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
67		isopropylbenzene	2.218	2.056	7.3	92	0.00
68		bromobenzene	0.893	0.805	9.9	91	0.00
69	P	1,1,2,2-tetrachloroethane	0.552	0.503	8.9	92	0.00
70		1,2,3-trichloropropane	0.197	0.176	10.7	90	0.00
71		1,4-dichloro-2-butene	0.188	0.145	22.9	72	0.00
72		n-propylbenzene	0.650	0.600	7.7	91	0.00
73		2-chlorotoluene	0.563	0.516	8.3	92	0.00
74		1,3,5-trimethylbenzene	1.803	1.633	9.4	89	0.00
75		4-chlorotoluene	0.575	0.513	10.8	89	0.00
76		tert-butylbenzene	1.564	1.558	0.4	98	0.00
77		1,2,4-trimethylbenzene	1.783	1.789	-0.3	98	0.00
78		sec-butylbenzene	2.084	2.084	0.0	98	0.00
79		1,3-dichlorobenzene	1.135	1.101	3.0	98	0.00
80		4-isopropyltoluene	1.796	1.771	1.4	99	0.00
81		1,4-dichlorobenzene	1.183	1.123	5.1	99	0.00
82		1,2-dichlorobenzene	1.059	1.012	4.4	96	0.00
83		n-butylbenzene	1.303	1.278	1.9	96	0.00
84		hexachloroethane	0.234	0.242	-3.4	100	0.00
85		1,2-dibromo-3-chloropropane	0.158	0.169	-7.0	101	0.00
86		1,2,4-trichlorobenzene	0.560	0.587	-4.8	102	0.00
87		hexachlorobutadiene	0.312	0.313	-0.3	104	0.00
88		naphthalene	1.244	1.169	6.0	92	0.00
89		1,2,3-trichlorobenzene	0.495	0.493	0.4	97	0.00
90		2-methylnaphthalene	0.300	0.277	7.7	88	0.00

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

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : CCV0806.D
Acq On : 6 Aug 2012 8:36
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 08:55:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration



01193

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : CCV0806.D
Acq On : 6 Aug 2012 8:36
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 08:55:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.60	96	635373	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	575253	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	359474	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	157952	40.87 ug/L	0.00
Spiked Amount 40.000			Recovery	= 102.18%	
37) #1,2-Dichloroethane-d4	6.05	65	186185	40.20 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.50%	
47) #Toluene-d8	8.91	98	661198	40.57 ug/L	0.00
Spiked Amount 40.000			Recovery	= 101.43%	
65) #4-Bromofluorobenzene	12.30	95	280287	38.59 ug/L	0.00
Spiked Amount 40.000			Recovery	= 96.48%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.21	85	200163	43.43 ug/L	98
3) chloromethane	1.35	50	142692	39.90 ug/L	99
4) vinyl chloride	1.42	62	170142	43.03 ug/L	99
5) bromomethane	1.66	94	64361	45.96 ug/L	98
6) chloroethane	1.74	64	96372	44.15 ug/L	99
7) dichlorofluoromethane	1.90	67	255134	43.41 ug/L	99
8) trichlorofluoromethane	1.94	101	263282	43.67 ug/L	99
9) ethyl ether	2.18	74	70195	44.81 ug/L	99
10) acrolein	2.29	56	19794	40.83 ug/L #	100
11) 1,1,2-trichloro-1,2,2-trif	2.38	101	135690	45.24 ug/L	99
12) 1,1-dichloroethene	2.38	96	125643	45.20 ug/L	96
13) acetone	2.44	43	50655	48.17 ug/L	94
14) iodomethane	2.52	142	62255	26.73 ug/L	97
15) carbon disulfide	2.58	76	332715	53.48 ug/L	100
16) methyl acetate	2.77	43	104305	44.26 ug/L	99
17) methylene chloride	2.87	49	177452	39.98 ug/L	99
18) acrylonitrile	3.15	53	52973	40.06 ug/L	98
19) trans-1,2-dichloroethene	3.16	96	142482	40.24 ug/L	98
20) methyl (tert) butyl ether	3.18	73	384682	43.02 ug/L	98
21) 1,1-dichloroethane	3.70	63	249548	40.90 ug/L	100
22) vinyl acetate	3.81	43	327351	57.06 ug/L	100
23) 2,2-dichloropropane	4.58	77	203129	46.57 ug/L	97
24) cis-1,2-dichloroethene	4.60	96	156678	41.06 ug/L	97
25) 2-butanone (MEK)	4.66	43	61055	40.53 ug/L	97
26) bromochloromethane	5.02	49	117051	40.04 ug/L	97
27) tetrahydrofuran	5.11	71	20367	40.51 ug/L	95
28) chloroform	5.21	83	263253	41.16 ug/L	99
30) 1,1,1-trichloroethane	5.49	97	238812	42.04 ug/L	98
31) cyclohexane	5.56	56	260361	42.04 ug/L	97
32) carbon tetrachloride	5.76	117	228547	43.86 ug/L	99
33) 1,1-dichloropropene	5.78	75	212842	41.26 ug/L	99
34) benzene	6.12	78	599948	40.08 ug/L	96
35) 1,2-dichloroethane	6.17	62	212265	41.52 ug/L	96
36) heptane	6.60	57	19746	No Calib #	
38) trichloroethene	7.17	130	179197	39.73 ug/L	99
39) methylcyclohexane	7.42	83	266362	43.22 ug/L	99
40) 1,2-dichloropropane	7.49	63	140036	40.70 ug/L	99
41) dibromomethane	7.66	93	86131	41.15 ug/L	99

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : CCV0806.D
Acq On : 6 Aug 2012 8:36
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 08:55:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	7.92	83	201462	43.13 ug/L	100
44) 2-chloroethyl vinyl ether	8.42	63	88397	42.25 ug/L	99
45) cis-1,3-dichloropropene	8.56	75	215261	45.00 ug/L	96
46) 4-methyl-2-pentanone (MIBK	8.83	43	135782	43.38 ug/L	99
48) toluene	9.00	91	689996	39.72 ug/L	98
49) trans-1,3-dichloropropene	9.34	75	206525	39.98 ug/L	98
50) 1,1,2-trichloroethane	9.57	83	106695	42.01 ug/L	99
52) tetrachloroethene	9.72	166	235290	38.64 ug/L	99
53) 1,3-dichloropropane	9.78	76	237679	39.24 ug/L	100
54) 2-hexanone (MBK)	9.95	43	100295	37.92 ug/L	97
55) dibromochloromethane	10.06	129	174076	44.60 ug/L	99
56) 1,2-dibromoethane	10.17	109	137634	40.52 ug/L	98
57) chlorobenzene	10.83	112	481003	38.53 ug/L	97
58) 1-chlorohexane	10.86	55	167494	38.85 ug/L	94
59) 1,1,1,2-tetrachloroethane	10.95	131	170303	40.99 ug/L	99
60) ethylbenzene	11.00	91	836494	39.07 ug/L	98
61) m+p-xylene	11.16	106	653972	78.37 ug/L	98
62) o-xylene	11.65	106	304441	39.87 ug/L	100
63) styrene	11.67	104	528163	39.84 ug/L	94
64) bromoform	11.88	173	123717	38.70 ug/L	99
67) isopropylbenzene	12.13	105	739235	37.08 ug/L	98
68) bromobenzene	12.47	77	289546	36.07 ug/L	99
69) 1,1,2,2-tetrachloroethane	12.53	83	180887	36.44 ug/L #	99
70) 1,2,3-trichloropropane	12.56	110	63264	35.68 ug/L	98
71) 1,4-dichloro-2-butene	12.60	53	52104	26.48 ug/L	94
72) n-propylbenzene	12.65	120	215518	36.92 ug/L	94
73) 2-chlorotoluene	12.73	126	185588	36.69 ug/L	97
74) 1,3,5-trimethylbenzene	12.88	105	587139	36.24 ug/L	100
75) 4-chlorotoluene	12.87	126	184253	35.65 ug/L	98
76) tert-butylbenzene	13.28	119	560137	39.86 ug/L	97
77) 1,2,4-trimethylbenzene	13.34	105	643120	40.14 ug/L	99
78) sec-butylbenzene	13.55	105	749059	39.99 ug/L	98
79) 1,3-dichlorobenzene	13.66	146	395760	38.79 ug/L	99
80) 4-isopropyltoluene	13.75	119	636777	39.45 ug/L	97
81) 1,4-dichlorobenzene	13.77	146	403687	37.98 ug/L	98
82) 1,2-dichlorobenzene	14.23	146	363692	38.23 ug/L	99
83) n-butylbenzene	14.25	91	459406	39.22 ug/L	99
84) hexachloroethane	14.53	201	86845	34.98 ug/L	98
85) 1,2-dibromo-3-chloropropan	15.20	157	60855	36.28 ug/L	97
86) 1,2,4-trichlorobenzene	16.22	180	210940	41.90 ug/L	99
87) hexachlorobutadiene	16.46	225	112431	40.08 ug/L	99
88) naphthalene	16.51	128	420158	34.40 ug/L	99
89) 1,2,3-trichlorobenzene	16.82	180	177350	39.88 ug/L	100
90) 2-methylnaphthalene	17.92	142	99472	33.10 ug/L	99

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

CONTINUING CALIBRATION CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Lab Sample ID: 2H20042-CCV1
Injection Date: 08/17/12
Calibration Date: 08/08/12 00:00
Sequence: 2H20042

SDG: KNM070512
Project: KNM
Lab File ID: CCV0817A.D
Injection Time: 12:49
Calibration: 2H10001
Instrument ID: 323

Analyte	Type	CONC. (ug/L)		Response Factor			% Diff. / Drift	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	40.0	30.8	0.1012047	6.079665E-02		-23.0	40
Benzene	A	40.0	42.1	0.9721246	1.024073		5.3	20
Bromodichloromethane	A	40.0	44.0	0.2891416	0.3180406		10.0	20
Bromoform	L	40.0	34.4	0.1732265	0.1833473	0.1	-13.9	20
Bromomethane	A	40.0	44.5	0.119029	0.1323038		11.2	20
Carbon Disulfide	A	40.0	52.1	0.6422607	0.8362346		30.2	20 *
Carbon Tetrachloride	A	40.0	42.6	0.3024788	0.3222346		6.5	20
Chlorobenzene	A	40.0	41.0	0.9346027	0.9590306	0.3	2.6	20
Chloroethane	A	40.0	47.2	0.1918082	0.2262378		18.0	20
Chloroform	A	40.0	41.2	0.4135064	0.4261455		3.1	20
Chloromethane	A	40.0	44.3	0.290101	0.321435	0.1	10.8	20
Cyclohexane	A	40.0	42.4	0.4050034	0.428913		5.9	20
1,2-Dibromo-3-chloropropane	L	40.0	31.2	0.1010115	8.911667E-02		-22.1	20 *
Dibromochloromethane	L	40.0	37.8	0.2543546	0.2788039		-5.4	20
1,2-Dibromoethane	A	40.0	39.0	0.2223969	0.2168148		-2.5	20
1,2-Dichlorobenzene	A	40.0	40.2	1.190001	1.195772		0.5	20
1,3-Dichlorobenzene	A	40.0	41.0	1.312947	1.347556		2.6	20
1,4-Dichlorobenzene	A	40.0	41.3	1.379698	1.423657		3.2	20
Dichlorodifluoromethane	A	40.0	44.5	0.2671608	0.2972941		11.3	20
1,1-Dichloroethane	A	40.0	41.2	0.4296545	0.4424894	0.1	3.0	20
1,2-Dichloroethane	A	40.0	40.8	0.3112539	0.3172943		1.9	20
1,1-Dichloroethene	A	40.0	44.2	0.2611278	0.2882918		10.4	20
cis-1,2-Dichloroethene	A	40.0	42.3	0.2594951	0.2742067		5.7	20
trans-1,2-Dichloroethene	A	40.0	39.8	0.2749002	0.2733236		-0.6	20
1,2-Dichloropropane	A	40.0	41.6	0.2327913	0.2419744		3.9	20
cis-1,3-Dichloropropene	A	40.0	40.7	0.3319974	0.3380187		1.8	20
trans-1,3-Dichloropropene	L	40.0	34.0	0.3015585	0.2924801		-15.1	20
Ethylbenzene	A	40.0	42.2	1.56817	1.653667		5.5	20
2-Hexanone	L	40.0	33.2	0.1631664	0.138117		-17.1	40

CONTINUING CALIBRATION CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM070512
Client: TechLaw
Project: KNM
Lab Sample ID: 2H20042-CCV1
Lab File ID: CCV0817A.D
Injection Date: 08/17/12
Injection Time: 12:49
Calibration Date: 08/08/12 00:00
Calibration: 2H10001
Sequence: 2H20042
Instrument ID: 323

Analyte	Type	CONC. (ug/L)		Response Factor			% Diff. / Drift	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Isopropylbenzene	A	40.0	40.5	2.278985	2.30833		1.3	20
Methyl Acetate	A	40.0	39.8	0.1544734	0.1535938		-0.6	20
Methyl tert-Butyl Ether	A	40.0	33.0	0.5994122	0.4944205		-17.5	20
Methylcyclohexane	A	40.0	42.7	0.3990721	0.4260644		6.8	20
Methylene Chloride	L	40.0	45.6	0.3980407	0.382468		14.0	20
2-Butanone (MEK)	A	40.0	35.9	8.187393E-02	7.346681E-02		-10.3	40
4-Methyl-2-pentanone (MIBK)	A	40.0	35.3	0.1924444	0.1697348		-11.8	40
Styrene	A	40.0	42.1	1.096017	1.154309		5.3	20
1,1,2,2-Tetrachloroethane	A	40.0	38.8	0.4617158	0.4479114	0.3	-3.0	20
Tetrachloroethene	A	40.0	40.3	0.4079302	0.4109946		0.8	20
Toluene	A	40.0	42.2	1.077647	1.138108		5.6	20
1,2,4-Trichlorobenzene	A	40.0	37.5	0.6413599	0.6019812		-6.1	20
1,1,1-Trichloroethane	A	40.0	39.7	0.3485363	0.3457381		-0.8	20
1,1,2-Trichloroethane	A	40.0	40.6	0.1526493	0.1550864		1.6	20
Trichloroethene	A	40.0	39.9	0.2722294	0.2713384		-0.3	20
Trichlorofluoromethane	A	40.0	47.4	0.4097478	0.4853835		18.5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	40.0	48.1	0.2339289	0.2814961		20.3	20 *
Vinyl Chloride	A	40.0	45.1	0.3290209	0.3706531		12.7	20
Xylene (Total)	A	120	126	0.6398416	0.672137		5.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\08-17-12\
Data File : CCV0817A.D
InstName : 323
Acq On : 17 Aug 2012 12:49
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 13:13:13 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
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 : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	82	0.00
2		dichlorodifluoromethane	0.267	0.297	-11.2	89	0.00
3	P	chloromethane	0.290	0.321	-10.7	94	0.00
4	C	vinyl chloride	0.329	0.371	-12.8	92	0.00
5		bromomethane	0.119	0.132	-10.9	91	0.00
6		chloroethane	0.192	0.226	-17.7	98	0.00
7		dichlorofluoromethane	0.452	0.539	-19.2	100	0.00
8		trichlorofluoromethane	0.410	0.485	-18.3	97	0.00
9		ethyl ether	0.134	0.146	-9.0	89	0.00
10		acrolein	0.034	0.032	5.9	81	0.00
11		1,1,2-trichloro-1,2,2-trifl	0.234	0.281	-20.1	102	0.00
12	C	1,1-dichloroethene	0.261	0.288	-10.3	92	0.00
13		acetone	0.101	0.061	39.6#	67	0.00
14		iodomethane	0.237	0.280	-18.1	79	0.00
15		carbon disulfide	0.642	0.836	-30.2#	109	0.00
16		methyl acetate	0.154	0.154	0.0	84	0.00
17		methylene chloride	0.398	0.382	4.0	96	0.00
18		acrylonitrile	0.080	0.077	3.8	78	-0.01
19		trans-1,2-dichloroethene	0.275	0.273	0.7	81	0.00
20		methyl (tert) butyl ether	0.599	0.494	17.5	67	-0.01
21	P	1,1-dichloroethane	0.430	0.442	-2.8	85	0.00
22		vinyl acetate	0.414	0.449	-8.5	114	-0.01
23		2,2-dichloropropane	0.289	0.238	17.6	72	0.00
24		cis-1,2-dichloroethene	0.259	0.274	-5.8	87	0.00
25		2-butanone (MEK)	0.082	0.073	11.0	82	0.00
26		bromochloromethane	0.202	0.214	-5.9	88	0.00
27		tetrahydrofuran	0.019	0.015	21.1	64	0.00
28	C	chloroform	0.414	0.426	-2.9	87	0.00
29		1,1,1-trichloroethane	0.349	0.346	0.9	81	-0.01
30	S	#Dibromofluoromethane	0.242	0.246	-1.7	84	-0.01
31		cyclohexane	0.405	0.429	-5.9	88	0.00
32		carbon tetrachloride	0.302	0.322	-6.6	85	-0.01
33		1,1-dichloropropene	0.335	0.347	-3.6	86	-0.01
34		benzene	0.972	1.024	-5.3	88	-0.01
35		1,2-dichloroethane	0.311	0.317	-1.9	85	-0.01
36		heptane	0.000	0.000	0.0	84	-0.01
37	S	#1,2-Dichloroethane-d4	0.148	0.146	1.4	81	-0.01
38		trichloroethene	0.272	0.271	0.4	80	0.00
39		methylcyclohexane	0.399	0.426	-6.8	87	0.00
40	C	1,2-dichloropropane	0.233	0.242	-3.9	86	0.00
41		dibromomethane	0.125	0.128	-2.4	83	0.00
42		bromodichloromethane	0.289	0.318	-10.0	87	0.00
43		2-chloroehtyl vinyl ether	0.122	0.124	-1.6	86	0.00
44		cis-1,3-dichloropropene	0.332	0.338	-1.8	81	0.00
45		4-methyl-2-pentanone (MIBK)	0.192	0.170	11.5	82	0.00
46	s	#Toluene-d8	0.996	1.017	-2.1	85	0.00
47	C	toluene	1.078	1.138	-5.6	89	0.00
48		trans-1,3-dichloropropene	0.302	0.292	3.3	76	0.00
49		1,1,2-trichloroethane	0.153	0.155	-1.3	85	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\08-17-12\
Data File : CCV0817A.D
InstName : 323
Acq On : 17 Aug 2012 12:49
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 13:13:13 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
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 : 150%

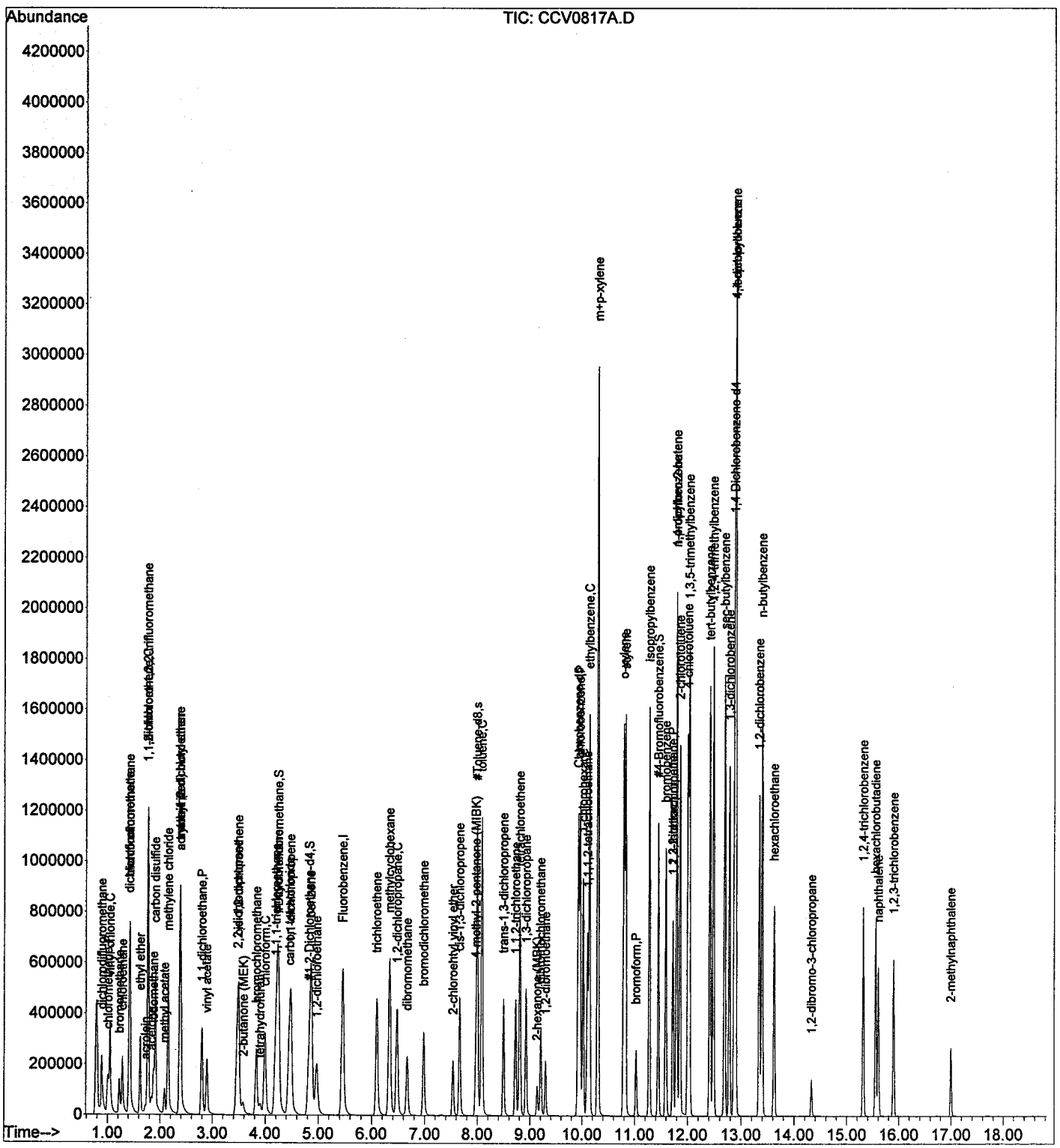
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50		Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
51		tetrachloroethene	0.408	0.411	-0.7	86	0.00
52		1,3-dichloropropane	0.431	0.429	0.5	83	0.00
53		2-hexanone (MBK)	0.163	0.138	15.3	78	0.00
54		dibromochloromethane	0.254	0.279	-9.8	86	0.00
55		1,2-dibromoethane	0.222	0.217	2.3	80	0.00
56	P	chlorobenzene	0.935	0.959	-2.6	88	0.00
57		1-chlorohexane	0.300	0.333	-11.0	93	-0.01
58		1,1,1,2-tetrachloroethane	0.291	0.317	-8.9	87	0.00
59	C	ethylbenzene	1.568	1.654	-5.5	90	-0.01
60		m+p-xylene	0.653	0.687	-5.2	90	-0.01
61		o-xylene	0.614	0.642	-4.6	88	0.00
62		styrene	1.096	1.154	-5.3	88	0.00
63	P	bromoform	0.173	0.183	-5.8	80	0.00
64	S	#4-Bromofluorobenzene	0.508	0.510	-0.4	84	0.00
65		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	0.00
66		isopropylbenzene	2.279	2.308	-1.3	89	0.00
67		bromobenzene	0.930	0.948	-1.9	88	0.00
68	P	1,1,2,2-tetrachloroethane	0.462	0.448	3.0	86	0.00
69		1,2,3-trichloropropane	0.150	0.138	8.0	79	0.00
70		1,4-dichloro-2-butene	0.145	0.150	-3.4	84	0.00
71		n-propylbenzene	0.716	0.738	-3.1	91	-0.01
72		2-chlorotoluene	0.618	0.623	-0.8	89	0.00
73		1,3,5-trimethylbenzene	2.102	2.153	-2.4	89	0.00
74		4-chlorotoluene	2.015	2.078	-3.1	90	-0.01
75		tert-butylbenzene	1.852	1.845	0.4	87	0.00
76		1,2,4-trimethylbenzene	2.149	2.224	-3.5	90	0.00
77		sec-butylbenzene	2.700	2.758	-2.1	89	0.00
78		1,3-dichlorobenzene	1.313	1.348	-2.7	90	0.00
79		4-isopropyltoluene	2.505	2.544	-1.6	90	0.00
80		1,4-dichlorobenzene	1.380	1.424	-3.2	91	0.00
81		1,2-dichlorobenzene	1.190	1.196	-0.5	88	0.00
82		n-butylbenzene	2.017	2.140	-6.1	92	0.00
83		hexachloroethane	0.281	0.313	-11.4	85	0.00
84		1,2-dibromo-3-chloropropane	0.101	0.089	11.9	70	0.00
85		1,2,4-trichlorobenzene	0.641	0.602	6.1	84	0.00
86		hexachlorobutadiene	0.375	0.366	2.4	86	0.00
87		naphthalene	1.192	1.033	13.3	74	0.00
88		1,2,3-trichlorobenzene	0.518	0.456	12.0	78	0.00
89		2-methylnaphthalene	0.417	0.296	29.0#	57	0.00

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

Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-17-12\
Data File : CCV0817A.D
InstName : 323
Acq On : 17 Aug 2012 12:49
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 13:13:13 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration



01200

Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-17-12\
Data File : CCV0817A.D
InstName : 323
Acq On : 17 Aug 2012 12:49
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 13:13:13 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	862893	40.00	ug/L	0.00 82.47%
50) Chlorobenzene-d5	9.92	117	701963	40.00	ug/L	0.00 84.13%
65) 1,4-Dichlorobenzene-d4	12.87	152	473357	40.00	ug/L	0.00 85.39%
System Monitoring Compounds						
30) #Dibromofluoromethane	4.25	111	212342	40.65	ug/L	-0.01
Spiked Amount 40.000			Recovery = 101.62%			
37) #1,2-Dichloroethane-d4	4.82	67	125761	39.33	ug/L	-0.01
Spiked Amount 40.000			Recovery = 98.32%			
46) #Toluene-d8	7.99	98	877735	40.86	ug/L	0.00
Spiked Amount 40.000			Recovery = 102.15%			
64) #4-Bromofluorobenzene	11.45	95	358087	40.14	ug/L	0.00
Spiked Amount 40.000			Recovery = 100.35%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.89	85	256533	44.51	ug/L	100
3) chloromethane	1.01	50	277364	44.32	ug/L	100
4) vinyl chloride	1.04	62	319834	45.06	ug/L	100
5) bromomethane	1.23	94	114164	44.46	ug/L	99
6) chloroethane	1.28	64	195219	47.18	ug/L	99
7) dichlorofluoromethane	1.41	67	465034	47.65	ug/L	100
8) trichlorofluoromethane	1.43	101	418834	47.38	ug/L	100
9) ethyl ether	1.63	74	125790	43.56	ug/L	96
10) acrolein	1.72	56	27353	37.72	ug/L #	98
11) 1,1,2-trichloro-1,2,2-trif	1.77	101	242901	48.13	ug/L	96
12) 1,1-dichloroethene	1.77	96	248765	44.16	ug/L	94
13) acetone	1.84	43	52461	30.80	ug/L	98
14) iodomethane	1.88	142	241662	33.87	ug/L	98
15) carbon disulfide	1.91	76	721581	52.08	ug/L	99
16) methyl acetate	2.08	43	132535	39.77	ug/L	97
17) methylene chloride	2.15	49	330029	45.62	ug/L	96
18) acrylonitrile	2.39	53	66139	38.18	ug/L	95
19) trans-1,2-dichloroethene	2.37	96	235849	39.77	ug/L	97
20) methyl (tert) butyl ether	2.38	73	426632	32.99	ug/L	98
21) 1,1-dichloroethane	2.79	63	381821	41.19	ug/L	100
22) vinyl acetate	2.89	43	387312	43.39	ug/L	99
23) 2,2-dichloropropane	3.47	77	205382	32.95	ug/L	99
24) cis-1,2-dichloroethene	3.49	96	236611	42.27	ug/L	99
25) 2-butanone (MEK)	3.58	43	63394	35.89	ug/L	98
26) bromochloromethane	3.83	49	184732	42.35	ug/L	95
27) tetrahydrofuran	3.90	71	12888	30.81	ug/L	95
28) chloroform	3.99	83	367718	41.22	ug/L	100
29) 1,1,1-trichloroethane	4.19	97	298335	39.68	ug/L	95
31) cyclohexane	4.23	56	370106	42.36	ug/L	98
32) carbon tetrachloride	4.45	117	278054	42.61	ug/L	99
33) 1,1-dichloropropene	4.48	75	299431	41.43	ug/L	99
34) benzene	4.86	78	883665	42.14	ug/L	88
35) 1,2-dichloroethane	4.97	62	273791	40.78	ug/L	99
36) heptane	4.23	57	15924	No Calib	#	

Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-17-12\
Data File : CCV0817A.D
InstName : 323
Acq On : 17 Aug 2012 12:49
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 13:13:13 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
38) trichloroethene	6.10	130	234136	39.87 ug/L	98
39) methylcyclohexane	6.34	83	367648	42.71 ug/L	99
40) 1,2-dichloropropane	6.48	63	208798	41.58 ug/L	100
41) dibromomethane	6.67	93	110048	40.69 ug/L	95
42) bromodichloromethane	6.98	83	274435	44.00 ug/L	99
43) 2-chloroehtyl vinyl ether	7.54	63	106987	40.60 ug/L	98
44) cis-1,3-dichloropropene	7.66	75	291674	40.73 ug/L	95
45) 4-methyl-2-pentanone (MIBK	7.96	43	146463	35.28 ug/L #	97
47) toluene	8.08	91	982065	42.24 ug/L	99
48) trans-1,3-dichloropropene	8.49	75	252379	33.97 ug/L	95
49) 1,1,2-trichloroethane	8.72	83	133823	40.64 ug/L	98
51) tetrachloroethene	8.80	166	288503	40.30 ug/L	99
52) 1,3-dichloropropane	8.92	76	301367	39.86 ug/L	99
53) 2-hexanone (MBK)	9.13	43	96953	33.16 ug/L	95
54) dibromochloromethane	9.20	129	195710	37.83 ug/L	99
55) 1,2-dibromoethane	9.30	109	152196	39.00 ug/L	99
56) chlorobenzene	9.96	112	673204	41.05 ug/L	95
57) 1-chlorohexane	10.02	55	233756	44.45 ug/L	87
58) 1,1,1,2-tetrachloroethane	10.10	131	222392	38.29 ug/L	99
59) ethylbenzene	10.14	91	1160813	42.18 ug/L	100
60) m+p-xylene	10.30	106	964879	84.23 ug/L	94
61) o-xylene	10.79	106	450567	41.82 ug/L	98
62) styrene	10.83	104	810282	42.13 ug/L	94
63) bromoform	11.03	173	128703	34.43 ug/L	100
66) isopropylbenzene	11.28	105	1092664	40.52 ug/L	100
67) bromobenzene	11.59	77	448811	40.79 ug/L	94
68) 1,1,2,2-tetrachloroethane	11.72	83	212022	38.80 ug/L #	99
69) 1,2,3-trichloropropane	11.73	110	65360	36.91 ug/L	91
70) 1,4-dichloro-2-butene	11.79	53	70864	41.27 ug/L #	65
71) n-propylbenzene	11.80	120	349131	41.21 ug/L	97
72) 2-chlorotoluene	11.86	126	294836	40.31 ug/L	94
73) 1,3,5-trimethylbenzene	12.04	105	1019023	40.96 ug/L	98
74) 4-chlorotoluene	12.00	91	983547	41.24 ug/L	98
75) tert-butylbenzene	12.42	119	873195	39.84 ug/L	96
76) 1,2,4-trimethylbenzene	12.48	105	1052968	41.40 ug/L	99
77) sec-butylbenzene	12.69	105	1305708	40.86 ug/L	99
78) 1,3-dichlorobenzene	12.78	146	637875	41.05 ug/L	99
79) 4-isopropyltoluene	12.89	119	1204323	40.63 ug/L	97
80) 1,4-dichlorobenzene	12.90	146	673898	41.27 ug/L	99
81) 1,2-dichlorobenzene	13.34	146	566027	40.19 ug/L	99
82) n-butylbenzene	13.39	91	1012993	42.44 ug/L	99
83) hexachloroethane	13.62	201	148350	34.65 ug/L #	89
84) 1,2-dibromo-3-chloropropan	14.33	157	42184	31.15 ug/L	96
85) 1,2,4-trichlorobenzene	15.32	180	284952	37.54 ug/L	99
86) hexachlorobutadiene	15.55	225	173371	39.05 ug/L	100
87) naphthalene	15.60	128	489144	34.67 ug/L	99
88) 1,2,3-trichlorobenzene	15.90	180	215902	35.25 ug/L	98
89) 2-methylnaphthalene	17.00	142	140295	26.32 ug/L	99

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

CONTINUING CALIBRATION CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM070512
Client: TechLaw
Project: KNM
Lab Sample ID: 2H20050-CCV1
Lab File ID: CCV0820.D
Injection Date: 08/20/12
Injection Time: 08:45
Calibration Date: 08/08/12 00:00
Calibration: 2H10001
Sequence: 2H20050
Instrument ID: 323

Analyte	Type	CONC. (ug/L)		Response Factor			% Diff. / Drift	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	40.0	28.5	0.1012047	5.753248E-02		-28.8	40
Benzene	A	40.0	42.5	0.9721246	1.032669		6.2	20
Bromodichloromethane	A	40.0	43.8	0.2891416	0.3169757		9.6	20
Bromoform	L	40.0	33.9	0.1732265	0.1799016	0.1	-15.3	20
Bromomethane	A	40.0	47.8	0.119029	0.1423767		19.6	20
Carbon Disulfide	A	40.0	48.3	0.6422607	0.7754572		20.7	20 *
Carbon Tetrachloride	A	40.0	45.4	0.3024788	0.3430633		13.4	20
Chlorobenzene	A	40.0	40.7	0.9346027	0.9517131	0.3	1.8	20
Chloroethane	A	40.0	47.7	0.1918082	0.2286848		19.2	20
Chloroform	A	40.0	42.1	0.4135064	0.4352808		5.3	20
Chloromethane	A	40.0	44.9	0.290101	0.3257231	0.1	12.3	20
Cyclohexane	A	40.0	44.4	0.4050034	0.4494187		11.0	20
1,2-Dibromo-3-chloropropane	L	40.0	30.2	0.1010115	0.0861814		-24.5	20 *
Dibromochloromethane	L	40.0	37.0	0.2543546	0.2724393		-7.4	20
1,2-Dibromoethane	A	40.0	37.2	0.2223969	0.2067018		-7.1	20
1,2-Dichlorobenzene	A	40.0	38.9	1.190001	1.157344		-2.7	20
1,3-Dichlorobenzene	A	40.0	39.8	1.312947	1.305311		-0.6	20
1,4-Dichlorobenzene	A	40.0	40.1	1.379698	1.38221		0.2	20
Dichlorodifluoromethane	A	40.0	41.6	0.2671608	0.2781009		4.1	20
1,1-Dichloroethane	A	40.0	42.5	0.4296545	0.4568798	0.1	6.3	20
1,2-Dichloroethane	A	40.0	39.4	0.3112539	0.3068877		-1.4	20
1,1-Dichloroethene	A	40.0	42.6	0.2611278	0.2781997		6.5	20
cis-1,2-Dichloroethene	A	40.0	42.5	0.2594951	0.2755406		6.2	20
trans-1,2-Dichloroethene	A	40.0	38.5	0.2749002	0.2645795		-3.8	20
1,2-Dichloropropane	A	40.0	41.9	0.2327913	0.2439768		4.8	20
cis-1,3-Dichloropropene	A	40.0	41.6	0.3319974	0.3454304		4.0	20
trans-1,3-Dichloropropene	L	40.0	34.3	0.3015585	0.2952146		-14.4	20
Ethylbenzene	A	40.0	42.5	1.56817	1.665455		6.2	20
2-Hexanone	L	40.0	28.1	0.1631664	0.1160808		-29.8	40

CONTINUING CALIBRATION CHECK
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Lab Sample ID: 2H20050-CCV1
Injection Date: 08/20/12
Calibration Date: 08/08/12 00:00
Sequence: 2H20050

SDG: KNM070512
Project: KNM
Lab File ID: CCV0820.D
Injection Time: 08:45
Calibration: 2H10001
Instrument ID: 323

Analyte	Type	CONC. (ug/L)		Response Factor			% Diff. / Drift	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Isopropylbenzene	A	40.0	40.9	2.278985	2.329622		2.2	20
Methyl Acetate	A	40.0	35.8	0.1544734	0.1380635		-10.6	20
Methyl tert-Butyl Ether	A	40.0	32.8	0.5994122	0.491527		-18.0	20
Methylcyclohexane	A	40.0	43.7	0.3990721	0.436225		9.3	20
Methylene Chloride	L	40.0	46.4	0.3980407	0.3888283		16.0	20
2-Butanone (MEK)	A	40.0	32.2	8.187393E-02	6.585884E-02		-19.6	40
4-Methyl-2-pentanone (MIBK)	A	40.0	29.4	0.1924444	0.1415902		-26.4	40
Styrene	A	40.0	41.5	1.096017	1.136795		3.7	20
1,1,2,2-Tetrachloroethane	A	40.0	36.9	0.4617158	0.4254228	0.3	-7.9	20
Tetrachloroethene	A	40.0	40.9	0.4079302	0.416662		2.1	20
Toluene	A	40.0	42.5	1.077647	1.144463		6.2	20
1,2,4-Trichlorobenzene	A	40.0	35.7	0.6413599	0.5729845		-10.7	20
1,1,1-Trichloroethane	A	40.0	42.2	0.3485363	0.367637		5.5	20
1,1,2-Trichloroethane	A	40.0	38.7	0.1526493	0.1478339		-3.2	20
Trichloroethene	A	40.0	40.8	0.2722294	0.2773378		1.9	20
Trichlorofluoromethane	A	40.0	46.5	0.4097478	0.4761373		16.2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	40.0	46.5	0.2339289	0.2718517		16.2	20
Vinyl Chloride	A	40.0	45.3	0.3290209	0.3729587		13.4	20
Xylene (Total)	A	120	126	0.6398416	0.6720696		5.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\08-20-12\
Data File : CCV0820.D
InstName : 323
Acq On : 20 Aug 2012 8:45
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 14:16:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
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 : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	86	0.00
2		dichlorodifluoromethane	0.267	0.278	-4.1	87	0.00
3	P	chloromethane	0.290	0.326	-12.4	99	-0.02
4	C	vinyl chloride	0.329	0.373	-13.4	97	0.00
5		bromomethane	0.119	0.142	-19.3	102	0.00
6		chloroethane	0.192	0.229	-19.3	103	0.00
7		dichlorofluoromethane	0.452	0.542	-19.9	105	0.00
8		trichlorofluoromethane	0.410	0.476	-16.1	99	0.00
9		ethyl ether	0.134	0.136	-1.5	87	0.00
10		acrolein	0.034	0.033	2.9	88	0.00
11		1,1,2-trichloro-1,2,2-trifl	0.234	0.272	-16.2	103	0.00
12	C	1,1-dichloroethene	0.261	0.278	-6.5	93	0.00
13		acetone	0.101	0.058	42.6#	66	0.00
14		iodomethane	0.237	0.266	-12.2	78	0.00
15		carbon disulfide	0.642	0.775	-20.7	105	0.00
16		methyl acetate	0.154	0.138	10.4	79	0.00
17		methylene chloride	0.398	0.389	2.3	102	0.00
18		acrylonitrile	0.080	0.071	11.3	76	-0.01
19		trans-1,2-dichloroethene	0.275	0.265	3.6	82	0.00
20		methyl (tert) butyl ether	0.599	0.492	17.9	69	-0.01
21	P	1,1-dichloroethane	0.430	0.457	-6.3	92	-0.01
22		vinyl acetate	0.414	0.423	-2.2	112	-0.01
23		2,2-dichloropropane	0.289	0.277	4.2	88	0.00
24		cis-1,2-dichloroethene	0.259	0.276	-6.6	91	0.00
25		2-butanone (MEK)	0.082	0.066	19.5	77	-0.01
26		bromochloromethane	0.202	0.212	-5.0	90	0.00
27		tetrahydrofuran	0.019	0.015	21.1	66	0.00
28	C	chloroform	0.414	0.435	-5.1	93	0.00
29		1,1,1-trichloroethane	0.349	0.368	-5.4	90	-0.01
30	S	#Dibromofluoromethane	0.242	0.245	-1.2	88	-0.01
31		cyclohexane	0.405	0.449	-10.9	96	-0.01
32		carbon tetrachloride	0.302	0.343	-13.6	94	-0.01
33		1,1-dichloropropene	0.335	0.361	-7.8	93	-0.01
34		benzene	0.972	1.033	-6.3	92	-0.01
35		1,2-dichloroethane	0.311	0.307	1.3	86	-0.01
36		heptane	0.000	0.000	0.0	95	-0.01
37	S	#1,2-Dichloroethane-d4	0.148	0.143	3.4	83	-0.02
38		trichloroethene	0.272	0.277	-1.8	86	0.00
39		methylcyclohexane	0.399	0.436	-9.3	93	0.00
40	C	1,2-dichloropropane	0.233	0.244	-4.7	91	-0.01
41		dibromomethane	0.125	0.124	0.8	84	-0.01
42		bromodichloromethane	0.289	0.317	-9.7	90	0.00
43		2-chloroehtyl vinyl ether	0.122	0.106	13.1	76	0.00
44		cis-1,3-dichloropropene	0.332	0.345	-3.9	87	0.00
45		4-methyl-2-pentanone (MIBK)	0.192	0.142	26.0#	72	0.00
46	s	#Toluene-d8	0.996	1.000	-0.4	87	0.00
47	C	toluene	1.078	1.144	-6.1	93	0.00
48		trans-1,3-dichloropropene	0.302	0.295	2.3	80	0.00
49		1,1,2-trichloroethane	0.153	0.148	3.3	85	0.00

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\08-20-12\
Data File : CCV0820.D
InstName : 323
Acq On : 20 Aug 2012 8:45
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 14:16:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
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 : 150%

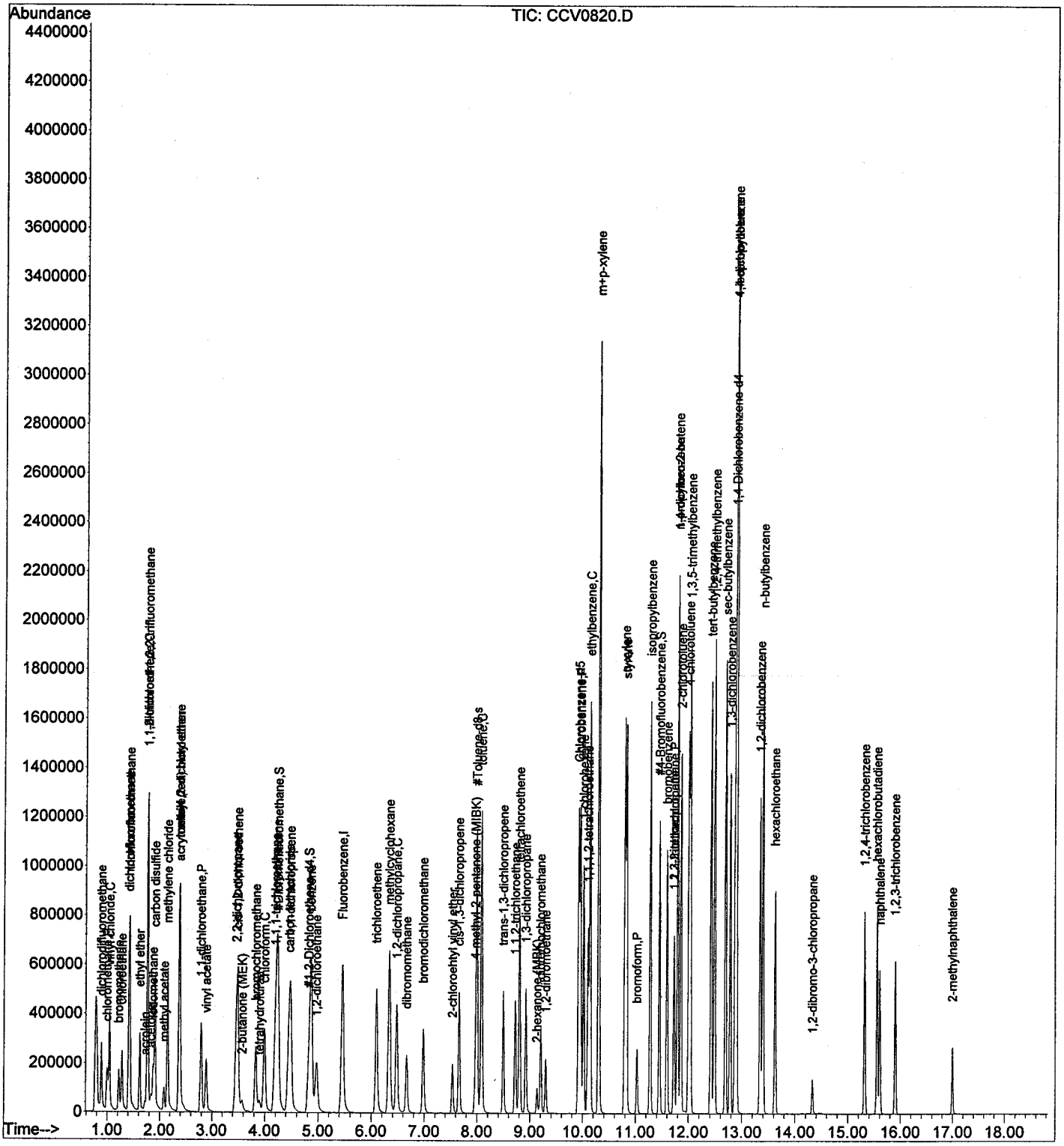
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50		Chlorobenzene-d5	1.000	1.000	0.0	88	0.00
51		tetrachloroethene	0.408	0.417	-2.2	91	0.00
52		1,3-dichloropropane	0.431	0.412	4.4	83	0.00
53		2-hexanone (MBK)	0.163	0.116	28.8#	69	0.00
54		dibromochloromethane	0.254	0.272	-7.1	88	0.00
55		1,2-dibromoethane	0.222	0.207	6.8	80	0.00
56	P	chlorobenzene	0.935	0.952	-1.8	91	0.00
57		1-chlorohexane	0.300	0.341	-13.7	99	-0.01
58		1,1,1,2-tetrachloroethane	0.291	0.311	-6.9	89	0.00
59	C	ethylbenzene	1.568	1.665	-6.2	94	-0.01
60		m+p-xylene	0.653	0.687	-5.2	93	-0.01
61		o-xylene	0.614	0.641	-4.4	92	0.00
62		styrene	1.096	1.137	-3.7	90	0.00
63	P	bromoform	0.173	0.180	-4.0	82	0.00
64	S	#4-Bromofluorobenzene	0.508	0.509	-0.2	87	0.00
65		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00
66		isopropylbenzene	2.279	2.330	-2.2	93	0.00
67		bromobenzene	0.930	0.936	-0.6	91	0.00
68	P	1,1,2,2-tetrachloroethane	0.462	0.425	8.0	85	0.00
69		1,2,3-trichloropropane	0.150	0.128	14.7	76	0.00
70		1,4-dichloro-2-butene	0.145	0.147	-1.4	86	0.00
71		n-propylbenzene	0.716	0.735	-2.7	94	-0.01
72		2-chlorotoluene	0.618	0.616	0.3	91	0.00
73		1,3,5-trimethylbenzene	2.102	2.152	-2.4	93	0.00
74		4-chlorotoluene	2.015	2.076	-3.0	93	-0.01
75		tert-butylbenzene	1.852	1.856	-0.2	91	0.00
76		1,2,4-trimethylbenzene	2.149	2.207	-2.7	93	0.00
77		sec-butylbenzene	2.700	2.771	-2.6	93	-0.01
78		1,3-dichlorobenzene	1.313	1.305	0.6	90	0.00
79		4-isopropyltoluene	2.505	2.567	-2.5	94	0.00
80		1,4-dichlorobenzene	1.380	1.382	-0.1	92	0.00
81		1,2-dichlorobenzene	1.190	1.157	2.8	88	0.00
82		n-butylbenzene	2.017	2.129	-5.6	95	0.00
83		hexachloroethane	0.281	0.332	-18.1	94	0.00
84		1,2-dibromo-3-chloropropane	0.101	0.086	14.9	70	0.00
85		1,2,4-trichlorobenzene	0.641	0.573	10.6	83	0.00
86		hexachlorobutadiene	0.375	0.367	2.1	89	0.00
87		naphthalene	1.192	0.953	20.1	71	0.00
88		1,2,3-trichlorobenzene	0.518	0.431	16.8	77	0.00
89		2-methylnaphthalene	0.417	0.278	33.3#	56	0.00

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

Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-20-12\
Data File : CCV0820.D
InstName : 323
Acq On : 20 Aug 2012 8:45
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 14:16:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration



01207

Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-20-12\
Data File : CCV0820.D
InstName : 323
Acq On : 20 Aug 2012 8:45
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 14:16:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	900274	40.00 ug/L	0.00 86.04%
50) Chlorobenzene-d5	9.92	117	730405	40.00 ug/L	0.00 87.54%
65) 1,4-Dichlorobenzene-d4	12.87	152	491591	40.00 ug/L	0.00 88.68%
System Monitoring Compounds					
30) #Dibromofluoromethane	4.25	111	220955	40.55 ug/L	-0.01
Spiked Amount 40.000			Recovery	= 101.38%	
37) #1,2-Dichloroethane-d4	4.82	67	128410	38.49 ug/L	-0.02
Spiked Amount 40.000			Recovery	= 96.23%	
46) #Toluene-d8	7.99	98	900165	40.16 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.40%	
64) #4-Bromofluorobenzene	11.45	95	371734	40.05 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.13%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.88	85	250367	41.64 ug/L	99
3) chloromethane	1.00	50	293240	44.91 ug/L	99
4) vinyl chloride	1.04	62	335765	45.34 ug/L	100
5) bromomethane	1.22	94	128178	47.85 ug/L	100
6) chloroethane	1.28	64	205879	47.69 ug/L	98
7) dichlorofluoromethane	1.41	67	487912	47.92 ug/L	100
8) trichlorofluoromethane	1.43	101	428654	46.48 ug/L	99
9) ethyl ether	1.62	74	122487	40.65 ug/L	91
10) acrolein	1.72	56	29861	39.47 ug/L #	96
11) 1,1,2-trichloro-1,2,2-trif	1.77	101	244741	46.48 ug/L	98
12) 1,1-dichloroethene	1.77	96	250456	42.62 ug/L	88
13) acetone	1.84	43	51795	28.47 ug/L	97
14) iodomethane	1.87	142	239465	32.43 ug/L	97
15) carbon disulfide	1.91	76	698124	48.30 ug/L	100
16) methyl acetate	2.08	43	124295	35.75 ug/L	98
17) methylene chloride	2.15	49	350052	46.39 ug/L	95
18) acrylonitrile	2.39	53	64152	35.50 ug/L	96
19) trans-1,2-dichloroethene	2.37	96	238194	38.50 ug/L	94
20) methyl (tert) butyl ether	2.38	73	442509	32.80 ug/L	100
21) 1,1-dichloroethane	2.79	63	411317	42.53 ug/L	100
22) vinyl acetate	2.89	43	380888	40.90 ug/L	98
23) 2,2-dichloropropane	3.46	77	249456	38.36 ug/L	99
24) cis-1,2-dichloroethene	3.49	96	248062	42.47 ug/L	97
25) 2-butanone (MEK)	3.58	43	59291	32.18 ug/L	92
26) bromochloromethane	3.83	49	190630	41.89 ug/L	95
27) tetrahydrofuran	3.90	71	13375	30.65 ug/L	83
28) chloroform	3.99	83	391872	42.11 ug/L	99
29) 1,1,1-trichloroethane	4.19	97	330974	42.19 ug/L	97
31) cyclohexane	4.23	56	404600	44.39 ug/L	97
32) carbon tetrachloride	4.45	117	308851	45.37 ug/L	100
33) 1,1-dichloropropene	4.48	75	324633	43.05 ug/L	99
34) benzene	4.86	78	929685	42.49 ug/L	88
35) 1,2-dichloroethane	4.97	62	276283	39.44 ug/L	99
36) heptane	4.23	57	18054	No Calib #	

Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-20-12\
Data File : CCV0820.D
InstName : 323
Acq On : 20 Aug 2012 8:45
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 14:16:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

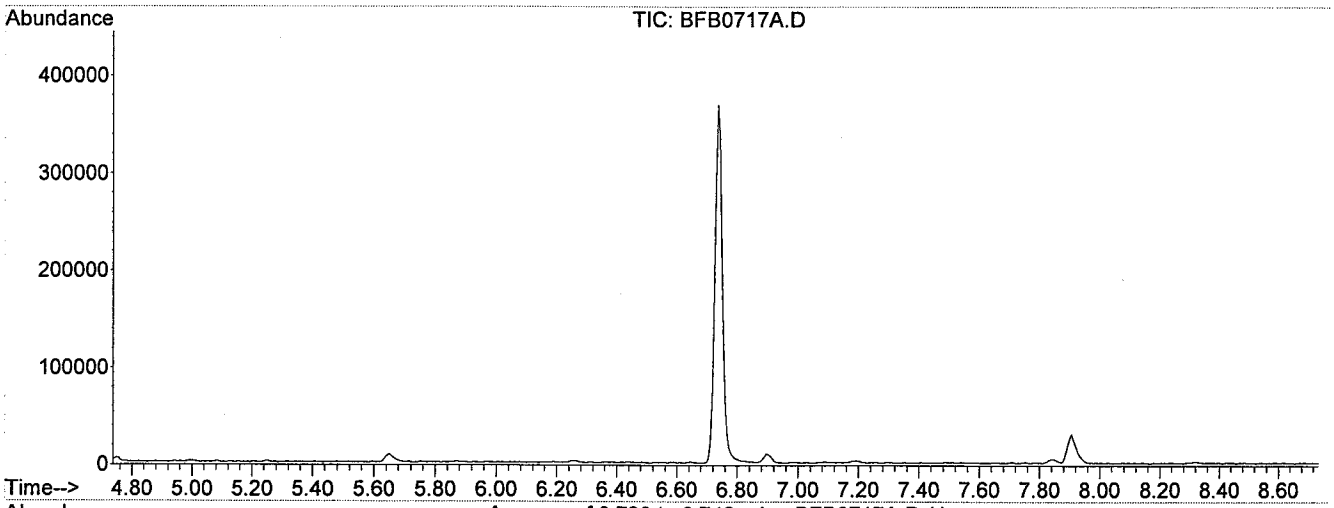
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
38) trichloroethene	6.10	130	249680	40.75	ug/L		98
39) methylcyclohexane	6.34	83	392722	43.72	ug/L		98
40) 1,2-dichloropropane	6.47	63	219646	41.92	ug/L		100
41) dibromomethane	6.66	93	111359	39.46	ug/L		96
42) bromodichloromethane	6.98	83	285365	43.85	ug/L		100
43) 2-chloroehtyl vinyl ether	7.54	63	95492	34.73	ug/L		99
44) cis-1,3-dichloropropene	7.66	75	310982	41.62	ug/L		95
45) 4-methyl-2-pentanone (MIBK	7.96	43	127470	29.43	ug/L	#	96
47) toluene	8.08	91	1030330	42.48	ug/L		100
48) trans-1,3-dichloropropene	8.49	75	265774	34.26	ug/L		94
49) 1,1,2-trichloroethane	8.72	83	133091	38.74	ug/L		99
51) tetrachloroethene	8.81	166	304332	40.86	ug/L		98
52) 1,3-dichloropropane	8.92	76	300905	38.25	ug/L		100
53) 2-hexanone (MBK)	9.13	43	84786	28.10	ug/L		95
54) dibromochloromethane	9.20	129	198991	37.03	ug/L		100
55) 1,2-dibromoethane	9.30	109	150976	37.18	ug/L		99
56) chlorobenzene	9.96	112	695136	40.73	ug/L		95
57) 1-chlorohexane	10.02	55	249139	45.53	ug/L		87
58) 1,1,1,2-tetrachloroethane	10.10	131	226979	37.61	ug/L		99
59) ethylbenzene	10.14	91	1216457	42.48	ug/L		100
60) m+p-xylene	10.30	106	1004164	84.24	ug/L		93
61) o-xylene	10.79	106	468485	41.79	ug/L		98
62) styrene	10.83	104	830321	41.49	ug/L		94
63) bromoform	11.03	173	131401	33.87	ug/L		100
66) isopropylbenzene	11.28	105	1145221	40.89	ug/L		100
67) bromobenzene	11.59	77	460054	40.26	ug/L		93
68) 1,1,2,2-tetrachloroethane	11.72	83	209134	36.86	ug/L	#	99
69) 1,2,3-trichloropropane	11.73	110	63055	34.29	ug/L		93
70) 1,4-dichloro-2-butene	11.79	53	72269	40.53	ug/L	#	70
71) n-propylbenzene	11.80	120	361415	41.08	ug/L		96
72) 2-chlorotoluene	11.86	126	302793	39.86	ug/L		92
73) 1,3,5-trimethylbenzene	12.04	105	1057958	40.95	ug/L		99
74) 4-chlorotoluene	12.00	91	1020486	41.20	ug/L		97
75) tert-butylbenzene	12.42	119	912488	40.09	ug/L		96
76) 1,2,4-trimethylbenzene	12.48	105	1084900	41.07	ug/L		98
77) sec-butylbenzene	12.69	105	1362187	41.05	ug/L		99
78) 1,3-dichlorobenzene	12.78	146	641679	39.77	ug/L		98
79) 4-isopropyltoluene	12.89	119	1261997	40.99	ug/L		97
80) 1,4-dichlorobenzene	12.90	146	679482	40.07	ug/L		99
81) 1,2-dichlorobenzene	13.34	146	568940	38.90	ug/L		99
82) n-butylbenzene	13.39	91	1046824	42.23	ug/L		99
83) hexachloroethane	13.62	201	163032	36.36	ug/L	#	92
84) 1,2-dibromo-3-chloropropan	14.33	157	42366	30.21	ug/L		97
85) 1,2,4-trichlorobenzene	15.32	180	281674	35.74	ug/L		99
86) hexachlorobutadiene	15.55	225	180597	39.16	ug/L		100
87) naphthalene	15.60	128	468426	31.97	ug/L		99
88) 1,2,3-trichlorobenzene	15.90	180	211703	33.28	ug/L		99
89) 2-methylnaphthalene	17.00	142	136847	24.83	ug/L		99

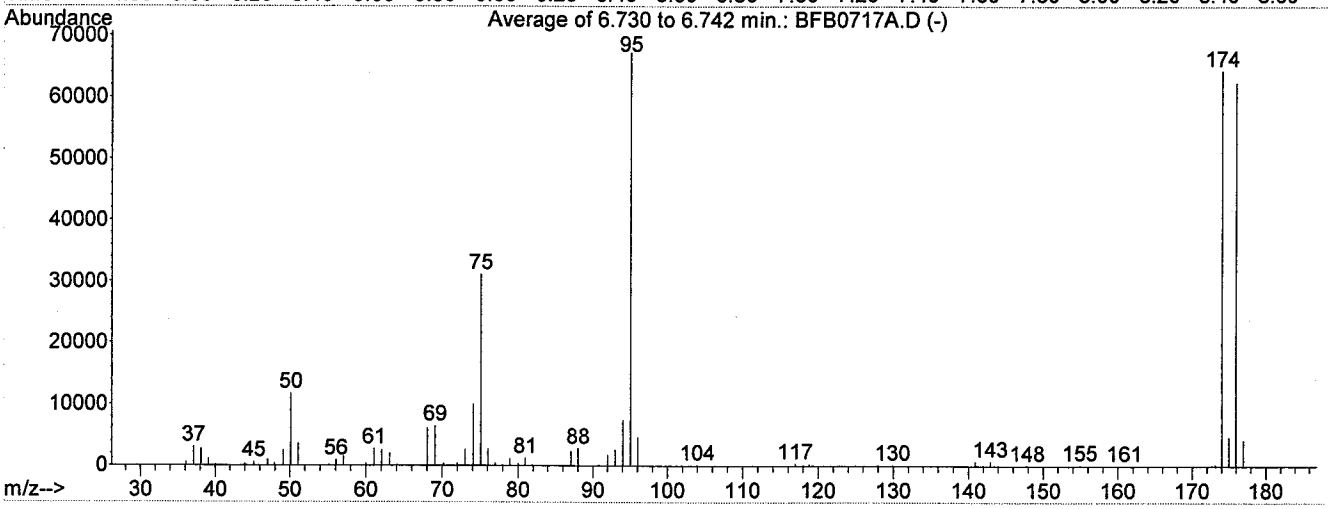
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDChem\1\DATA\07-17-12\
Data File : BFB0717A.D
Acq On : 17 Jul 2012 14:46
Operator : DLV
Sample : TUN
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260B-B32.M
Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
Last Update : Thu Jul 12 12:43:18 2012





Spectrum Information: Average of 6.730 to 6.742 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.5	11739	PASS
75	95	30	60	46.3	31144	PASS
95	95	100	100	100.0	67242	PASS
96	95	5	9	6.9	4647	PASS
173	174	0.00	2	0.4	235	PASS
174	95	50	100	95.7	64352	PASS
175	174	5	9	7.3	4703	PASS
176	174	95	101	97.0	62402	PASS
177	176	5	9	6.8	4240	PASS

Average of 6.730 to 6.742 min.: BFB0717A.D
TUN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	629	51.10	3671	68.05	6207	78.95	1150
37.10	3089	55.10	97	69.05	6511	80.05	346
38.10	2740	56.05	907	70.00	152	80.95	1263
39.10	1154	57.05	1583	70.20	353	81.90	186
40.00	190	60.00	409	72.00	406	87.05	2343
44.00	282	60.20	140	73.05	2661	88.00	2803
45.20	588	61.05	2759	74.10	10011	90.80	81
47.05	956	62.05	2596	75.10	31144	92.00	1780
47.95	406	63.10	2022	76.05	2730	93.00	2627
49.10	2544	64.10	180	77.00	459	94.05	7484
50.10	11739	64.90	67	78.00	78	95.05	67242

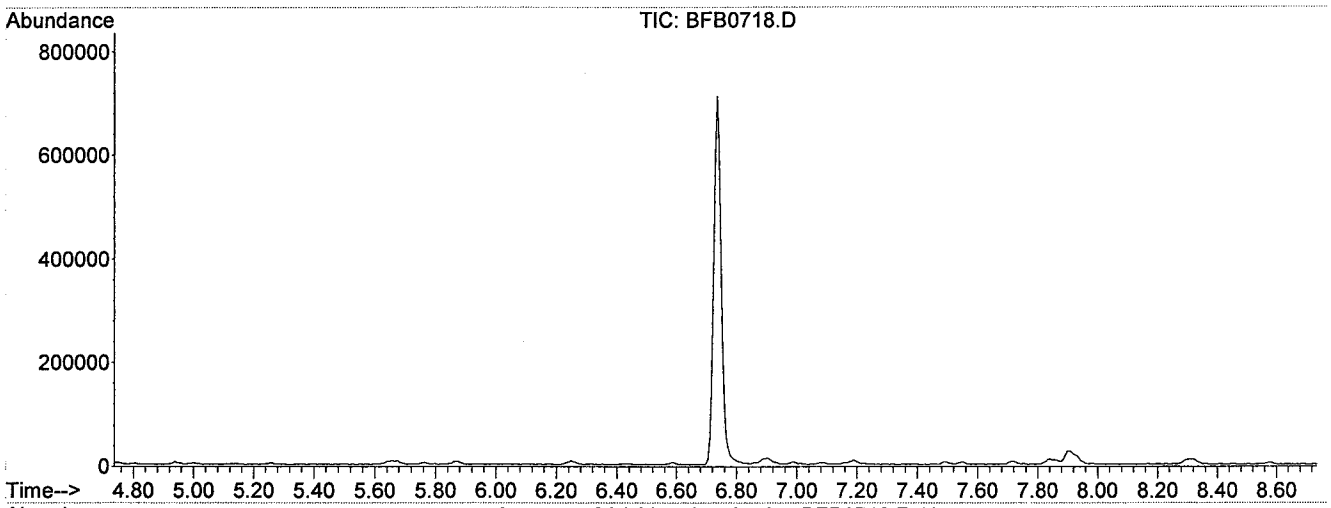
Average of 6.730 to 6.742 min.: BFB0717A.D
TUN
Modified:subtracted

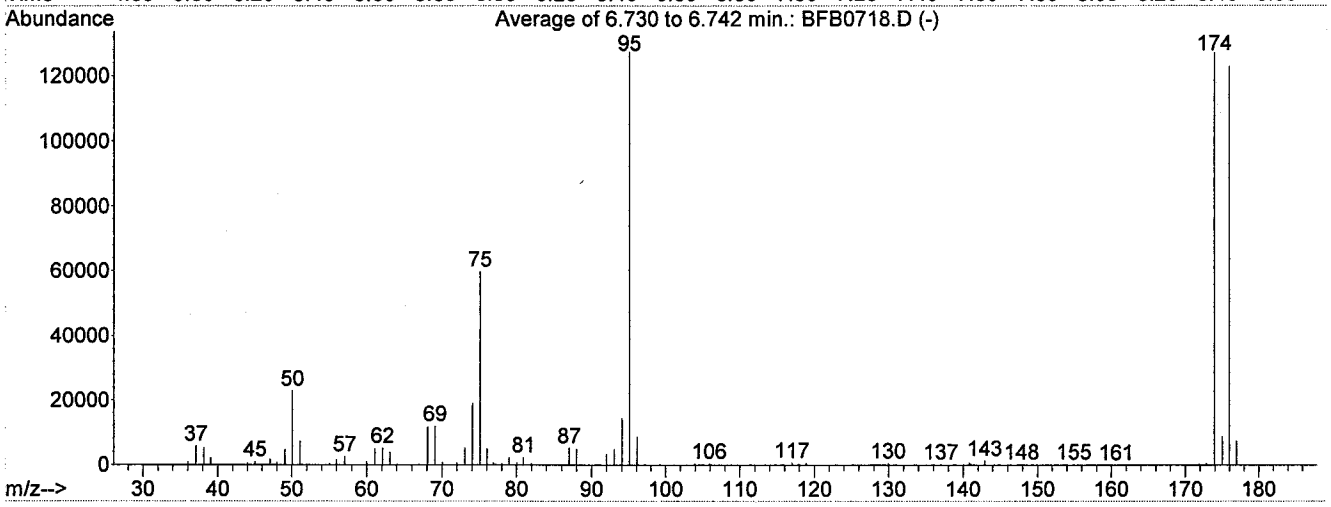
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.05	4647	142.95	764	176.95	4240		
97.10	75	147.90	80				
104.00	177	154.95	172				
116.95	410	156.80	83				
118.00	99	160.90	68				
118.80	274	171.80	66				
119.20	97	172.70	114				
127.80	95	173.10	235				
128.10	88	174.00	64352				
129.90	180	175.00	4703				
140.90	742	175.95	62402				

Data Path : C:\MSDChem\1\DATA\07-18-12\
Data File : BFB0718.D
Acq On : 18 Jul 2012 8:12
Operator : DLV
Sample : TUN
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
Last Update : Wed Jul 18 07:30:29 2012





AutoFind: Scans 968, 969, 970; Background Corrected with Scan 960

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.0	22912	PASS
75	95	30	60	46.9	59792	PASS
95	95	100	100	100.0	127432	PASS
96	95	5	9	6.8	8697	PASS
173	174	0.00	2	0.5	600	PASS
174	95	50	100	99.8	127168	PASS
175	174	5	9	7.0	8877	PASS
176	174	95	101	96.7	122954	PASS
177	176	5	9	6.1	7471	PASS

KEN 7-19-12

01212

Average of 6.730 to 6.742 min.: BFB0718.D
TUN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	1025	52.00	210	64.95	184	77.20	162
37.10	5809	52.30	185	66.95	303	78.05	479
38.15	5349	55.05	340	68.05	11776	79.00	2260
39.05	2152	56.00	1596	69.05	12070	80.05	735
44.00	614	57.05	2646	70.05	782	80.95	2355
45.05	1004	60.00	1013	72.00	615	81.95	422
47.10	1744	61.05	4928	73.05	5292	85.80	84
48.00	817	62.10	5206	74.05	19034	87.00	5221
49.10	4798	63.10	3965	75.10	59792	88.00	4957
50.10	22912	64.05	261	76.05	4958	90.90	147
51.10	7298	64.30	90	76.95	642	91.15	283

Average of 6.730 to 6.742 min.: BFB0718.D
TUN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.00	3446	115.85	279	129.95	532	154.95	266
93.05	4832	116.10	81	134.90	90	156.90	233
94.05	14468	117.00	704	137.00	202	158.70	66
95.05	127432	117.80	140	140.80	745	159.10	82
96.10	8697	117.95	313	141.00	374	160.70	103
97.15	259	118.90	541	141.80	83	171.85	310
103.95	443	127.70	129	142.90	1368	172.85	600
105.05	189	128.00	257	144.85	182	173.95	127168
105.90	489	128.20	121	147.00	68	175.00	8877
113.10	71	128.75	190	147.85	282	175.95	122954
115.20	74	129.00	70	149.90	99	176.95	7471

Average of 6.730 to 6.742 min.: BFB0718.D
TUN
Modified:subtracted

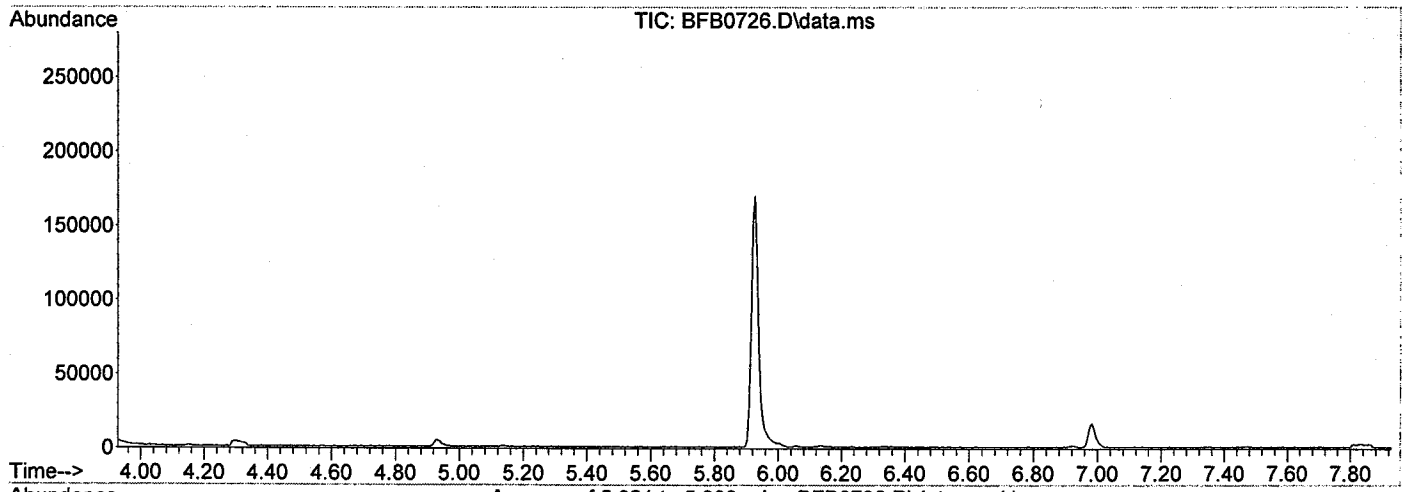
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.90	87						

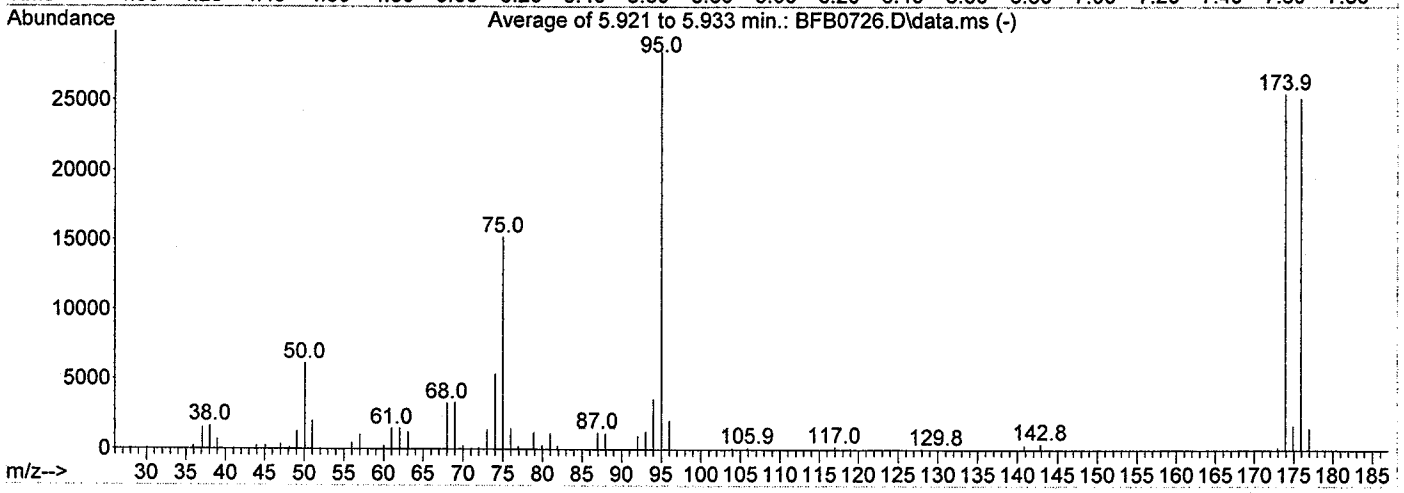
BFB

Data Path : C:\msdchem\1\DATA\07-26-12\
Data File : BFB0726.D
Acq On : 26 Jul 2012 8:32
Operator : LEW
Sample : BFB
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
Last Update : Tue Jul 24 07:58:48 2012





AutoFind: Scans 875, 876, 877; Background Corrected with Scan 869

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.6	6139	PASS
75	95	30	60	53.5	15237	PASS
95	95	100	100	100.0	28477	PASS
96	95	5	9	7.2	2045	PASS
173	174	0.00	2	0.9	241	PASS
174	95	50	100	89.6	25509	PASS
175	174	5	9	6.8	1744	PASS
176	174	95	101	98.7	25165	PASS
177	176	5	9	6.2	1549	PASS

DJ 7/30/12

Average of 5.921 to 5.933 min.: BFB0726.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	245	51.00	2048	70.00	261	81.90	259
37.10	1560	56.00	479	72.00	135	86.95	1195
38.05	1653	57.00	1049	73.00	1397	87.95	1102
39.00	696	60.00	275	74.00	5380	92.00	940
39.95	13	61.00	1457	75.00	15237	93.00	1304
43.95	253	62.00	1548	76.00	1414	94.00	3586
45.05	285	63.05	1223	76.95	200	95.00	28477
47.00	372	63.90	57	78.00	58	96.00	2045
48.10	134	64.10	66	78.90	1201	103.90	110
49.05	1282	68.00	3289	79.95	299	105.90	141
50.05	6139	69.00	3330	80.95	1131	116.95	199

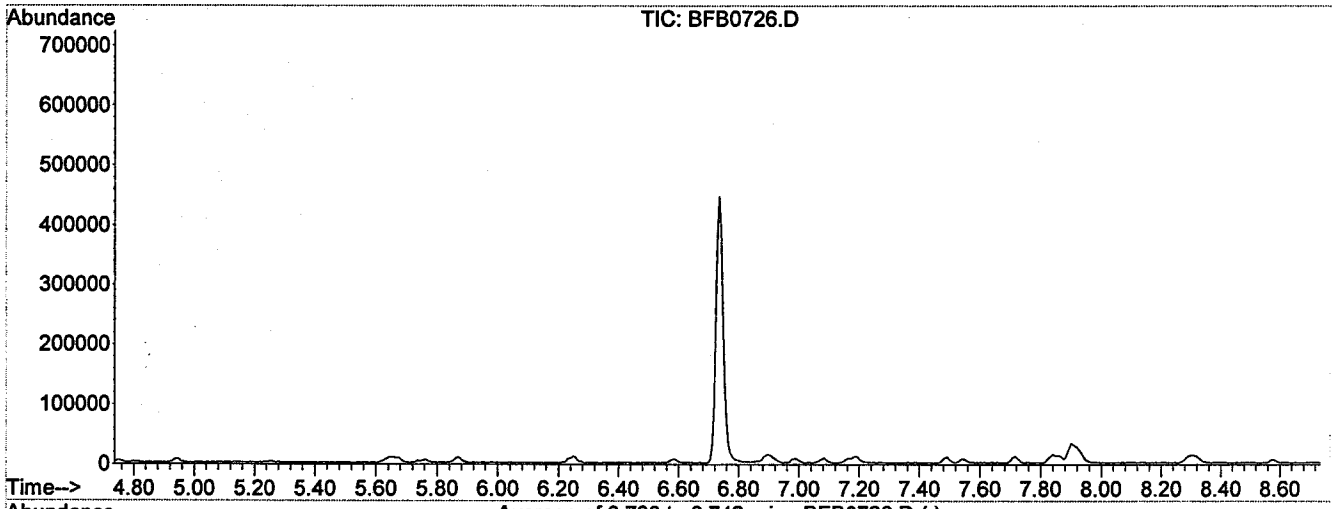
Average of 5.921 to 5.933 min.: BFB0726.D\data.ms
BFB
Modified:subtracted

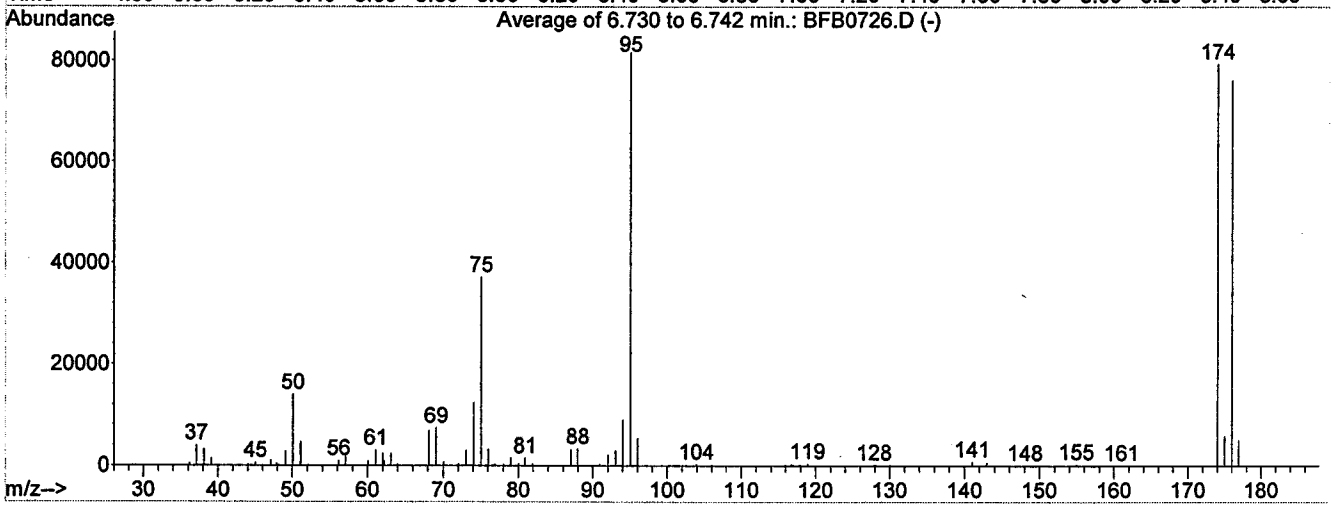
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
118.95	111						
128.00	57						
129.80	59						
140.85	354						
142.85	438						
171.90	50						
172.95	241						
173.90	25509						
174.90	1744						
175.90	25165						
176.95	1549						

Data Path : C:\MSDChem\1\DATA\07-26-12\
Data File : BFB0726.D
Acq On : 26 Jul 2012 9:05
Operator : DLV
Sample : TUN
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
Last Update : Fri Jul 27 07:43:12 2012





AutoFind: Scans 968, 969, 970; Background Corrected with Scan 960

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.2	14008	PASS
75	95	30	60	45.7	37258	PASS
95	95	100	100	100.0	81592	PASS
96	95	5	9	6.5	5282	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	97.3	79402	PASS
175	174	5	9	7.4	5840	PASS
176	174	95	101	95.9	76141	PASS
177	176	5	9	6.5	4946	PASS

Average of 6.730 to 6.742 min.: BFB0726.D
TUN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	22	49.10	2783	64.00	274	76.95	386
36.20	493	50.10	14008	67.00	69	78.00	270
37.10	3965	51.10	4669	68.10	6809	78.95	1558
38.10	3218	52.10	173	69.05	7379	80.05	472
39.10	1423	56.15	1003	70.05	729	80.90	1443
40.05	52	57.05	1725	71.90	146	81.95	330
44.00	274	60.05	852	72.05	356	86.20	80
45.00	584	61.05	3032	73.05	3003	87.05	3119
47.10	1071	62.00	2427	74.10	12399	87.95	3277
47.90	492	62.20	909	75.10	37258	90.90	282
48.20	128	63.10	2338	76.05	3156	92.00	2156

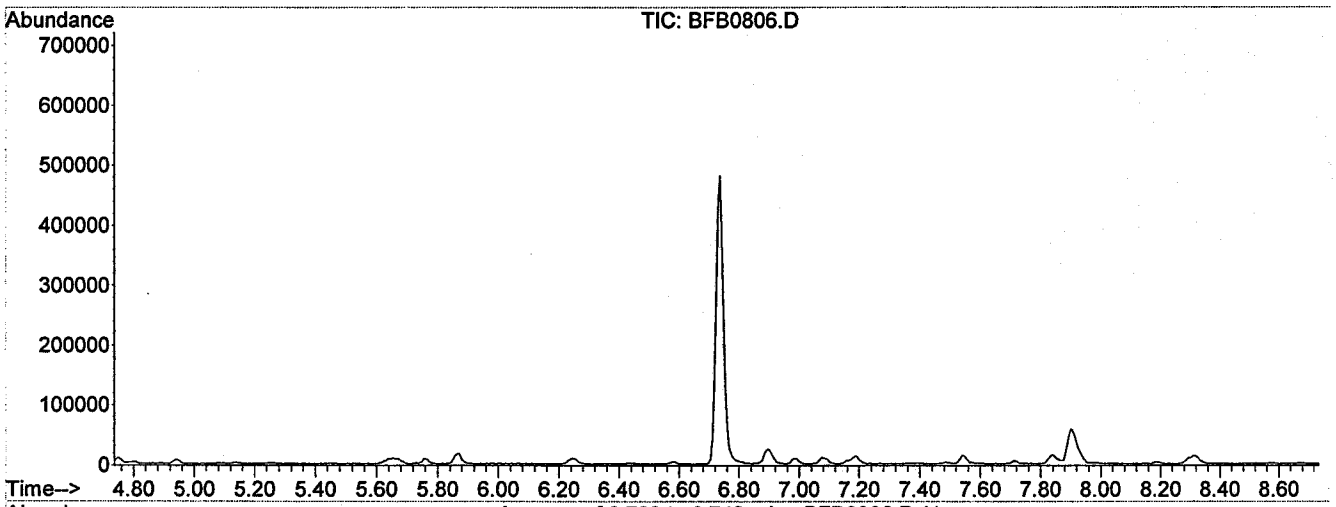
Average of 6.730 to 6.742 min.: BFB0726.D
TUN
Modified:subtracted

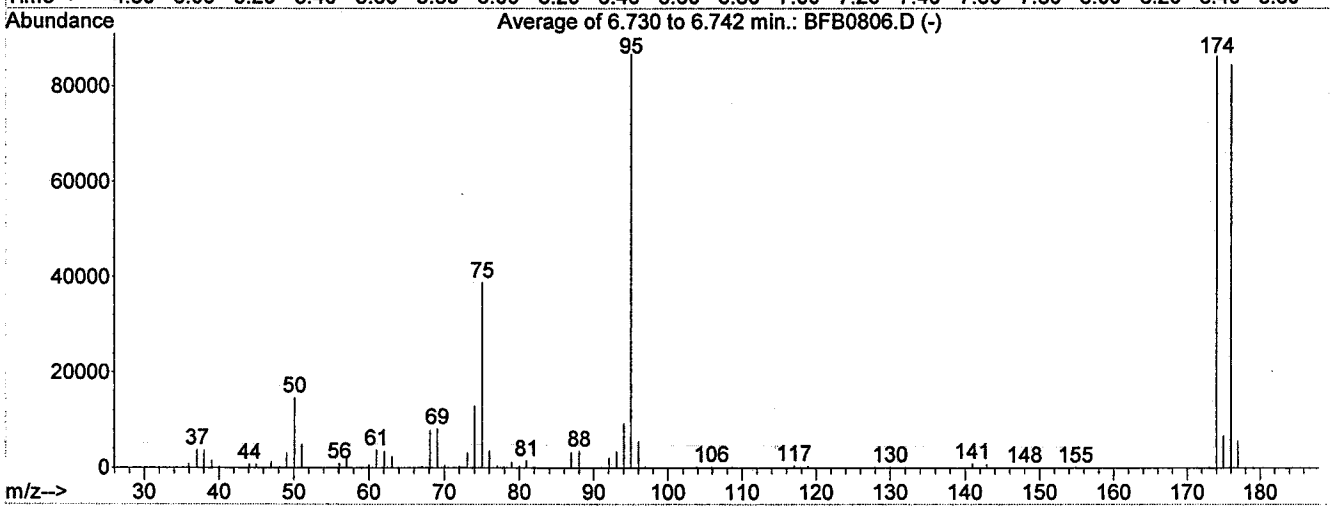
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.05	2912	117.95	175	146.70	67	176.95	4946
94.05	8990	118.90	394	147.90	76	177.90	84
95.05	81592	127.90	173	148.10	122		
96.05	5282	128.10	70	150.10	75		
97.10	100	129.80	67	154.95	275		
103.95	292	130.00	107	157.20	71		
106.00	87	137.00	74	161.00	76		
116.00	138	141.05	791	171.95	158		
116.75	301	142.80	192	174.00	79402		
117.00	178	143.00	599	175.00	5840		
117.80	84	145.90	68	176.00	76141		

Data Path : C:\MSDChem\1\DATA\08-06-12\
Data File : BFB0806.D
Acq On : 6 Aug 2012 8:04
Operator : DLV
Sample : TUN
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
Last Update : Wed Aug 01 12:18:26 2012





AutoFind: Scans 968, 969, 970; Background Corrected with Scan 960

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	14689	PASS
75	95	30	60	44.8	38869	PASS
95	95	100	100	100.0	86776	PASS
96	95	5	9	6.4	5522	PASS
173	174	0.00	2	0.2	159	PASS
174	95	50	100	99.6	86421	PASS
175	174	5	9	7.7	6676	PASS
176	174	95	101	97.8	84557	PASS
177	176	5	9	6.7	5680	PASS

LEJV
8-7-12

01218

Average of 6.730 to 6.742 min.: BFB0806.D
TUN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	847	50.10	14689	63.05	2445	77.05	420
37.10	3800	51.10	4834	63.95	192	77.95	262
38.05	3610	52.00	118	67.05	281	78.95	1214
39.05	1521	52.20	83	68.10	7868	80.00	478
40.00	270	55.00	117	69.05	8140	80.95	1535
44.10	792	55.20	79	70.05	528	82.00	233
45.05	741	56.10	1007	72.00	368	82.20	112
47.05	1340	57.05	1971	73.05	3161	83.10	75
47.90	131	60.00	661	74.05	12963	86.95	3261
48.15	333	61.00	3701	75.05	38869	88.00	3489
49.05	3124	62.05	3415	76.05	3550	90.80	73

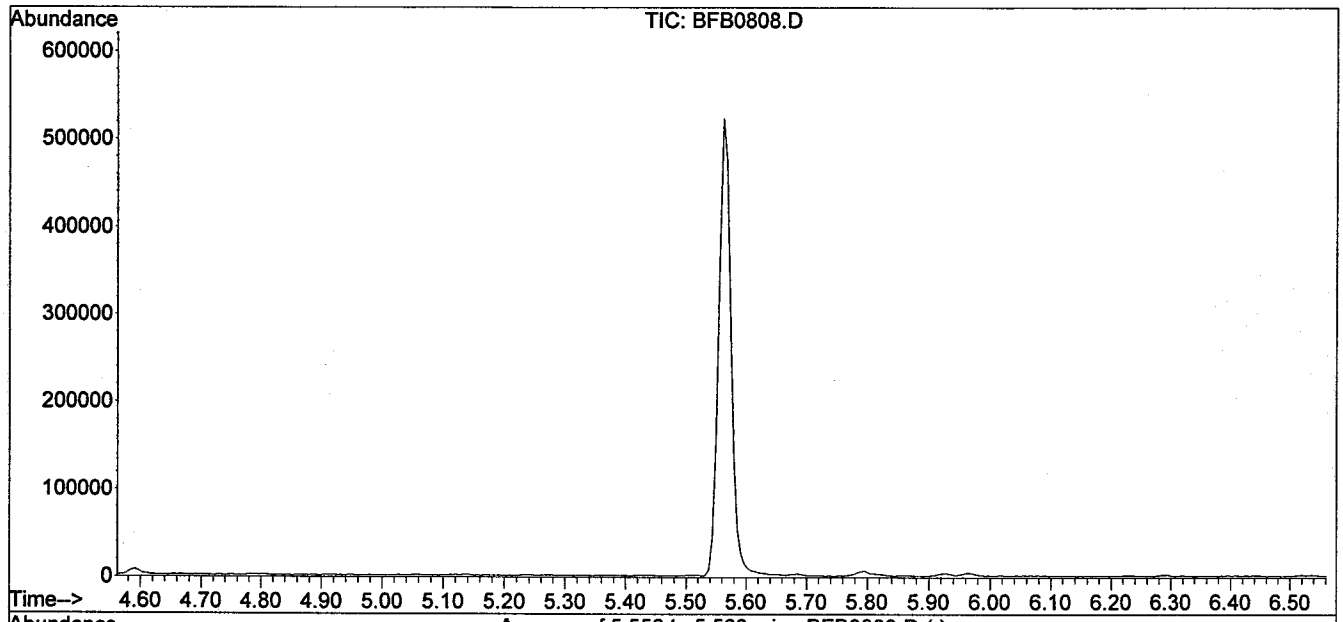
Average of 6.730 to 6.742 min.: BFB0806.D
TUN
Modified:subtracted

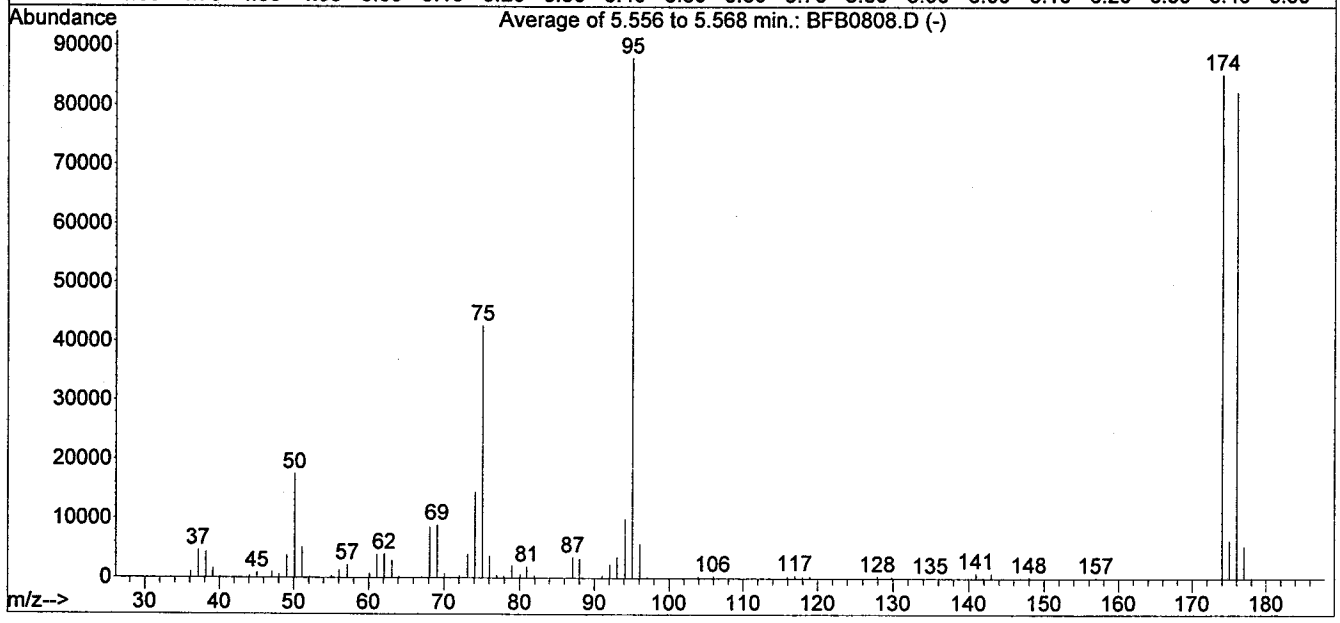
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.05	206	117.00	480	140.95	936	174.95	6676
92.05	2081	117.85	199	141.95	159	176.00	84557
93.05	3409	118.10	90	142.90	741	176.95	5680
94.05	9316	118.85	345	146.00	91	177.80	93
95.00	86776	127.70	92	147.80	80	178.00	72
96.05	5522	127.95	178	148.00	170		
96.95	296	128.90	84	154.90	186		
103.85	240	129.70	95	156.80	66		
105.00	72	130.00	216	157.10	84		
105.90	298	130.90	67	173.00	159		
115.85	192	136.90	66	174.00	86421		

BFB Tune Evaluation

Data File : C:\MSDChem\1\DATA\08-08-12\BFB0808.D Vial: 1
Acq On : 8 Aug 2012 13:09 Operator: DLV
Sample : Inst : 323
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260B-A167.M (RTE Integrator)
Title : VOLATILE GC/MS BY EPA 8260B/624/524.2





Peak Apex is scan: 848 (5.56 min)
Average of 3 scans: 847,848,849 minus background scan 828 (5.44 min)

Target Mass	Rel. to Mass	Lower Limit,%	Upper Limit,%	Rel. Abn,%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	17579	PASS
75	95	30	60	48.5	42637	PASS
95	95	100	100	100.0	87989	PASS
96	95	5	9	6.5	5756	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	96.9	85266	PASS
175	174	5	9	7.5	6363	PASS
176	174	95	101	96.6	82338	PASS
177	176	5	9	6.7	5499	PASS

Average of 5.556 to 5.568 min.: BFB0808.D

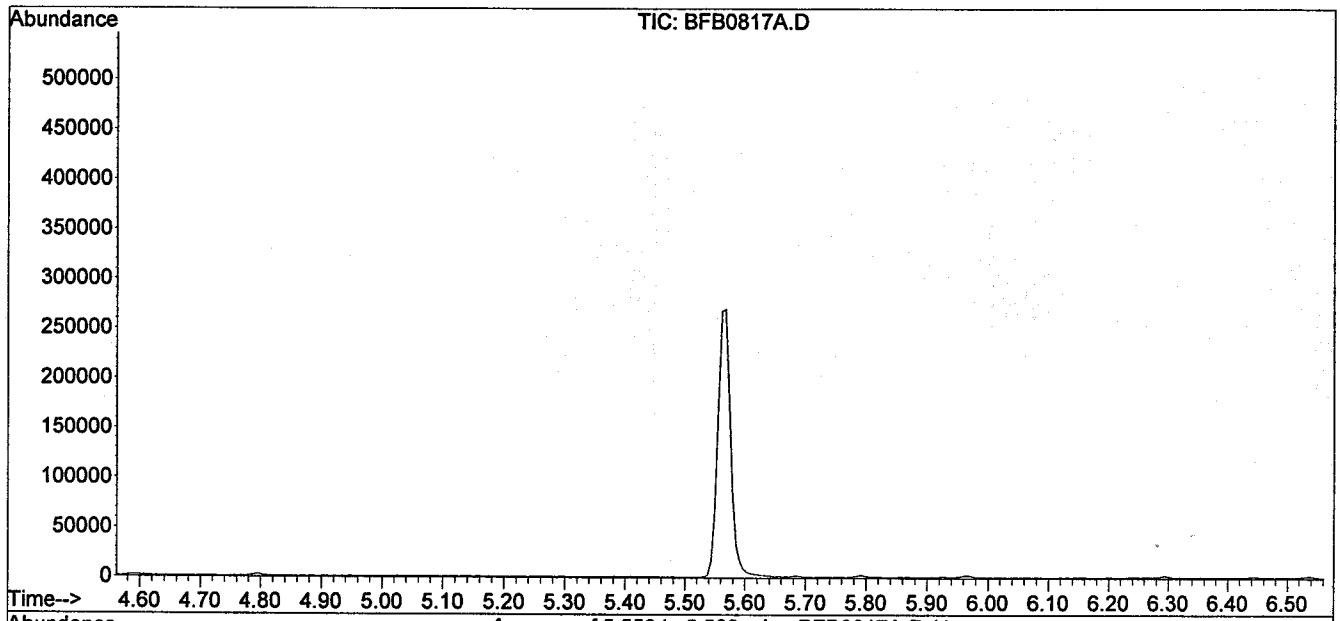
Modified:subtracted

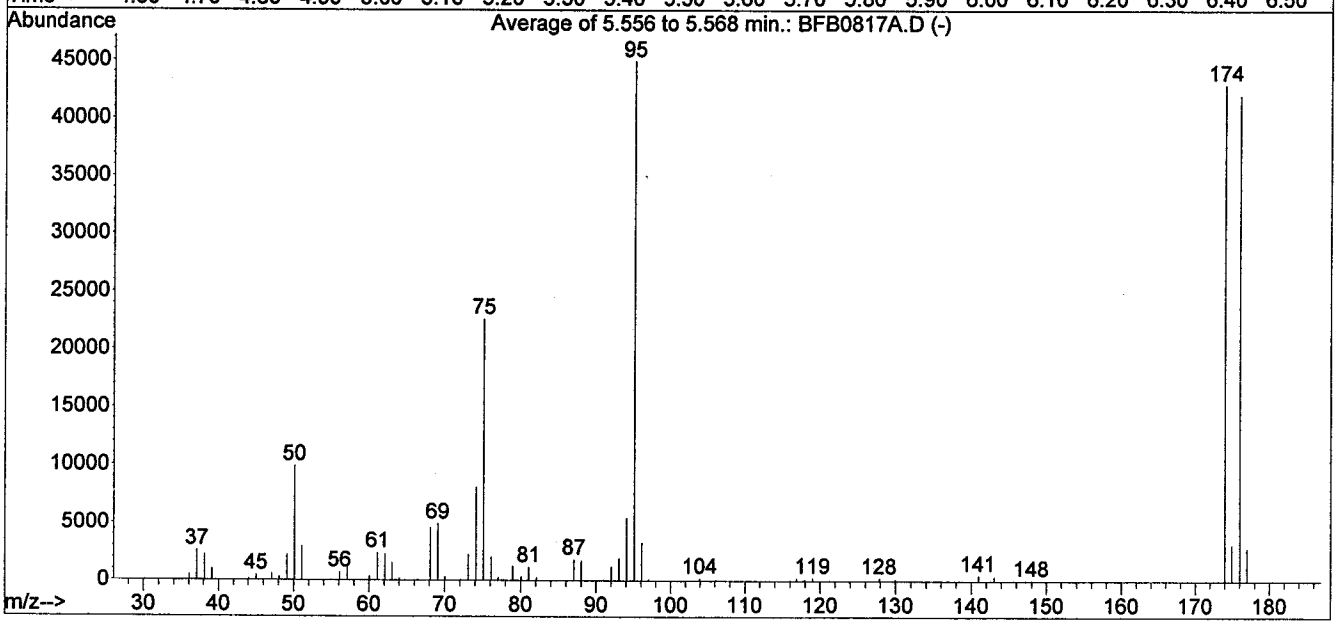
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	997	57.15	2225	75.10	42637	95.10	87989
37.10	4641	60.10	798	76.05	3743	96.10	5756
38.15	4285	61.10	3949	77.00	501	116.95	503
39.10	1648	62.10	3989	78.95	2142	140.95	898
45.10	909	63.10	2995	80.05	642	142.95	888
47.10	1054	68.10	8515	80.95	1936	174.00	85266
48.05	580	69.10	8926	87.10	3512	175.00	6363
49.10	3792	70.05	796	88.00	3248	176.00	82338
50.10	17579	72.05	441	92.05	2292	177.00	5499
51.10	5111	73.10	3938	93.05	3638		
56.05	1320	74.10	14489	94.10	9966		

BFB Tune Evaluation

Data File : C:\MSDCHEM\1\DATA\08-17-12\BFB0817A.D Vial: 1
Acq On : 17 Aug 2012 12:13 Operator: DLV
Sample : TUN Inst : 323
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260B-A168.M (RTE Integrator)
Title : VOLATILE GC/MS BY EPA 8260B/624/524.2





Peak Apex is scan: 848 (5.56 min)
Average of 3 scans: 847,848,849 minus background scan 828 (5.44 min)

Target Mass	Rel. to Mass	Lower Limit,%	Upper Limit,%	Rel. Abn,%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	9907	PASS
75	95	30	60	50.3	22626	PASS
95	95	100	100	100.0	44954	PASS
96	95	5	9	7.3	3286	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	95.5	42949	PASS
175	174	5	9	7.3	3151	PASS
176	174	95	101	97.9	42050	PASS
177	176	5	9	6.8	2862	PASS

BFB0817A.D 8260B-A168.M Mon Aug 20 13:13:44 2012

8-20-12

Average of 5.556 to 5.568 min.: BFB0817A.D
TUN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	531	57.10	1422	76.10	2060	95.10	44954
37.10	2573	60.05	362	77.05	263	96.10	3286
38.10	2184	61.10	2411	78.95	1252	103.95	233
39.10	988	62.10	2296	80.05	343	116.85	240
45.05	467	63.05	1507	81.05	1162	119.00	281
47.10	584	68.10	4558	82.05	278	127.85	242
48.10	308	69.10	4935	87.05	1840	140.95	503
49.10	2216	70.05	346	88.00	1738	143.05	401
50.10	9907	73.10	2289	92.05	1229	174.00	42949
51.10	2988	74.10	8084	93.05	1947	174.95	3151
56.10	709	75.10	22626	94.10	5487	176.00	42050

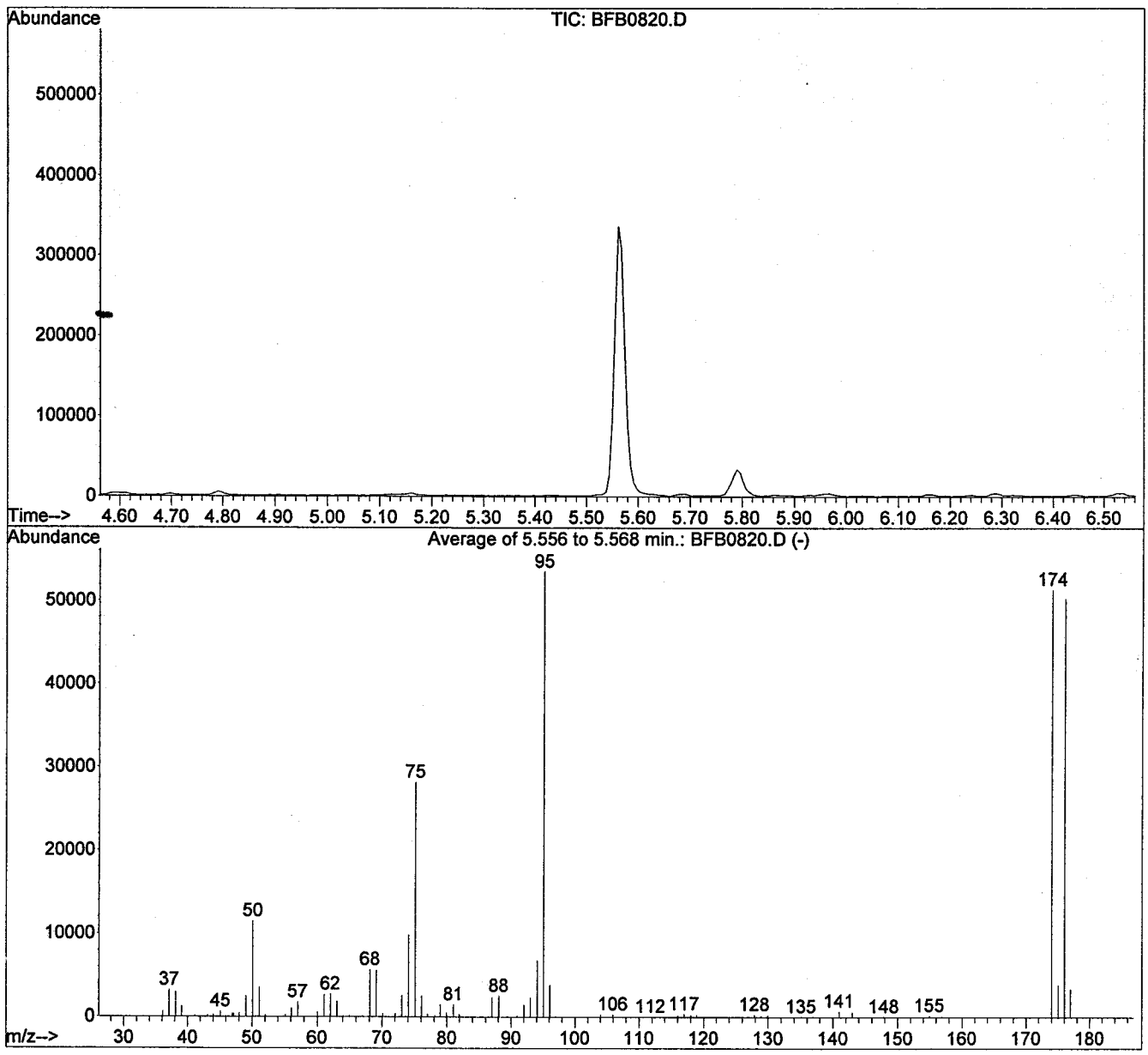
Average of 5.556 to 5.568 min.: BFB0817A.D
TUN
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.00	2862						

BFB Tune Evaluation

Data File : C:\MSDCHEM\1\DATA\08-20-12\BFB0820.D Vial: 1
Acq On : 20 Aug 2012 8:18 Operator: DLV
Sample : Inst : 323
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260B-A168.M (RTE Integrator)
Title : VOLATILE GC/MS BY EPA 8260B/624/524.2



Peak Apex is scan: 848 (5.56 min)
Average of 3 scans: 847,848,849 minus background scan 828 (5.44 min)

Target Mass	Rel. to Mass	Lower Limit,%	Upper Limit,%	Rel. Abn,%	Raw Abn	Result Pass/Fail
50	95	15	40	21.4	11482	PASS
75	95	30	60	52.7	28189	PASS
95	95	100	100	100.0	53533	PASS
96	95	5	9	7.2	3867	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	96.0	51408	PASS
175	174	5	9	7.5	3880	PASS
176	174	95	101	97.9	50338	PASS
177	176	5	9	6.8	3407	PASS

BFB0820.D 8260B-A168.M Mon Aug 20 14:16:19 2012 LEW 8-20-12

Average of 5.556 to 5.568 min.: BFB0820.D

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	671	56.10	1042	74.10	9842	93.05	2329
37.10	3239	57.05	1796	75.10	28189	94.10	6793
38.10	2978	60.00	603	76.10	2512	95.10	53533
39.05	1231	61.05	2649	77.00	325	96.05	3867
45.15	666	62.05	2733	78.95	1465	104.00	268
46.95	411	63.10	1880	79.95	468	105.95	312
47.20	361	68.10	5686	81.00	1499	117.00	365
48.05	443	69.10	5604	81.95	333	118.90	281
49.05	2473	70.10	406	87.00	2357	127.90	282
50.10	11482	72.05	399	88.05	2540	140.95	717
51.10	3596	73.05	2617	92.05	1511	143.00	602

Average of 5.556 to 5.568 min.: BFB0820.D

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
174.00	51408						
175.00	3880						
176.00	50338						
176.95	3407						

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208743-BLK1 File ID: BLK0718.D

Prepared: 07/18/12 08:00 Analyzed: 07/18/12 09:59

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
67-64-1	Acetone	5.0	ug/L	1.1	5.0	U
71-43-2	Benzene	1.0	ug/L	0.11	1.0	U
75-27-4	Bromodichloromethane	1.0	ug/L	0.13	1.0	U
75-25-2	Bromoform	1.0	ug/L	0.26	1.0	U
74-83-9	Bromomethane	1.0	ug/L	0.21	1.0	U
75-15-0	Carbon Disulfide	5.0	ug/L	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1.0	ug/L	0.26	1.0	U
108-90-7	Chlorobenzene	1.0	ug/L	0.17	1.0	U
75-00-3	Chloroethane	1.0	ug/L	0.14	1.0	U
67-66-3	Chloroform	1.0	ug/L	0.098	1.0	U
74-87-3	Chloromethane	1.0	ug/L	0.29	1.0	U
110-82-7	Cyclohexane	5.0	ug/L	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	ug/L	0.13	1.0	U
124-48-1	Dibromochloromethane	1.0	ug/L	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1.0	ug/L	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	ug/L	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	ug/L	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1.0	ug/L	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1.0	ug/L	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1.0	ug/L	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	ug/L	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	ug/L	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1.0	ug/L	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
100-41-4	Ethylbenzene	1.0	ug/L	0.21	1.0	U
591-78-6	2-Hexanone	5.0	ug/L	0.49	5.0	U
98-82-8	Isopropylbenzene	1.0	ug/L	0.22	1.0	U
79-20-9	Methyl Acetate	1.4	ug/L	0.42	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1.0	ug/L	0.19	1.0	U
108-87-2	Methylcyclohexane	5.0	ug/L	0.37	5.0	U
75-09-2	Methylene Chloride	0.44	ug/L	0.24	1.0	J
78-93-3	2-Butanone (MEK)	5.0	ug/L	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	ug/L	0.40	5.0	U
100-42-5	Styrene	1.0	ug/L	0.20	1.0	U

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1208743-BLK1 File ID: BLK0718.D

Prepared: 07/18/12 08:00 Analyzed: 07/18/12 09:59

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1208743 Sequence: 2G19009 Calibration: 2G19002 Instrument: 224

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
79-34-5	1,1,2,2-Tetrachloroethane	1.0	ug/L	0.26	1.0	U
127-18-4	Tetrachloroethene	1.0	ug/L	0.23	1.0	U
108-88-3	Toluene	1.0	ug/L	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	ug/L	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	ug/L	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	ug/L	0.20	1.0	U
79-01-6	Trichloroethene	1.0	ug/L	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1.0	ug/L	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	ug/L	0.24	1.0	U
75-01-4	Vinyl Chloride	1.0	ug/L	0.21	1.0	U
1330-20-7	Xylene (Total)	3.0	ug/L	0.39	3.0	U

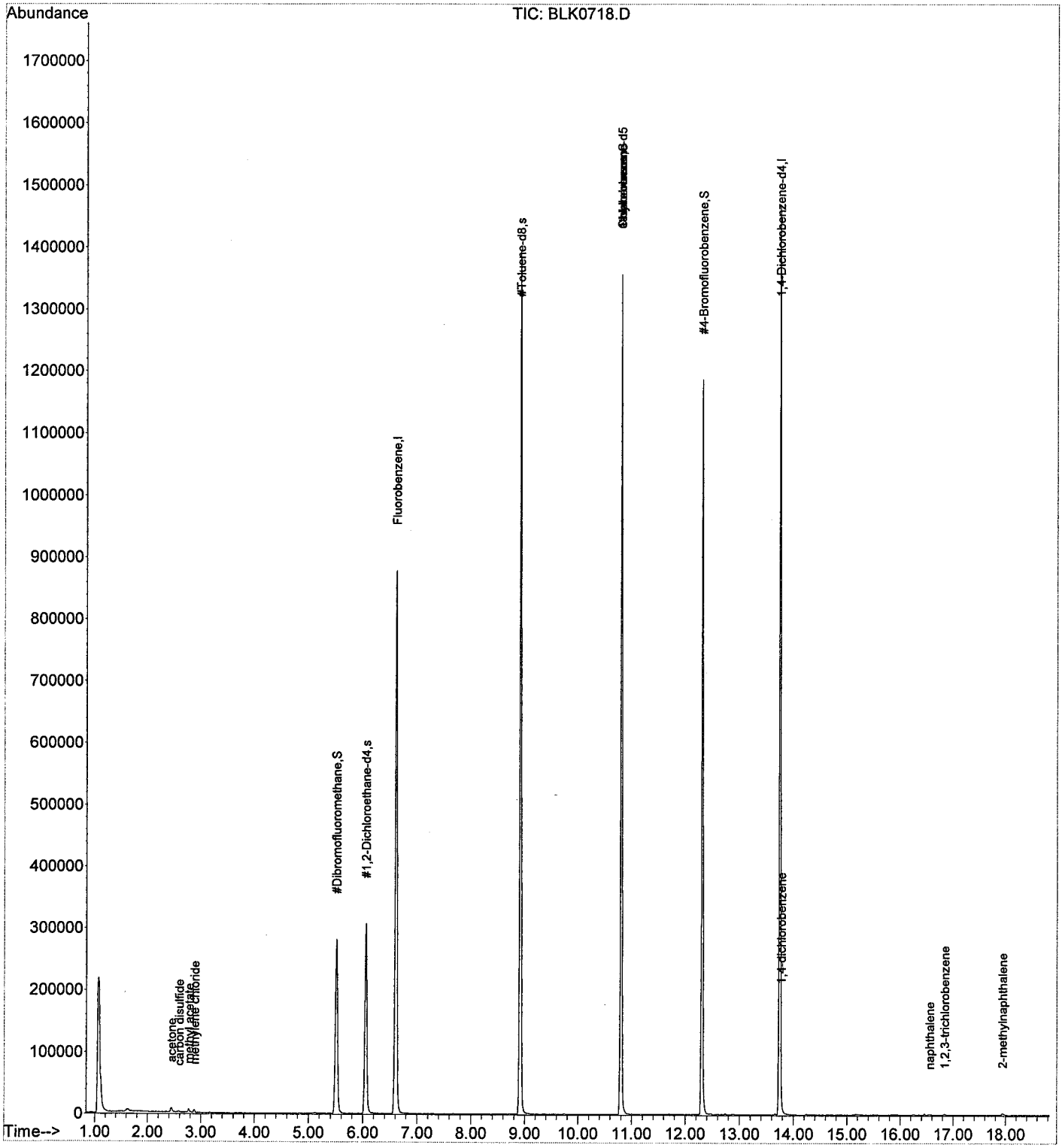
System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
Dibromofluoromethane	40.0	40.2	100	85 - 118	
1,2-Dichloroethane-d4	40.0	40.7	102	87 - 122	
Toluene-d8	40.0	39.2	98	85 - 113	
4-Bromofluorobenzene	40.0	39.2	98	82 - 110	

Internal Standard	Area	RT	% REC	Ref. RT	Q
Fluorobenzene	1043970	6.61	98	6.61	
Chlorobenzene-d5	843255	10.8	97	10.8	
1,4-Dichlorobenzene-d4	471755	13.75	92	13.75	

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : BLK0718.D
Acq On : 18 Jul 2012 9:59
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 10:17:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : BLK0718.D
Acq On : 18 Jul 2012 9:59
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 10:17:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.61	96	1043970	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	843255	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	471755	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	245976	40.20 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.50%	
37) #1,2-Dichloroethane-d4	6.05	65	283364	40.66 ug/L	0.00
Spiked Amount 40.000			Recovery	= 101.65%	
47) #Toluene-d8	8.91	98	1042786	39.18 ug/L	0.00
Spiked Amount 40.000			Recovery	= 97.95%	
65) #4-Bromofluorobenzene	12.31	95	409654	39.15 ug/L	0.00
Spiked Amount 40.000			Recovery	= 97.88%	

Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	
3) chloromethane	0.00	50	0	N.D.	
4) vinyl chloride	0.00	62	0	N.D.	
5) bromomethane	0.00	94	0	N.D.	
6) chloroethane	0.00	64	0	N.D.	
7) dichlorofluoromethane	0.00	67	0	N.D.	
8) trichlorofluoromethane	0.00	101	0	N.D.	
9) ethyl ether	0.00	74	0	N.D.	
10) acrolein	0.00	56	0	N.D.	
11) 1,1,2-trichloro-1,2,2-trif	0.00	101	0	N.D.	
12) 1,1-dichloroethene	0.00	96	0	N.D.	
13) acetone	2.44	43	11811	0.23 ug/L	86
14) iodomethane	0.00	142	0	N.D.	
15) carbon disulfide	2.59	76	1524	0.19 ug/L #	75
16) methyl acetate	2.77	43	6912	1.38 ug/L #	60
17) methylene chloride	2.87	49	3248	0.44 ug/L	95
18) acrylonitrile	0.00	53	0	N.D.	
19) trans-1,2-dichloroethene	0.00	96	0	N.D.	
20) methyl (tert) butyl ether	0.00	73	0	N.D.	
21) 1,1-dichloroethane	0.00	63	0	N.D.	
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	0.00	77	0	N.D.	
24) cis-1,2-dichloroethene	0.00	96	0	N.D.	
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	0.00	49	0	N.D.	
27) tetrahydrofuran	0.00	71	0	N.D.	
28) chloroform	0.00	83	0	N.D.	
30) 1,1,1-trichloroethane	0.00	97	0	N.D.	
31) cyclohexane	0.00	56	0	N.D.	
32) carbon tetrachloride	0.00	117	0	N.D.	
33) 1,1-dichloropropene	0.00	75	0	N.D.	
34) benzene	0.00	78	0	N.D.	
35) 1,2-dichloroethane	0.00	62	0	N.D.	
36) heptane	6.60	57	32483	No Calib #	
38) trichloroethene	0.00	130	0	N.D.	
39) methylcyclohexane	0.00	83	0	N.D.	
40) 1,2-dichloropropane	0.00	63	0	N.D.	
41) dibromomethane	0.00	93	0	N.D.	

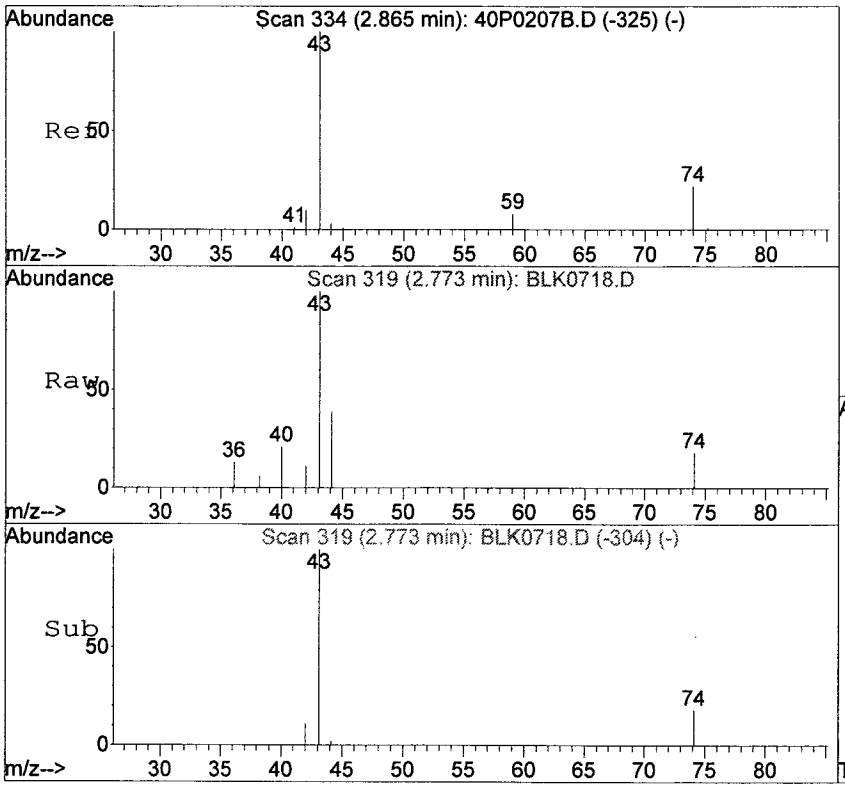
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : BLK0718.D
Acq On : 18 Jul 2012 9:59
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 10:17:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	0.00	83	0	N.D.	
44) 2-chloroethyl vinyl ether	0.00	63	0	N.D.	
45) cis-1,3-dichloropropene	0.00	75	0	N.D.	
46) 4-methyl-2-pentanone (MIBK	0.00	43	0	N.D.	
48) toluene	0.00	91	0	N.D.	
49) trans-1,3-dichloropropene	0.00	75	0	N.D.	
50) 1,1,2-trichloroethane	0.00	83	0	N.D.	
52) tetrachloroethene	0.00	166	0	N.D.	
53) 1,3-dichloropropane	0.00	76	0	N.D.	
54) 2-hexanone (MBK)	0.00	43	0	N.D.	
55) dibromochloromethane	0.00	129	0	N.D.	
56) 1,2-dibromoethane	0.00	109	0	N.D.	
57) chlorobenzene	0.00	112	0	N.D.	
58) 1-chlorohexane	10.80	55	6596	1.12 ug/L #	8
59) 1,1,1,2-tetrachloroethane	0.00	131	0	N.D.	
60) ethylbenzene	10.80	91	1442	0.05 ug/L #	44
61) m+p-xylene	0.00	106	0	N.D.	
62) o-xylene	0.00	106	0	N.D.	
63) styrene	0.00	104	0	N.D.	
64) bromoform	0.00	173	0	N.D.	
67) isopropylbenzene	0.00	105	0	N.D.	
68) bromobenzene	0.00	77	0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.00	83	0	N.D.	
70) 1,2,3-trichloropropane	0.00	110	0	N.D.	
71) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
72) n-propylbenzene	0.00	120	0	N.D.	
73) 2-chlorotoluene	0.00	126	0	N.D.	
74) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
75) 4-chlorotoluene	0.00	126	0	N.D.	
76) tert-butylbenzene	0.00	119	0	N.D.	
77) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
78) sec-butylbenzene	0.00	105	0	N.D.	
79) 1,3-dichlorobenzene	0.00	146	0	N.D.	
80) 4-isopropyltoluene	0.00	119	0	N.D.	
81) 1,4-dichlorobenzene	13.78	146	2105	0.15 ug/L #	27
82) 1,2-dichlorobenzene	0.00	146	0	N.D.	
83) n-butylbenzene	0.00	91	0	N.D.	
84) hexachloroethane	0.00	201	0	N.D.	
85) 1,2-dibromo-3-chloropropan	0.00	157	0	N.D.	
86) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
87) hexachlorobutadiene	0.00	225	0	N.D.	
88) naphthalene	16.55	128	2272	3.21 ug/L #	81
89) 1,2,3-trichlorobenzene	16.84	180	1247	0.20 ug/L #	12
90) 2-methylnaphthalene	17.94	142	3356	2.94 ug/L #	77

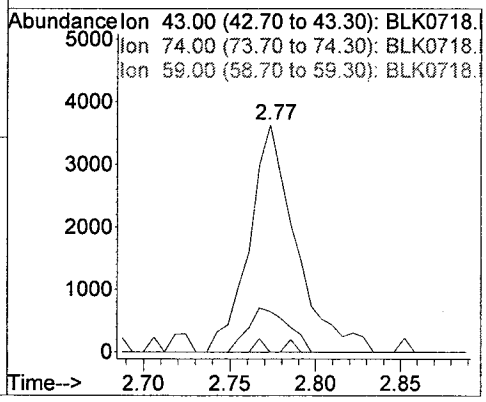
(#) = qualifier out of range (m) = manual integration (+) = signals summed

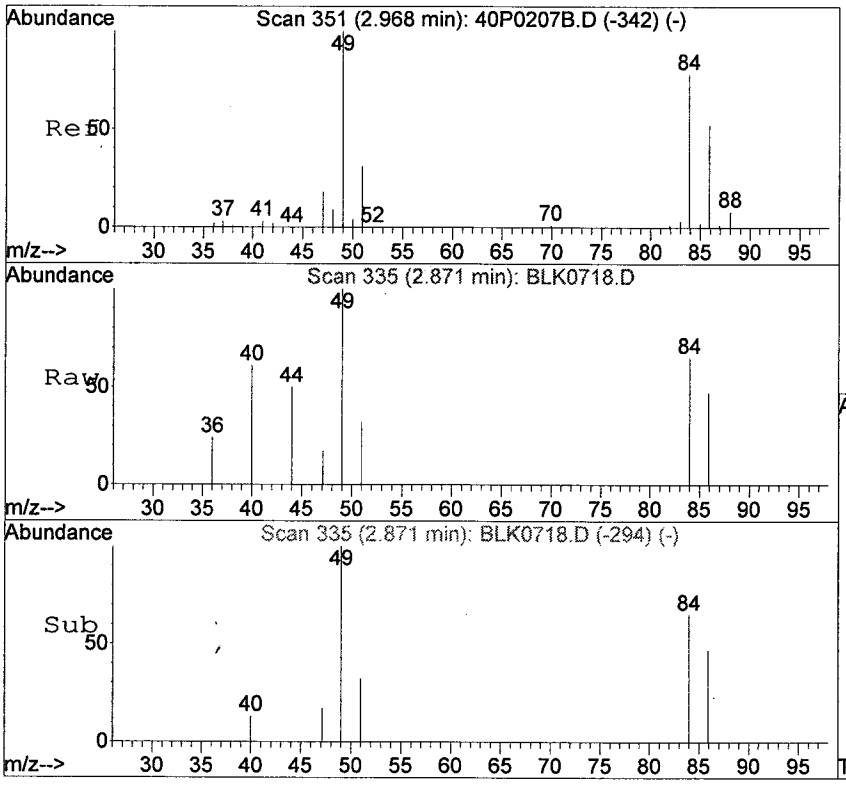


#16
methyl acetate
Concen: 1.38 ug/L
RT: 2.77 min Scan# 319
Delta R.T. -0.01 min
Lab File: BLK0718.D
Acq: 18 Jul 2012 9:59

Tgt Ion: 43 Resp: 6912

Ion	Ratio	Lower	Upper
43	100		
74	0.0	1.9	41.9#
59	0.0	0.0	27.7

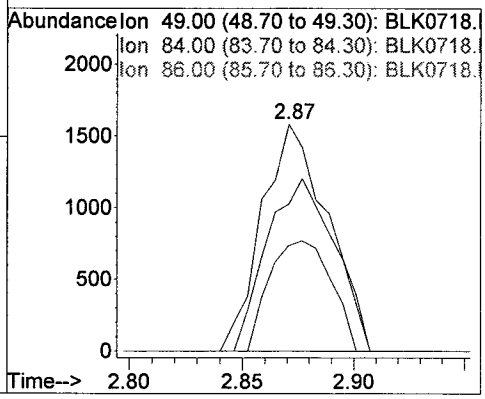




#17
methylene chloride
Concen: 0.44 ug/L
RT: 2.87 min Scan# 335
Delta R.T. -0.00 min
Lab File: BLK0718.D
Acq: 18 Jul 2012 9:59

Tgt Ion: 49 Resp: 3248

Ion	Ratio	Lower	Upper
49	100		
84	78.0	61.0	101.0
86	45.8	31.6	71.6



METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1209178-BLK1 File ID: BLK0726.D

Prepared: 07/26/12 08:00 Analyzed: 07/26/12 10:23

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
67-64-1	Acetone	5.0	ug/L	1.1	5.0	U
71-43-2	Benzene	1.0	ug/L	0.11	1.0	U
75-27-4	Bromodichloromethane	1.0	ug/L	0.13	1.0	U
75-25-2	Bromoform	1.0	ug/L	0.26	1.0	U
74-83-9	Bromomethane	1.0	ug/L	0.21	1.0	U
75-15-0	Carbon Disulfide	5.0	ug/L	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1.0	ug/L	0.26	1.0	U
108-90-7	Chlorobenzene	1.0	ug/L	0.17	1.0	U
75-00-3	Chloroethane	1.0	ug/L	0.14	1.0	U
67-66-3	Chloroform	1.0	ug/L	0.098	1.0	U
74-87-3	Chloromethane	1.0	ug/L	0.29	1.0	U
110-82-7	Cyclohexane	5.0	ug/L	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	ug/L	0.13	1.0	U
124-48-1	Dibromochloromethane	1.0	ug/L	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1.0	ug/L	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	ug/L	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	ug/L	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1.0	ug/L	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1.0	ug/L	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1.0	ug/L	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	ug/L	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	ug/L	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1.0	ug/L	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
100-41-4	Ethylbenzene	1.0	ug/L	0.21	1.0	U
591-78-6	2-Hexanone	5.0	ug/L	0.49	5.0	U
98-82-8	Isopropylbenzene	1.0	ug/L	0.22	1.0	U
79-20-9	Methyl Acetate	5.0	ug/L	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1.0	ug/L	0.19	1.0	U
108-87-2	Methylcyclohexane	5.0	ug/L	0.37	5.0	U
75-09-2	Methylene Chloride	1.2	ug/L	0.24	1.0	
78-93-3	2-Butanone (MEK)	5.0	ug/L	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	ug/L	0.40	5.0	U
100-42-5	Styrene	1.0	ug/L	0.20	1.0	U

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1209178-BLK1 File ID: BLK0726.D

Prepared: 07/26/12 08:00 Analyzed: 07/26/12 10:23

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209178 Sequence: 2G27052 Calibration: 2G27002 Instrument: 328

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
79-34-5	1,1,2,2-Tetrachloroethane	1.0	ug/L	0.26	1.0	U
127-18-4	Tetrachloroethene	1.0	ug/L	0.23	1.0	U
108-88-3	Toluene	1.0	ug/L	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	0.33	ug/L	0.13	1.0	J
71-55-6	1,1,1-Trichloroethane	1.0	ug/L	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	ug/L	0.20	1.0	U
79-01-6	Trichloroethene	1.0	ug/L	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1.0	ug/L	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	ug/L	0.24	1.0	U
75-01-4	Vinyl Chloride	1.0	ug/L	0.21	1.0	U
1330-20-7	Xylene (Total)	3.0	ug/L	0.39	3.0	U

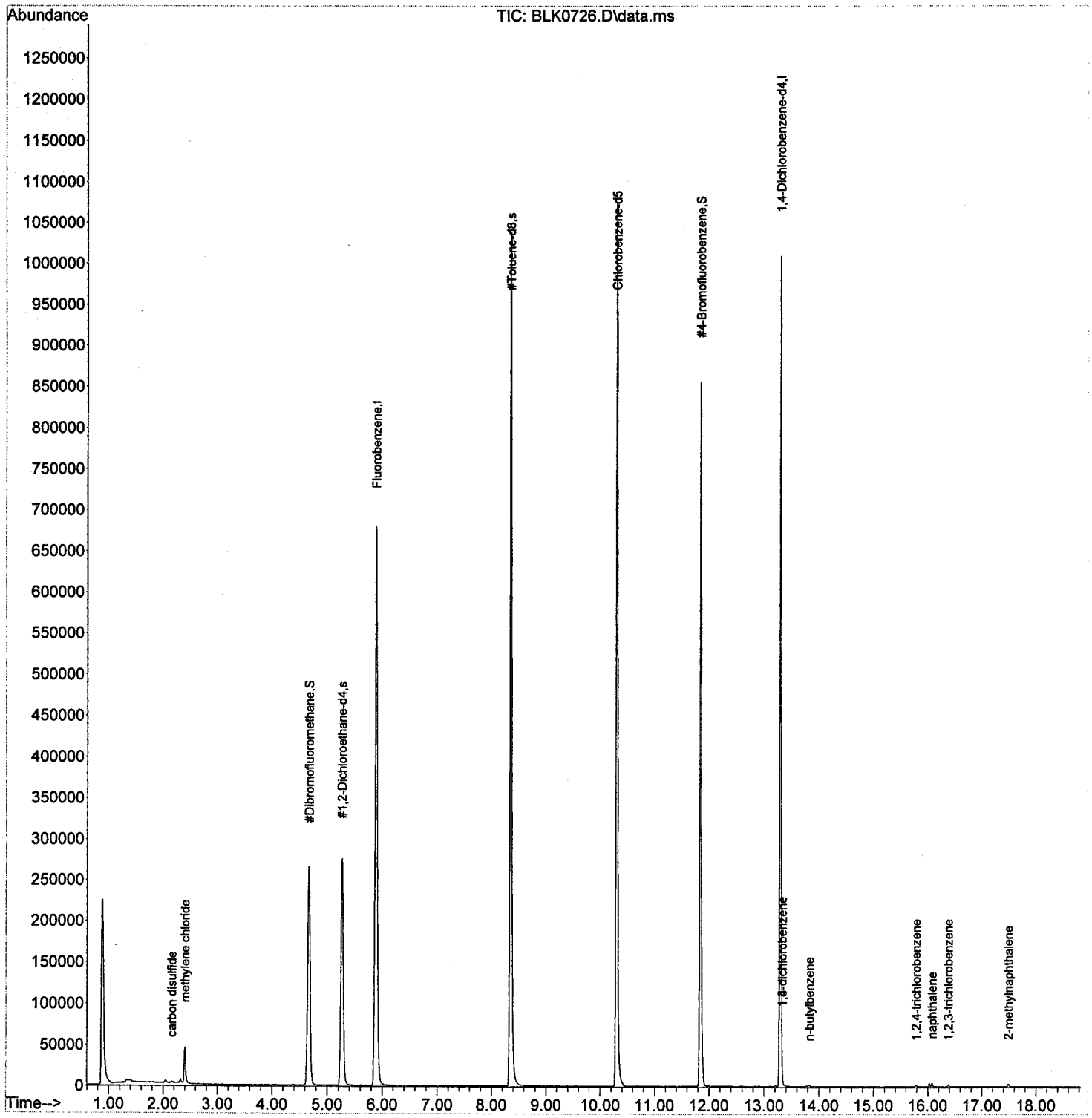
System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
Dibromofluoromethane	40.0	39.0	98	85 - 118	
1,2-Dichloroethane-d4	40.0	39.5	99	87 - 122	
Toluene-d8	40.0	38.8	97	85 - 113	
4-Bromofluorobenzene	40.0	35.8	89	82 - 110	

Internal Standard	Area	RT	% REC	Ref. RT	Q
Fluorobenzene	887820	5.885	104	5.872	
Chlorobenzene-d5	645514	10.298	96	10.286	
1,4-Dichlorobenzene-d4	281555	13.298	75	13.285	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : BLK0726.D
Acq On : 26 Jul 2012 10:23
Operator : LEW
Sample : BLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 26 11:13:21 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



01234

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : BLK0726.D
Acq On : 26 Jul 2012 10:23
Operator : LEW
Sample : BLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 26 11:13:21 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.885	96	887820	40.00 ug/L	0.01
51) Chlorobenzene-d5	10.298	117	645514	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.298	152	281555	40.00 ug/L	# 0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	4.665	111	247935	39.02 ug/L	0.00
Spiked Amount 40.000			Recovery	= 97.55%	
37) #1,2-Dichloroethane-d4	5.263	67	153616	39.48 ug/L	0.00
Spiked Amount 40.000			Recovery	= 98.70%	
47) #Toluene-d8	8.354	98	850331	38.82 ug/L	0.01
Spiked Amount 40.000			Recovery	= 97.05%	
65) #4-Bromofluorobenzene	11.841	95	295443	35.76 ug/L	0.00
Spiked Amount 40.000			Recovery	= 89.40%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.000		0	N.D.	
3) chloromethane	0.000		0	N.D.	
4) vinyl chloride	0.000		0	N.D.	
5) bromomethane	0.000		0	N.D.	
6) chloroethane	0.000		0	N.D.	
7) dichlorofluoromethane	0.000		0	N.D.	
8) trichlorofluoromethane	0.000		0	N.D.	
9) ethyl ether	0.000		0	N.D.	
10) acrolein	0.000		0	N.D.	
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.	
12) 1,1-dichloroethene	0.000		0	N.D.	
13) acetone	2.044	43	5052	Below Cal	# 53
14) iodomethane	0.000		0	N.D.	
15) carbon disulfide	2.154	76	1825	0.12 ug/L	# 75
16) methyl acetate	2.318	43	7097	Below Cal	# 58
17) methylene chloride	2.397	49	26237	1.15 ug/L	90
18) acrylonitrile	0.000		0	N.D.	
19) trans-1,2-dichloroethene	0.000		0	N.D.	
20) methyl (tert) butyl ether	0.000		0	N.D.	
21) 1,1-dichloroethane	0.000		0	N.D.	
22) vinyl acetate	0.000		0	N.D.	
23) 2,2-dichloropropane	0.000		0	N.D.	
24) cis-1,2-dichloroethene	0.000		0	N.D.	
25) 2-butanone (MEK)	0.000		0	N.D.	
26) bromochloromethane	0.000		0	N.D.	
27) tetrahydrofuran	0.000		0	N.D.	
28) chloroform	0.000		0	N.D.	
30) 1,1,1-trichloroethane	0.000		0	N.D.	
31) cyclohexane	0.000		0	N.D.	
32) carbon tetrachloride	0.000		0	N.D.	
33) 1,1-dichloropropene	0.000		0	N.D.	
34) benzene	0.000		0	N.D.	
35) 1,2-dichloroethane	0.000		0	N.D.	
36) heptane	5.878	57	32823	No Calib	#
38) trichloroethene	0.000		0	N.D.	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : BLK0726.D
Acq On : 26 Jul 2012 10:23
Operator : LEW
Sample : BLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 26 11:13:21 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

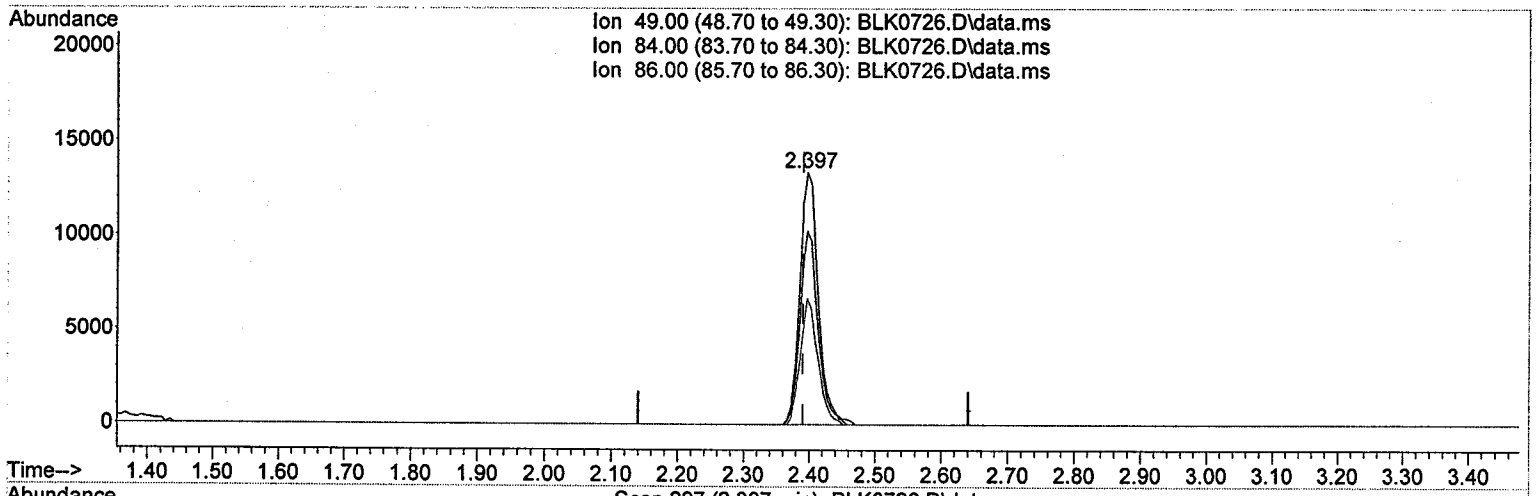
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39)	methylcyclohexane	0.000		0	N.D.	
40)	1,2-dichloropropane	0.000		0	N.D.	
41)	dibromomethane	0.000		0	N.D.	
42)	1,4-dioxane	0.000		0	N.D.	
43)	bromodichloromethane	0.000		0	N.D.	
44)	2-chloroethyl vinyl ether	0.000		0	N.D.	
45)	cis-1,3-dichloropropene	0.000		0	N.D.	
46)	4-methyl-2-pentanone (...	0.000		0	N.D.	
48)	toluene	0.000		0	N.D.	
49)	trans-1,3-dichloropropene	0.000		0	N.D.	
50)	1,1,2-trichloroethane	0.000		0	N.D.	
52)	tetrachloroethene	0.000		0	N.D.	
53)	1,3-dichloropropane	0.000		0	N.D.	
54)	2-hexanone (MBK)	0.000		0	N.D.	
55)	dibromochloromethane	0.000		0	N.D.	
56)	1,2-dibromoethane	0.000		0	N.D.	
57)	chlorobenzene	0.000		0	N.D.	
58)	1-chlorohexane	0.000		0	N.D.	
59)	1,1,1,2-tetrachloroethane	0.000		0	N.D.	
60)	ethylbenzene	0.000		0	N.D.	
61)	m+p-xylene	0.000		0	N.D.	
62)	o-xylene	0.000		0	N.D.	
63)	styrene	0.000		0	N.D.	
64)	bromoform	0.000		0	N.D.	
67)	isopropylbenzene	0.000		0	N.D.	
68)	bromobenzene	0.000		0	N.D.	
69)	1,1,2,2-tetrachloroethane	0.000		0	N.D.	
70)	1,2,3-trichloropropane	0.000		0	N.D.	
71)	1,4-dichloro-2-butene	0.000		0	N.D.	
72)	n-propylbenzene	0.000		0	N.D.	
73)	2-chlorotoluene	0.000		0	N.D.	
74)	1,3,5-trimethylbenzene	0.000		0	N.D.	
75)	4-chlorotoluene	0.000		0	N.D.	
76)	tert-butylbenzene	0.000		0	N.D.	
77)	1,2,4-trimethylbenzene	0.000		0	N.D.	
78)	sec-butylbenzene	0.000		0	N.D.	
79)	1,3-dichlorobenzene	13.328	146	1281	0.12 ug/L #	31
80)	4-isopropyltoluene	0.000		0	N.D.	
81)	1,4-dichlorobenzene	13.328	146	1281	0.11 ug/L #	32
82)	1,2-dichlorobenzene	0.000		0	N.D.	
83)	n-butylbenzene	13.828	91	1761	3.50 ug/L #	32
84)	hexachloroethane	0.000		0	N.D.	
85)	1,2-dibromo-3-chloropr...	0.000		0	N.D.	
86)	1,2,4-trichlorobenzene	15.785	180	1303	0.33 ug/L #	85
87)	hexachlorobutadiene	0.000		0	N.D.	
88)	naphthalene	16.078	128	4920	4.48 ug/L #	77
89)	1,2,3-trichlorobenzene	16.376	180	1204	0.35 ug/L #	12
90)	2-methylnaphthalene	17.486	142	2322	3.83 ug/L #	79

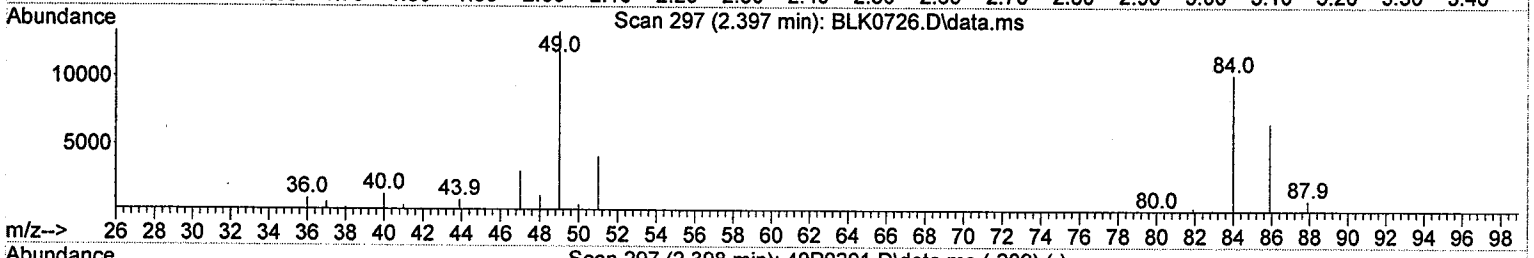
(#) = qualifier out of range (m) = manual integration (+) = signals summed

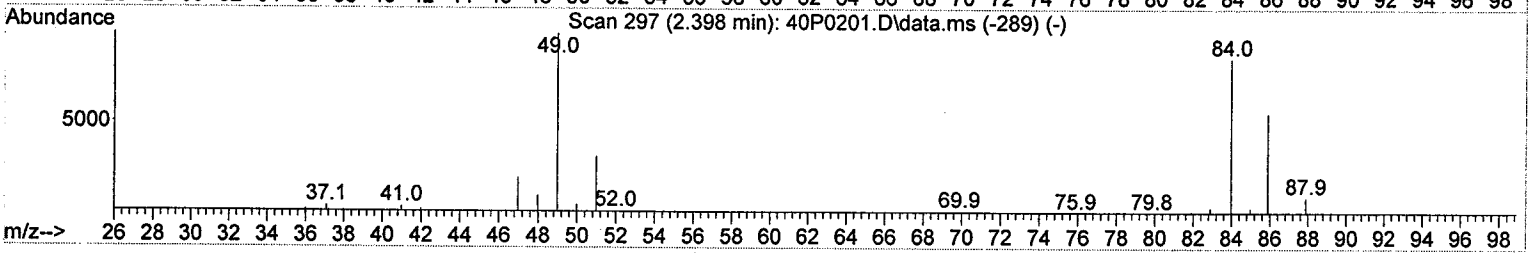
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : BLK0726.D
Acq On : 26 Jul 2012 10:23
Operator : LEW
Sample : BLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 26 11:13:21 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: BLK0726.D\data.ms

(17) methylene chloride

2.397min (+0.006) 1.15 ug/L

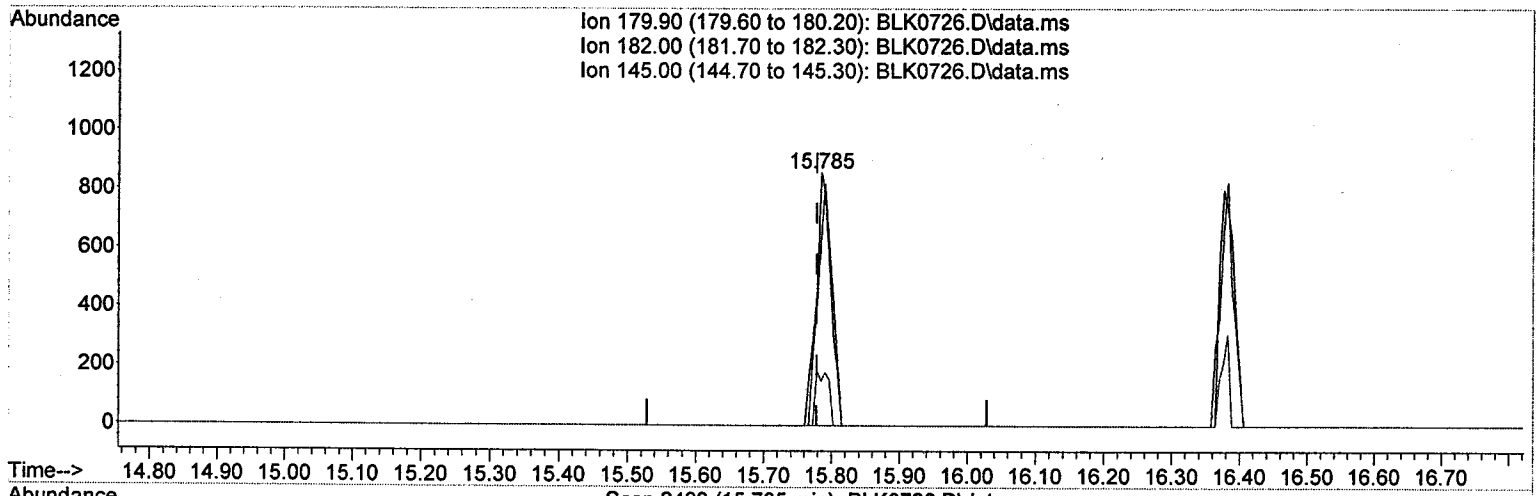
response 26237

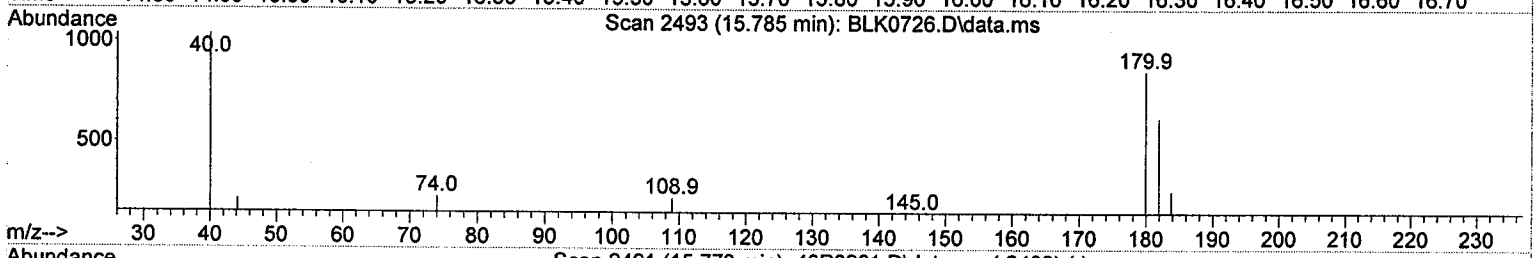
Ion	Exp%	Act%
49.00	100	100
84.00	83.90	74.69
86.00	53.90	47.15
0.00	0.00	0.00

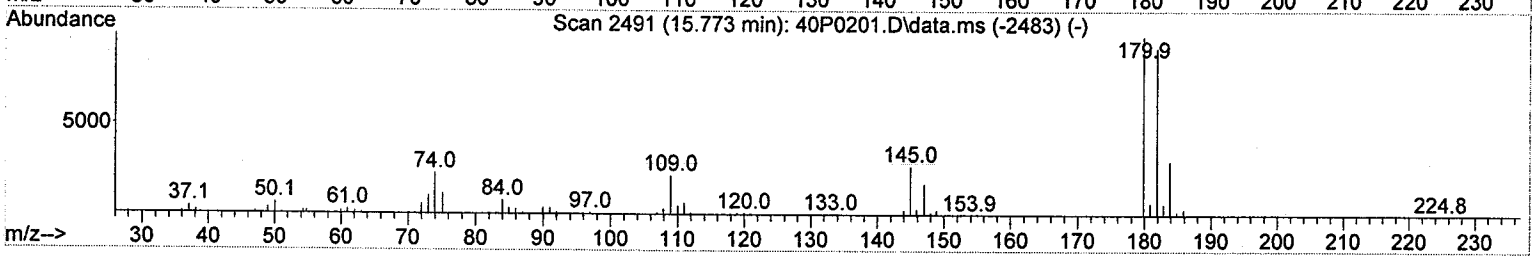
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : BLK0726.D
Acq On : 26 Jul 2012 10:23
Operator : LEW
Sample : BLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 26 11:13:21 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration







TIC: BLK0726.D\data.ms

(86) 1,2,4-trichlorobenzene

15.785min (+0.006) 0.33 ug/L

response 1303

Ion	Exp%	Act%
179.90	100	100
182.00	96.00	92.86
145.00	29.00	0.00#
0.00	0.00	0.00

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1209584-BLK1 File ID: BLK0806.D

Prepared: 08/06/12 08:00 Analyzed: 08/06/12 09:57

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209584 Sequence: 2H07013 Calibration: 2H01006 Instrument: 224

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
67-64-1	Acetone	9.8	ug/L	1.1	5.0	
71-43-2	Benzene	1.0	ug/L	0.11	1.0	U
75-27-4	Bromodichloromethane	1.0	ug/L	0.13	1.0	U
75-25-2	Bromoform	1.0	ug/L	0.26	1.0	U
74-83-9	Bromomethane	1.0	ug/L	0.21	1.0	U
75-15-0	Carbon Disulfide	5.0	ug/L	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1.0	ug/L	0.26	1.0	U
108-90-7	Chlorobenzene	1.0	ug/L	0.17	1.0	U
75-00-3	Chloroethane	1.0	ug/L	0.14	1.0	U
67-66-3	Chloroform	1.0	ug/L	0.098	1.0	U
74-87-3	Chloromethane	1.0	ug/L	0.29	1.0	U
110-82-7	Cyclohexane	5.0	ug/L	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	ug/L	0.13	1.0	U
124-48-1	Dibromochloromethane	1.0	ug/L	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1.0	ug/L	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	ug/L	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	ug/L	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1.0	ug/L	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1.0	ug/L	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1.0	ug/L	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	ug/L	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	ug/L	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1.0	ug/L	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
100-41-4	Ethylbenzene	1.0	ug/L	0.21	1.0	U
591-78-6	2-Hexanone	5.0	ug/L	0.49	5.0	U
98-82-8	Isopropylbenzene	1.0	ug/L	0.22	1.0	U
79-20-9	Methyl Acetate	1.6	ug/L	0.42	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1.0	ug/L	0.19	1.0	U
108-87-2	Methylcyclohexane	5.0	ug/L	0.37	5.0	U
75-09-2	Methylene Chloride	1.0	ug/L	0.24	1.0	U
78-93-3	2-Butanone (MEK)	5.0	ug/L	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	ug/L	0.40	5.0	U
100-42-5	Styrene	1.0	ug/L	0.20	1.0	U

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1209584-BLK1 File ID: BLK0806.D

Prepared: 08/06/12 08:00 Analyzed: 08/06/12 09:57

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1209584 Sequence: 2H07013 Calibration: 2H01006 Instrument: 224

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
79-34-5	1,1,2,2-Tetrachloroethane	1.0	ug/L	0.26	1.0	U
127-18-4	Tetrachloroethene	1.0	ug/L	0.23	1.0	U
108-88-3	Toluene	1.0	ug/L	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	ug/L	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	ug/L	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	ug/L	0.20	1.0	U
79-01-6	Trichloroethene	1.0	ug/L	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1.0	ug/L	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	ug/L	0.24	1.0	U
75-01-4	Vinyl Chloride	1.0	ug/L	0.21	1.0	U
1330-20-7	Xylene (Total)	3.0	ug/L	0.39	3.0	U

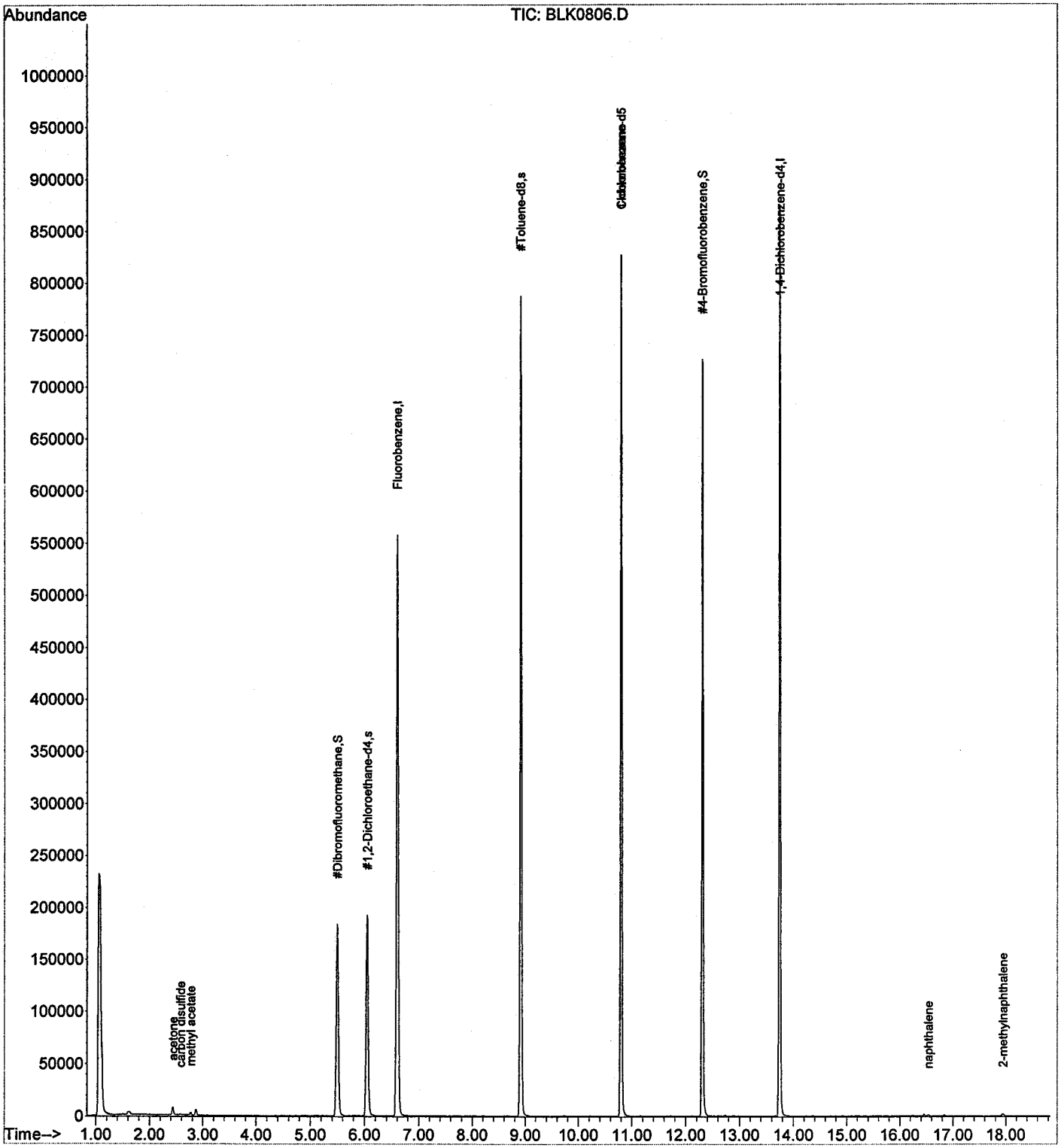
System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
Dibromofluoromethane	40.0	40.8	102	85 - 118	
1,2-Dichloroethane-d4	40.0	39.1	98	87 - 122	
Toluene-d8	40.0	35.0	88	85 - 113	
4-Bromofluorobenzene	40.0	39.6	99	82 - 110	

Internal Standard	Area	RT	% REC	Ref. RT	Q
Fluorobenzene	652883	6.6	103	6.6	
Chlorobenzene-d5	495887	10.8	86	10.8	
1,4-Dichlorobenzene-d4	281757	13.75	78	13.75	

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\08-06-12\
InstName : 224
Data File : BLK0806.D
Acq On : 6 Aug 2012 9:57
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 10:15:57 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration



01241

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\08-06-12\
InstName : 224
Data File : BLK0806.D
Acq On : 6 Aug 2012 9:57
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 10:15:57 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.60	96	652883	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	495887	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	281757	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	161993	40.79 ug/L	0.00
Spiked Amount 40.000			Recovery	= 101.97%	
37) #1,2-Dichloroethane-d4	6.05	65	186146	39.12 ug/L	0.00
Spiked Amount 40.000			Recovery	= 97.80%	
47) #Toluene-d8	8.91	98	586559	35.03 ug/L	0.00
Spiked Amount 40.000			Recovery	= 87.58%	
65) #4-Bromofluorobenzene	12.30	95	247915	39.60 ug/L	0.00
Spiked Amount 40.000			Recovery	= 99.00%	

Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	
3) chloromethane	0.00	50	0	N.D.	
4) vinyl chloride	0.00	62	0	N.D.	
5) bromomethane	0.00	94	0	N.D.	
6) chloroethane	0.00	64	0	N.D.	
7) dichlorofluoromethane	0.00	67	0	N.D.	
8) trichlorofluoromethane	0.00	101	0	N.D.	
9) ethyl ether	0.00	74	0	N.D.	
10) acrolein	0.00	56	0	N.D.	
11) 1,1,2-trichloro-1,2,2-trif	0.00	101	0	N.D.	
12) 1,1-dichloroethene	0.00	96	0	N.D.	
13) acetone	2.44	43	10568	9.78 ug/L	92
14) iodomethane	0.00	142	0	N.D.	
15) carbon disulfide	2.58	76	1534	~~0.24~~ ug/L #	75
16) methyl acetate	2.77	43	3813	1.57 ug/L #	60
17) methylene chloride	2.87	49	3940	Below Cal	93
18) acrylonitrile	0.00	53	0	N.D.	
19) trans-1,2-dichloroethene	0.00	96	0	N.D.	
20) methyl (tert) butyl ether	0.00	73	0	N.D.	
21) 1,1-dichloroethane	0.00	63	0	N.D.	
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	0.00	77	0	N.D.	
24) cis-1,2-dichloroethene	0.00	96	0	N.D.	
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	0.00	49	0	N.D.	
27) tetrahydrofuran	0.00	71	0	N.D.	
28) chloroform	0.00	83	0	N.D.	
30) 1,1,1-trichloroethane	0.00	97	0	N.D.	
31) cyclohexane	0.00	56	0	N.D.	
32) carbon tetrachloride	0.00	117	0	N.D.	
33) 1,1-dichloropropene	0.00	75	0	N.D.	
34) benzene	0.00	78	0	N.D.	
35) 1,2-dichloroethane	0.00	62	0	N.D.	
36) heptane	6.60	57	20775	No Calib #	
38) trichloroethene	0.00	130	0	N.D.	
39) methylcyclohexane	0.00	83	0	N.D.	
40) 1,2-dichloropropane	0.00	63	0	N.D.	
41) dibromomethane	0.00	93	0	N.D.	

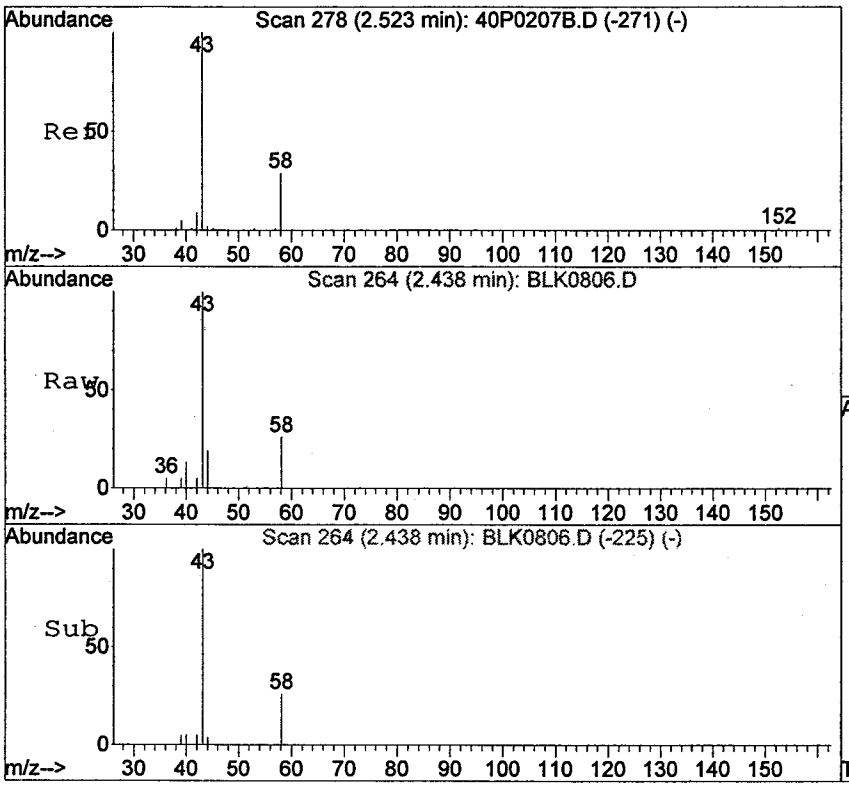
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\08-06-12\
InstName : 224
Data File : BLK0806.D
Acq On : 6 Aug 2012 9:57
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 06 10:15:57 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	0.00	83	0	N.D.	
44) 2-chloroethyl vinyl ether	0.00	63	0	N.D.	
45) cis-1,3-dichloropropene	0.00	75	0	N.D.	
46) 4-methyl-2-pentanone (MIBK	0.00	43	0	N.D.	
48) toluene	0.00	91	0	N.D.	
49) trans-1,3-dichloropropene	0.00	75	0	N.D.	
50) 1,1,2-trichloroethane	0.00	83	0	N.D.	
52) tetrachloroethene	0.00	166	0	N.D.	
53) 1,3-dichloropropane	0.00	76	0	N.D.	
54) 2-hexanone (MBK)	0.00	43	0	N.D.	
55) dibromochloromethane	0.00	129	0	N.D.	
56) 1,2-dibromoethane	0.00	109	0	N.D.	
57) chlorobenzene	0.00	112	0	N.D.	
58) 1-chlorohexane	10.80	55	3894	1.05 ug/L #	1
59) 1,1,1,2-tetrachloroethane	0.00	131	0	N.D.	
60) ethylbenzene	0.00	91	0	N.D.	
61) m+p-xylene	0.00	106	0	N.D.	
62) o-xylene	0.00	106	0	N.D.	
63) styrene	0.00	104	0	N.D.	
64) bromoform	0.00	173	0	N.D.	
67) isopropylbenzene	0.00	105	0	N.D.	
68) bromobenzene	0.00	77	0	N.D.	
69) 1,1,2,2-tetrachloroethane	0.00	83	0	N.D.	
70) 1,2,3-trichloropropane	0.00	110	0	N.D.	
71) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
72) n-propylbenzene	0.00	120	0	N.D.	
73) 2-chlorotoluene	0.00	126	0	N.D.	
74) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
75) 4-chlorotoluene	0.00	126	0	N.D.	
76) tert-butylbenzene	0.00	119	0	N.D.	
77) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
78) sec-butylbenzene	0.00	105	0	N.D.	
79) 1,3-dichlorobenzene	0.00	146	0	N.D.	
80) 4-isopropyltoluene	0.00	119	0	N.D.	
81) 1,4-dichlorobenzene	0.00	146	0	N.D.	
82) 1,2-dichlorobenzene	0.00	146	0	N.D.	
83) n-butylbenzene	0.00	91	0	N.D.	
84) hexachloroethane	0.00	201	0	N.D.	
85) 1,2-dibromo-3-chloropropan	0.00	157	0	N.D.	
86) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
87) hexachlorobutadiene	0.00	225	0	N.D.	
88) naphthalene	16.54	128	2076	4.78 ug/L #	81
89) 1,2,3-trichlorobenzene	0.00	180	0	N.D.	
90) 2-methylnaphthalene	17.95	142	2192	5.74 ug/L #	86

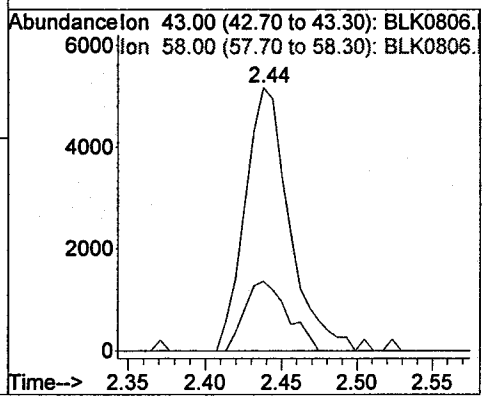
(#) = qualifier out of range (m) = manual integration (+) = signals summed

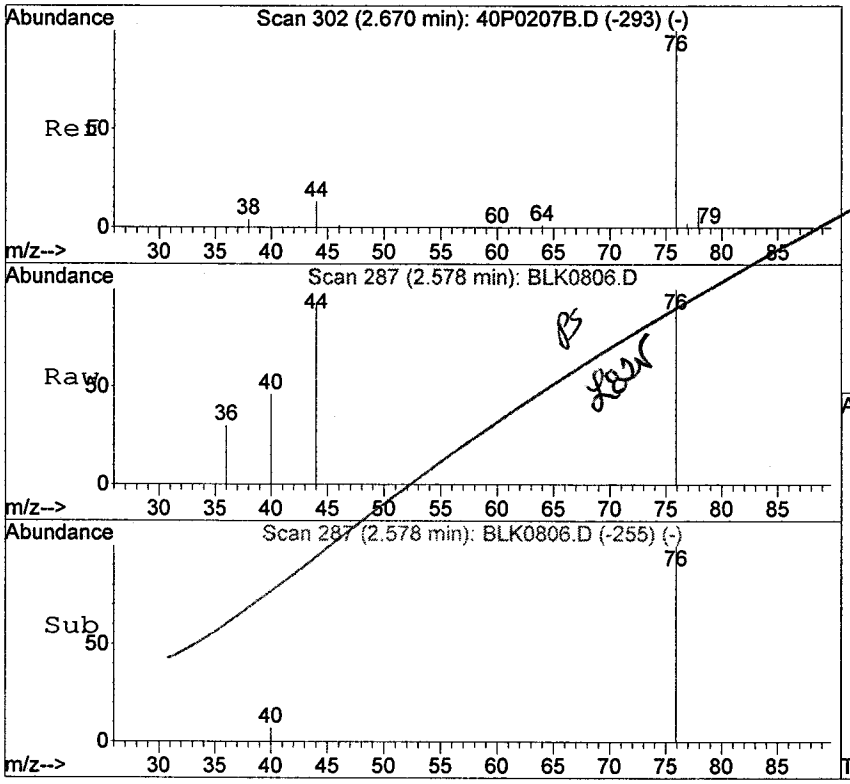


#13
acetone
Concen: 9.78 ug/L
RT: 2.44 min Scan# 264
Delta R.T. -0.01 min
Lab File: BLK0806.D
Acq: 6 Aug 2012 9:57

Tgt Ion: 43 Resp: 10568

Ion	Ratio	Lower	Upper
43	100		
58	25.4	9.7	49.7

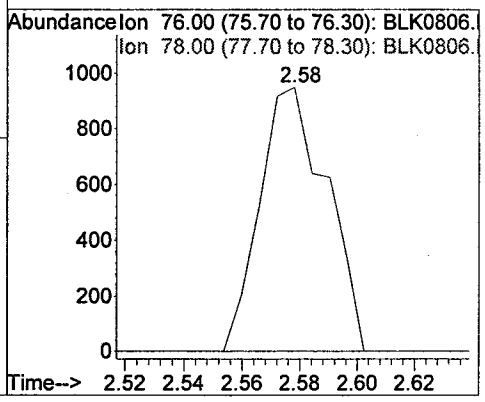


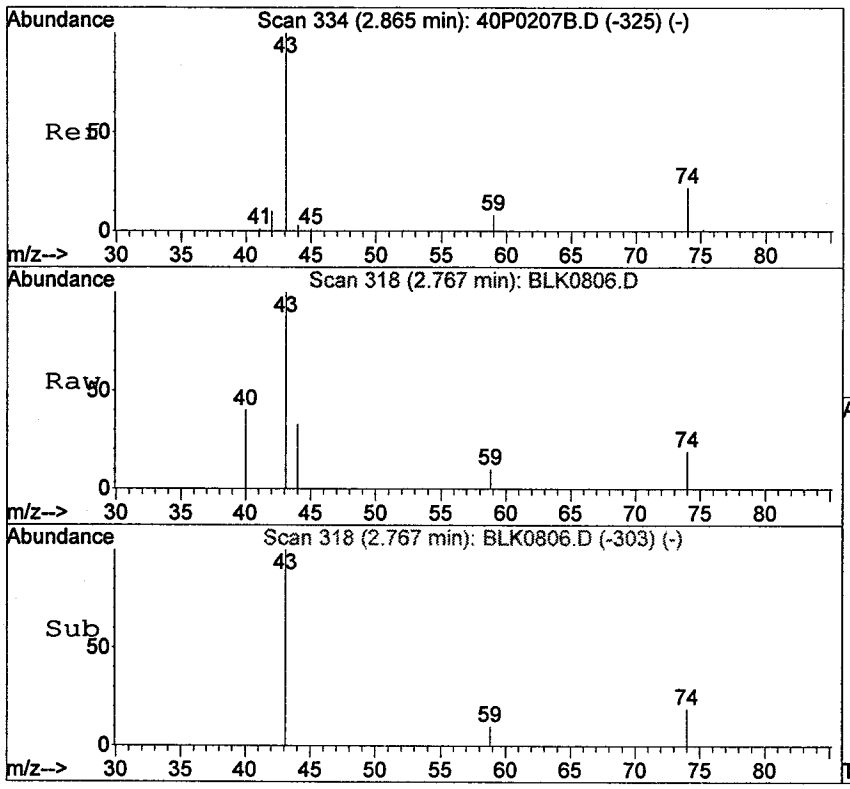


#15
carbon disulfide
Concen: 0.24 ug/L
RT: 2.58 min Scan# 287
Delta R.T. -0.01 min
Lab File: BLK0806.D
Acq: 6 Aug 2012 9:57

Tgt Ion: 76 Resp: 1534

Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.2	10.8#

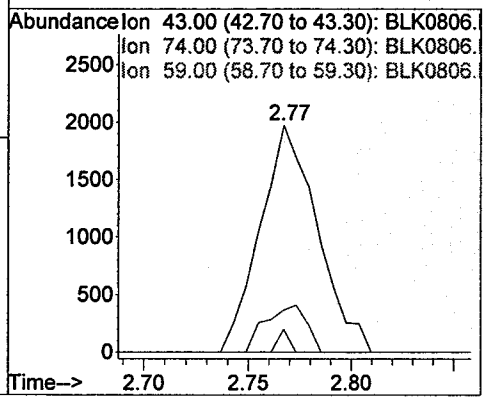


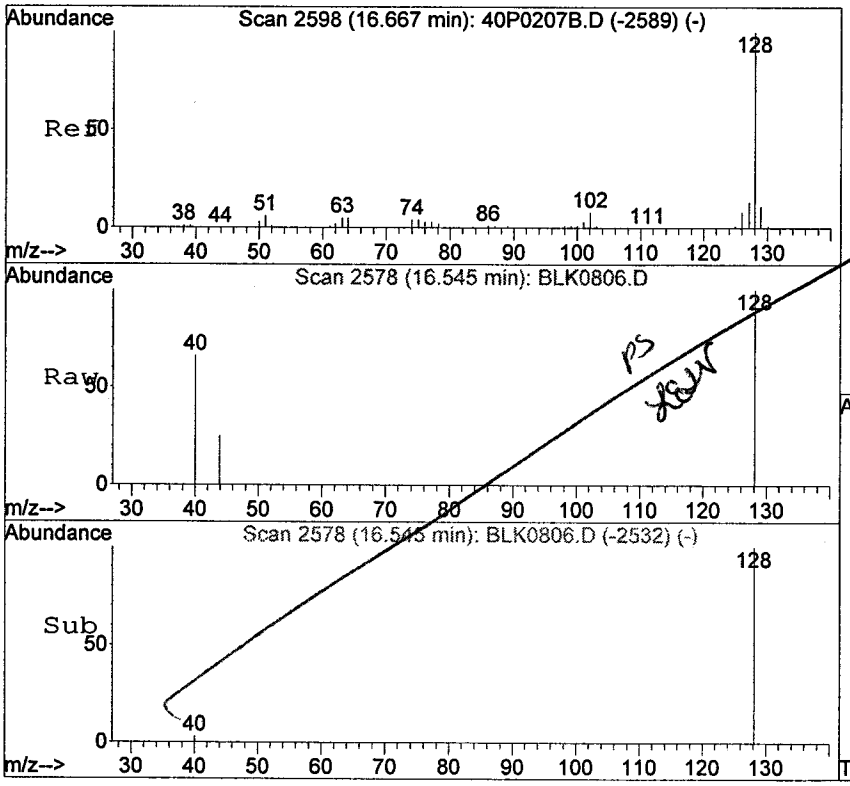


#16
methyl acetate
Concen: 1.57 ug/L
RT: 2.77 min Scan# 318
Delta R.T. -0.01 min
Lab File: BLK0806.D
Acq: 6 Aug 2012 9:57

Tgt Ion: 43 Resp: 3813

Ion	Ratio	Lower	Upper
43	100		
74	0.0	1.9	41.9#
59	0.0	0.0	27.7

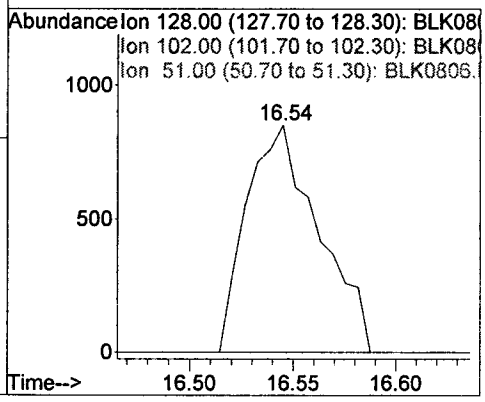




#88
naphthalene
Concen: 4.78 ug/L
RT: 16.54 min Scan# 2578
Delta R.T. 0.03 min
Lab File: BLK0806.D
Acq: 6 Aug 2012 9:57

Tgt Ion:128 Resp: 2076

Ion	Ratio	Lower	Upper
128	100		
102	0.0	0.0	27.2
51	0.0	0.0	25.9



PS

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1210102-BLK1 File ID: BLK0817A.D

Prepared: 08/17/12 12:00 Analyzed: 08/17/12 14:10

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1210102 Sequence: 2H20042 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
67-64-1	Acetone	5.0	ug/L	1.1	5.0	U
71-43-2	Benzene	1.0	ug/L	0.11	1.0	U
75-27-4	Bromodichloromethane	1.0	ug/L	0.13	1.0	U
75-25-2	Bromoform	1.0	ug/L	0.26	1.0	U
74-83-9	Bromomethane	1.0	ug/L	0.21	1.0	U
75-15-0	Carbon Disulfide	5.0	ug/L	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1.0	ug/L	0.26	1.0	U
108-90-7	Chlorobenzene	1.0	ug/L	0.17	1.0	U
75-00-3	Chloroethane	1.0	ug/L	0.14	1.0	U
67-66-3	Chloroform	1.0	ug/L	0.098	1.0	U
74-87-3	Chloromethane	1.0	ug/L	0.29	1.0	U
110-82-7	Cyclohexane	5.0	ug/L	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	ug/L	0.13	1.0	U
124-48-1	Dibromochloromethane	1.0	ug/L	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1.0	ug/L	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	ug/L	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	ug/L	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1.0	ug/L	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1.0	ug/L	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1.0	ug/L	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	ug/L	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	ug/L	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1.0	ug/L	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
100-41-4	Ethylbenzene	1.0	ug/L	0.21	1.0	U
591-78-6	2-Hexanone	5.0	ug/L	0.49	5.0	U
98-82-8	Isopropylbenzene	1.0	ug/L	0.22	1.0	U
79-20-9	Methyl Acetate	0.88	ug/L	0.42	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1.0	ug/L	0.19	1.0	U
108-87-2	Methylcyclohexane	5.0	ug/L	0.37	5.0	U
75-09-2	Methylene Chloride	0.81	ug/L	0.24	1.0	J
78-93-3	2-Butanone (MEK)	5.0	ug/L	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	ug/L	0.40	5.0	U
100-42-5	Styrene	1.0	ug/L	0.20	1.0	U

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1210102-BLK1 File ID: BLK0817A.D

Prepared: 08/17/12 12:00 Analyzed: 08/17/12 14:10

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1210102 Sequence: 2H20042 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
79-34-5	1,1,2,2-Tetrachloroethane	1.0	ug/L	0.26	1.0	U
127-18-4	Tetrachloroethene	1.0	ug/L	0.23	1.0	U
108-88-3	Toluene	1.0	ug/L	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	ug/L	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	ug/L	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	ug/L	0.20	1.0	U
79-01-6	Trichloroethene	1.0	ug/L	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1.0	ug/L	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	ug/L	0.24	1.0	U
75-01-4	Vinyl Chloride	1.0	ug/L	0.21	1.0	U
1330-20-7	Xylene (Total)	3.0	ug/L	0.39	3.0	U

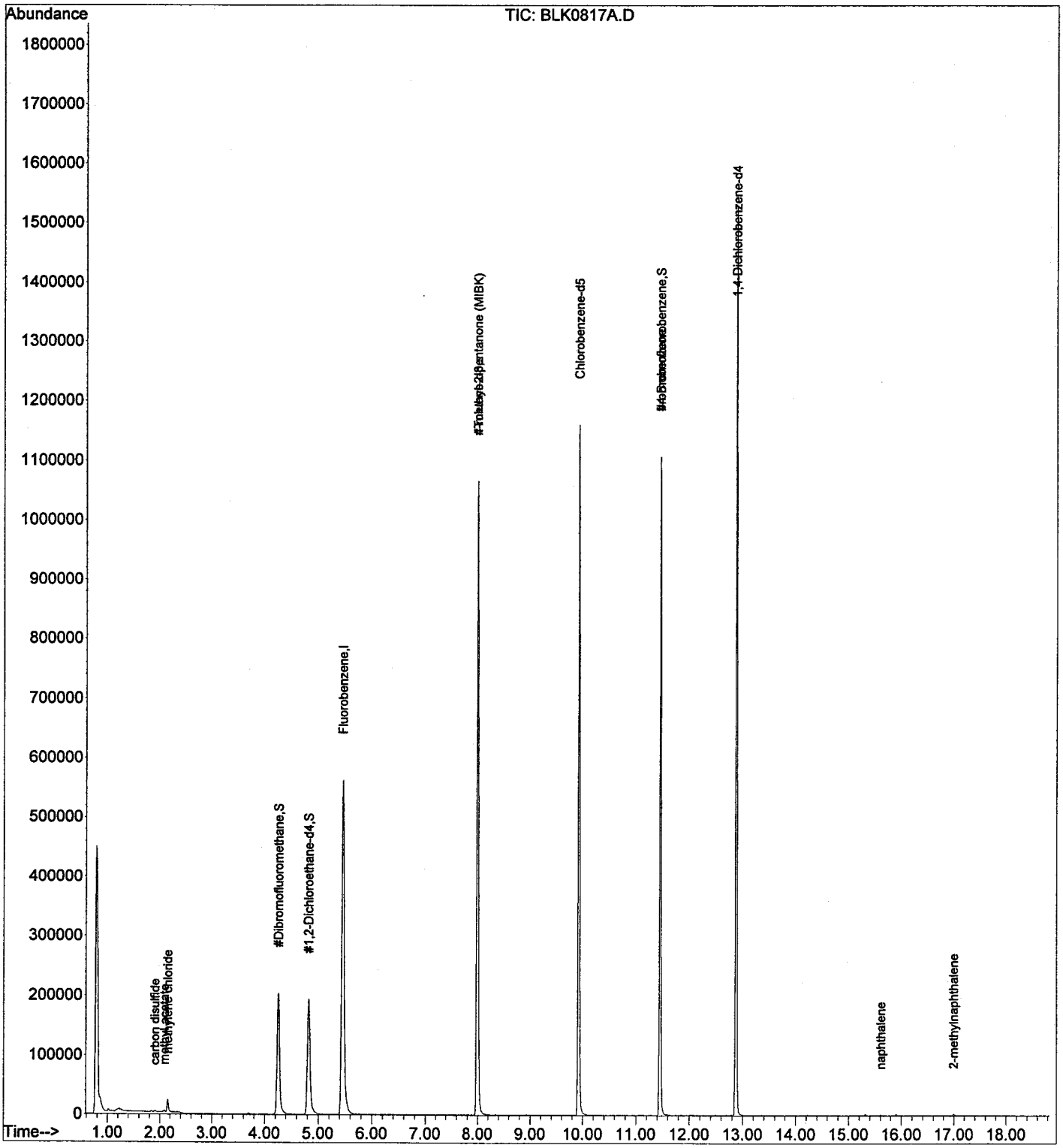
System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
Dibromofluoromethane	40.0	39.7	99	85 - 118	
1,2-Dichloroethane-d4	40.0	39.9	100	87 - 122	
Toluene-d8	40.0	39.7	99	85 - 113	
4-Bromofluorobenzene	40.0	38.9	97	82 - 110	

Internal Standard	Area	RT	% REC	Ref. RT	Q
Fluorobenzene	851141	5.46	99	5.46	
Chlorobenzene-d5	701668	9.93	100	9.93	
1,4-Dichlorobenzene-d4	438321	12.87	93	12.87	

Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-17-12\
Data File : BLK0817A.D
InstName : 323
Acq On : 17 Aug 2012 14:10
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 20 13:13:32 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration



Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-17-12\
Data File : BLK0817A.D
InstName : 323
Acq On : 17 Aug 2012 14:10
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 20 13:13:32 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	851141	40.00 ug/L	0.00 81.35%
50) Chlorobenzene-d5	9.93	117	701668	40.00 ug/L	0.00 84.10%
65) 1,4-Dichlorobenzene-d4	12.87	152	438321	40.00 ug/L	0.00 79.07%

System Monitoring Compounds					
30) #Dibromofluoromethane	4.26	111	204458	39.68 ug/L	0.00
Spiked Amount 40.000			Recovery =	99.20%	
37) #1,2-Dichloroethane-d4	4.82	67	125910	39.92 ug/L	-0.01
Spiked Amount 40.000			Recovery =	99.80%	
46) #Toluene-d8	7.99	98	841813	39.73 ug/L	0.00
Spiked Amount 40.000			Recovery =	99.33%	
64) #4-Bromofluorobenzene	11.45	95	347276	38.94 ug/L	0.00
Spiked Amount 40.000			Recovery =	97.35%	

Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	
3) chloromethane	0.00	50	0	N.D.	
4) vinyl chloride	0.00	62	0	N.D.	
5) bromomethane	0.00	94	0	N.D.	
6) chloroethane	0.00	64	0	N.D.	
7) dichlorofluoromethane	0.00	67	0	N.D.	
8) trichlorofluoromethane	0.00	101	0	N.D.	
9) ethyl ether	0.00	74	0	N.D.	
10) acrolein	0.00	56	0	N.D.	
11) 1,1,2-trichloro-1,2,2-tr	0.00	101	0	N.D.	
12) 1,1-dichloroethene	0.00	96	0	N.D.	
13) acetone	1.84	43	4667	Below Cal #	41
14) iodomethane	0.00	142	0	N.D.	
15) carbon disulfide	1.91	76	2671	0.20 ug/L #	75
16) methyl acetate	2.09	43	2891	0.88 ug/L #	58
17) methylene chloride	2.15	49	12726	0.81 ug/L	94
18) acrylonitrile	0.00	53	0	N.D.	
19) trans-1,2-dichloroethene	0.00	96	0	N.D.	
20) methyl (tert) butyl ethe	0.00	73	0	N.D.	
21) 1,1-dichloroethane	0.00	63	0	N.D.	
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	0.00	77	0	N.D.	
24) cis-1,2-dichloroethene	0.00	96	0	N.D.	
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	0.00	49	0	N.D.	
27) tetrahydrofuran	0.00	71	0	N.D.	
28) chloroform	0.00	83	0	N.D.	
29) 1,1,1-trichloroethane	0.00	97	0	N.D.	
31) cyclohexane	0.00	56	0	N.D.	
32) carbon tetrachloride	0.00	117	0	N.D.	
33) 1,1-dichloropropene	0.00	75	0	N.D.	
34) benzene	0.00	78	0	N.D.	
35) 1,2-dichloroethane	0.00	62	0	N.D.	
36) heptane	0.00	57	0	N.D.	

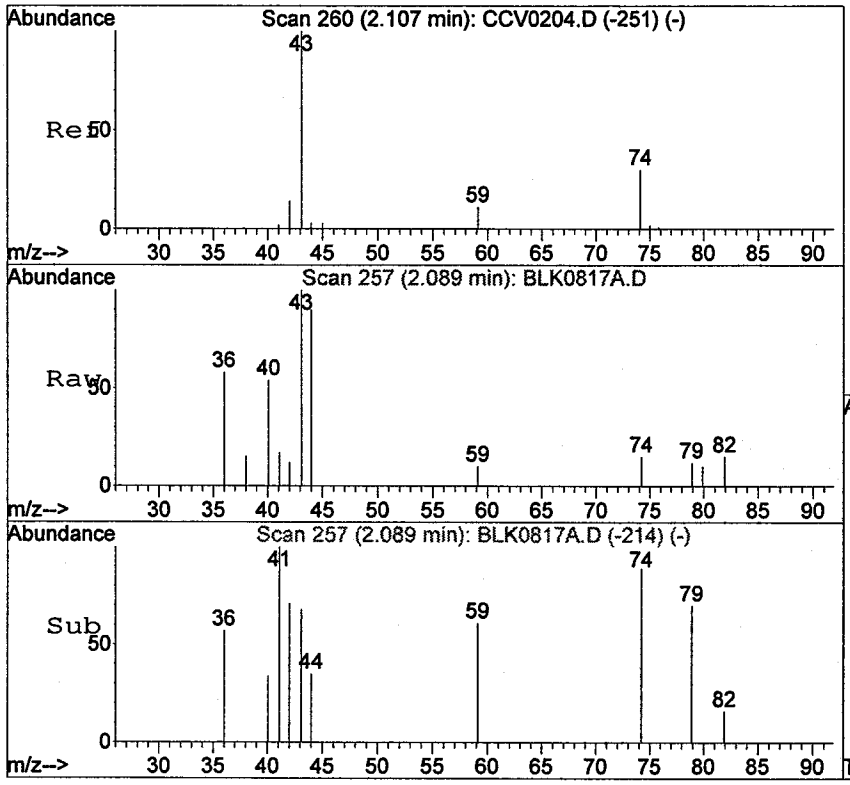
Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-17-12\
Data File : BLK0817A.D
InstName : 323
Acq On : 17 Aug 2012 14:10
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 20 13:13:32 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
38) trichloroethene	0.00	130	0	N.D.	
39) methylcyclohexane	0.00	83	0	N.D.	
40) 1,2-dichloropropane	0.00	63	0	N.D.	
41) dibromomethane	0.00	93	0	N.D.	
42) bromodichloromethane	0.00	83	0	N.D.	
43) 2-chloroehtyl vinyl ethe	0.00	63	0	N.D.	
44) cis-1,3-dichloropropene	0.00	75	0	N.D.	
45) 4-methyl-2-pentanone (MIBK	7.99	43	3764	~~0.92~~ ug/L #	1
47) toluene	0.00	91	0	N.D.	
48) trans-1,3-dichloropropen	0.00	75	0	N.D.	
49) 1,1,2-trichloroethane	0.00	83	0	N.D.	
51) tetrachloroethene	0.00	166	0	N.D.	
52) 1,3-dichloropropane	0.00	76	0	N.D.	
53) 2-hexanone (MBK)	0.00	43	0	N.D.	
54) dibromochloromethane	0.00	129	0	N.D.	
55) 1,2-dibromoethane	0.00	109	0	N.D.	
56) chlorobenzene	0.00	112	0	N.D.	
57) 1-chlorohexane	0.00	55	0	N.D.	
58) 1,1,1,2-tetrachloroethan	0.00	131	0	N.D.	
59) ethylbenzene	0.00	91	0	N.D.	
60) m+p-xylene	0.00	106	0	N.D.	
61) o-xylene	0.00	106	0	N.D.	
62) styrene	0.00	104	0	N.D.	
63) bromoform	0.00	173	0	N.D.	
66) isopropylbenzene	0.00	105	0	N.D.	
67) bromobenzene	11.45	77	1825	~~0.18~~ ug/L #	12
68) 1,1,2,2-tetrachloroethan	0.00	83	0	N.D.	
69) 1,2,3-trichloropropane	0.00	110	0	N.D.	
70) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
71) n-propylbenzene	0.00	120	0	N.D.	
72) 2-chlorotoluene	0.00	126	0	N.D.	
73) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
74) 4-chlorotoluene	0.00	91	0	N.D.	
75) tert-butylbenzene	0.00	119	0	N.D.	
76) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
77) sec-butylbenzene	0.00	105	0	N.D.	
78) 1,3-dichlorobenzene	0.00	146	0	N.D.	
79) 4-isopropyltoluene	0.00	119	0	N.D.	
80) 1,4-dichlorobenzene	0.00	146	0	N.D.	
81) 1,2-dichlorobenzene	0.00	146	0	N.D.	
82) n-butylbenzene	0.00	91	0	N.D.	
83) hexachloroethane	0.00	201	0	N.D.	
84) 1,2-dibromo-3-chloroprop	0.00	157	0	N.D.	
85) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
86) hexachlorobutadiene	0.00	225	0	N.D.	
87) naphthalene	15.61	128	2415	0.18 ug/L #	80
88) 1,2,3-trichlorobenzene	0.00	180	0	~~N.D.~~	
89) 2-methylnaphthalene	17.00	142	1795	2.17 ug/L #	85

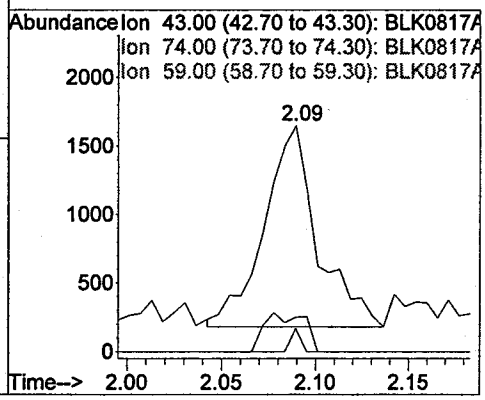
(#) = qualifier out of range (m) = manual integration (+) = signals summed

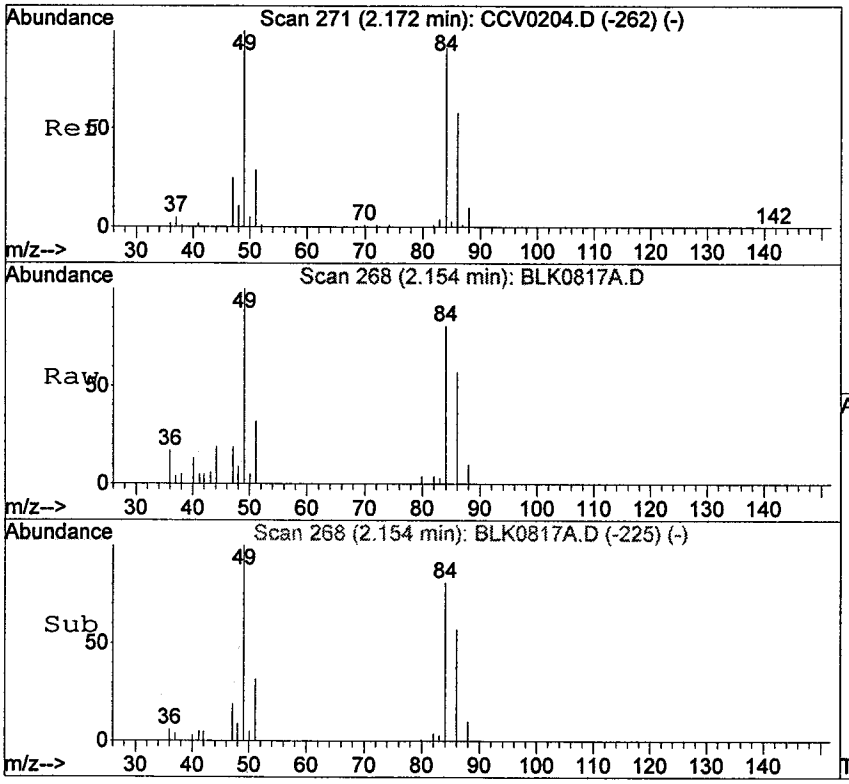


#16
methyl acetate
Concen: 0.88 ug/L
RT: 2.09 min Scan# 257
Delta R.T. 0.00 min
Lab File: BLK0817A.D
Acq: 17 Aug 2012 14:10

Tgt Ion: 43 Resp: 2891

Ion	Ratio	Lower	Upper
43	100		
74	0.0	19.4	29.2#
59	0.0	6.6	9.8#

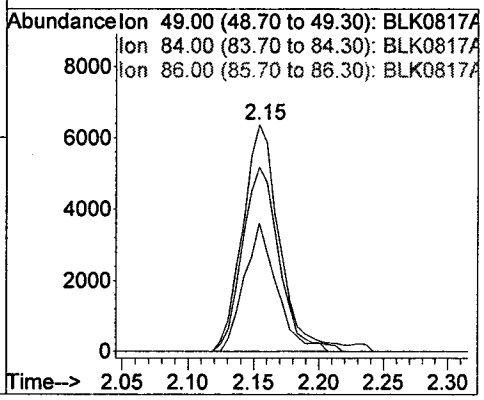




#17
methylene chloride
Concen: 0.81 ug/L
RT: 2.15 min Scan# 268
Delta R.T. 0.00 min
Lab File: BLK0817A.D
Acq: 17 Aug 2012 14:10

Tgt Ion: 49 Resp: 12726

Ion	Ratio	Lower	Upper
49	100		
84	80.2	64.6	104.6
86	49.3	34.2	74.2



METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1210102-BLK2 File ID: BLK0820.D

Prepared: 08/20/12 08:00 Analyzed: 08/20/12 10:07

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1210102 Sequence: 2H20050 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
67-64-1	Acetone	5.0	ug/L	1.1	5.0	U
71-43-2	Benzene	1.0	ug/L	0.11	1.0	U
75-27-4	Bromodichloromethane	1.0	ug/L	0.13	1.0	U
75-25-2	Bromoform	1.0	ug/L	0.26	1.0	U
74-83-9	Bromomethane	1.0	ug/L	0.21	1.0	U
75-15-0	Carbon Disulfide	5.0	ug/L	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1.0	ug/L	0.26	1.0	U
108-90-7	Chlorobenzene	1.0	ug/L	0.17	1.0	U
75-00-3	Chloroethane	1.0	ug/L	0.14	1.0	U
67-66-3	Chloroform	1.0	ug/L	0.098	1.0	U
74-87-3	Chloromethane	1.0	ug/L	0.29	1.0	U
110-82-7	Cyclohexane	5.0	ug/L	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	ug/L	0.13	1.0	U
124-48-1	Dibromochloromethane	1.0	ug/L	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1.0	ug/L	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	ug/L	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	ug/L	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	ug/L	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1.0	ug/L	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1.0	ug/L	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1.0	ug/L	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	ug/L	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	ug/L	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1.0	ug/L	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
100-41-4	Ethylbenzene	1.0	ug/L	0.21	1.0	U
591-78-6	2-Hexanone	5.0	ug/L	0.49	5.0	U
98-82-8	Isopropylbenzene	1.0	ug/L	0.22	1.0	U
79-20-9	Methyl Acetate	5.0	ug/L	0.42	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1.0	ug/L	0.19	1.0	U
108-87-2	Methylcyclohexane	5.0	ug/L	0.37	5.0	U
75-09-2	Methylene Chloride	0.32	ug/L	0.24	1.0	J
78-93-3	2-Butanone (MEK)	5.0	ug/L	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	ug/L	0.40	5.0	U
100-42-5	Styrene	1.0	ug/L	0.20	1.0	U

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM070512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1210102-BLK2 File ID: BLK0820.D

Prepared: 08/20/12 08:00 Analyzed: 08/20/12 10:07

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1210102 Sequence: 2H20050 Calibration: 2H10001 Instrument: 323

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
79-34-5	1,1,2,2-Tetrachloroethane	1.0	ug/L	0.26	1.0	U
127-18-4	Tetrachloroethene	1.0	ug/L	0.23	1.0	U
108-88-3	Toluene	1.0	ug/L	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	ug/L	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	ug/L	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	ug/L	0.20	1.0	U
79-01-6	Trichloroethene	1.0	ug/L	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1.0	ug/L	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	ug/L	0.24	1.0	U
75-01-4	Vinyl Chloride	1.0	ug/L	0.21	1.0	U
1330-20-7	Xylene (Total)	3.0	ug/L	0.39	3.0	U

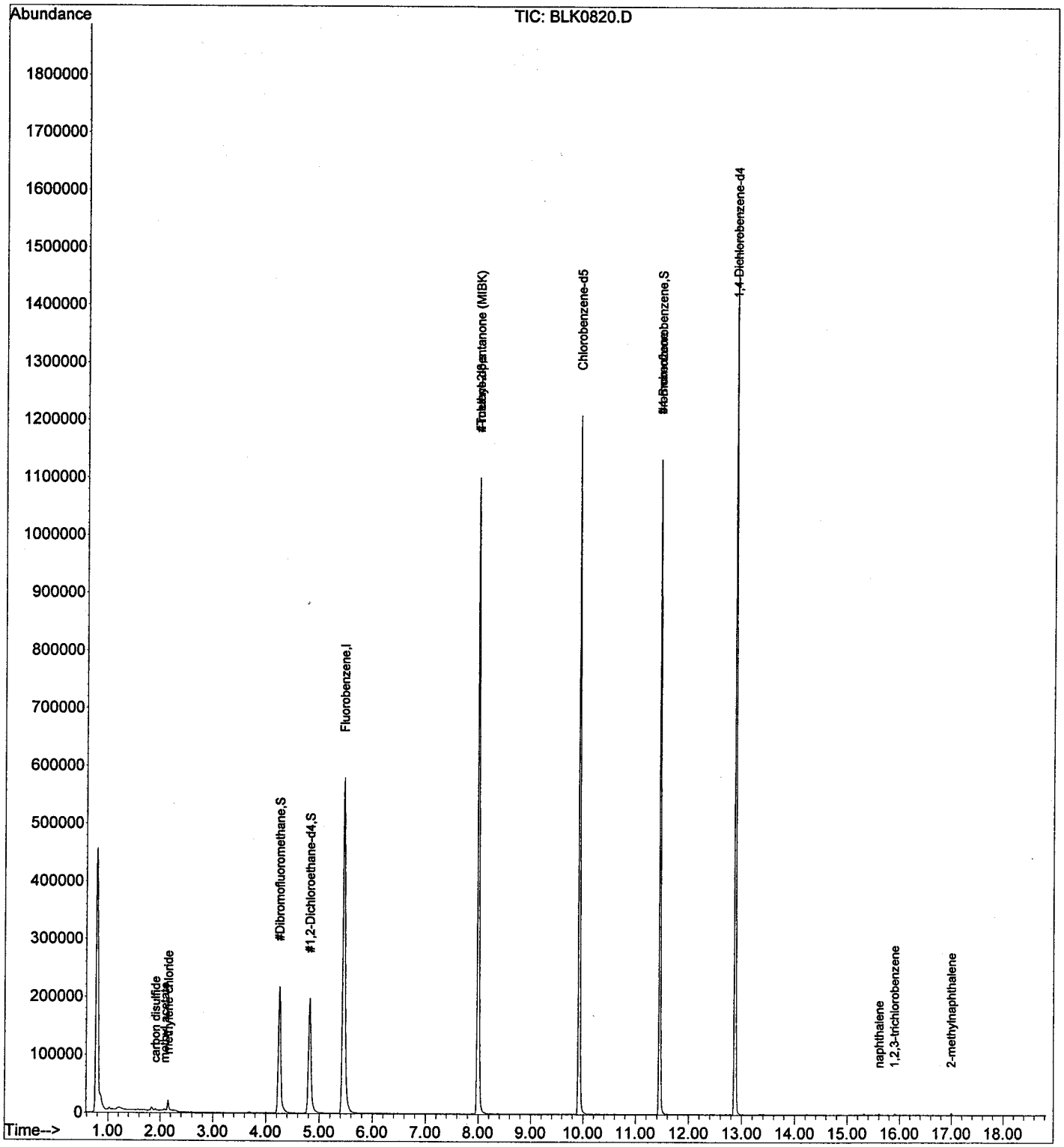
System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
Dibromofluoromethane	40.0	40.4	101	85 - 118	
1,2-Dichloroethane-d4	40.0	38.8	97	87 - 122	
Toluene-d8	40.0	39.7	99	85 - 113	
4-Bromofluorobenzene	40.0	39.4	98	82 - 110	

Internal Standard	Area	RT	% REC	Ref. RT	Q
Fluorobenzene	870568	5.46	97	5.46	
Chlorobenzene-d5	722754	9.93	99	9.93	
1,4-Dichlorobenzene-d4	458355	12.87	93	12.87	

Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-20-12\
Data File : BLK0820.D
InstName : 323
Acq On : 20 Aug 2012 10:07
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 20 14:15:53 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration



Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-20-12\
Data File : BLK0820.D
InstName : 323
Acq On : 20 Aug 2012 10:07
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 20 14:15:53 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	870568	40.00 ug/L	0.00 83.20%
50) Chlorobenzene-d5	9.93	117	722754	40.00 ug/L	0.00 86.63%
65) 1,4-Dichlorobenzene-d4	12.87	152	458355	40.00 ug/L	0.00 82.68%

System Monitoring Compounds					
30) #Dibromofluoromethane	4.25	111	212758	40.37 ug/L	-0.01
Spiked Amount 40.000			Recovery =	100.93%	
37) #1,2-Dichloroethane-d4	4.82	67	125103	38.78 ug/L	-0.02
Spiked Amount 40.000			Recovery =	96.95%	
46) #Toluene-d8	7.99	98	859953	39.68 ug/L	0.00
Spiked Amount 40.000			Recovery =	99.20%	
64) #4-Bromofluorobenzene	11.45	95	361596	39.37 ug/L	0.00
Spiked Amount 40.000			Recovery =	98.42%	

Target Compounds					Qvalue
2) dichlorodifluoromethane	0.00	85	0	N.D.	
3) chloromethane	0.00	50	0	N.D.	
4) vinyl chloride	0.00	62	0	N.D.	
5) bromomethane	0.00	94	0	N.D.	
6) chloroethane	0.00	64	0	N.D.	
7) dichlorofluoromethane	0.00	67	0	N.D.	
8) trichlorofluoromethane	0.00	101	0	N.D.	
9) ethyl ether	0.00	74	0	N.D.	
10) acrolein	0.00	56	0	N.D.	
11) 1,1,2-trichloro-1,2,2-tr	0.00	101	0	N.D.	
12) 1,1-dichloroethene	0.00	96	0	N.D.	
13) acetone	1.84	43	8626	Below Cal	89
14) iodomethane	0.00	142	0	N.D.	
15) carbon disulfide	1.91	76	2731	0.20 ug/L #	75
16) methyl acetate	2.09	43	4329	~~1.29~~ ug/L #	58
17) methylene chloride	2.15	49	9523	0.32 ug/L	98
18) acrylonitrile	0.00	53	0	N.D.	
19) trans-1,2-dichloroethene	0.00	96	0	N.D.	
20) methyl (tert) butyl ethe	0.00	73	0	N.D.	
21) 1,1-dichloroethane	0.00	63	0	N.D.	
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	0.00	77	0	N.D.	
24) cis-1,2-dichloroethene	0.00	96	0	N.D.	
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	0.00	49	0	N.D.	
27) tetrahydrofuran	0.00	71	0	N.D.	
28) chloroform	0.00	83	0	N.D.	
29) 1,1,1-trichloroethane	0.00	97	0	N.D.	
31) cyclohexane	0.00	56	0	N.D.	
32) carbon tetrachloride	0.00	117	0	N.D.	
33) 1,1-dichloropropene	0.00	75	0	N.D.	
34) benzene	0.00	78	0	N.D.	
35) 1,2-dichloroethane	0.00	62	0	N.D.	
36) heptane	0.00	57	0	N.D.	

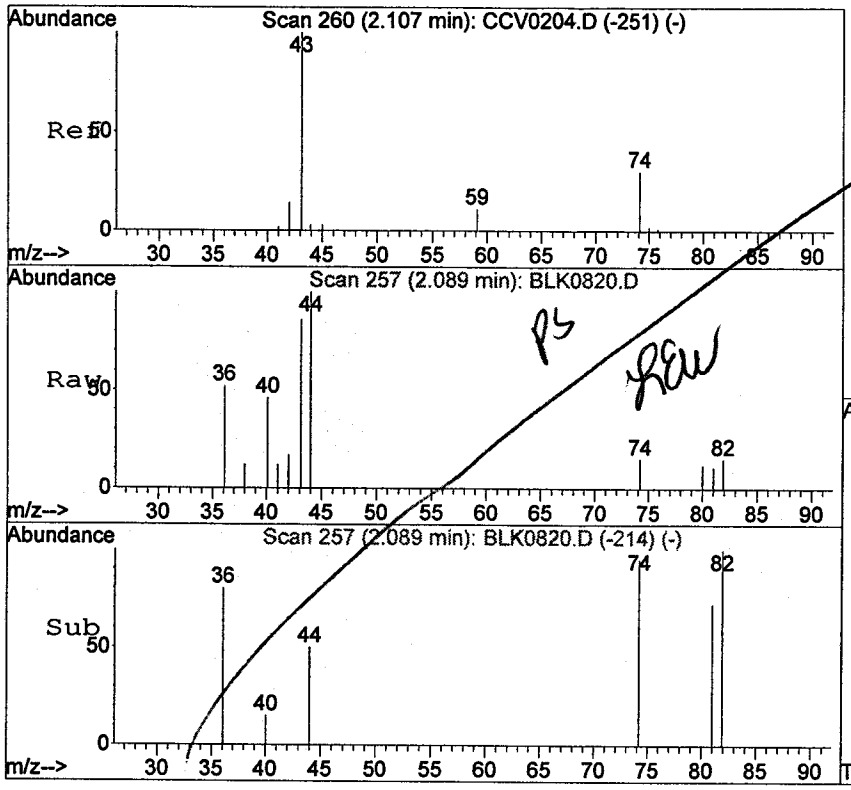
Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-20-12\
Data File : BLK0820.D
InstName : 323
Acq On : 20 Aug 2012 10:07
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 20 14:15:53 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
38) trichloroethene	0.00	130	0	N.D.	
39) methylcyclohexane	0.00	83	0	N.D.	
40) 1,2-dichloropropane	0.00	63	0	N.D.	
41) dibromomethane	0.00	93	0	N.D.	
42) bromodichloromethane	0.00	83	0	N.D.	
43) 2-chloroehtyl vinyl ethe	0.00	63	0	N.D.	
44) cis-1,3-dichloropropene	0.00	75	0	N.D.	
45) 4-methyl-2-pentanone (MIBK	7.99	43	4170	~~(1 <1.00~~ ug/L #	1
47) toluene	0.00	91	0	N.D.	
48) trans-1,3-dichloropropen	0.00	75	0	N.D.	
49) 1,1,2-trichloroethane	0.00	83	0	N.D.	
51) tetrachloroethene	0.00	166	0	N.D.	
52) 1,3-dichloropropane	0.00	76	0	N.D.	
53) 2-hexanone (MBK)	0.00	43	0	N.D.	
54) dibromochloromethane	0.00	129	0	N.D.	
55) 1,2-dibromoethane	0.00	109	0	N.D.	
56) chlorobenzene	0.00	112	0	N.D.	
57) 1-chlorohexane	0.00	55	0	N.D.	
58) 1,1,1,2-tetrachloroethan	0.00	131	0	N.D.	
59) ethylbenzene	0.00	91	0	N.D.	
60) m+p-xylene	0.00	106	0	N.D.	
61) o-xylene	0.00	106	0	N.D.	
62) styrene	0.00	104	0	N.D.	
63) bromoform	0.00	173	0	N.D.	
66) isopropylbenzene	0.00	105	0	N.D.	
67) bromobenzene	11.44	77	1984	0.19 ug/L #	12
68) 1,1,2,2-tetrachloroethan	0.00	83	0	N.D.	
69) 1,2,3-trichloropropane	0.00	110	0	N.D.	
70) 1,4-dichloro-2-butene	0.00	53	0	N.D.	
71) n-propylbenzene	0.00	120	0	N.D.	
72) 2-chlorotoluene	0.00	126	0	N.D.	
73) 1,3,5-trimethylbenzene	0.00	105	0	N.D.	
74) 4-chlorotoluene	0.00	91	0	N.D.	
75) tert-butylbenzene	0.00	119	0	N.D.	
76) 1,2,4-trimethylbenzene	0.00	105	0	N.D.	
77) sec-butylbenzene	0.00	105	0	N.D.	
78) 1,3-dichlorobenzene	0.00	146	0	N.D.	
79) 4-isopropyltoluene	0.00	119	0	N.D.	
80) 1,4-dichlorobenzene	0.00	146	0	N.D.	
81) 1,2-dichlorobenzene	0.00	146	0	N.D.	
82) n-butylbenzene	0.00	91	0	N.D.	
83) hexachloroethane	0.00	201	0	N.D.	
84) 1,2-dibromo-3-chloroprop	0.00	157	0	N.D.	
85) 1,2,4-trichlorobenzene	0.00	180	0	N.D.	
86) hexachlorobutadiene	0.00	225	0	N.D.	
87) naphthalene	15.61	128	2385	0.17 ug/L #	80
88) 1,2,3-trichlorobenzene	15.90	180	1413	0.24 ug/L #	88
89) 2-methylnaphthalene	17.00	142	2009	2.20 ug/L #	77

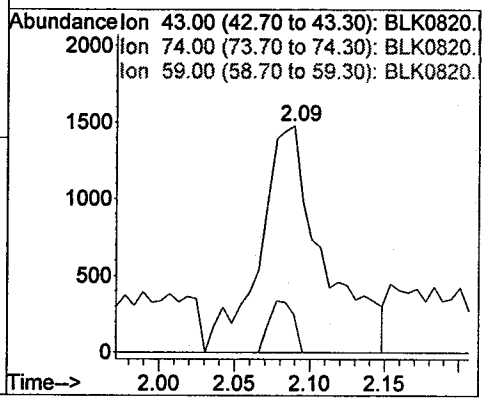
(#) = qualifier out of range (m) = manual integration (+) = signals summed

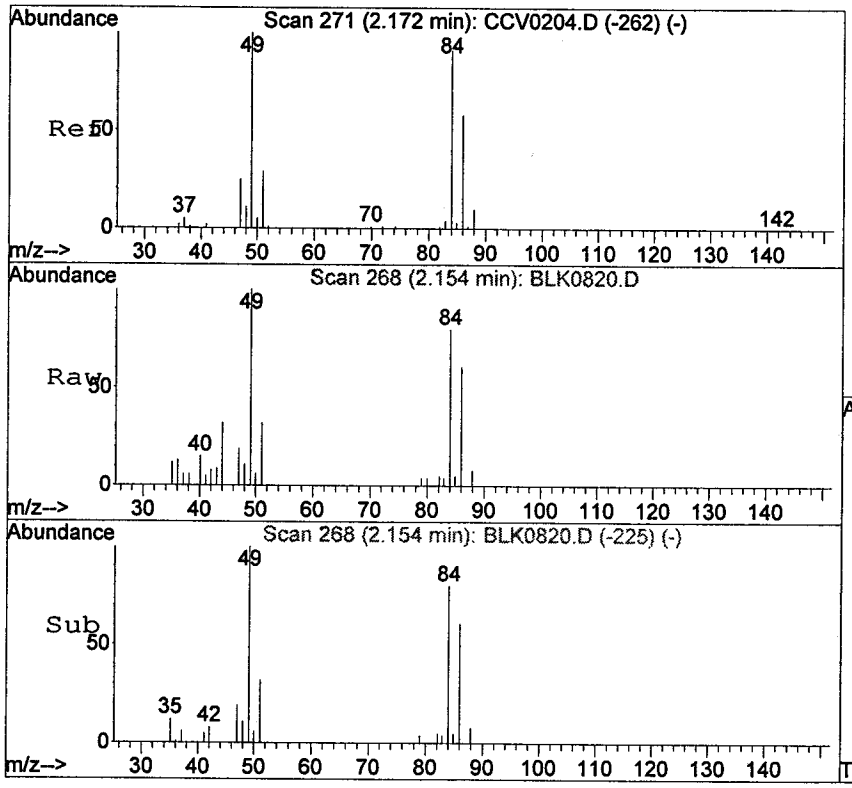


#16
methyl acetate
Concen: 1.29 ug/L
RT: 2.09 min Scan# 257
Delta R.T. 0.00 min
Lab File: BLK0820.D
Acq: 20 Aug 2012 10:07

Tgt Ion: 43 Resp: 4329

Ion	Ratio	Lower	Upper
43	100		
74	0.0	19.4	29.2#
59	0.0	6.6	9.8#

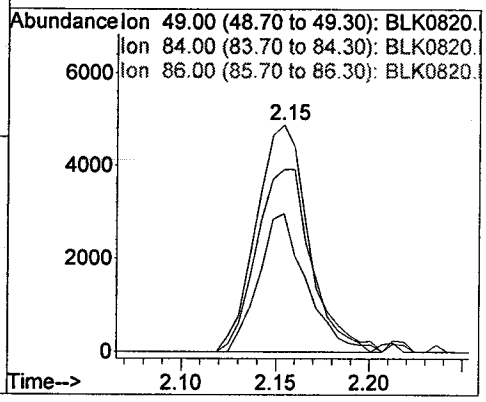




#17
methylene chloride
Concen: 0.32 ug/L
RT: 2.15 min Scan# 268
Delta R.T. 0.00 min
Lab File: BLK0820.D
Acq: 20 Aug 2012 10:07

Tgt Ion: 49 Resp: 9523

Ion	Ratio	Lower	Upper
49	100		
84	83.0	64.6	104.6
86	55.7	34.2	74.2



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

USEPA-8260B

KAFB015

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1208743

SDG: KNM070512

Project: KNM

Laboratory ID: 1208743-MS1

Preparation: 5030B Aqueous Purge & Trap

Initial/Final: 5 mL / 5 mL

Analyte	Spike Added	Sample Conc.	MS Conc.	MS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	ND	44.7	112	80 - 129	ug/L
Chlorobenzene	40.0	ND	43.4	108	80 - 121	ug/L
1,1-Dichloroethene	40.0	ND	45.3	113	74 - 134	ug/L
Toluene	40.0	ND	44.6	112	79 - 129	ug/L
Trichloroethene	40.0	ND	44.6	111	75 - 127	ug/L

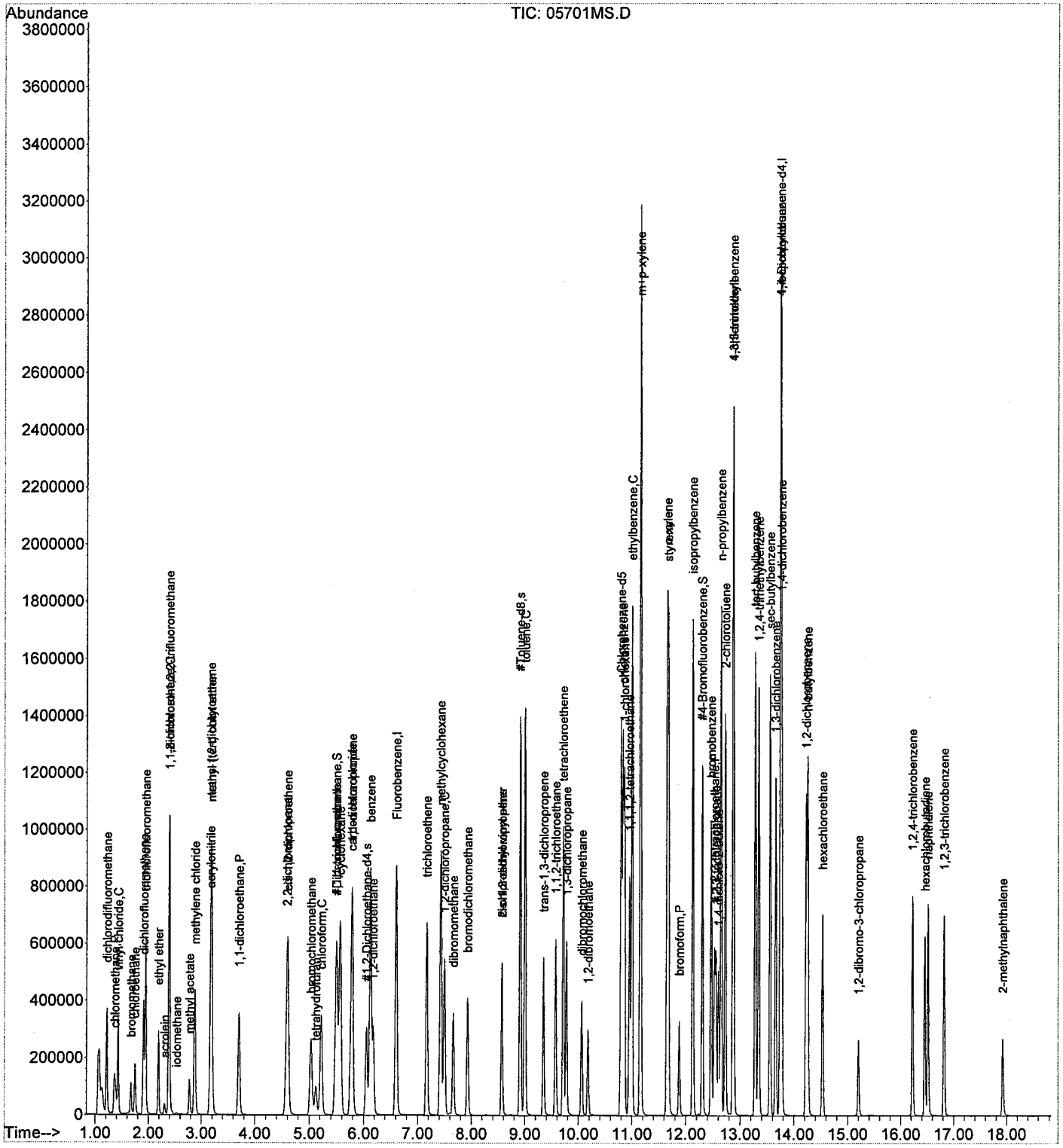
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 05701MS.D
Acq On : 18 Jul 2012 18:54
Operator : DLV
Sample : MS1
Misc : TECH LAW
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 18 19:13:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration



01259

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 05701MS.D
Acq On : 18 Jul 2012 18:54
Operator : DLV
Sample : MS1
Misc : TECH LAW
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 18 19:13:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.61	96	1029310	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	833434	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	496155	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	246037	40.78 ug/L	0.00
Spiked Amount 40.000			Recovery	= 101.95%	
37) #1,2-Dichloroethane-d4	6.05	65	284095	41.35 ug/L	0.00
Spiked Amount 40.000			Recovery	= 103.38%	
47) #Toluene-d8	8.91	98	1037966	39.55 ug/L	0.00
Spiked Amount 40.000			Recovery	= 98.87%	
65) #4-Bromofluorobenzene	12.30	95	420585	40.67 ug/L	0.00
Spiked Amount 40.000			Recovery	= 101.68%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.22	85	316511	44.79 ug/L	99
3) chloromethane	1.36	50	250305	43.80 ug/L	100
4) vinyl chloride	1.43	62	276694	44.78 ug/L	100
5) bromomethane	1.67	94	71621	35.48 ug/L	99
6) chloroethane	1.74	64	151259	45.88 ug/L	99
7) dichlorofluoromethane	1.91	67	383120	45.44 ug/L	100
8) trichlorofluoromethane	1.94	101	397004	47.54 ug/L	100
9) ethyl ether	2.19	74	102801	42.07 ug/L	99
10) acrolein	2.30	56	32446	39.15 ug/L #	99
11) 1,1,2-trichloro-1,2,2-trif	2.39	101	203305	46.27 ug/L	100
12) 1,1-dichloroethene	2.38	96	189119	45.26 ug/L	98
13) acetone	2.45	43	5668	Below Cal #	45
14) iodomethane	2.53	142	6340	7.61 ug/L #	90
15) carbon disulfide	0.00	76	0	N.D.	
16) methyl acetate	2.77	43	159799	32.37 ug/L	100
17) methylene chloride	2.87	49	290237	40.20 ug/L	100
18) acrylonitrile	3.16	53	97222	41.39 ug/L	99
19) trans-1,2-dichloroethene	3.17	96	238882	45.49 ug/L	100
20) methyl (tert) butyl ether	3.19	73	586910	42.79 ug/L	99
21) 1,1-dichloroethane	3.71	63	405894	44.77 ug/L	99
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	4.58	77	259791	43.70 ug/L	100
24) cis-1,2-dichloroethene	4.61	96	255424	44.47 ug/L	100
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	5.03	49	199756	43.26 ug/L	99
27) tetrahydrofuran	5.12	71	34098	39.57 ug/L	97
28) chloroform	5.22	83	409508	44.66 ug/L	100
30) 1,1,1-trichloroethane	5.49	97	359553	46.77 ug/L	98
31) cyclohexane	5.57	56	458064	47.43 ug/L	100
32) carbon tetrachloride	5.77	117	340086	48.38 ug/L	100
33) 1,1-dichloropropene	5.79	75	344355	47.00 ug/L	100
34) benzene	6.13	78	1015025	44.67 ug/L	99
35) 1,2-dichloroethane	6.18	62	316210	44.14 ug/L	100
36) heptane	6.61	57	32047	No Calib #	
38) trichloroethene	7.17	130	292358	44.56 ug/L	100
39) methylcyclohexane	7.42	83	462893	48.25 ug/L	99
40) 1,2-dichloropropane	7.49	63	237034	43.74 ug/L	100
41) dibromomethane	7.66	93	138469	43.65 ug/L	98

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 05701MS.D
Acq On : 18 Jul 2012 18:54
Operator : DLV
Sample : MS1
Misc : TECH LAW
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 18 19:13:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	7.93	83	302764	44.99 ug/L	100
44) 2-chloroethyl vinyl ether	8.57	63	1612	4.11 ug/L #	43
45) cis-1,3-dichloropropene	8.57	75	316568	38.63 ug/L	98
46) 4-methyl-2-pentanone (MIBK	0.00	43	0	N.D.	
48) toluene	9.00	91	1156746	44.60 ug/L	99
49) trans-1,3-dichloropropene	9.35	75	299779	38.64 ug/L	99
50) 1,1,2-trichloroethane	9.57	83	172982	42.74 ug/L	99
52) tetrachloroethene	9.72	166	361707	45.51 ug/L	100
53) 1,3-dichloropropane	9.78	76	371056	43.05 ug/L	100
54) 2-hexanone (MBK)	0.00	43	0	N.D.	
55) dibromochloromethane	10.06	129	233135	43.44 ug/L	100
56) 1,2-dibromoethane	10.18	109	207425	42.72 ug/L	100
57) chlorobenzene	10.83	112	764668	43.35 ug/L	98
58) 1-chlorohexane	10.86	55	274090	46.97 ug/L	94
59) 1,1,1,2-tetrachloroethane	10.95	131	252995	44.72 ug/L	99
60) ethylbenzene	11.00	91	1343527	45.92 ug/L	97
61) m+p-xylene	11.16	106	1063748	90.62 ug/L	96
62) o-xylene	11.65	106	499619	45.95 ug/L	97
63) styrene	11.67	104	853770	45.08 ug/L	96
64) bromoform	11.88	173	170532	37.60 ug/L	100
67) isopropylbenzene	12.13	105	1212673	46.03 ug/L	98
68) bromobenzene	12.47	77	451671	42.00 ug/L	99
69) 1,1,2,2-tetrachloroethane	12.53	83	299243	39.28 ug/L #	99
70) 1,2,3-trichloropropane	12.56	110	100505	40.55 ug/L	97
71) 1,4-dichloro-2-butene	12.60	53	111929	38.18 ug/L	92
72) n-propylbenzene	12.65	120	362097	46.18 ug/L	96
73) 2-chlorotoluene	12.73	126	302472	43.77 ug/L	97
74) 1,3,5-trimethylbenzene	12.88	105	972716	45.21 ug/L	99
75) 4-chlorotoluene	12.87	126	305709	43.54 ug/L	95
76) tert-butylbenzene	13.28	119	862149	46.14 ug/L	98
77) 1,2,4-trimethylbenzene	13.34	105	944142	44.44 ug/L	98
78) sec-butylbenzene	13.55	105	1159326	46.02 ug/L	98
79) 1,3-dichlorobenzene	13.66	146	578949	42.26 ug/L	99
80) 4-isopropyltoluene	13.75	119	966279	44.36 ug/L	98
81) 1,4-dichlorobenzene	13.77	146	587601	40.83 ug/L	99
82) 1,2-dichlorobenzene	14.23	146	543508	41.09 ug/L	98
83) n-butylbenzene	14.25	91	714467	40.92 ug/L	99
84) hexachloroethane	14.53	201	124696	37.99 ug/L #	89
85) 1,2-dibromo-3-chloropropan	15.20	157	89058	38.30 ug/L	98
86) 1,2,4-trichlorobenzene	16.22	180	288354	41.29 ug/L	100
87) hexachlorobutadiene	16.46	225	150701	42.12 ug/L	99
88) naphthalene	16.52	128	665700	35.81 ug/L	99
89) 1,2,3-trichlorobenzene	16.82	180	261125	40.49 ug/L	100
90) 2-methylnaphthalene	17.92	142	165097	34.00 ug/L	100

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

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

USEPA-8260B

KAFB015

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1208743

SDG: KNM070512

Project: KNM

Laboratory ID: 1208743-MSD1

Preparation: 5030B Aqueous Purge & Trap

Initial/Final: 5 mL / 5 mL

Analyte	Spike Added	MSD Conc.	MSD % Rec. #	% RPD #	QC Limits RPD	QC Limits Rec.	Units
Benzene	40.0	44.3	111	0.8	9	80 - 129	ug/L
Chlorobenzene	40.0	42.9	107	1	8	80 - 121	ug/L
1,1-Dichloroethene	40.0	45.3	113	0.02	11	74 - 134	ug/L
Toluene	40.0	43.8	109	2	9	79 - 129	ug/L
Trichloroethene	40.0	44.6	111	0.02	10	75 - 127	ug/L

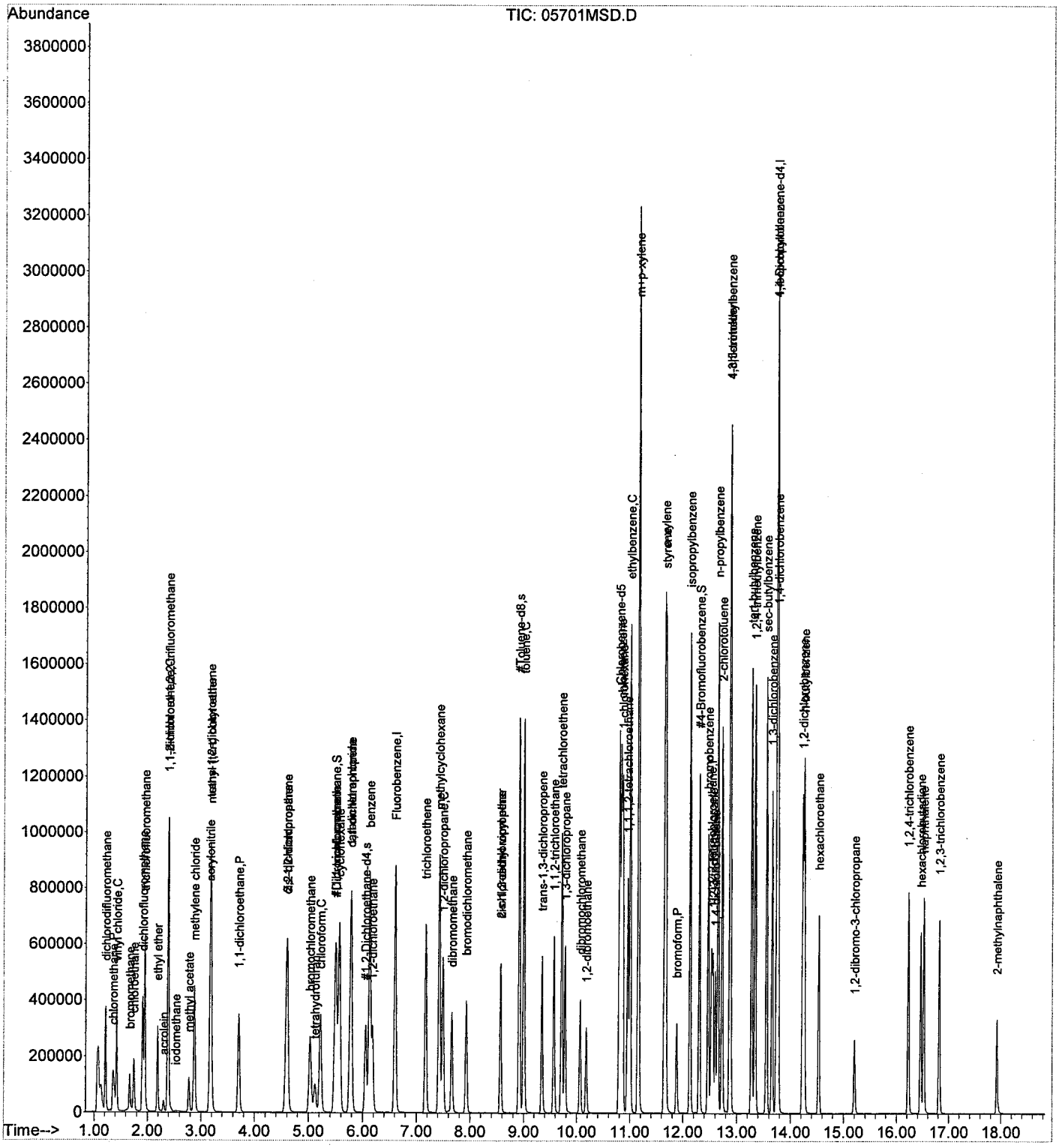
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 05701MSD.D
Acq On : 18 Jul 2012 19:20
Operator : DLV
Sample : MSD1
Misc : TECH LAW
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 18 19:39:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration



01263

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 05701MSD.D
Acq On : 18 Jul 2012 19:20
Operator : DLV
Sample : MSD1
Misc : TECH LAW
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 18 19:39:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.61	96	1039425	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	840017	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	497772	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	247031	40.55 ug/L	0.00
Spiked Amount 40.000			Recovery	= 101.38%	
37) #1,2-Dichloroethane-d4	6.05	65	282651	40.74 ug/L	0.00
Spiked Amount 40.000			Recovery	= 101.85%	
47) #Toluene-d8	8.91	98	1043183	39.36 ug/L	0.00
Spiked Amount 40.000			Recovery	= 98.40%	
65) #4-Bromofluorobenzene	12.30	95	420555	40.35 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.88%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.22	85	316916	44.41 ug/L	99
3) chloromethane	1.36	50	255752	44.32 ug/L	99
4) vinyl chloride	1.43	62	281709	45.15 ug/L	100
5) bromomethane	1.67	94	86547	42.25 ug/L	99
6) chloroethane	1.74	64	154119	46.29 ug/L	100
7) dichlorofluoromethane	1.91	67	389230	45.72 ug/L	100
8) trichlorofluoromethane	1.94	101	399080	47.33 ug/L	99
9) ethyl ether	2.19	74	104175	42.22 ug/L	98
10) acrolein	2.30	56	31339	37.45 ug/L #	97
11) 1,1,2-trichloro-1,2,2-trif	2.39	101	206114	46.45 ug/L	99
12) 1,1-dichloroethene	2.38	96	191039	45.27 ug/L	98
13) acetone	2.45	43	5328	Below Cal	91
14) iodomethane	2.53	142	4198	7.11 ug/L #	88
15) carbon disulfide	0.00	76	0	N.D.	
16) methyl acetate	2.77	43	156395	31.37 ug/L	99
17) methylene chloride	2.87	49	287945	39.49 ug/L	99
18) acrylonitrile	3.16	53	96929	40.87 ug/L	99
19) trans-1,2-dichloroethene	3.17	96	239525	45.16 ug/L	99
20) methyl (tert) butyl ether	3.19	73	593308	42.84 ug/L	100
21) 1,1-dichloroethane	3.71	63	410307	44.81 ug/L	100
22) vinyl acetate	0.00	43	0	N.D.	
23) 2,2-dichloropropane	4.59	77	260964	43.47 ug/L	100
24) cis-1,2-dichloroethene	4.61	96	258430	44.55 ug/L	99
25) 2-butanone (MEK)	0.00	43	0	N.D.	
26) bromochloromethane	5.03	49	199097	42.70 ug/L	100
27) tetrahydrofuran	5.13	71	36087	41.47 ug/L	97
28) chloroform	5.22	83	410170	44.30 ug/L	100
30) 1,1,1-trichloroethane	5.49	97	362672	46.71 ug/L	99
31) cyclohexane	5.57	56	460377	47.21 ug/L	100
32) carbon tetrachloride	5.77	117	339580	47.84 ug/L	99
33) 1,1-dichloropropene	5.79	75	345921	46.75 ug/L	99
34) benzene	6.13	78	1016744	44.31 ug/L	99
35) 1,2-dichloroethane	6.18	62	315910	43.67 ug/L	99
36) heptane	6.60	57	32425	No Calib #	
38) trichloroethene	7.17	130	295112	44.55 ug/L	98
39) methylcyclohexane	7.42	83	457837	47.26 ug/L	99
40) 1,2-dichloropropane	7.49	63	240103	43.88 ug/L	99
41) dibromomethane	7.66	93	138239	43.15 ug/L	99

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\07-18-12\
InstName : 224
Data File : 05701MSD.D
Acq On : 18 Jul 2012 19:20
Operator : DLV
Sample : MSD1
Misc : TECH LAW
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 18 19:39:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	7.93	83	300865	44.27 ug/L	100
44) 2-chloroethyl vinyl ether	8.56	63	1426	4.03 ug/L #	43
45) cis-1,3-dichloropropene	8.57	75	322649	38.97 ug/L	99
46) 4-methyl-2-pentanone (MIBK	0.00	43	0	N.D.	
48) toluene	9.00	91	1145889	43.75 ug/L	98
49) trans-1,3-dichloropropene	9.35	75	304009	38.80 ug/L	99
50) 1,1,2-trichloroethane	9.57	83	170960	41.83 ug/L	100
52) tetrachloroethene	9.72	166	358907	44.81 ug/L	99
53) 1,3-dichloropropane	9.78	76	373334	42.98 ug/L	100
54) 2-hexanone (MBK)	0.00	43	0	N.D.	
55) dibromochloromethane	10.06	129	231891	42.87 ug/L	100
56) 1,2-dibromoethane	10.18	109	208332	42.58 ug/L	99
57) chlorobenzene	10.83	112	762367	42.88 ug/L	98
58) 1-chlorohexane	10.86	55	270540	46.00 ug/L	94
59) 1,1,1,2-tetrachloroethane	10.95	131	251984	44.20 ug/L	99
60) ethylbenzene	11.00	91	1335955	45.30 ug/L	97
61) m+p-xylene	11.16	106	1066430	90.13 ug/L	94
62) o-xylene	11.65	106	495647	45.23 ug/L	97
63) styrene	11.67	104	850183	44.54 ug/L	97
64) bromoform	11.88	173	170435	37.31 ug/L	99
67) isopropylbenzene	12.13	105	1206017	45.63 ug/L	98
68) bromobenzene	12.47	77	452893	41.97 ug/L	99
69) 1,1,2,2-tetrachloroethane	12.53	83	297329	38.90 ug/L #	100
70) 1,2,3-trichloropropane	12.56	110	98855	39.75 ug/L	99
71) 1,4-dichloro-2-butene	12.60	53	110286	37.55 ug/L	94
72) n-propylbenzene	12.65	120	358117	45.52 ug/L	96
73) 2-chlorotoluene	12.73	126	299678	43.23 ug/L	97
74) 1,3,5-trimethylbenzene	12.88	105	965217	44.72 ug/L	99
75) 4-chlorotoluene	12.87	126	301002	42.73 ug/L	97
76) tert-butylbenzene	13.28	119	855490	45.64 ug/L	98
77) 1,2,4-trimethylbenzene	13.34	105	947720	44.47 ug/L	98
78) sec-butylbenzene	13.55	105	1150144	45.51 ug/L	98
79) 1,3-dichlorobenzene	13.66	146	575164	41.85 ug/L	98
80) 4-isopropyltoluene	13.75	119	960814	43.96 ug/L	98
81) 1,4-dichlorobenzene	13.77	146	583227	40.40 ug/L	98
82) 1,2-dichlorobenzene	14.23	146	546301	41.17 ug/L	99
83) n-butylbenzene	14.25	91	723354	41.28 ug/L	99
84) hexachloroethane	14.53	201	124073	37.71 ug/L #	90
85) 1,2-dibromo-3-chloropropan	15.20	157	89966	38.56 ug/L	97
86) 1,2,4-trichlorobenzene	16.22	180	296989	42.39 ug/L	100
87) hexachlorobutadiene	16.46	225	154328	43.00 ug/L	99
88) naphthalene	16.51	128	708020	37.78 ug/L	99
89) 1,2,3-trichlorobenzene	16.82	180	268178	41.45 ug/L	99
90) 2-methylnaphthalene	17.92	142	192532	39.15 ug/L	100

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

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

USEPA-8260B

106051

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1209584

SDG: KNM070512

Project: KNM

Laboratory ID: 1209584-MS1

Preparation: 5030B Aqueous Purge & Trap

Initial/Final: 5 mL / 5 mL

Analyte	Spike Added	Sample Conc.	MS Conc.	MS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	ND	46.0	115	80 - 129	ug/L
Chlorobenzene	40.0	ND	42.4	106	80 - 121	ug/L
1,1-Dichloroethene	40.0	ND	47.5	119	74 - 134	ug/L
Toluene	40.0	ND	44.9	112	79 - 129	ug/L
Trichloroethene	40.0	ND	46.0	115	75 - 127	ug/L

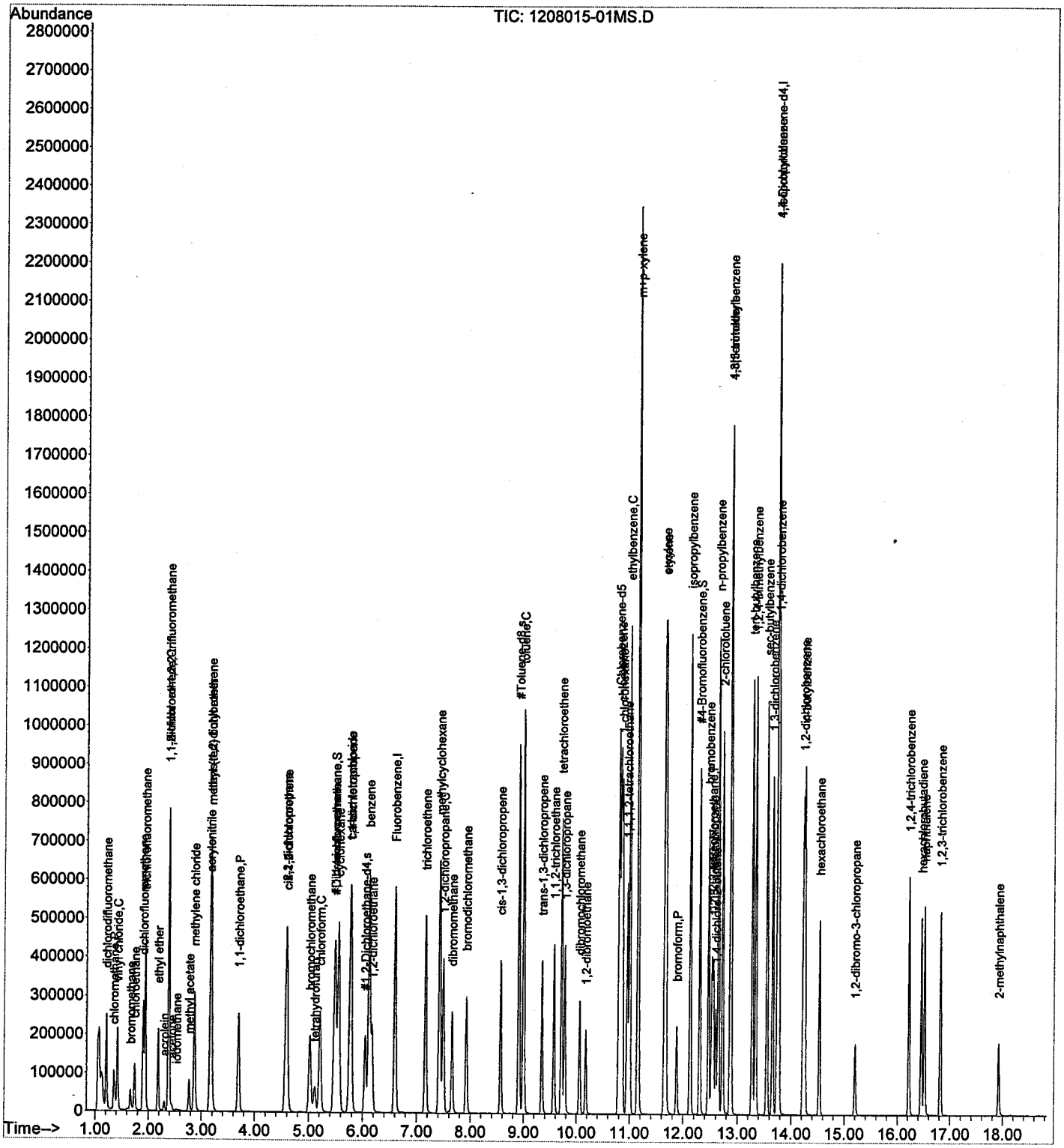
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208015-01MS.D
Acq On : 6 Aug 2012 15:44
Operator : DLV
Sample : MS1
Misc : TECH LAW
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 06 16:03:28 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration



01267

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208015-01MS.D
Acq On : 6 Aug 2012 15:44
Operator : DLV
Sample : MS1
Misc : TECH LAW
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 06 16:03:28 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.60	96	687317	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	603590	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.74	152	362753	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.50	111	169101	40.45	ug/L	0.00
Spiked Amount 40.000			Recovery	=	101.13%	
37) #1,2-Dichloroethane-d4	6.05	65	191665	38.26	ug/L	0.00
Spiked Amount 40.000			Recovery	=	95.65%	
47) #Toluene-d8	8.91	98	710538	40.30	ug/L	0.00
Spiked Amount 40.000			Recovery	=	100.75%	
65) #4-Bromofluorobenzene	12.30	95	303178	39.78	ug/L	0.00
Spiked Amount 40.000			Recovery	=	99.45%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.21	85	224339	45.00	ug/L	100
3) chloromethane	1.35	50	148385	38.36	ug/L	99
4) vinyl chloride	1.42	62	188325	44.03	ug/L	100
5) bromomethane	1.66	94	41431	27.35	ug/L	97
6) chloroethane	1.74	64	109186	46.31	ug/L	99
7) dichlorofluoromethane	1.90	67	280627	44.14	ug/L	100
8) trichlorofluoromethane	1.94	101	294168	45.11	ug/L	100
9) ethyl ether	2.18	74	75865	44.76	ug/L	97
10) acrolein	2.30	56	19596	37.39	ug/L #	95
11) 1,1,2-trichloro-1,2,2-trif	2.38	101	153851	47.41	ug/L	99
12) 1,1-dichloroethene	2.38	96	142811	47.50	ug/L	97
13) acetone	2.44	43	15629	13.74	ug/L	92
14) iodomethane	2.53	142	6584	7.50	ug/L #	90
15) carbon disulfide	0.00	76	0	N.D.		
16) methyl acetate	2.77	43	101996	40.01	ug/L	98
17) methylene chloride	2.86	49	205502	42.94	ug/L	97
18) acrylonitrile	3.15	53	61819	43.21	ug/L	98
19) trans-1,2-dichloroethene	3.16	96	177848	46.43	ug/L	100
20) methyl (tert) butyl ether	3.18	73	435892	45.06	ug/L	99
21) 1,1-dichloroethane	3.70	63	299485	45.38	ug/L	99
22) vinyl acetate	0.00	43	0	N.D.		
23) 2,2-dichloropropane	4.58	77	206820	43.83	ug/L	99
24) cis-1,2-dichloroethene	4.60	96	191980	46.51	ug/L	100
25) 2-butanone (MEK)	0.00	43	0	N.D.		
26) bromochloromethane	5.02	49	139830	44.22	ug/L	95
27) tetrahydrofuran	5.11	71	24541	45.12	ug/L	95
28) chloroform	5.22	83	312093	45.11	ug/L	99
30) 1,1,1-trichloroethane	5.49	97	279012	45.41	ug/L	99
31) cyclohexane	5.56	56	333812	49.83	ug/L	98
32) carbon tetrachloride	5.77	117	262758	46.62	ug/L	99
33) 1,1-dichloropropene	5.78	75	266488	47.76	ug/L	99
34) benzene	6.12	78	744655	45.99	ug/L	98
35) 1,2-dichloroethane	6.17	62	236306	42.73	ug/L	99
36) heptane	6.60	57	20637	No Calib	#	
38) trichloroethene	7.17	130	224591	46.03	ug/L	99
39) methylcyclohexane	7.42	83	337935	50.69	ug/L	99
40) 1,2-dichloropropane	7.49	63	168930	45.39	ug/L	99
41) dibromomethane	7.66	93	99323	43.87	ug/L	97

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208015-01MS.D
Acq On : 6 Aug 2012 15:44
Operator : DLV
Sample : MS1
Misc : TECH LAW
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 06 16:03:28 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	7.92	83	225019	44.53 ug/L	100
44) 2-chloroethyl vinyl ether	0.00	63	0	N.D.	
45) cis-1,3-dichloropropene	8.56	75	236517	45.70 ug/L	99
46) 4-methyl-2-pentanone (MIBK	0.00	43	0	N.D.	
48) toluene	9.00	91	844201	44.92 ug/L	98
49) trans-1,3-dichloropropene	9.35	75	220437	39.49 ug/L	99
50) 1,1,2-trichloroethane	9.57	83	122758	44.68 ug/L	99
52) tetrachloroethene	9.72	166	282902	44.28 ug/L	100
53) 1,3-dichloropropane	9.78	76	269724	42.44 ug/L	100
54) 2-hexanone (MBK)	0.00	43	0	N.D.	
55) dibromochloromethane	10.06	129	174302	42.56 ug/L	100
56) 1,2-dibromoethane	10.17	109	153146	42.97 ug/L	99
57) chlorobenzene	10.83	112	555668	42.43 ug/L	98
58) 1-chlorohexane	10.86	55	195607	43.24 ug/L	94
59) 1,1,1,2-tetrachloroethane	10.95	131	187729	43.06 ug/L	99
60) ethylbenzene	11.00	91	977768	43.52 ug/L	97
61) m+p-xylene	11.16	106	770733	88.03 ug/L	94
62) o-xylene	11.65	106	359778	44.91 ug/L	97
63) styrene	11.67	104	608412	43.73 ug/L	96
64) bromoform	11.88	173	122636	36.75 ug/L	99
67) isopropylbenzene	12.13	105	870011	43.24 ug/L	98
68) bromobenzene	12.47	77	325300	40.16 ug/L	97
69) 1,1,2,2-tetrachloroethane	12.53	83	206437	41.21 ug/L #	100
70) 1,2,3-trichloropropane	12.56	110	70253	39.26 ug/L	98
71) 1,4-dichloro-2-butene	12.60	53	59743	29.51 ug/L	92
72) n-propylbenzene	12.65	120	251723	42.73 ug/L	95
73) 2-chlorotoluene	12.73	126	216046	42.32 ug/L	96
74) 1,3,5-trimethylbenzene	12.88	105	692846	42.38 ug/L	99
75) 4-chlorotoluene	12.87	126	219579	42.10 ug/L	96
76) tert-butylbenzene	13.28	119	616037	43.44 ug/L	98
77) 1,2,4-trimethylbenzene	13.34	105	689339	42.63 ug/L	98
78) sec-butylbenzene	13.55	105	815134	43.12 ug/L	98
79) 1,3-dichlorobenzene	13.66	146	430378	41.80 ug/L	99
80) 4-isopropyltoluene	13.75	119	689797	42.35 ug/L	98
81) 1,4-dichlorobenzene	13.77	146	433493	40.42 ug/L	98
82) 1,2-dichlorobenzene	14.23	146	407922	42.49 ug/L	98
83) n-butylbenzene	14.25	91	512805	43.38 ug/L	98
84) hexachloroethane	14.53	201	90422	35.95 ug/L #	91
85) 1,2-dibromo-3-chloropropan	15.20	157	64848	38.11 ug/L	99
86) 1,2,4-trichlorobenzene	16.22	180	235771	46.41 ug/L	99
87) hexachlorobutadiene	16.46	225	127362	45.00 ug/L	99
88) naphthalene	16.51	128	491603	39.15 ug/L	99
89) 1,2,3-trichlorobenzene	16.82	180	203926	45.44 ug/L	99
90) 2-methylnaphthalene	17.92	142	111610	36.25 ug/L	99

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

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

USEPA-8260B

106051

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1209584

SDG: KNM070512

Project: KNM

Laboratory ID: 1209584-MSD1

Preparation: 5030B Aqueous Purge & Trap

Initial/Final: 5 mL / 5 mL

Analyte	Spike Added	MSD Conc.	MSD % Rec. #	% RPD #	QC Limits RPD	QC Limits Rec.	Units
Benzene	40.0	44.4	111	4	9	80 - 129	ug/L
Chlorobenzene	40.0	41.5	104	2	8	80 - 121	ug/L
1,1-Dichloroethene	40.0	46.8	117	1	11	74 - 134	ug/L
Toluene	40.0	43.6	109	3	9	79 - 129	ug/L
Trichloroethene	40.0	44.7	112	3	10	75 - 127	ug/L

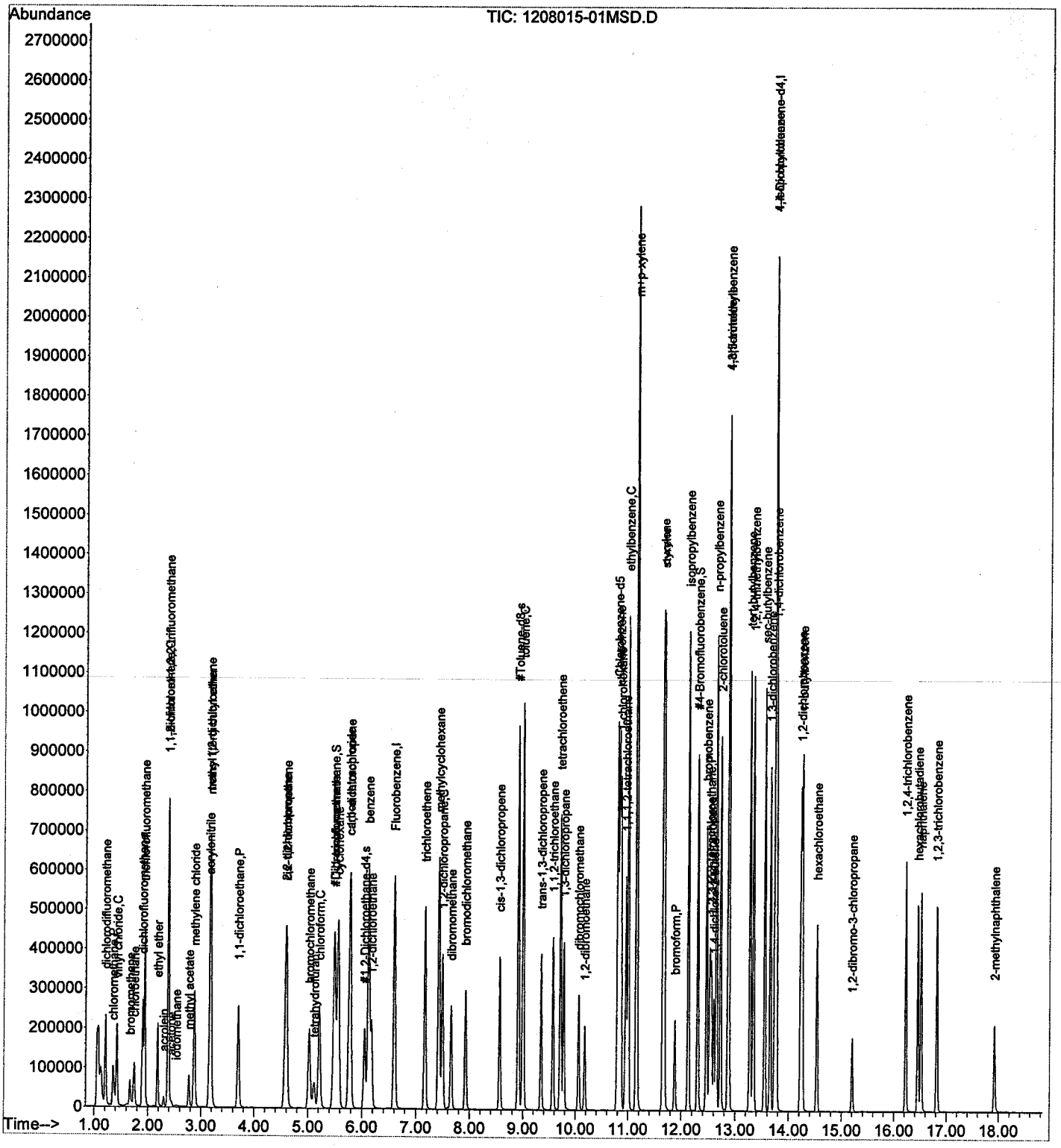
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208015-01MSD.D
Acq On : 6 Aug 2012 16:11
Operator : DLV
Sample : MSD1
Misc : TECH LAW
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 06 16:30:15 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208015-01MSD.D
Acq On : 6 Aug 2012 16:11
Operator : DLV
Sample : MSD1
Misc : TECH LAW
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 06 16:30:15 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.60	96	698110	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.80	117	601435	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.74	152	359098	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	5.50	111	170326	40.11	ug/L	0.00
Spiked Amount 40.000			Recovery	=	100.28%	
37) #1,2-Dichloroethane-d4	6.05	65	191325	37.60	ug/L	0.00
Spiked Amount 40.000			Recovery	=	94.00%	
47) #Toluene-d8	8.91	98	719959	40.21	ug/L	0.00
Spiked Amount 40.000			Recovery	=	100.52%	
65) #4-Bromofluorobenzene	12.30	95	305716	40.26	ug/L	0.00
Spiked Amount 40.000			Recovery	=	100.65%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.21	85	219916	43.43	ug/L	99
3) chloromethane	1.35	50	152202	38.74	ug/L	100
4) vinyl chloride	1.42	62	186476	42.92	ug/L	100
5) bromomethane	1.66	94	51279	33.33	ug/L	100
6) chloroethane	1.74	64	107024	44.64	ug/L	99
7) dichlorofluoromethane	1.90	67	276833	42.87	ug/L	99
8) trichlorofluoromethane	1.94	101	291032	43.94	ug/L	100
9) ethyl ether	2.18	74	73047	42.44	ug/L	99
10) acrolein	2.30	56	20429	38.37	ug/L #	99
11) 1,1,2-trichloro-1,2,2-trif	2.38	101	151674	46.02	ug/L	99
12) 1,1-dichloroethene	2.38	96	143040	46.84	ug/L	98
13) acetone	2.44	43	11124	9.63	ug/L	91
14) iodomethane	2.52	142	5467	7.11	ug/L #	85
15) carbon disulfide	0.00	76	0	N.D.		
16) methyl acetate	2.77	43	100156	38.68	ug/L	100
17) methylene chloride	2.87	49	200639	41.20	ug/L	96
18) acrylonitrile	3.15	53	61457	42.30	ug/L	98
19) trans-1,2-dichloroethene	3.16	96	175311	45.06	ug/L	99
20) methyl (tert) butyl ether	3.18	73	429845	43.75	ug/L	99
21) 1,1-dichloroethane	3.70	63	297321	44.36	ug/L	100
22) vinyl acetate	0.00	43	0	N.D.		
23) 2,2-dichloropropane	4.58	77	206218	43.03	ug/L	100
24) cis-1,2-dichloroethene	4.60	96	193152	46.07	ug/L	97
25) 2-butanone (MEK)	0.00	43	0	N.D.		
26) bromochloromethane	5.02	49	138153	43.01	ug/L	95
27) tetrahydrofuran	5.11	71	23998	43.44	ug/L	97
28) chloroform	5.21	83	307336	43.74	ug/L	99
30) 1,1,1-trichloroethane	5.49	97	278515	44.63	ug/L	99
31) cyclohexane	5.57	56	326661	48.01	ug/L	97
32) carbon tetrachloride	5.77	117	261949	45.76	ug/L	100
33) 1,1-dichloropropene	5.78	75	261390	46.12	ug/L	100
34) benzene	6.12	78	730139	44.40	ug/L	98
35) 1,2-dichloroethane	6.18	62	230706	41.07	ug/L	99
36) heptane	6.60	57	21045	No Calib	#	
38) trichloroethene	7.17	130	221725	44.74	ug/L	99
39) methylcyclohexane	7.42	83	326674	48.24	ug/L	99
40) 1,2-dichloropropane	7.49	63	165849	43.87	ug/L	99
41) dibromomethane	7.66	93	99251	43.16	ug/L	98

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : 1208015-01MSD.D
Acq On : 6 Aug 2012 16:11
Operator : DLV
Sample : MSD1
Misc : TECH LAW
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 06 16:30:15 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	7.92	83	220803	43.02 ug/L	100
44) 2-chloroethyl vinyl ether	0.00	63	0	N.D.	
45) cis-1,3-dichloropropene	8.56	75	234169	44.55 ug/L	99
46) 4-methyl-2-pentanone (MIBK	0.00	43	0	N.D.	
48) toluene	9.00	91	831373	43.56 ug/L	98
49) trans-1,3-dichloropropene	9.35	75	218482	38.60 ug/L	99
50) 1,1,2-trichloroethane	9.57	83	120997	43.36 ug/L	99
52) tetrachloroethene	9.72	166	278656	43.77 ug/L	99
53) 1,3-dichloropropane	9.78	76	263544	41.61 ug/L	100
54) 2-hexanone (MBK)	0.00	43	0	N.D.	
55) dibromochloromethane	10.06	129	170633	41.81 ug/L	99
56) 1,2-dibromoethane	10.17	109	148969	41.95 ug/L	100
57) chlorobenzene	10.83	112	542190	41.54 ug/L	98
58) 1-chlorohexane	10.86	55	193628	42.95 ug/L	94
59) 1,1,1,2-tetrachloroethane	10.95	131	185109	42.61 ug/L	99
60) ethylbenzene	11.00	91	953411	42.59 ug/L	97
61) m+p-xylene	11.16	106	753125	86.33 ug/L	95
62) o-xylene	11.65	106	349521	43.78 ug/L	98
63) styrene	11.67	104	593544	42.82 ug/L	96
64) bromoform	11.88	173	120896	36.39 ug/L	99
67) isopropylbenzene	12.13	105	852793	42.82 ug/L	98
68) bromobenzene	12.47	77	317519	39.60 ug/L	97
69) 1,1,2,2-tetrachloroethane	12.53	83	202975	40.93 ug/L #	99
70) 1,2,3-trichloropropane	12.56	110	68805	38.85 ug/L	99
71) 1,4-dichloro-2-butene	12.60	53	60704	30.18 ug/L	93
72) n-propylbenzene	12.65	120	247647	42.47 ug/L	94
73) 2-chlorotoluene	12.73	126	211101	41.77 ug/L	96
74) 1,3,5-trimethylbenzene	12.88	105	677575	41.87 ug/L	100
75) 4-chlorotoluene	12.87	126	215126	41.66 ug/L	94
76) tert-butylbenzene	13.28	119	600840	42.80 ug/L	98
77) 1,2,4-trimethylbenzene	13.34	105	671981	41.98 ug/L	98
78) sec-butylbenzene	13.55	105	797405	42.62 ug/L	98
79) 1,3-dichlorobenzene	13.66	146	420678	41.27 ug/L	99
80) 4-isopropyltoluene	13.75	119	669910	41.55 ug/L	97
81) 1,4-dichlorobenzene	13.77	146	426450	40.16 ug/L	99
82) 1,2-dichlorobenzene	14.23	146	398012	41.88 ug/L	98
83) n-butylbenzene	14.25	91	501519	42.86 ug/L	98
84) hexachloroethane	14.53	201	88761	35.69 ug/L #	90
85) 1,2-dibromo-3-chloropropan	15.20	157	63572	37.78 ug/L	99
86) 1,2,4-trichlorobenzene	16.22	180	235780	46.89 ug/L	99
87) hexachlorobutadiene	16.45	225	128805	45.97 ug/L	99
88) naphthalene	16.51	128	501195	40.18 ug/L	99
89) 1,2,3-trichlorobenzene	16.82	180	208089	46.84 ug/L	99
90) 2-methylnaphthalene	17.92	142	130524	41.92 ug/L	100

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

LCS / LCS DUPLICATE RECOVERY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1208743

SDG: KNM070512

Project: KNM

Laboratory ID: 1208743-BS1

Preparation: 5030B Aqueous Purge & Trap

Initial/Final: 5 mL / 5 mL

Sequence: 2G19009

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	42.4	106	84 - 119	ug/L
Chlorobenzene	40.0	41.8	104	84 - 118	ug/L
1,1-Dichloroethene	40.0	43.9	110	77 - 123	ug/L
Toluene	40.0	42.5	106	85 - 118	ug/L
Trichloroethene	40.0	42.0	105	82 - 119	ug/L

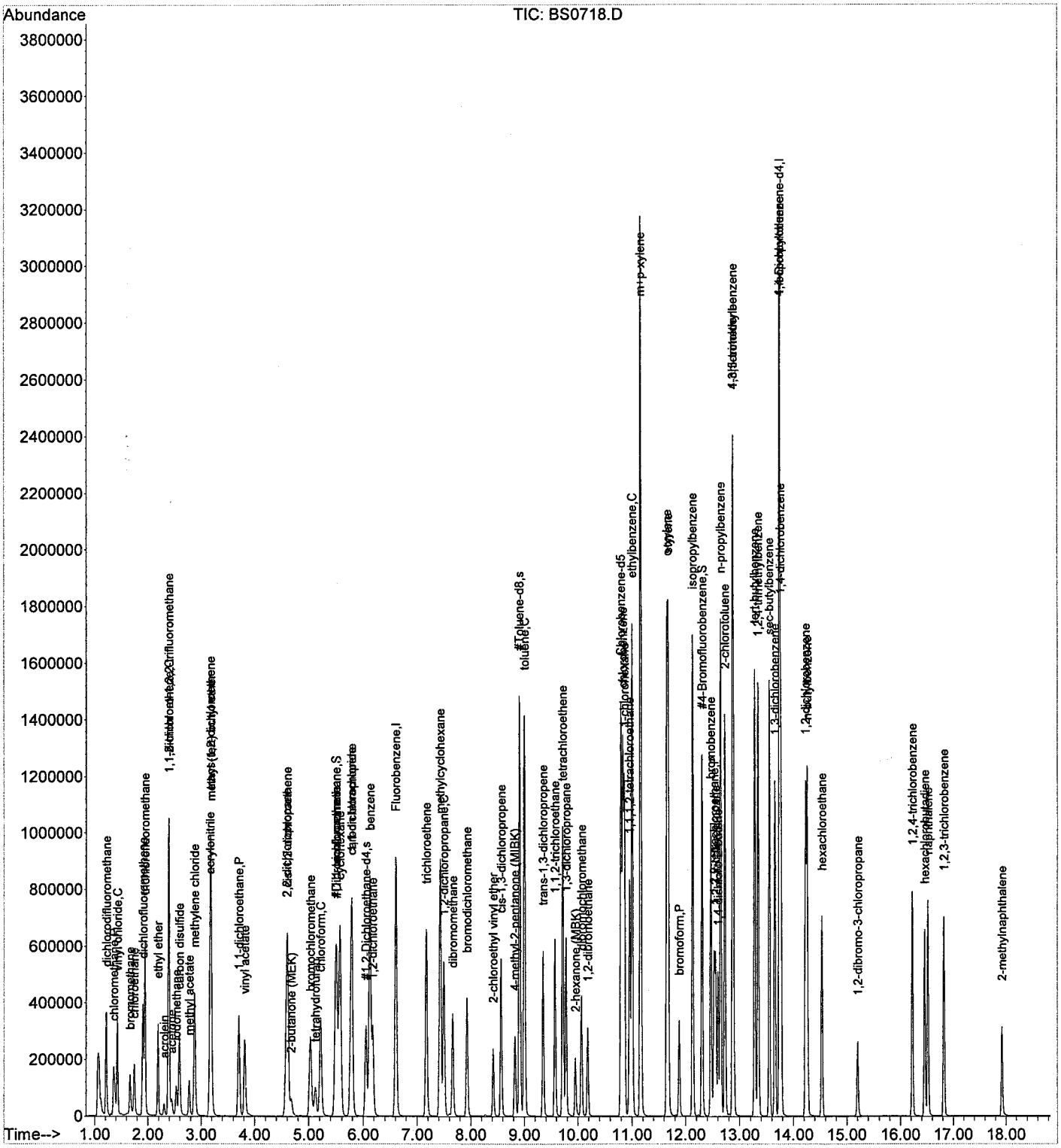
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\07-18-12\
InstName : 224
Data File : BS0718.D
Acq On : 18 Jul 2012 9:05
Operator : DLV
Sample : BS/BSD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 18 09:24:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration



01275

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\07-18-12\
InstName : 224
Data File : BS0718.D
Acq On : 18 Jul 2012 9:05
Operator : DLV
Sample : BS/BSD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 18 09:24:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.60	96	1087805	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	881621	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	512167	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	255633	40.09 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.23%	
37) #1,2-Dichloroethane-d4	6.05	65	292511	40.29 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.72%	
47) #Toluene-d8	8.91	98	1111141	40.06 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.15%	
65) #4-Bromofluorobenzene	12.30	95	438664	40.10 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.25%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.22	85	340008	45.53 ug/L	99
3) chloromethane	1.36	50	264137	43.73 ug/L	100
4) vinyl chloride	1.43	62	293133	44.89 ug/L	100
5) bromomethane	1.67	94	105410	49.01 ug/L	98
6) chloroethane	1.75	64	161168	46.26 ug/L	100
7) dichlorofluoromethane	1.91	67	392407	44.04 ug/L	100
8) trichlorofluoromethane	1.94	101	394671	44.72 ug/L	99
9) ethyl ether	2.19	74	113763	44.05 ug/L	100
10) acrolein	2.30	56	36442	41.61 ug/L #	99
11) 1,1,2-trichloro-1,2,2-trif	2.39	101	208630	44.93 ug/L	99
12) 1,1-dichloroethene	2.38	96	193900	43.91 ug/L	100
13) acetone	2.44	43	70039	35.37 ug/L	96
14) iodomethane	2.53	142	151748	38.63 ug/L	99
15) carbon disulfide	2.59	76	413611	48.59 ug/L	100
16) methyl acetate	2.77	43	152639	29.26 ug/L	98
17) methylene chloride	2.87	49	284575	37.30 ug/L	99
18) acrylonitrile	3.16	53	98006	39.48 ug/L	99
19) trans-1,2-dichloroethene	3.17	96	238819	43.03 ug/L	100
20) methyl (tert) butyl ether	3.19	73	607170	41.89 ug/L	99
21) 1,1-dichloroethane	3.71	63	409601	42.75 ug/L	100
22) vinyl acetate	3.82	43	494017	51.71 ug/L	100
23) 2,2-dichloropropane	4.58	77	286388	45.59 ug/L	99
24) cis-1,2-dichloroethene	4.60	96	261533	43.08 ug/L	100
25) 2-butanone (MEK)	4.67	43	94467	37.47 ug/L	99
26) bromochloromethane	5.03	49	204215	41.85 ug/L	99
27) tetrahydrofuran	5.11	71	34322	37.68 ug/L	90
28) chloroform	5.22	83	411024	42.42 ug/L	100
30) 1,1,1-trichloroethane	5.49	97	356821	43.92 ug/L	98
31) cyclohexane	5.57	56	455359	44.62 ug/L	100
32) carbon tetrachloride	5.77	117	331006	44.56 ug/L	100
33) 1,1-dichloropropene	5.79	75	343817	44.40 ug/L	99
34) benzene	6.13	78	1018395	42.41 ug/L	99
35) 1,2-dichloroethane	6.18	62	319982	42.26 ug/L	100
36) heptane	6.60	57	33145	No Calib #	
38) trichloroethene	7.17	130	291400	42.03 ug/L	100
39) methylcyclohexane	7.42	83	453227	44.70 ug/L	99
40) 1,2-dichloropropane	7.49	63	245814	42.92 ug/L	100
41) dibromomethane	7.66	93	142521	42.51 ug/L	99

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\07-18-12\
InstName : 224
Data File : BS0718.D
Acq On : 18 Jul 2012 9:05
Operator : DLV
Sample : BS/BSD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 18 09:24:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B33.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Jul 18 07:30:29 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.			
43) bromodichloromethane	7.93	83	308852	43.42	ug/L		100
44) 2-chloroethyl vinyl ether	8.42	63	103647	39.58	ug/L		100
45) cis-1,3-dichloropropene	8.57	75	346804	39.97	ug/L		99
46) 4-methyl-2-pentanone (MIBK	8.83	43	218690	41.19	ug/L		99
48) toluene	9.00	91	1164601	42.49	ug/L		98
49) trans-1,3-dichloropropene	9.35	75	319897	38.99	ug/L		100
50) 1,1,2-trichloroethane	9.57	83	178897	41.83	ug/L		99
52) tetrachloroethene	9.72	166	361300	42.98	ug/L		100
53) 1,3-dichloropropane	9.78	76	385334	42.27	ug/L		99
54) 2-hexanone (MBK)	9.95	43	150579	36.18	ug/L		99
55) dibromochloromethane	10.06	129	244908	43.14	ug/L		100
56) 1,2-dibromoethane	10.18	109	217115	42.28	ug/L		100
57) chlorobenzene	10.83	112	779986	41.80	ug/L		98
58) 1-chlorohexane	10.86	55	267267	43.30	ug/L		95
59) 1,1,1,2-tetrachloroethane	10.95	131	256169	42.81	ug/L		99
60) ethylbenzene	11.00	91	1336187	43.17	ug/L		97
61) m+p-xylene	11.16	106	1071924	86.32	ug/L		95
62) o-xylene	11.65	106	504577	43.87	ug/L		97
63) styrene	11.67	104	869533	43.40	ug/L		97
64) bromoform	11.88	173	178828	37.30	ug/L		100
67) isopropylbenzene	12.13	105	1205505	44.33	ug/L		97
68) bromobenzene	12.47	77	462676	41.67	ug/L		100
69) 1,1,2,2-tetrachloroethane	12.53	83	302772	38.50	ug/L	#	99
70) 1,2,3-trichloropropane	12.56	110	101670	39.73	ug/L		99
71) 1,4-dichloro-2-butene	12.60	53	111331	36.89	ug/L		94
72) n-propylbenzene	12.65	120	356484	44.04	ug/L		97
73) 2-chlorotoluene	12.73	126	306307	42.94	ug/L		95
74) 1,3,5-trimethylbenzene	12.88	105	972251	43.78	ug/L		99
75) 4-chlorotoluene	12.87	126	306854	42.34	ug/L		95
76) tert-butylbenzene	13.28	119	858225	44.50	ug/L		99
77) 1,2,4-trimethylbenzene	13.34	105	961650	43.85	ug/L		99
78) sec-butylbenzene	13.55	105	1146503	44.09	ug/L		98
79) 1,3-dichlorobenzene	13.66	146	595893	42.14	ug/L		99
80) 4-isopropyltoluene	13.75	119	962799	42.82	ug/L		97
81) 1,4-dichlorobenzene	13.77	146	603790	40.65	ug/L		99
82) 1,2-dichlorobenzene	14.23	146	565955	41.45	ug/L		99
83) n-butylbenzene	14.26	91	714562	39.71	ug/L		98
84) hexachloroethane	14.53	201	124564	36.89	ug/L	#	90
85) 1,2-dibromo-3-chloropropan	15.20	157	90272	37.61	ug/L		99
86) 1,2,4-trichlorobenzene	16.23	180	308295	42.77	ug/L		99
87) hexachlorobutadiene	16.46	225	157896	42.76	ug/L		99
88) naphthalene	16.52	128	682042	35.57	ug/L		99
89) 1,2,3-trichlorobenzene	16.82	180	273362	41.07	ug/L		99
90) 2-methylnaphthalene	17.92	142	182932	36.33	ug/L		100

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

LCS / LCS DUPLICATE RECOVERY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water

SDG: KNM070512
Project: KNM
Laboratory ID: 1209178-BS1
Preparation: 5030B Aqueous Purge & Trap
Initial/Final: 5 mL / 5 mL

QC Batch: 1209178
Sequence: 2G27052

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	39.1	98	84 - 119	ug/L
Chlorobenzene	40.0	37.6	94	84 - 118	ug/L
1,1-Dichloroethene	40.0	38.6	96	77 - 123	ug/L
Toluene	40.0	39.3	98	85 - 118	ug/L
Trichloroethene	40.0	37.8	95	82 - 119	ug/L

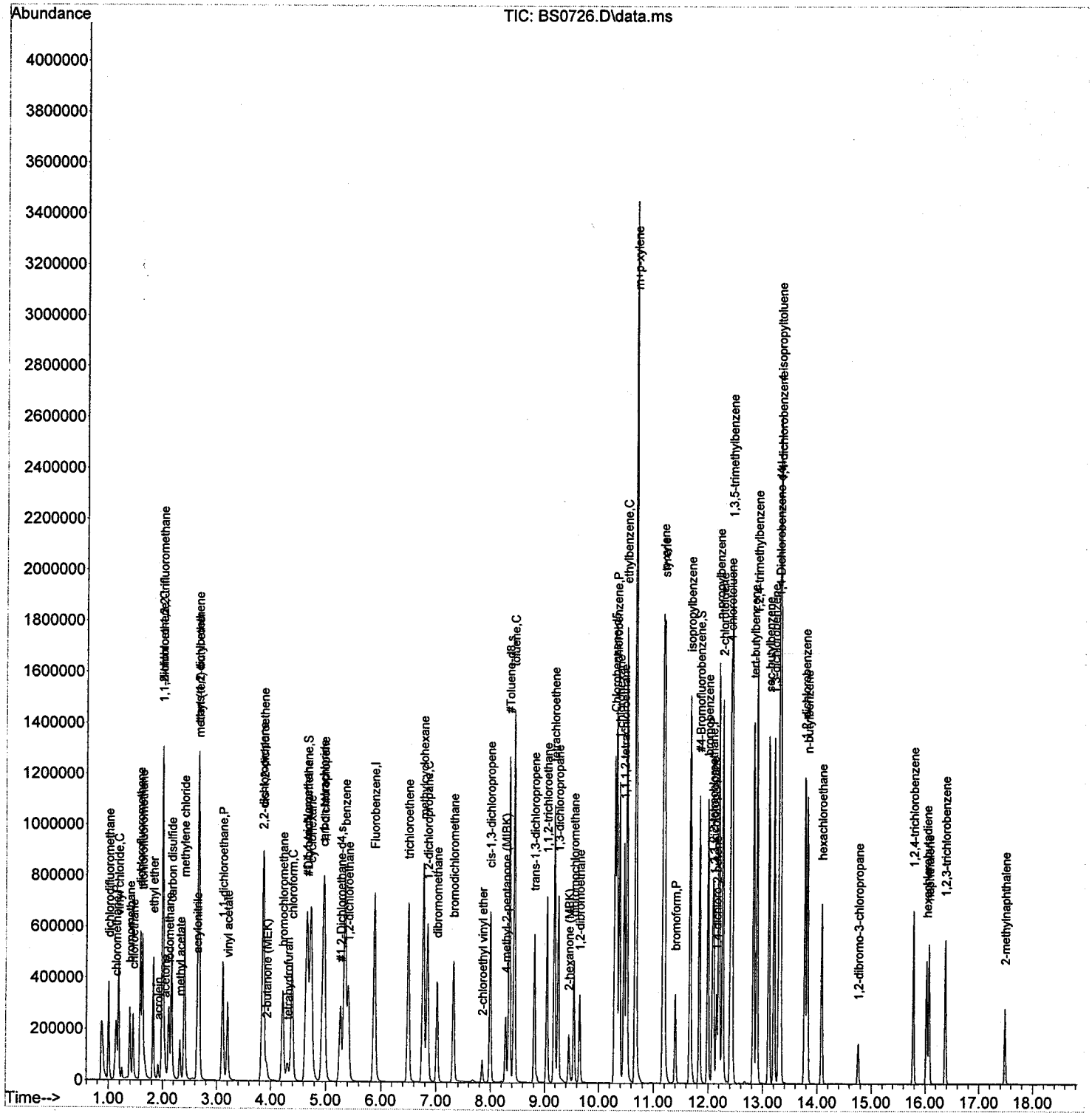
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : BS0726.D
Acq On : 26 Jul 2012 9:27
Operator : LEW
Sample : BS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 26 10:16:06 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration



01279

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : BS0726.D
Acq On : 26 Jul 2012 9:27
Operator : LEW
Sample : BS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 26 10:16:06 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.878	96	922508	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.298	117	714262	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.291	152	388675	40.00	ug/L	# 0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	4.665	111	268439	40.66	ug/L	0.00
Spiked Amount 40.000			Recovery	=	101.65%	
37) #1,2-Dichloroethane-d4	5.269	67	162356	40.16	ug/L	0.01
Spiked Amount 40.000			Recovery	=	100.40%	
47) #Toluene-d8	8.347	98	922821	40.54	ug/L	0.00
Spiked Amount 40.000			Recovery	=	101.35%	
65) #4-Bromofluorobenzene	11.841	95	370157	40.49	ug/L	0.00
Spiked Amount 40.000			Recovery	=	101.23%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.001	85	307926	33.17	ug/L	100
3) chloromethane	1.135	50	332331	37.91	ug/L	99
4) vinyl chloride	1.178	62	345353	38.64	ug/L	99
5) bromomethane	1.385	94	167249	46.27	ug/L	99
6) chloroethane	1.452	64	191653	39.69	ug/L	100
7) dichlorofluoromethane	1.580	67	530041	39.20	ug/L	100
8) trichlorofluoromethane	1.623	101	507591	39.03	ug/L	100
9) ethyl ether	1.824	74	155792	40.82	ug/L	96
10) acrolein	1.916	56	40870	48.42	ug/L	99
11) 1,1,2-trichloro-1,2,2-...	1.995	101	291399	39.60	ug/L	97
12) 1,1-dichloroethene	1.995	96	231852	38.55	ug/L	93
13) acetone	2.038	43	82328	37.99	ug/L	91
14) iodomethane	2.111	142	346913	40.96	ug/L	96
15) carbon disulfide	2.160	76	659483	42.57	ug/L	100
16) methyl acetate	2.318	43	184176	39.90	ug/L	96
17) methylene chloride	2.397	49	376575	43.53	ug/L	91
18) acrylonitrile	2.635	53	105102	41.66	ug/L	97
19) trans-1,2-dichloroethene	2.653	96	290781	39.91	ug/L	99
20) methyl (tert) butyl ether	2.666	73	646965	39.49	ug/L	93
21) 1,1-dichloroethane	3.104	63	517222	38.91	ug/L	99
22) vinyl acetate	3.196	43	491114	44.84	ug/L	96
23) 2,2-dichloropropane	3.848	77	320328	38.97	ug/L	92
24) cis-1,2-dichloroethene	3.860	96	310487	39.92	ug/L	98
25) 2-butanone (MEK)	3.921	43	106267	38.02	ug/L	92
26) bromochloromethane	4.220	49	240919	38.78	ug/L #	76
27) tetrahydrofuran	4.318	71	23686	35.14	ug/L #	76
28) chloroform	4.391	83	526876	38.56	ug/L	100
30) 1,1,1-trichloroethane	4.653	97	451502	39.82	ug/L #	95
31) cyclohexane	4.726	56	519873	40.48	ug/L	88
32) carbon tetrachloride	4.952	117	411117	40.65	ug/L	100
33) 1,1-dichloropropene	4.970	75	412489	40.73	ug/L	100
34) benzene	5.348	78	1129125	39.14	ug/L	97
35) 1,2-dichloroethane	5.409	62	423164	39.24	ug/L	96
36) heptane	5.878	57	34210	No Calib		
38) trichloroethene	6.494	130	300567	37.85	ug/L	97

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\07-26-12\
InstName : 328
Data File : BS0726.D
Acq On : 26 Jul 2012 9:27
Operator : LEW
Sample : BS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 26 10:16:06 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB66M.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Jul 24 07:58:48 2012
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39)	methylcyclohexane	6.768	83	446369	37.19 ug/L	95
40)	1,2-dichloropropane	6.842	63	263948	38.55 ug/L	95
41)	dibromomethane	7.018	93	169501	39.10 ug/L #	87
42)	1,4-dioxane	0.000		0	N.D.	
43)	bromodichloromethane	7.317	83	355603	38.95 ug/L	99
44)	2-chloroethyl vinyl ether	7.847	63	37639	30.62 ug/L	93
45)	cis-1,3-dichloropropene	7.994	75	391130	35.45 ug/L	95
46)	4-methyl-2-pentanone (...	8.280	43	200829	34.57 ug/L	92
48)	toluene	8.439	91	1180449	39.31 ug/L	99
49)	trans-1,3-dichloropropene	8.811	75	314630	35.45 ug/L	98
50)	1,1,2-trichloroethane	9.042	83	192526	38.92 ug/L	94
52)	tetrachloroethene	9.183	166	354037	37.69 ug/L	96
53)	1,3-dichloropropane	9.256	76	417023	38.54 ug/L	100
54)	2-hexanone (MBK)	9.451	43	139649	34.13 ug/L	94
55)	dibromochloromethane	9.548	129	253660	39.11 ug/L	99
56)	1,2-dibromoethane	9.652	109	216352	38.39 ug/L #	100
57)	chlorobenzene	10.329	112	774238	37.62 ug/L	98
58)	1-chlorohexane	10.377	55	288124	38.73 ug/L	95
59)	1,1,1,2-tetrachloroethane	10.463	131	263004	39.59 ug/L	96
60)	ethylbenzene	10.512	91	1353219	39.44 ug/L	98
61)	m+p-xylene	10.676	106	1063420	81.29 ug/L	95
62)	o-xylene	11.176	106	494296	36.37 ug/L	95
63)	styrene	11.200	104	836007	36.30 ug/L	96
64)	bromoform	11.402	173	157377	33.77 ug/L	99
67)	isopropylbenzene	11.670	105	1083267	36.49 ug/L	98
68)	bromobenzene	11.993	77	499206	37.27 ug/L	88
69)	1,1,2,2-tetrachloroethane	12.078	83	295905	38.05 ug/L #	99
70)	1,2,3-trichloropropane	12.103	110	95139	37.23 ug/L #	86
71)	1,4-dichloro-2-butene	12.151	53	85988	35.99 ug/L	87
72)	n-propylbenzene	12.194	120	320448	39.77 ug/L	98
73)	2-chlorotoluene	12.267	126	294559	37.39 ug/L #	85
74)	1,3,5-trimethylbenzene	12.432	105	1018075	39.80 ug/L	97
75)	4-chlorotoluene	12.408	91	1026410	39.58 ug/L	99
76)	tert-butylbenzene	12.834	119	736795	34.93 ug/L	99
77)	1,2,4-trimethylbenzene	12.895	105	947376	40.48 ug/L	98
78)	sec-butylbenzene	13.109	105	984179	34.34 ug/L	98
79)	1,3-dichlorobenzene	13.206	146	561442	38.26 ug/L	98
80)	4-isopropyltoluene	13.310	119	810441	38.30 ug/L	98
81)	1,4-dichlorobenzene	13.322	146	576616	37.46 ug/L	98
82)	1,2-dichlorobenzene	13.779	146	505429	38.52 ug/L	99
83)	n-butylbenzene	13.822	91	630050	33.94 ug/L	99
84)	hexachloroethane	14.084	201	94722	32.88 ug/L #	83
85)	1,2-dibromo-3-chloropr...	14.761	157	41619	34.56 ug/L	97
86)	1,2,4-trichlorobenzene	15.785	180	200940	37.40 ug/L	100
87)	hexachlorobutadiene	16.029	225	89139	36.42 ug/L	99
88)	naphthalene	16.071	128	414884	34.18 ug/L	97
89)	1,2,3-trichlorobenzene	16.376	180	172466	36.44 ug/L	99
90)	2-methylnaphthalene	17.486	142	131375	34.47 ug/L	99

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

LCS / LCS DUPLICATE RECOVERY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water

SDG: KNM070512
Project: KNM
Laboratory ID: 1209584-BS1
Preparation: 5030B Aqueous Purge & Trap
Initial/Final: 5 mL / 5 mL

QC Batch: 1209584
Sequence: 2H07013

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	43.4	109	84 - 119	ug/L
Chlorobenzene	40.0	40.2	100	84 - 118	ug/L
1,1-Dichloroethene	40.0	45.2	113	77 - 123	ug/L
Toluene	40.0	38.1	95	85 - 118	ug/L
Trichloroethene	40.0	41.7	104	82 - 119	ug/L

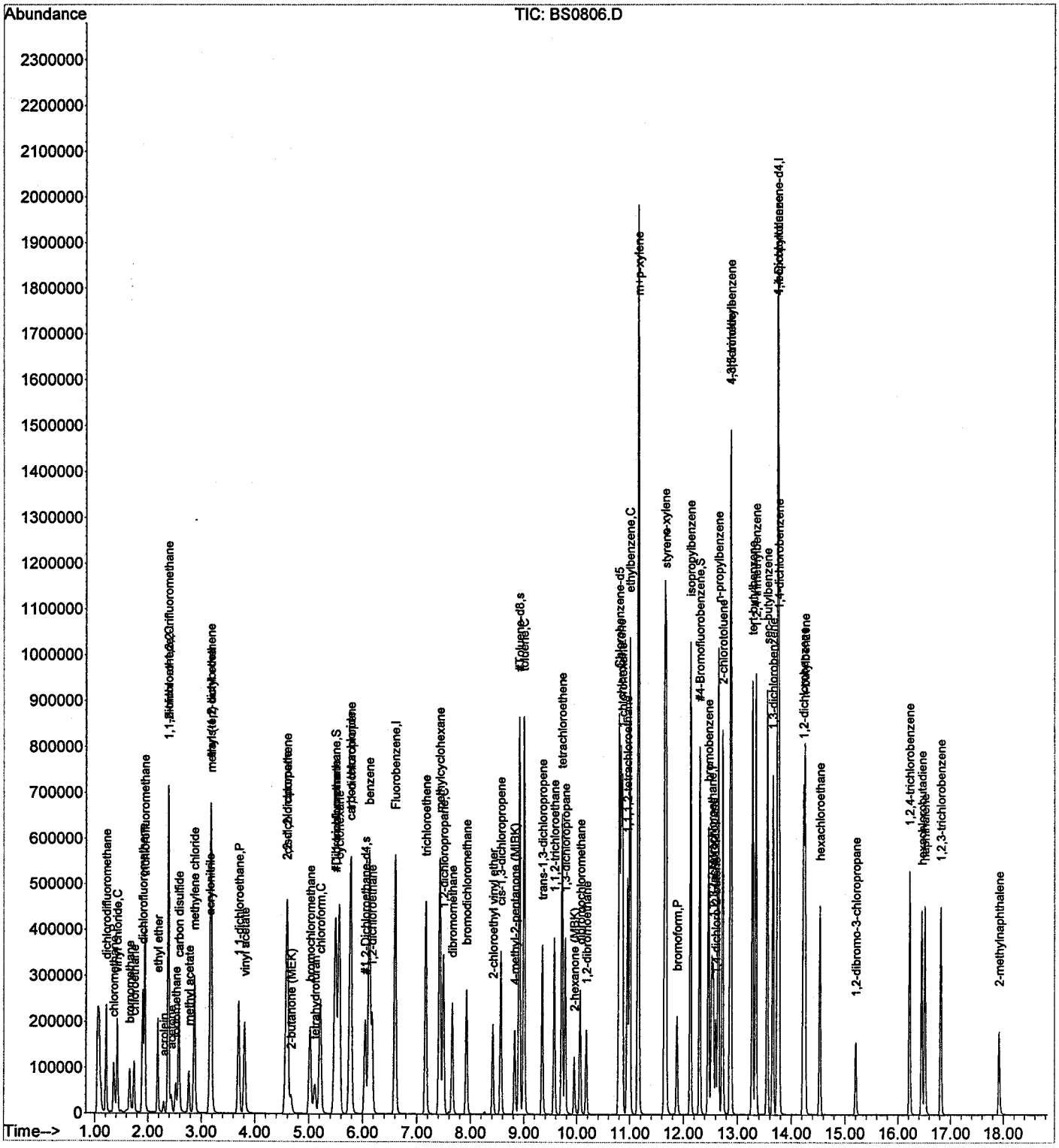
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : BS0806.D
Acq On : 6 Aug 2012 9:03
Operator : DLV
Sample : BS/BSD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 06 09:22:31 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration



01283

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : BS0806.D
Acq On : 6 Aug 2012 9:03
Operator : DLV
Sample : BS/BSD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 06 09:22:31 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.60	96	670869	40.00 ug/L	0.00
51) Chlorobenzene-d5	10.80	117	525417	40.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.75	152	310324	40.00 ug/L	0.00
System Monitoring Compounds					
29) #Dibromofluoromethane	5.50	111	168742	41.35 ug/L	0.00
Spiked Amount 40.000			Recovery =	103.38%	
37) #1,2-Dichloroethane-d4	6.05	65	191541	39.17 ug/L	0.00
Spiked Amount 40.000			Recovery =	97.93%	
47) #Toluene-d8	8.91	98	636429	36.99 ug/L	0.00
Spiked Amount 40.000			Recovery =	92.48%	
65) #4-Bromofluorobenzene	12.30	95	267225	40.28 ug/L	0.00
Spiked Amount 40.000			Recovery =	100.70%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.21	85	208285	42.80 ug/L	100
3) chloromethane	1.35	50	139310	36.89 ug/L	99
4) vinyl chloride	1.42	62	175256	41.97 ug/L	99
5) bromomethane	1.66	94	72427	48.98 ug/L	99
6) chloroethane	1.74	64	100938	43.78 ug/L	99
7) dichlorofluoromethane	1.90	67	264394	42.61 ug/L	100
8) trichlorofluoromethane	1.94	101	277439	43.59 ug/L	100
9) ethyl ether	2.18	74	72237	43.67 ug/L	98
10) acrolein	2.30	56	19803	38.70 ug/L #	99
11) 1,1,2-trichloro-1,2,2-trif	2.38	101	143448	45.29 ug/L	98
12) 1,1-dichloroethene	2.38	96	132552	45.16 ug/L	96
13) acetone	2.44	43	49445	44.53 ug/L	94
14) iodomethane	2.52	142	101844	38.13 ug/L	98
15) carbon disulfide	2.58	76	344562	52.46 ug/L	100
16) methyl acetate	2.77	43	116849	46.95 ug/L	99
17) methylene chloride	2.87	49	197564	42.27 ug/L	97
18) acrylonitrile	3.15	53	58871	42.16 ug/L	98
19) trans-1,2-dichloroethene	3.16	96	166870	44.63 ug/L	100
20) methyl (tert) butyl ether	3.18	73	424122	44.92 ug/L	99
21) 1,1-dichloroethane	3.70	63	286096	44.41 ug/L	100
22) vinyl acetate	3.81	43	366971	60.58 ug/L	99
23) 2,2-dichloropropane	4.58	77	223709	48.57 ug/L	98
24) cis-1,2-dichloroethene	4.60	96	181201	44.98 ug/L	99
25) 2-butanone (MEK)	4.66	43	65235	41.01 ug/L	95
26) bromochloromethane	5.02	49	133716	43.32 ug/L	96
27) tetrahydrofuran	5.11	71	22055	41.54 ug/L	97
28) chloroform	5.21	83	293801	43.51 ug/L	100
30) 1,1,1-trichloroethane	5.49	97	268390	44.75 ug/L	100
31) cyclohexane	5.56	56	310106	47.43 ug/L	98
32) carbon tetrachloride	5.77	117	254586	46.28 ug/L	100
33) 1,1-dichloropropene	5.78	75	243312	44.68 ug/L	100
34) benzene	6.12	78	686071	43.41 ug/L	97
35) 1,2-dichloroethane	6.17	62	226814	42.02 ug/L	98
36) heptane	6.60	57	20565	No Calib #	
38) trichloroethene	7.17	130	198607	41.70 ug/L	99
39) methylcyclohexane	7.42	83	278997	42.88 ug/L	97
40) 1,2-dichloropropane	7.49	63	143902	39.61 ug/L	99
41) dibromomethane	7.66	93	89427	40.47 ug/L	99

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\08-06-12\
InstName : 224
Data File : BS0806.D
Acq On : 6 Aug 2012 9:03
Operator : DLV
Sample : BS/BSD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 06 09:22:31 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-B34.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Wed Aug 01 12:18:26 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,4-dioxane	0.00	88	0	N.D.	
43) bromodichloromethane	7.92	83	201614	40.88 ug/L	100
44) 2-chloroethyl vinyl ether	8.42	63	88293	40.13 ug/L	100
45) cis-1,3-dichloropropene	8.56	75	214581	42.48 ug/L	97
46) 4-methyl-2-pentanone (MIBK	8.82	43	135718	41.06 ug/L	99
48) toluene	9.00	91	699057	38.11 ug/L	98
49) trans-1,3-dichloropropene	9.35	75	210343	38.67 ug/L	99
50) 1,1,2-trichloroethane	9.57	83	105089	39.19 ug/L	100
52) tetrachloroethene	9.72	166	230737	41.49 ug/L	99
53) 1,3-dichloropropane	9.78	76	226065	40.86 ug/L	99
54) 2-hexanone (MBK)	9.95	43	92717	38.34 ug/L	98
55) dibromochloromethane	10.06	129	159279	44.68 ug/L	99
56) 1,2-dibromoethane	10.17	109	130990	42.22 ug/L	100
57) chlorobenzene	10.83	112	457947	40.17 ug/L	97
58) 1-chlorohexane	10.86	55	164365	41.74 ug/L	94
59) 1,1,1,2-tetrachloroethane	10.95	131	164440	43.33 ug/L	98
60) ethylbenzene	11.00	91	809801	41.41 ug/L	99
61) m+p-xylene	11.16	106	622535	81.68 ug/L	99
62) o-xylene	11.65	106	311614	44.68 ug/L	99
63) styrene	11.67	104	528291	43.62 ug/L	94
64) bromoform	11.88	173	117673	40.16 ug/L	100
67) isopropylbenzene	12.13	105	719486	41.80 ug/L	99
68) bromobenzene	12.47	77	278091	40.13 ug/L	100
69) 1,1,2,2-tetrachloroethane	12.53	83	170735	39.84 ug/L #	99
70) 1,2,3-trichloropropane	12.56	110	59130	38.63 ug/L	97
71) 1,4-dichloro-2-butene	12.60	53	45340	26.66 ug/L	96
72) n-propylbenzene	12.65	120	206685	41.01 ug/L	96
73) 2-chlorotoluene	12.73	126	178391	40.85 ug/L	98
74) 1,3,5-trimethylbenzene	12.88	105	579707	41.45 ug/L	99
75) 4-chlorotoluene	12.87	126	180940	40.55 ug/L	99
76) tert-butylbenzene	13.28	119	508368	41.91 ug/L	96
77) 1,2,4-trimethylbenzene	13.34	105	581479	42.04 ug/L	99
78) sec-butylbenzene	13.55	105	673750	41.67 ug/L	98
79) 1,3-dichlorobenzene	13.66	146	356506	40.47 ug/L	98
80) 4-isopropyltoluene	13.75	119	576465	41.37 ug/L	98
81) 1,4-dichlorobenzene	13.77	146	359029	39.13 ug/L	97
82) 1,2-dichlorobenzene	14.23	146	348026	42.38 ug/L	99
83) n-butylbenzene	14.25	91	446775	44.18 ug/L	99
84) hexachloroethane	14.53	201	89712	40.97 ug/L	97
85) 1,2-dibromo-3-chloropropan	15.20	157	56424	38.70 ug/L	98
86) 1,2,4-trichlorobenzene	16.22	180	203518	46.83 ug/L	99
87) hexachlorobutadiene	16.46	225	109840	45.36 ug/L	99
88) naphthalene	16.52	128	416170	38.79 ug/L	99
89) 1,2,3-trichlorobenzene	16.82	180	172896	45.03 ug/L	100
90) 2-methylnaphthalene	17.92	142	104642	39.25 ug/L	99

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

LCS / LCS DUPLICATE RECOVERY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water

SDG: KNM070512
Project: KNM
Laboratory ID: 1210102-BS1
Preparation: 5030B Aqueous Purge & Trap
Initial/Final: 5 mL / 5 mL

QC Batch: 1210102
Sequence: 2H20042

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	40.8	102	84 - 119	ug/L
Chlorobenzene	40.0	39.8	100	84 - 118	ug/L
1,1-Dichloroethene	40.0	42.1	105	77 - 123	ug/L
Toluene	40.0	41.0	102	85 - 118	ug/L
Trichloroethene	40.0	39.3	98	82 - 119	ug/L

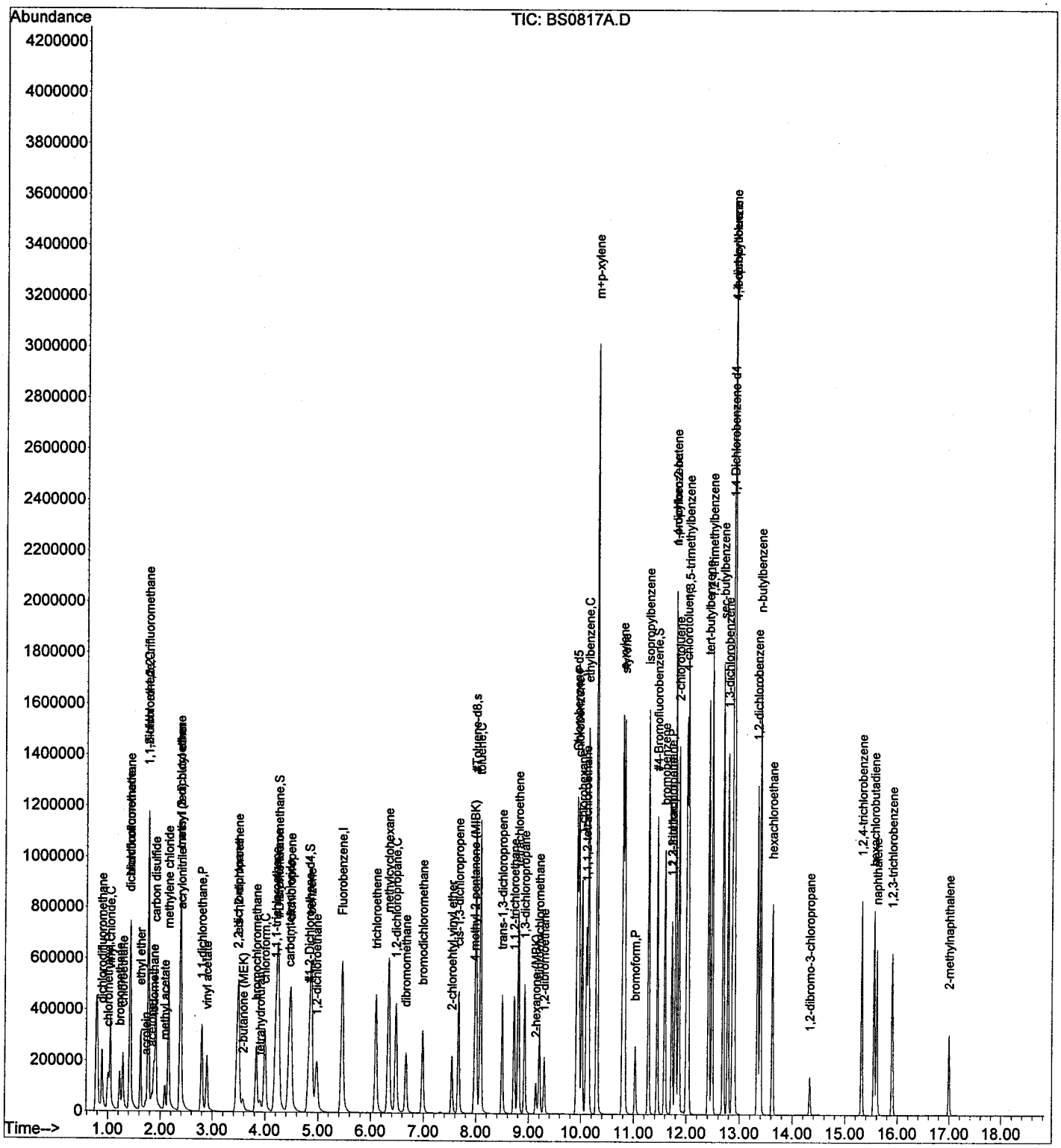
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-17-12\
Data File : BS0817A.D
InstName : 323
Acq On : 17 Aug 2012 13:16
Operator : DLV
Sample : BS/BSD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 20 13:13:25 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration



01287

Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-17-12\
Data File : BS0817A.D
InstName : 323
Acq On : 17 Aug 2012 13:16
Operator : DLV
Sample : BS/BSD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 20 13:13:25 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	888785	40.00 ug/L	0.00 84.95%
50) Chlorobenzene-d5	9.93	117	728101	40.00 ug/L	0.00 87.27%
65) 1,4-Dichlorobenzene-d4	12.87	152	492663	40.00 ug/L	0.00 88.87%
System Monitoring Compounds					
30) #Dibromofluoromethane	4.26	111	216950	40.32 ug/L	0.00
Spiked Amount 40.000			Recovery	= 100.80%	
37) #1,2-Dichloroethane-d4	4.82	67	127912	38.84 ug/L	-0.01
Spiked Amount 40.000			Recovery	= 97.10%	
46) #Toluene-d8	7.99	98	895434	40.47 ug/L	0.00
Spiked Amount 40.000			Recovery	= 101.18%	
64) #4-Bromofluorobenzene	11.45	95	369926	39.98 ug/L	0.00
Spiked Amount 40.000			Recovery	= 99.95%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.89	85	244144	41.13 ug/L	99
3) chloromethane	1.00	50	273486	42.43 ug/L	99
4) vinyl chloride	1.04	62	311871	42.66 ug/L	99
5) bromomethane	1.23	94	122921	46.48 ug/L	99
6) chloroethane	1.28	64	189228	44.40 ug/L	99
7) dichlorofluoromethane	1.41	67	449126	44.68 ug/L	100
8) trichlorofluoromethane	1.43	101	409187	44.94 ug/L	97
9) ethyl ether	1.62	74	121161	40.73 ug/L	92
10) acrolein	1.72	56	28022	37.52 ug/L #	99
11) 1,1,2-trichloro-1,2,2-trif	1.77	101	224742	43.24 ug/L	98
12) 1,1-dichloroethene	1.77	96	244374	42.12 ug/L	96
13) acetone	1.84	43	51896	29.08 ug/L	96
14) iodomethane	1.88	142	265032	35.73 ug/L	98
15) carbon disulfide	1.91	76	707147	49.55 ug/L	100
16) methyl acetate	2.08	43	133962	39.03 ug/L	97
17) methylene chloride	2.15	49	324666	43.52 ug/L	96
18) acrylonitrile	2.40	53	66157	37.08 ug/L	97
19) trans-1,2-dichloroethene	2.38	96	219361	35.91 ug/L	94
20) methyl (tert) butyl ether	2.39	73	423336	31.79 ug/L	99
21) 1,1-dichloroethane	2.79	63	384784	40.31 ug/L	100
22) vinyl acetate	2.89	43	387299	42.12 ug/L	97
23) 2,2-dichloropropane	3.47	77	206643	32.19 ug/L	99
24) cis-1,2-dichloroethene	3.49	96	236305	40.98 ug/L	99
25) 2-butanone (MEK)	3.58	43	66916	36.78 ug/L	99
26) bromochloromethane	3.83	49	183418	40.82 ug/L	97
27) tetrahydrofuran	3.91	71	13694	31.78 ug/L	91
28) chloroform	3.99	83	367971	40.05 ug/L	100
29) 1,1,1-trichloroethane	4.19	97	301520	38.93 ug/L	96
31) cyclohexane	4.23	56	366947	40.78 ug/L	98
32) carbon tetrachloride	4.45	117	279510	41.59 ug/L	100
33) 1,1-dichloropropene	4.49	75	297809	40.00 ug/L	99
34) benzene	4.87	78	880246	40.75 ug/L	88
35) 1,2-dichloroethane	4.97	62	269803	39.01 ug/L	99
36) heptane	4.23	57	16377	No Calib #	

Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-17-12\
Data File : BS0817A.D
InstName : 323
Acq On : 17 Aug 2012 13:16
Operator : DLV
Sample : BS/BSD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 20 13:13:25 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
38) trichloroethene	6.10	130	237826	39.32 ug/L	98
39) methylcyclohexane	6.34	83	361479	40.77 ug/L	98
40) 1,2-dichloropropane	6.48	63	210777	40.75 ug/L	100
41) dibromomethane	6.67	93	110232	39.57 ug/L	96
42) bromodichloromethane	6.98	83	276389	43.02 ug/L	100
43) 2-chloroehtyl vinyl ether	7.54	63	108915	40.12 ug/L	99
44) cis-1,3-dichloropropene	7.67	75	295644	40.08 ug/L	96
45) 4-methyl-2-pentanone (MIBK	7.96	43	150041	35.09 ug/L #	97
47) toluene	8.08	91	981765	41.00 ug/L	100
48) trans-1,3-dichloropropene	8.49	75	257920	33.72 ug/L	96
49) 1,1,2-trichloroethane	8.72	83	135915	40.07 ug/L	98
51) tetrachloroethene	8.80	166	287384	38.70 ug/L	98
52) 1,3-dichloropropane	8.92	76	304014	38.77 ug/L	100
53) 2-hexanone (MBK)	9.14	43	101923	33.59 ug/L	96
54) dibromochloromethane	9.20	129	196711	36.75 ug/L	99
55) 1,2-dibromoethane	9.30	109	153752	37.98 ug/L	100
56) chlorobenzene	9.96	112	677466	39.82 ug/L	95
57) 1-chlorohexane	10.02	55	229188	42.02 ug/L	88
58) 1,1,1,2-tetrachloroethane	10.10	131	220704	36.76 ug/L	99
59) ethylbenzene	10.14	91	1153829	40.42 ug/L	100
60) m+p-xylene	10.30	106	961897	80.95 ug/L	94
61) o-xylene	10.79	106	453839	40.61 ug/L	99
62) styrene	10.83	104	812366	40.72 ug/L	95
63) bromoform	11.03	173	129517	33.53 ug/L	100
66) isopropylbenzene	11.28	105	1085089	38.66 ug/L	100
67) bromobenzene	11.59	77	447680	39.09 ug/L	95
68) 1,1,2,2-tetrachloroethane	11.73	83	213098	37.47 ug/L #	99
69) 1,2,3-trichloropropane	11.73	110	65935	35.78 ug/L	94
70) 1,4-dichloro-2-butene	11.79	53	71976	40.28 ug/L #	66
71) n-propylbenzene	11.80	120	347277	39.39 ug/L	98
72) 2-chlorotoluene	11.86	126	297829	39.12 ug/L	92
73) 1,3,5-trimethylbenzene	12.04	105	1019645	39.38 ug/L	98
74) 4-chlorotoluene	12.01	91	981953	39.56 ug/L	99
75) tert-butylbenzene	12.42	119	874927	38.36 ug/L	97
76) 1,2,4-trimethylbenzene	12.48	105	1047934	39.59 ug/L	99
77) sec-butylbenzene	12.69	105	1291636	38.84 ug/L	100
78) 1,3-dichlorobenzene	12.78	146	641421	39.66 ug/L	99
79) 4-isopropyltoluene	12.89	119	1203699	39.01 ug/L	97
80) 1,4-dichlorobenzene	12.90	146	669938	39.42 ug/L	99
81) 1,2-dichlorobenzene	13.34	146	569980	38.89 ug/L	100
82) n-butylbenzene	13.39	91	1003578	40.39 ug/L	99
83) hexachloroethane	13.62	201	150354	33.88 ug/L #	90
84) 1,2-dibromo-3-chloropropan	14.33	157	44073	31.26 ug/L	97
85) 1,2,4-trichlorobenzene	15.32	180	290657	36.80 ug/L	100
86) hexachlorobutadiene	15.55	225	173342	37.51 ug/L	99
87) naphthalene	15.60	128	508116	34.60 ug/L	99
88) 1,2,3-trichlorobenzene	15.90	180	223248	35.02 ug/L	98
89) 2-methylnaphthalene	17.00	142	162761	29.13 ug/L	99

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

LCS / LCS DUPLICATE RECOVERY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water

SDG: KNM070512
Project: KNM
Laboratory ID: 1210102-BS2
Preparation: 5030B Aqueous Purge & Trap
Initial/Final: 5 mL / 5 mL

QC Batch: 1210102
Sequence: 2H20050

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	42.5	106	84 - 119	ug/L
Chlorobenzene	40.0	40.7	102	84 - 118	ug/L
1,1-Dichloroethene	40.0	42.6	107	77 - 123	ug/L
Toluene	40.0	42.5	106	85 - 118	ug/L
Trichloroethene	40.0	40.8	102	82 - 119	ug/L

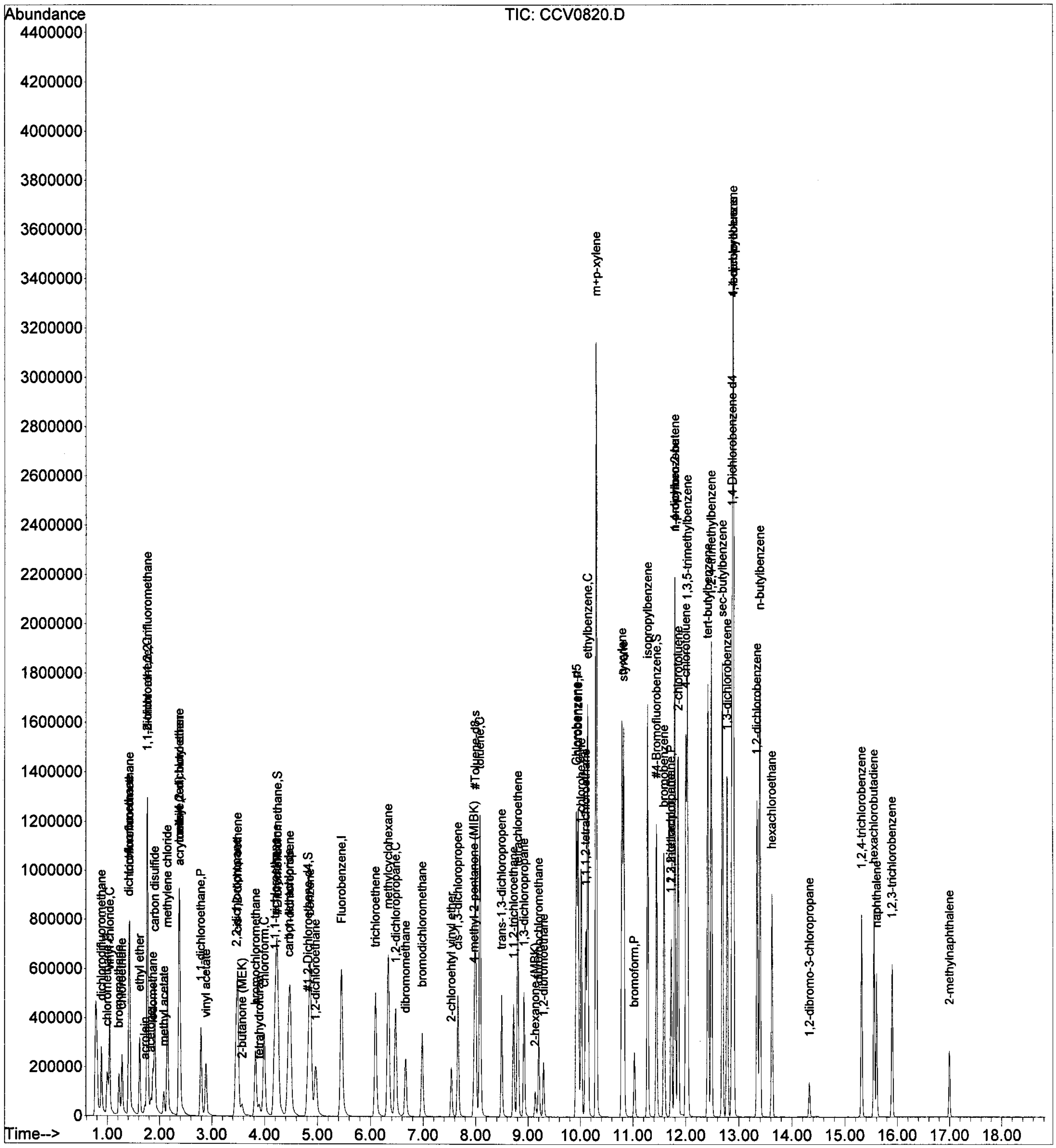
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-20-12\
Data File : CCV0820.D
InstName : 323
Acq On : 20 Aug 2012 8:45 am
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 14:16:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration



Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-20-12\
Data File : CCV0820.D
InstName : 323
Acq On : 20 Aug 2012 8:45 am
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 14:16:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	900274	40.00	ug/L	0.00 86.04%
50) Chlorobenzene-d5	9.92	117	730405	40.00	ug/L	0.00 87.54%
65) 1,4-Dichlorobenzene-d4	12.87	152	491591	40.00	ug/L	0.00 88.68%
System Monitoring Compounds						
30) #Dibromofluoromethane	4.25	111	220955	40.55	ug/L	-0.01
Spiked Amount 40.000			Recovery = 101.38%			
37) #1,2-Dichloroethane-d4	4.82	67	128410	38.49	ug/L	-0.02
Spiked Amount 40.000			Recovery = 96.23%			
46) #Toluene-d8	7.99	98	900165	40.16	ug/L	0.00
Spiked Amount 40.000			Recovery = 100.40%			
64) #4-Bromofluorobenzene	11.45	95	371734	40.05	ug/L	0.00
Spiked Amount 40.000			Recovery = 100.13%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.88	85	250367	41.64	ug/L	99
3) chloromethane	1.00	50	293240	44.91	ug/L	99
4) vinyl chloride	1.04	62	335765	45.34	ug/L	100
5) bromomethane	1.22	94	128178	47.85	ug/L	100
6) chloroethane	1.28	64	205879	47.69	ug/L	98
7) dichlorofluoromethane	1.41	67	487912	47.92	ug/L	100
8) trichlorofluoromethane	1.43	101	428654	46.48	ug/L	99
9) ethyl ether	1.62	74	122487	40.65	ug/L	91
10) acrolein	1.72	56	29861	39.47	ug/L #	96
11) 1,1,2-trichloro-1,2,2-trif	1.77	101	244741	46.48	ug/L	98
12) 1,1-dichloroethene	1.77	96	250456	42.62	ug/L	88
13) acetone	1.84	43	51795	28.47	ug/L	97
14) iodomethane	1.87	142	239465	32.43	ug/L	97
15) carbon disulfide	1.91	76	698124	48.30	ug/L	100
16) methyl acetate	2.08	43	124295	35.75	ug/L	98
17) methylene chloride	2.15	49	350052	46.39	ug/L	95
18) acrylonitrile	2.39	53	64152	35.50	ug/L	96
19) trans-1,2-dichloroethene	2.37	96	238194	38.50	ug/L	94
20) methyl (tert) butyl ether	2.38	73	442509	32.80	ug/L	100
21) 1,1-dichloroethane	2.79	63	411317	42.53	ug/L	100
22) vinyl acetate	2.89	43	380888	40.90	ug/L	98
23) 2,2-dichloropropane	3.46	77	249456	38.36	ug/L	99
24) cis-1,2-dichloroethene	3.49	96	248062	42.47	ug/L	97
25) 2-butanone (MEK)	3.58	43	59291	32.18	ug/L	92
26) bromochloromethane	3.83	49	190630	41.89	ug/L	95
27) tetrahydrofuran	3.90	71	13375	30.65	ug/L	83
28) chloroform	3.99	83	391872	42.11	ug/L	99
29) 1,1,1-trichloroethane	4.19	97	330974	42.19	ug/L	97
31) cyclohexane	4.23	56	404600	44.39	ug/L	97
32) carbon tetrachloride	4.45	117	308851	45.37	ug/L	100
33) 1,1-dichloropropene	4.48	75	324633	43.05	ug/L	99
34) benzene	4.86	78	929685	42.49	ug/L	88
35) 1,2-dichloroethane	4.97	62	276283	39.44	ug/L	99
36) heptane	4.23	57	18054	No Calib	#	

Quantitation Report (Not Edited)

Data Path : C:\MSDChem\1\DATA\08-20-12\
Data File : CCV0820.D
InstName : 323
Acq On : 20 Aug 2012 8:45 am
Operator : DLV
Sample : CCV/BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 14:16:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
38) trichloroethene	6.10	130	249680	40.75 ug/L	98
39) methylcyclohexane	6.34	83	392722	43.72 ug/L	98
40) 1,2-dichloropropane	6.47	63	219646	41.92 ug/L	100
41) dibromomethane	6.66	93	111359	39.46 ug/L	96
42) bromodichloromethane	6.98	83	285365	43.85 ug/L	100
43) 2-chloroehtyl vinyl ether	7.54	63	95492	34.73 ug/L	99
44) cis-1,3-dichloropropene	7.66	75	310982	41.62 ug/L	95
45) 4-methyl-2-pentanone (MIBK	7.96	43	127470	29.43 ug/L #	96
47) toluene	8.08	91	1030330	42.48 ug/L	100
48) trans-1,3-dichloropropene	8.49	75	265774	34.26 ug/L	94
49) 1,1,2-trichloroethane	8.72	83	133091	38.74 ug/L	99
51) tetrachloroethene	8.81	166	304332	40.86 ug/L	98
52) 1,3-dichloropropane	8.92	76	300905	38.25 ug/L	100
53) 2-hexanone (MBK)	9.13	43	84786	28.10 ug/L	95
54) dibromochloromethane	9.20	129	198991	37.03 ug/L	100
55) 1,2-dibromoethane	9.30	109	150976	37.18 ug/L	99
56) chlorobenzene	9.96	112	695136	40.73 ug/L	95
57) 1-chlorohexane	10.02	55	249139	45.53 ug/L	87
58) 1,1,1,2-tetrachloroethane	10.10	131	226979	37.61 ug/L	99
59) ethylbenzene	10.14	91	1216457	42.48 ug/L	100
60) m+p-xylene	10.30	106	1004164	84.24 ug/L	93
61) o-xylene	10.79	106	468485	41.79 ug/L	98
62) styrene	10.83	104	830321	41.49 ug/L	94
63) bromoform	11.03	173	131401	33.87 ug/L	100
66) isopropylbenzene	11.28	105	1145221	40.89 ug/L	100
67) bromobenzene	11.59	77	460054	40.26 ug/L	93
68) 1,1,2,2-tetrachloroethane	11.72	83	209134	36.86 ug/L #	99
69) 1,2,3-trichloropropane	11.73	110	63055	34.29 ug/L	93
70) 1,4-dichloro-2-butene	11.79	53	72269	40.53 ug/L #	70
71) n-propylbenzene	11.80	120	361415	41.08 ug/L	96
72) 2-chlorotoluene	11.86	126	302793	39.86 ug/L	92
73) 1,3,5-trimethylbenzene	12.04	105	1057958	40.95 ug/L	99
74) 4-chlorotoluene	12.00	91	1020486	41.20 ug/L	97
75) tert-butylbenzene	12.42	119	912488	40.09 ug/L	96
76) 1,2,4-trimethylbenzene	12.48	105	1084900	41.07 ug/L	98
77) sec-butylbenzene	12.69	105	1362187	41.05 ug/L	99
78) 1,3-dichlorobenzene	12.78	146	641679	39.77 ug/L	98
79) 4-isopropyltoluene	12.89	119	1261997	40.99 ug/L	97
80) 1,4-dichlorobenzene	12.90	146	679482	40.07 ug/L	99
81) 1,2-dichlorobenzene	13.34	146	568940	38.90 ug/L	99
82) n-butylbenzene	13.39	91	1046824	42.23 ug/L	99
83) hexachloroethane	13.62	201	163032	36.36 ug/L #	92
84) 1,2-dibromo-3-chloropropan	14.33	157	42366	30.21 ug/L	97
85) 1,2,4-trichlorobenzene	15.32	180	281674	35.74 ug/L	99
86) hexachlorobutadiene	15.55	225	180597	39.16 ug/L	100
87) naphthalene	15.60	128	468426	31.97 ug/L	99
88) 1,2,3-trichlorobenzene	15.90	180	211703	33.28 ug/L	99
89) 2-methylnaphthalene	17.00	142	136847	24.83 ug/L	99

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

LCS / LCS DUPLICATE RECOVERY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1210102

SDG: KNM070512

Project: KNM

Laboratory ID: 1210102-BSD2

Preparation: 5030B Aqueous Purge & Trap

Initial/Final: 5 mL / 5 mL

Sequence: 2H20050

Analyte	Spike Added ug/L	LCSD Conc.	LCSD % Rec. #	% RPD #	QC Limits RPD	QC Limits Rec.	Units
Benzene	40.0	42.0	105	1	20	84 - 119	ug/L
Chlorobenzene	40.0	40.4	101	0.9	20	84 - 118	ug/L
1,1-Dichloroethene	40.0	43.4	108	2	20	77 - 123	ug/L
Toluene	40.0	41.8	104	2	20	85 - 118	ug/L
Trichloroethene	40.0	40.3	101	1	20	82 - 119	ug/L

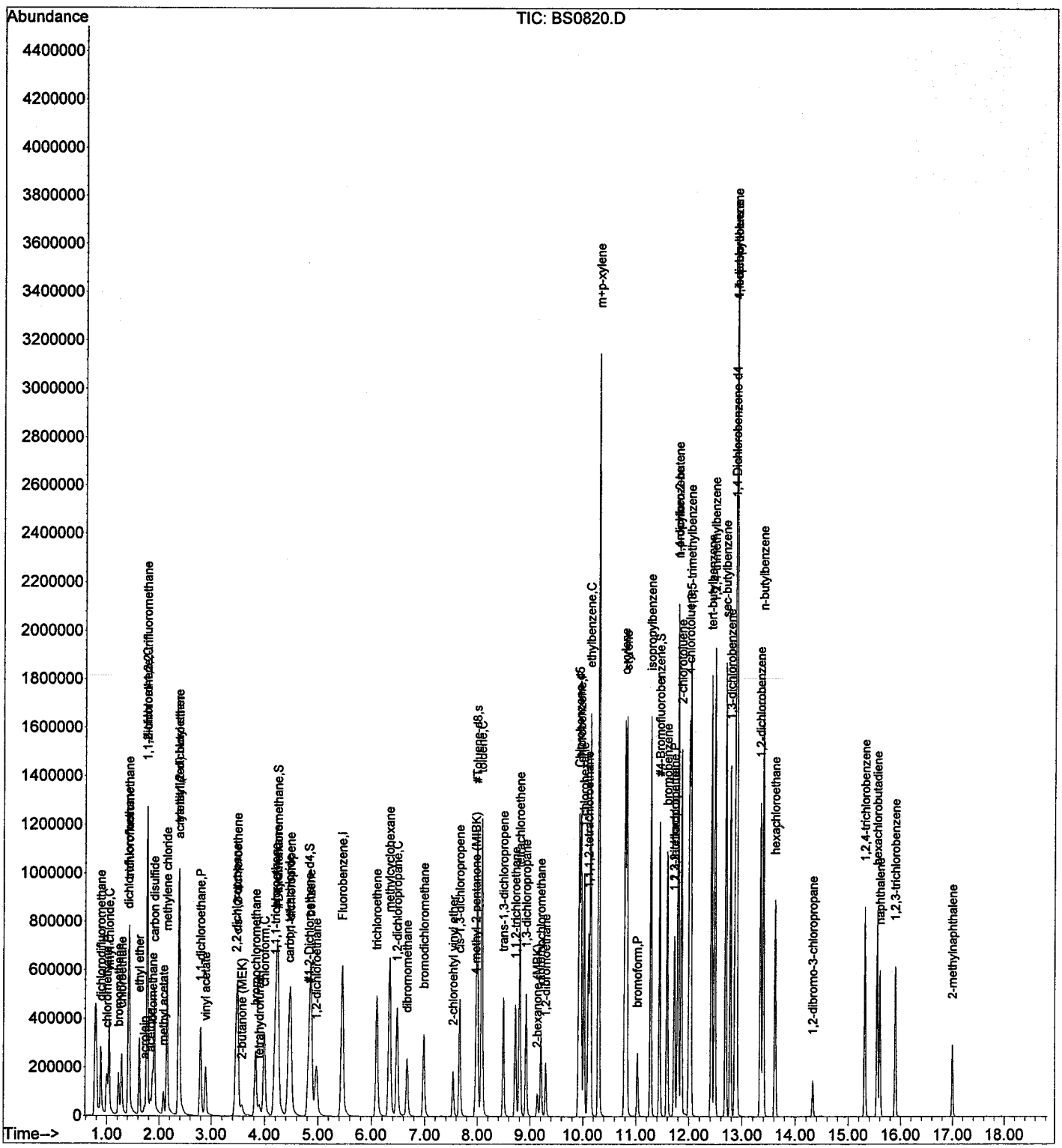
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-20-12\
Data File : BS0820.D
InstName : 323
Acq On : 20 Aug 2012 9:12
Operator : DLV
Sample : BS/BSD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 20 14:15:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration



01295

Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-20-12\
Data File : BS0820.D
InstName : 323
Acq On : 20 Aug 2012 9:12
Operator : DLV
Sample : BS/BSD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 20 14:15:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) Fluorobenzene	5.46	96	916974	40.00 ug/L	0.00 87.64%
50) Chlorobenzene-d5	9.92	117	745518	40.00 ug/L	0.00 89.35%
65) 1,4-Dichlorobenzene-d4	12.87	152	506962	40.00 ug/L	0.00 91.45%
System Monitoring Compounds					
30) #Dibromofluoromethane	4.25	111	223106	40.19 ug/L	-0.01
Spiked Amount 40.000			Recovery =	100.48%	
37) #1,2-Dichloroethane-d4	4.82	67	131487	38.70 ug/L	-0.01
Spiked Amount 40.000			Recovery =	96.75%	
46) #Toluene-d8	7.99	98	918252	40.22 ug/L	0.00
Spiked Amount 40.000			Recovery =	100.55%	
64) #4-Bromofluorobenzene	11.45	95	380827	40.19 ug/L	0.00
Spiked Amount 40.000			Recovery =	100.48%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.88	85	250463	40.90 ug/L	99
3) chloromethane	1.00	50	290429	43.67 ug/L	99
4) vinyl chloride	1.04	62	331516	43.95 ug/L	100
5) bromomethane	1.23	94	137809	50.50 ug/L	99
6) chloroethane	1.28	64	203577	46.30 ug/L	99
7) dichlorofluoromethane	1.41	67	481010	46.38 ug/L	100
8) trichlorofluoromethane	1.43	101	433848	46.19 ug/L	96
9) ethyl ether	1.62	74	127576	41.57 ug/L	98
10) acrolein	1.72	56	29170	37.86 ug/L #	99
11) 1,1,2-trichloro-1,2,2-trif	1.77	101	249881	46.60 ug/L	95
12) 1,1-dichloroethene	1.77	96	259549	43.36 ug/L	94
13) acetone	1.84	43	48715	25.31 ug/L	97
14) iodomethane	1.88	142	237728	31.74 ug/L	97
15) carbon disulfide	1.91	76	642718	43.65 ug/L	100
16) methyl acetate	2.08	43	122312	34.54 ug/L	98
17) methylene chloride	2.15	49	347379	45.17 ug/L	95
18) acrylonitrile	2.39	53	69043	37.51 ug/L	99
19) trans-1,2-dichloroethene	2.37	96	278901	44.26 ug/L	98
20) methyl (tert) butyl ether	2.38	73	502978	36.60 ug/L	100
21) 1,1-dichloroethane	2.79	63	412234	41.85 ug/L	100
22) vinyl acetate	2.89	43	355383	37.46 ug/L	98
23) 2,2-dichloropropane	3.46	77	251052	37.90 ug/L	100
24) cis-1,2-dichloroethene	3.49	96	248764	41.82 ug/L	98
25) 2-butanone (MEK)	3.58	43	56965	30.35 ug/L	92
26) bromochloromethane	3.83	49	190161	41.02 ug/L	96
27) tetrahydrofuran	3.90	71	13601	30.60 ug/L	90
28) chloroform	3.99	83	389936	41.14 ug/L	100
29) 1,1,1-trichloroethane	4.19	97	329744	41.27 ug/L	97
31) cyclohexane	4.23	56	399922	43.07 ug/L	97
32) carbon tetrachloride	4.45	117	304846	43.96 ug/L	99
33) 1,1-dichloropropene	4.49	75	324672	42.27 ug/L	99
34) benzene	4.86	78	936480	42.02 ug/L	88
35) 1,2-dichloroethane	4.97	62	275220	38.57 ug/L	99
36) heptane	4.23	57	17926	No Calib #	

Quantitation Report (Not Edited)

Data Path : C:\MSDCHEM\1\DATA\08-20-12\
Data File : BS0820.D
InstName : 323
Acq On : 20 Aug 2012 9:12
Operator : DLV
Sample : BS/BSD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 20 14:15:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\8260B-A168.M
Quant Title : VOLATILE GC/MS BY EPA 8260B/624/524.2
QLast Update : Thu Aug 16 11:13:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min) Rcv(Ar)
38) trichloroethene	6.10	130	251656	40.33 ug/L		98
39) methylcyclohexane	6.34	83	392998	42.96 ug/L		98
40) 1,2-dichloropropane	6.48	63	221312	41.47 ug/L		99
41) dibromomethane	6.67	93	110459	38.43 ug/L		97
42) bromodichloromethane	6.98	83	286995	43.30 ug/L		100
43) 2-chloroehtyl vinyl ether	7.54	63	90684	32.38 ug/L		98
44) cis-1,3-dichloropropene	7.66	75	313529	41.20 ug/L		95
45) 4-methyl-2-pentanone (MIBK	7.96	43	119804	27.16 ug/L	#	94
47) toluene	8.08	91	1032447	41.79 ug/L		99
48) trans-1,3-dichloropropene	8.49	75	268804	34.04 ug/L		95
49) 1,1,2-trichloroethane	8.72	83	133262	38.08 ug/L		99
51) tetrachloroethene	8.80	166	301465	39.65 ug/L		98
52) 1,3-dichloropropane	8.92	76	301221	37.51 ug/L		100
53) 2-hexanone (MBK)	9.13	43	79449	25.91 ug/L		96
54) dibromochloromethane	9.20	129	203081	37.03 ug/L		99
55) 1,2-dibromoethane	9.30	109	152923	36.89 ug/L		100
56) chlorobenzene	9.96	112	703163	40.37 ug/L		95
57) 1-chlorohexane	10.02	55	247856	44.38 ug/L		88
58) 1,1,1,2-tetrachloroethane	10.10	131	227725	37.02 ug/L		99
59) ethylbenzene	10.14	91	1226258	41.96 ug/L		100
60) m+p-xylene	10.30	106	1011734	83.16 ug/L		94
61) o-xylene	10.79	106	472074	41.25 ug/L		98
62) styrene	10.83	104	848136	41.52 ug/L		94
63) bromoform	11.03	173	131268	33.24 ug/L		99
66) isopropylbenzene	11.28	105	1150349	39.83 ug/L		100
67) bromobenzene	11.59	77	466393	39.57 ug/L		93
68) 1,1,2,2-tetrachloroethane	11.73	83	208940	35.71 ug/L	#	99
69) 1,2,3-trichloropropane	11.73	110	63853	33.67 ug/L		93
70) 1,4-dichloro-2-butene	11.79	53	70966	38.59 ug/L	#	70
71) n-propylbenzene	11.80	120	364105	40.13 ug/L		96
72) 2-chlorotoluene	11.86	126	310367	39.62 ug/L		93
73) 1,3,5-trimethylbenzene	12.03	105	1072960	40.27 ug/L		98
74) 4-chlorotoluene	12.01	91	1036850	40.59 ug/L		97
75) tert-butylbenzene	12.42	119	926275	39.46 ug/L		96
76) 1,2,4-trimethylbenzene	12.48	105	1113380	40.87 ug/L		98
77) sec-butylbenzene	12.69	105	1377105	40.24 ug/L		99
78) 1,3-dichlorobenzene	12.78	146	655409	39.39 ug/L		98
79) 4-isopropyltoluene	12.89	119	1268829	39.96 ug/L		97
80) 1,4-dichlorobenzene	12.90	146	695839	39.79 ug/L		99
81) 1,2-dichlorobenzene	13.34	146	575559	38.16 ug/L		99
82) n-butylbenzene	13.39	91	1066086	41.70 ug/L		99
83) hexachloroethane	13.63	201	164522	35.70 ug/L	#	91
84) 1,2-dibromo-3-chloropropan	14.33	157	42801	29.65 ug/L		96
85) 1,2,4-trichlorobenzene	15.32	180	290792	35.77 ug/L		99
86) hexachlorobutadiene	15.55	225	184151	38.72 ug/L		100
87) naphthalene	15.60	128	480260	31.79 ug/L		98
88) 1,2,3-trichlorobenzene	15.90	180	217589	33.17 ug/L		99
89) 2-methylnaphthalene	17.00	142	151481	26.52 ug/L		99

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

TriMatrix Laboratories, Inc.

PREPARATION BATCH 1208743

Printed: 7/19/2012 10:14:43AM

Volatiles MS, Water, 5030B Aqueous Purge & Trap

Surrogate #1 = 2070367 (Static)

Batch Comments: (none)

01298

Standard	Description	Solvent	LotNum
2070367	8260B Static Surrogate 06-12-12	MeOH H45E36	CD-1263
2070660	8260 Working Standard B 07-17-:	MeOH-G50E19	NA

Work Order	Analysis	Work Order	Analysis	Work Order	Analysis
1207057	8260B TCL OLM 4.3 VOAs	1207057	8260B MDEQ+ VOAs	1207107	8260B MDEQ+ VOAs
1207122	8260B TCL OLM 4.3 VOAs	1207155	8260B TCL OLM 4.3 VOAs	1207213	8260B TCL OLM 4.3 VOAs
1207239	8260B TCL OLM 4.3 VOAs				

Balance ID: _____ **pH Meter:** _____

Lab Number	Contain	Prepared	By	Initial (mL)	Final (mL)	uL Surrogate	Source ID	Spike ID	uL Spike	Client / QC Type	Extraction Comments
1208743-BLK1		Jul-18-12 08:00	DLV	5	5	1				BLANK	
1208743-BS1		Jul-18-12 08:00	DLV	5	5	1		2070660	2	LCS	
1208743-MS1		Jul-18-12 08:00	DLV	5	5	1	1207057-01	2070660	2	MATRIX SPIKE	
1208743-MSD1		Jul-18-12 08:00	DLV	5	5	1	1207057-01	2070660	2	MATRIX SPIKE DUP	
1207057-01	A	Jul-18-12 08:00	DLV	5	5	1				TechLaw	
1207057-02	A	Jul-18-12 08:00	DLV	5	5	1				TechLaw	
1207107-20	A	Jul-18-12 08:00	DLV	5	5	1					
1207107-21	A	Jul-18-12 08:00	DLV	5	5	1					
1207107-22	A	Jul-18-12 08:00	DLV	5	5	1					
1207107-23	A	Jul-18-12 08:00	DLV	5	5	1					
1207107-24	A	Jul-18-12 08:00	DLV	5	5	1					
1207107-25	A	Jul-18-12 08:00	DLV	5	5	1					
1207107-26	A	Jul-18-12 08:00	DLV	5	5	1					
1207122-01	A	Jul-18-12 08:00	DLV	5	5	1				TechLaw	
1207122-02	A	Jul-18-12 08:00	DLV	5	5	1				TechLaw	
1207155-02	A	Jul-18-12 08:00	DLV	5	5	1				[redacted]	
1207155-09	A	Jul-18-12 08:00	DLV	5	5	1				[redacted]	

Comments:

Analyst Initials:

Volatiles MS, Water, 5030B Aqueous Purge & Trap

Surrogate #1 = 2070367 (Static)

Batch Comments: (none)

Balance ID: _____ **pH Meter:** _____

Lab Number	Contain	Prepared	By	Initial (mL)	Final (mL)	uL Surrogate	Source ID	Spike ID	uL Spike	Client / QC Type	Extraction Comments
1207155-10	A	Jul-18-12 08:00	DLV	5	5	1				[redacted]	
1207213-01	A	Jul-18-12 08:00	DLV	5	5	1				TechLaw	
1207213-02	A	Jul-18-12 08:00	DLV	5	5	1				TechLaw	
1207239-01	A	Jul-18-12 08:00	DLV	5	5	1				TechLaw	
1207239-02	A	Jul-18-12 08:00	DLV	5	5	1				TechLaw	
1207239-03	A	Jul-18-12 08:00	DLV	5	5	1				TechLaw	
1207057-01	A	Jul-19-12 08:50	DLV	5	5	1				TechLaw	Added for BatchQC in: 1208743

Comments:	Analyst Initials:

Volatiles MS, Water, 5030B Aqueous Purge & Trap

Surrogate #1 = 2070367 (Static)

Batch Comments: (none)

Standard	Description	Solvent	LotNum
2070367	8260B Static Surrogate 06-12-12	MeOH H45E36	CD-1263
2070814	8260B Working Std A 07-20-12	Solvent Lot #K14E06	001

Work Order	Analysis	Work Order	Analysis	Work Order	Analysis
1207258	8260B TCL OLM 4.3 VOAs	1207260	8260B TCL OLM 4.3 VOAs	1207260	8260B MDEQ+ VOAs
1207260	8260B DoD VOAs plus custom	1207292	8260B TCL OLM 4.3 VOAs	1207349	8260B DoD VOAs plus custom
1207368	8260B TCL OLM 4.3 VOAs	1207370	8260B TCL OLM 4.3 VOAs	1207404	8260B TCL OLM 4.3 VOAs

Balance ID: _____ **pH Meter:** _____

Lab Number	Contain	Prepared	By	Initial (mL)	Final (mL)	uL Surrogate	Source ID	Spike ID	uL Spike	Client / QC Type	Extraction Comments
1209178-BLK1		Jul-26-12 08:00	LEW	5	5	1				BLANK	
1209178-BS1		Jul-26-12 08:00	LEW	5	5	1		2070814	2	LCS	
1209178-MS1		Jul-26-12 08:00	LEW	5	5	1	1207260-01	2070814	8	MATRIX SPIKE	
1209178-MSD1		Jul-26-12 08:00	LEW	5	5	1	1207260-01	2070814	8	MATRIX SPIKE DUP	
1207258-01	B	Jul-26-12 08:00	LEW	5	5	1				TechLaw	
1207258-02	A	Jul-26-12 08:00	LEW	5	5	1				TechLaw	
1207258-03	A	Jul-26-12 08:00	LEW	5	5	1				TechLaw	
1207260-01	B	Jul-26-12 08:00	LEW	5	5	1				[redacted]	
1207292-01	A	Jul-26-12 08:00	LEW	5	5	1				TechLaw	
1207292-02	A	Jul-26-12 08:00	LEW	5	5	1				TechLaw	
1207292-03	A	Jul-26-12 08:00	LEW	5	5	1				TechLaw	
1207349-01	B	Jul-26-12 08:00	LEW	5	5	1				[redacted]	BTEX + MTBE
1207368-01	A	Jul-26-12 08:00	LEW	5	5	1				TechLaw	
1207368-02	A	Jul-26-12 08:00	LEW	5	5	1				TechLaw	
1207370-01	A	Jul-26-12 08:00	LEW	5	5	1				TechLaw	
1207370-02	A	Jul-26-12 08:00	LEW	5	5	1				TechLaw	
1207404-01	A	Jul-26-12 08:00	LEW	5	5	1				TechLaw	

Comments:	Analyst Initials:

Volatiles MS, Water, 5030B Aqueous Purge & Trap

Surrogate #1 = 2070367 (Static)

Batch Comments: (none)

Balance ID: _____ **pH Meter:** _____

Lab Number	Container	Prepared	By	Initial (mL)	Final (mL)	uL Surrogate	Source ID	Spike ID	uL Spike	Client/ QC Type	Extraction Comments
1207404-02	A	Jul-26-12 08:00	LEW	5	5	1				TechLaw	
1207260-01	B	Jul-27-12 15:07	LEW	5	5	1				[redacted]	Added for BatchQC in: 1209178
1207260-01	B	Jul-27-12 15:07	LEW	5	5	1				[redacted]	Added for BatchQC in: 1209178

Comments:	Analyst Initials:

TriMatrix Laboratories, Inc.

PREPARATION BATCH 1209584

Printed: 8/28/2012 3:16:04PM

Volatiles MS, Water, 5030B Aqueous Purge & Trap

Surrogate #1 = 2070367 (Static)

Batch Comments: (none)

Standard	Description	Solvent	LotNum
2070367	8260B Static Surrogate 06-12-12	MeOH H45E36	CD-1263
2080064	8260 Working Standard B 08-01-:	MeOH-G50E19	NA

Work Order	Analysis	Work Order	Analysis	Work Order	Analysis
1208015	8260B TCL OLM 4.3 VOAs	1208015	8260B MDEQ+ VOAs	1208015	8260B DoD VOAs plus custom
1208053	8260B DoD VOAs plus custom	1208057	8260B TCL OLM 4.3 VOAs	1208063	8260B TCL OLM 4.3 VOAs
1208066	8260B MDEQ+ VOAs				

Balance ID: _____ **pH Meter:** _____

Lab Number	Contain	Prepared	By	Initial (mL)	Final (mL)	uL Surrogate	Source ID	Spike ID	uL Spike	Client / QC Type	Extraction Comments
1209584-BLK1		Aug-06-12 08:00	DLV	5	5	1				BLANK	
1209584-BS1		Aug-06-12 08:00	DLV	5	5	1		2080064	2	LCS	
1209584-MS1		Aug-06-12 08:00	DLV	5	5	1	1208015-01	2080064	2	MATRIX SPIKE	
1209584-MSD1		Aug-06-12 08:00	DLV	5	5	1	1208015-01	2080064	2	MATRIX SPIKE DUP	
1208015-01	E	Aug-06-12 08:00	DLV	5	5	1				TechLaw	
1208015-02	E	Aug-06-12 08:00	DLV	5	5	1				TechLaw	
1208015-03	E	Aug-06-12 08:00	DLV	5	5	1				TechLaw	
1208053-03	A	Aug-06-12 08:00	DLV	5	5	1				[redacted]	
1208053-04RE1	B	Aug-06-12 08:00	DLV	5	5	1				[redacted]	From 1209482 by DLV on Aug-07-12
1208053-05RE1	B	Aug-06-12 08:00	DLV	5	5	1				[redacted]	From 1209482 by DLV on Aug-07-12
1208057-01	E	Aug-06-12 08:00	DLV	5	5	1				TechLaw	
1208063-01	A	Aug-06-12 08:00	DLV	5	5	1				[redacted]	
1208063-02	A	Aug-06-12 08:00	DLV	5	5	1				[redacted]	
1208066-10	A	Aug-06-12 08:00	DLV	5	5	1				[redacted]	
1208066-12	A	Aug-06-12 08:00	DLV	5	5	1				[redacted]	
1208015-01	A	Aug-07-12 08:36	DLV	5	5	1				TechLaw	Added for BatchQC in: 1209584
1208015-01	A	Aug-07-12 08:36	DLV	5	5	1				TechLaw	Added for BatchQC in: 1209584

Comments:

Analyst Initials:

TriMatrix Laboratories, Inc.

PREPARATION BATCH 1210102

Printed: 8/28/2012 3:16:27PM

Volatiles MS, Water, 5030B Aqueous Purge & Trap

Surrogate #1 = 2080229 (Static)

Batch Comments: (none)

01303

Standard	Description	Solvent	LotNum
2080229	8260B Static Surrogate 06-12-12	MeOH H45E36	CD-1263
2080310	8260 Working Standard B 08-08-:	MeOH-G50E19	NA

Work Order	Analysis	Work Order	Analysis	Work Order	Analysis
1208169	8260B TCL OLM 4.3 VOAs	1208170	8260B TCL OLM 4.3 VOAs	1208192	8260B TCL OLM 4.3 VOAs
1208199	8260B MDEQ+ VOAs	1208202	8260B TCL OLM 4.3 VOAs	1208202	8260B MDEQ+ VOAs

Balance ID: _____ **pH Meter:** _____

Lab Number	Contain	Prepared	By	Initial (mL)	Final (mL)	uL Surrogate	Source ID	Spike ID	uL Spike	Client/QC Type	Extraction Comments
1210102-BLK1		Aug-17-12 12:00	DLV	5	5	1				BLANK	
1210102-BS1		Aug-17-12 12:00	DLV	5	5	1		2080310	2	LCS	
1210102-MS1		Aug-17-12 12:00	DLV	5	5	1	1208202-08	2080310	2	MATRIX SPIKE	
1210102-MSD1		Aug-17-12 12:00	DLV	5	5	1	1208202-08	2080310	2	MATRIX SPIKE DUP	
1208169-02	D	Aug-17-12 12:00	DLV	5	5	1				TechLaw	
1208170-01	D	Aug-17-12 12:00	DLV	5	5	1				TechLaw	
1208170-02	D	Aug-17-12 12:00	DLV	5	5	1				TechLaw	
1208192-01	D	Aug-17-12 12:00	DLV	5	5	1				TechLaw	
1208199-05	A	Aug-17-12 12:00	DLV	5	5	1					
1208199-06	A	Aug-17-12 12:00	DLV	5	5	1					
1208199-07	A	Aug-17-12 12:00	DLV	5	5	1					
1208199-08	A	Aug-17-12 12:00	DLV	5	5	1					
1208199-09	A	Aug-17-12 12:00	DLV	5	5	1					
1208202-06	A	Aug-17-12 12:00	DLV	5	5	1					
1208202-08	A	Aug-17-12 12:00	DLV	5	5	1					
1208202-09	A	Aug-17-12 12:00	DLV	5	5	1					
1208202-10	A	Aug-17-12 12:00	DLV	5	5	1					
1208202-11	A	Aug-17-12 12:00	DLV	5	5	1					

Comments:

Analyst Initials:

Volatiles MS, Water, 5030B Aqueous Purge & Trap

Surrogate #1 = 2080229 (Static)

Batch Comments: (none)

Balance ID: _____ **pH Meter:** _____

Lab Number	Contain	Prepared	By	Initial (mL)	Final (mL)	uL Surrogate	Source ID	Spike ID	uL Spike	Client / QC Type	Extraction Comments
1208202-12	A	Aug-17-12 12:00	DLV	5	5	1				[redacted]	
1210102-BLK2		Aug-20-12 08:00	DLV	5	5	1				BLANK	
1210102-BS2		Aug-20-12 08:00	DLV	5	5	1		2080310	2	LCS	
1210102-BSD2		Aug-20-12 08:00	DLV	5	5	1		2080310	2	LCS DUP	
1208169-01	E	Aug-20-12 08:00	DLV	5	5	1				TechLaw	
1208202-08	A	Aug-20-12 13:12	DLV	5	5	1				[redacted]	Added for BatchQC in: 1210102

Comments:	Analyst Initials:

Volatiles MS, Water, Jul-18-12

Instrument = 224, Calibration = 2G19002

Sequence Analyses:
8260B MDEQ+ VOAs 8260B TCL OLM 4.3 VOAs

Lab Number	*Analysis*	*Contain*	*STD ID*	*ISTD ID*	*Client / QC Type*	*Extraction Comments*
2G19009-TUN1	QC		2031374	2060612	MS TUNE	
2G19009-CCV1	QC		2070512	2060612	CALIBRATION CHECK	
1208743-BS1	QC			2060612	LCS	
1208743-BLK1	QC			2060612	BLANK	
1207057-01	8260B TCL OLM 4.3 VOAs	D		2060612	TechLaw	
1207057-02	8260B TCL OLM 4.3 VOAs	D		2060612	TechLaw	
1207122-01	8260B TCL OLM 4.3 VOAs	D		2060612	TechLaw	
1207122-02	8260B TCL OLM 4.3 VOAs	D		2060612	TechLaw	
1207213-01	8260B TCL OLM 4.3 VOAs	D		2060612	TechLaw	
1207213-02	8260B TCL OLM 4.3 VOAs	D		2060612	TechLaw	
1207239-01	8260B TCL OLM 4.3 VOAs	D		2060612	TechLaw	
1207239-02	8260B TCL OLM 4.3 VOAs	D		2060612	TechLaw	
1207239-03	8260B TCL OLM 4.3 VOAs	D		2060612	TechLaw	
1207107-20	8260B MDEQ+ VOAs	A		2060612		
1207107-21	8260B MDEQ+ VOAs	A		2060612		
1207107-22	8260B MDEQ+ VOAs	A		2060612		
1207107-23	8260B MDEQ+ VOAs	A		2060612		
1207107-24	8260B MDEQ+ VOAs	A		2060612		
1207107-25	8260B MDEQ+ VOAs	A		2060612		
1207107-26	8260B MDEQ+ VOAs	A		2060612		
1207155-02	8260B TCL OLM 4.3 VOAs	A		2060612	[redacted]	
1207155-09	8260B TCL OLM 4.3 VOAs	A		2060612	[redacted]	
1207155-10	8260B TCL OLM 4.3 VOAs	A		2060612	[redacted]	
1208743-MS1	QC			2060612	MATRIX SPIKE	
1208743-MSD1	QC			2060612	MATRIX SPIKE DUP	

Comments:	Analyst Initials:

Volatiles MS, Water, Jul-26-12

Instrument = 328, Calibration = 2G27002

Sequence Analyses:

8260B DoD VOAs plus custom
8260B TCL OLM 4.3 VOAs
8260B MDEQ+ VOAs

Lab Number	*Analysis*	*Contain*	*STD ID*	*ISTD ID*	*Client / QC Type*	*Extraction Comments*
2G27052-TUN1	QC		2070719		MS TUNE	
2G27052-CCV1	QC		2071184	2060612	CALIBRATION CHECK	
1209178-BS1	QC			2060612	LCS	
1209178-BLK1	QC			2060612	BLANK	
1207258-02	8260B TCL OLM 4.3 VOAs	A		2060612	TechLaw	
1207258-03	8260B TCL OLM 4.3 VOAs	A		2060612	TechLaw	
1207292-01	8260B TCL OLM 4.3 VOAs	A		2060612	TechLaw	
1207292-02	8260B TCL OLM 4.3 VOAs	A		2060612	TechLaw	
1207292-03	8260B TCL OLM 4.3 VOAs	A		2060612	TechLaw	
1207368-01	8260B TCL OLM 4.3 VOAs	A		2060612	TechLaw	
1207368-02	8260B TCL OLM 4.3 VOAs	A		2060612	TechLaw	
1207370-01	8260B TCL OLM 4.3 VOAs	A		2060612	TechLaw	
1207370-02	8260B TCL OLM 4.3 VOAs	A		2060612	TechLaw	
1207404-02	8260B TCL OLM 4.3 VOAs	A		2060612	TechLaw	
1207404-01	8260B TCL OLM 4.3 VOAs	A		2060612	TechLaw	
1207349-01	8260B DoD VOAs plus custom	B		2060612	[redacted]	BTEX + MTBE
1207258-01	8260B TCL OLM 4.3 VOAs	B		2060612	TechLaw	
1207260-01	8260B MDEQ+ VOAs	B		2060612	[redacted]	
1209178-MS1	QC			2060612	MATRIX SPIKE	
1209178-MSD1	QC			2060612	MATRIX SPIKE DUP	

Comments:	Analyst Initials:

Volatiles MS, Water, Aug-06-12

Instrument = 224, Calibration = 2H01006

Sequence Analyses:

8260B DoD VOAs plus custom
8260B MDEQ+ VOAs
8260B TCL OLM 4.3 VOAs

Lab Number	*Analysis*	*Contain*	*STD ID*	*ISTD ID*	*Client / QC Type*	*Extraction Comments*
2H07013-TUN1	QC		2070719	2060612	MS TUNE	
2H07013-CCV1	QC		2070512	2060612	CALIBRATION CHECK	
1209584-BS1	QC			2060612	LCS	
1209584-BLK1	QC			2060612	BLANK	
1208066-10	8260B MDEQ+ VOAs	A		2060612	[redacted]	
1208066-12	8260B MDEQ+ VOAs	A		2060612	[redacted]	
1208015-01	8260B TCL OLM 4.3 VOAs	E		2060612	TechLaw	
1208015-02	8260B TCL OLM 4.3 VOAs	E		2060612	TechLaw	
1208015-03	8260B TCL OLM 4.3 VOAs	E		2060612	TechLaw	
1208057-01	8260B TCL OLM 4.3 VOAs	E		2060612	TechLaw	
1208053-03	8260B DoD VOAs plus custom	A		2060612	[redacted]	
1208053-04RE1	8260B DoD VOAs plus custom	B		2060612	[redacted]	From 1209482 by DLV on Aug-07-12
1208053-05RE1	8260B DoD VOAs plus custom	B		2060612	[redacted]	From 1209482 by DLV on Aug-07-12
1208063-01	8260B TCL OLM 4.3 VOAs	A		2060612	[redacted]	
1208063-02	8260B TCL OLM 4.3 VOAs	A		2060612	[redacted]	
1209584-MS1	QC			2060612	MATRIX SPIKE	
1209584-MSD1	QC			2060612	MATRIX SPIKE DUP	

Comments:	Analyst Initials:

Volatiles MS, Water, Aug-17-12

Instrument = 323, Calibration = 2H10001

Sequence Analyses:
8260B MDEQ+ VOAs 8260B TCL OLM 4.3 VOAs

Lab Number	*Analysis*	*Contain*	*STD ID*	*ISTD ID*	*Client / QC Type*	*Extraction Comments*
2H20042-TUN1	QC		2070719	2060612	MS TUNE	
2H20042-CCV1	QC		2080382	2060612	CALIBRATION CHECK	
1210102-BS1	QC			2060612	LCS	
1210102-BLK1	QC			2060612	BLANK	
1208202-06	8260B MDEQ+ VOAs	A		2060612		
1208202-12	8260B MDEQ+ VOAs	A		2060612		
1208199-07	8260B MDEQ+ VOAs	A		2060612		
1208199-09	8260B MDEQ+ VOAs	A		2060612		
1208202-08	8260B MDEQ+ VOAs	A		2060612		
1208202-09	8260B MDEQ+ VOAs	A		2060612		
1208202-10	8260B MDEQ+ VOAs	A		2060612		
1208202-11	8260B MDEQ+ VOAs	A		2060612		
1208199-05	8260B MDEQ+ VOAs	A		2060612		
1208199-06	8260B MDEQ+ VOAs	A		2060612		
1208199-08	8260B MDEQ+ VOAs	A		2060612		
1208169-02	8260B TCL OLM 4.3 VOAs	D		2060612	TechLaw	
1208170-01	8260B TCL OLM 4.3 VOAs	D		2060612	TechLaw	
1208170-02	8260B TCL OLM 4.3 VOAs	D		2060612	TechLaw	
1208192-01	8260B TCL OLM 4.3 VOAs	D		2060612	TechLaw	
1210102-MS1	QC			2060612	MATRIX SPIKE	
1210102-MSD1	QC			2060612	MATRIX SPIKE DUP	

Comments:

Analyst Initials:

Volatiles MS, Water, Aug-20-12

Instrument = 323, Calibration = 2H10001

Sequence Analyses:
8260B TCL OLM 4.3 VOAs

Lab Number	*Analysis*	*Contain*	*STD ID*	*ISTD ID*	*Client / QC Type*	*Extraction Comments*
2H20050-TUN1	QC		2070719	2060612	MS TUNE	
2H20050-CCV1	QC		2080382	2060612	CALIBRATION CHECK	
1210102-BS2	QC			2060612	LCS	
1210102-BSD2	QC			2060612	LCS DUP	
1210102-BLK2	QC			2060612	BLANK	
1208169-01	8260B TCL OLM 4.3 VOAs	E		2060612	TechLaw	

Comments:

Analyst Initials:

TRIMATRIX LABORATORIES

Instrument Number:	224	Acquisition Information		Temperature Program		Standard Information	
Column Type:	DB-624	Multiplier Voltage:		Step #1	45° C for 3 minutes	Curve Date:	7-17-12
Column Installation Date:	3/1/2005	Scan Range:	35-300	Step #2	15° C/minute to 200° C, hold for 1.00 minute	IS/SS Std.:	20600112
Injector Temperature:	200° C	Scan Rate:		Step #3		Working Std:	2070660
Detector Temperature:	230° C	Filament Delay:		Step #4		App. IX Std:	
Purge Flow (mL/min):		Quantitation Method:	8260B-633	Step #5		LCS Std:	

Date	Analyst	Method	Standard Prep uL Used	Standard Prep Final Vol. (mL)	Comments	pH <2	Acquisition Time	Client	Sample ID	Dilution	Matrix
7-17-12	DLV	8260B	25	50			14:46		BFB0717		
			1	200			15:15		0.5P0717		
			1	100			15:42		1P0717		
			5				16:08		5P0717		
			10				16:35		10P0717		
			20				17:02		20P0717		
			40				17:29		40P0717		
			100				17:56		100P0717		
							18:22		B1		
			200	100			18:49		200P0717		
							19:16		B2		
			20	50			19:43		SCV0717		
			25	50			20:36		BFB07178		
			20				21:03		CCV07178		
			1				21:30		BS07178		
							21:56		BB		
							22:23		BLK07178		
						✓	22:50	[redacted]	1207109-01		
						✓	23:17		02		
						✓	23:43		03		

01310

TRIMATRIX LABORATORIES

Instrument Number:	224	Acquisition Information		Temperature Program		Standard Information	
Column Type:	DB-624	Multiplier Voltage:		Step #1	45° C for 3 minutes	Curve Date:	7-17-12
Column Installation Date:	3/1/2005	Scan Range:	35-300	Step #2	15° C/minute to 200° C, hold for 1.00 minute	IS/SS Std.:	2060112
Injector Temperature:	200° C	Scan Rate:		Step #3		Working Std:	2070660
Detector Temperature:	230° C	Filament Delay:		Step #4		App. IX Std:	
Purge Flow (mL/min):		Quantitation Method:		Step #5		LCS Std:	

Date	Analyst	Method	Standard Prep uL Used	Standard Prep Final Vol. (mL)	Comments	pH <2	Acquisition Time	Client	Sample ID	Dilution	Matrix
7-18-12	DLV	8260B	25	50			8:12	QC	BFB0718		
			20				8:38		CCV0718		
			20				9:05		BS0718		
							9:32		B		
							9:59		BLK0718		
						✓	10:25	TechLaw	1207057-01		
						✓	10:52		02		
						✓	11:19		1207122-01		
						✓	11:45		02		
						✓	12:12		1207213-01		
						✓	12:39		02		
						✓	13:06		1207239-01		
						✓	13:32		02		
						✓	13:59		03		
						✓	14:26	[redacted]	1207107-20		
						✓	14:53		21		
						✓	15:19		22		
						✓	15:46		23		
						✓	16:13		24		
						✓	16:40		25		
						✓	17:06		26		

01311

TRIMATRIX LABORATORIES

Date	Analyst	Method	Standard Prep uL Used	Standard Prep Final Vol. (mL)	Comments	pH <2	Acquisition Time	Client	Sample ID	Dilution	Matrix
7-18-12	DLV	8260B				/	~~17:00~~ 17:33	[redacted]	1207155-02		
						/	~~17:33~~ 18:00	DLV 7/19/12	09		
						/	~~18:00~~ 18:27		10		
							18:54	Tech Law	05701 MS		
							19:20		MSD		
			25	50			19:47	QC	BFB0718AA		
			20				20:41		CCV0718A		
			20				21:08		BS0718A		
							21:34		BA		
							22:01		BLK0718A		
					rr 2x		22:28	[redacted]	1207200-01		
					rr 2x		22:55		02		
						/	23:21		03		
						/	23:48		04		
7-19-12						/	00:15		05		
						/	00:42		10		
						/	1:08		11		
						/	1:35		12		
						/	2:02		13		
						/	2:29		14		
						/	2:55		15		
						/	3:22		16		
						/	3:49		17		
						/	4:16		18		
						/	4:42		19		
						/	5:09		20		
						/	5:36		21	50x	
						/	6:03		22	20x	
						/	6:29		23	10x	
					rr 2x		6:56		20001 MS		
					rr 2x		7:23		MSD		

01912

TRIMATRIX LABORATORIES

Instrument Number:	328	Acquisition Information		Temperature Program		Standard Information	
Column Type:	DB-624	Multiplier Voltage:		Step #1	45° C for 3 minutes	Curve Date:	7-23-12
Column Installation Date:	12/23/2009	Scan Range:	35-300	Step #2	15° C/minute to 200° C, hold for 1.00 minute	IS/SS Std.:	2060612
Injector Temperature:	200° C	Scan Rate:		Step #3		Working Std:	2070814
Detector Temperature:	230° C	Filament Delay:		Step #4		App. IX Std:	
Purge Flow (mL/min):		Quantitation Method:		Step #5		LCS Std:	2070660

Date	Analyst	Method	Standard Prep uL Used	Standard Prep Final Vol. (mL)	Comments	pH <2	Acquisition Time	Client	Sample ID	Dilution	Matrix
7-23-12	LEW	8260B	25	50			1312	QC	BFB0723		
			1	200			1340		0.5p0723		
			1	100			1408		1p0723		
			5	100			1436		5p0723		
			5	50			1503		10p0723		
			10				1531		20p0723		
			20				1559		40p0723		
			50	50			1627		100p0723		
							1655		R		
			100	50			1723		200p0723		
							1750		R		
			20	50			1818		SCN0723		
7-23-12	LEW	8260B	5	100			1846		5pSCN0723		

TRIMATRIX LABORATORIES

Instrument Number:	328	Acquisition Information		Temperature Program		Standard Information	
Column Type:	DB-624	Multiplier Voltage:		Step #1	45° C for 3 minutes	Curve Date:	7-23-12
Column Installation Date:	12/23/2009	Scan Range:	35-300	Step #2	15° C/minute to 200° C, hold for 1.00 minute	IS/SS Std.:	2060612
Injector Temperature:	200° C	Scan Rate:		Step #3		Working Std:	2070814
Detector Temperature:	230° C	Filament Delay:		Step #4		App. IX Std:	
Purge Flow (mL/min):		Quantitation Method:		Step #5		LCS Std:	

Date	Analyst	Method	Standard Prep uL Used	Standard Prep Final Vol. (mL)	Comments	pH <2	Acquisition Time	Client	Sample ID	Dilution	Matrix
7-26-12	LEW	8260B	25	50			832	QC	BFB0726		
			20				900		CCV0726		
			20				927		BS0726		
							955		R1		
							1023		BLK0726		
					m@5x	✓	1051	[redacted]	1207260-01		
					m@5x	✓	1118	[redacted]	1207349-01		
					m@1x	✓	1146	Tech Law	1207258-01		
						✓	1211		-02		
						✓	1242		-03		
						✓	1310		1207292-01		
						✓	1337		-02		
						✓	1405		-03		
						✓	1433		-04		
						✓	1500		1207368-01		
						✓	1528		-02		
						✓	1556		1207370-01		
						✓	1624		-02		
						✓	1652		1207404-01		LEW 7-30-12
						✓	~~1747~~		~~1207258-01A~~		
						✓	1207404-02				
						✓	~~1815~~	[redacted] LEW 7-30-D	~~1207260-01A~~	4x	
7-26-12	LEW	8260B					1747		1207258-01A		
							1815	[redacted]	1207260-01A	4x	

TRIMATRIX LABORATORIES

Instrument Number:	224	Acquisition Information		Temperature Program		Standard Information	
Column Type:	DB-624	Multiplier Voltage:		Step #1	45° C for 3 minutes	Curve Date:	7-26-12
Column Installation Date:	3/1/2005	Scan Range:	35-300	Step #2	15° C/minute to 200° C, hold for 1.00 minute	IS/SS Std.:	2060112
Injector Temperature:	200° C	Scan Rate:		Step #3		Working Std:	2071124
Detector Temperature:	230° C	Filament Delay:		Step #4		App. IX Std:	
Purge Flow (mL/min):		Quantitation Method:		Step #5		LCS Std:	2071187

Date	Analyst	Method	Standard Prep uL Used	Standard Prep Final Vol. (mL)	Comments	pH <2	Acquisition Time	Client	Sample ID	Dilution	Matrix
7-26-12	DW	8260B	25	50			9:05		BFB0726		
			20				9:32		CCV0726		
			1				9:59		BS0726		
							10:25		B		
							10:52		BLK0726		
			1	100			11:35		1P0726		
			5	100			12:02		5P0726		
			5	50			12:28		10P0726		
			10				12:55		20P0726		
			20				13:22		40P0726		
			50				13:49		100P0726		
							14:15		R1		
			100	50			14:42		200P0726		
							15:09		R2		
			20	50			15:36		SCV0726		
		624	25	50			16:02	QC	BFB0726AA		
			20				16:56		CCV0726A		
			1				17:23		BS0726A		
							17:49		BA		
							18:16		BLK0726A		

01315

TRIMATRIX LABORATORIES

Instrument Number:	224	Acquisition Information		Temperature Program		Standard Information	
Column Type:	DB-624	Multiplier Voltage:		Step #1	45° C for 3 minutes	Curve Date:	7-26-12
Column Installation Date:	3/1/2005	Scan Range:	35-300	Step #2	15° C/minute to 200° C, hold for 1.00 minute	IS/SS Std.:	2060112
Injector Temperature:	200° C	Scan Rate:		Step #3		Working Std:	2071124
Detector Temperature:	230° C	Filament Delay:		Step #4		App. IX Std:	
Purge Flow (mL/min):		Quantitation Method:		Step #5		LCS Std:	

Date	Analyst	Method	Standard Prep uL Used	Standard Prep Final Vol. (mL)	Comments	pH <2	Acquisition Time	Client	Sample ID	Dilution	Matrix
8-6-12	DLV	8260B	25	50			8:04	GC	BFB0806		
			20	50			8:36		CB00806		
			1	1			9:03		BS0806		
							9:30		B		
							9:57		BLK0806		
						✓	10:23	[redacted]	1208066-10		
						✓	10:50		12		
						✓	11:17	TechLaw	1208015-01		
						✓	11:43		02		
						✓	12:10		03		
						✓	12:37		1208057-01		
						✓	13:04	[redacted]	1208053-03		
						✓	13:30		1208053-04RE	2x	
						✓	13:57		05RE	2x	
					Not needed		14:24		03RE	2x	
						✓	14:51	[redacted]	1207063-01		
						✓	15:17		02	2x	
							15:44	TechLaw	01501MS		
							16:11		01501MSD		
							16:38	[redacted]	1208044-01	100x	TCLP

91316

TRIMATRIX LABORATORIES

Instrument Number:	323	Acquisition Information		Temperature Program		Standard Information	
Column Type:	DB-624	Multiplier Voltage:		Step #1	45° C for 3 minutes	Curve Date:	8-8-12
Column Installation Date:		Scan Range:	35-300	Step #2	15° C/minute to 200° C, hold for 1.00 minute	IS/SS Std.:	2060612
Injector Temperature:	200° C	Scan Rate:		Step #3		Working Std:	2080310
Detector Temperature:	230° C	Filament Delay:		Step #4		App. IX Std:	
Purge Flow (mL/min):		Quantitation Method:	8260B-A169	Step #5		LCS Std:	2080338

Date	Analyst	Method	Standard Prep uL Used	Standard Prep Final Vol. (mL)	Comments	pH <2	Acquisition Time	Client	Sample ID	Dilution	Matrix
8-8-12	DLV	8260B	25	50			13:09		BFB0808		
			0.5	200			13:36		0.25P0808		
			1	200			14:04		0.5P0808		
			1	100			14:31		1P 0808		
			5				14:58		5P0808		
			10				15:25		10P 0808		
			20				15:53		20P 0808		
			40				16:20		40P0808		
			100				16:47		100P0808		
							17:14		B1		
			200	100			17:41		200P0808		
							18:09		B2		
			40	100			18:36		SCV0808		
			5	1			19:03		SCV524		
							19:30		BLK0808		
		624				✓	19:57	[redacted]	1208106-01		
						✓	20:25		02		
						✓	20:52	[redacted]	1208101-01		
						✓	21:19	[redacted]	1208056-05		
						✓	21:46		06		
						✓	22:13		07		

01317

TRIMATRIX LABORATORIES

Instrument Number:	323	Acquisition Information		Temperature Program		Standard Information	
Column Type:	DB-624	Multiplier Voltage:		Step #1	45° C for 3 minutes	Curve Date:	8-8-12
Column Installation Date:		Scan Range:	35-300	Step #2	15° C/minute to 200° C, hold for 1.00 minute	IS/SS Std.:	20060612
Injector Temperature:	200° C	Scan Rate:		Step #3		Working Std:	2080310
Detector Temperature:	230° C	Filament Delay:		Step #4		App. IX Std:	
Purge Flow (mL/min):		Quantitation Method:		Step #5		LCS Std:	

Date	Analyst	Method	Standard Prep uL Used	Standard Prep Final Vol. (mL)	Comments	pH <2	Acquisition Time	Client	Sample ID	Dilution	Matrix
8-17-12	DW	826006	25	50			12:13	GC	BFB0817A		
			20				12:49		CCV0817A		
			20				13:16		BS0817A		
							13:43		B		
							14:10		BLK0817A		
						✓	14:38	[redacted]	1208177-06REI	10x	
						✓	15:05		08REI	5x	
						✓	15:32	[redacted]	1208202-06		
						✓	15:59		12		
						✓	16:26		1208199-07		
						✓	16:54		09		
						✓	17:21		1208202-08		
						✓	17:48		09		
						✓	18:15		10		
						✓	18:43		11		
						✓	19:10		1208199-05		
						✓	19:37		06		
						✓	20:04		08		
						✓	20:31	TechLaw	1208169-02		
						✓	20:58		1208170-01		

01318

TRIMATRIX LABORATORIES

Date	Analyst	Method	Standard Prep uL Used	Standard Prep Final Vol. (mL)	Comments	pH <2	Acquisition Time	Client	Sample ID	Dilution	Matrix
8-17-12	DLV	8260B				✓	21:26	TechLand	1208170-02		
						✓	21:53		1208192-01		
					r 100x		22:20		1208169-01	50x	
							22:47	[redacted]	1207389-09		
							23:14	[redacted]	20208MS		
							23:42		20208MSD		

DW 8-20-12

01319

TRIMATRIX LABORATORIES

Instrument Number:	323	Acquisition Information		Temperature Program		Standard Information	
Column Type:	DB-624	Multiplier Voltage:		Step #1	45° C for 3 minutes	Curve Date:	8-8-12
Column Installation Date:		Scan Range:	35-300	Step #2	15° C/minute to 200° C, hold for 1.00 minute	IS/SS Std.:	7060612
Injector Temperature:	200° C	Scan Rate:		Step #3		Working Std:	7080310
Detector Temperature:	230° C	Filament Delay:		Step #4		App. IX Std:	
Purge Flow (mL/min):		Quantitation Method:	8260B-A168	Step #5		LCS Std:	

Date	Analyst	Method	Standard Prep uL Used	Standard Prep Final Vol. (mL)	Comments	pH <2	Acquisition Time	Client	Sample ID	Dilution	Matrix
8/20/12	DLV	8260B	25	50			8:18	QC	BFB 0820		
			20				8:45		CCU0820		
			20				9:12		DSO820		
							9:40		B		
							10:07		BLK0820		
						✓	10:34	Techlaw	1208169-01	100x	wtr

DLV 8-21-12

01320

TRIMATRIX
LABORATORIES

TechLaw
KNM

END OF REPORT

SDG: KNM070512

August 22, 2012

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