12065 Lebanon Rd
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(615) 758-5858
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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L801109

For: URS Corporation - Tucson AZ - 1088308
Holloman AFB

L801109

Lab SampleID.	Client ID
L801109-01	TU503-TMW13-NT01
L801109-02	TU503-TMW14-NT01

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Quality Control Summary
SDG: L801109

For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
February 3, 2016

Sample Receiving and Handling

All sample aliquots were received at the correct temperature, in the proper containers, and with the appropriate preservatives. All method specified holding times were met.

Volatile Organic Compounds by Method 8260B

Laboratory Control Sample

Samples L801109-01 and 02 were analyzed in analytical batch WG829391. The laboratory control sample associated with these samples had all target analytes within method limits except for 1,2-Dichlorobenzene. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Samples L801109-01 and 02 were analyzed in analytical batch WG831097. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG829391 matrix spike/matrix spike duplicate analysis was performed on sample L801101-09. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG831097 matrix spike/matrix spike duplicate analysis was performed on sample L800817-08. The spiked sample was evaluated only for the parameters requested on that sample and did not require the parameteres reported in this SDG. Therefore, no data is included in this report for this MS/D sample.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Calibration Summary

Instrument VOCMS35 was calibrated on 10/21/2015. The initial calibration and continuing calibration verification standards were within method limits.

Instrument VOCMS20 was calibrated on 11/13/2015. The initial calibration and continuing calibration verification standards were within method limits.

Surrogate Summary

The surrogate recoveries were within method limits for all samples.

Internal Standards

The internal standard responses and retention times were within method limits for all samples and quality control samples.

Digitally signed by Nancy McLain
DN: cn=Nancy McLain, o, ou=ESC Lab Sciences, email=nmclain@esclabsciences.com, c=US
Date: 2016.02.03 13:52:27 -06'00'

Nancy F. McLain
ESC Representative
ESC Lab Sciences

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Dale Flores and Arielle Bisoglio
URS
8181 E. Tufts Avenue
Denver, CO 80237

Report Summary

Tuesday February 02, 2016

Report Number: L801109
Samples Received: 11/14/15
Client Project: 60425210.23446543.00

Description: Holloman AFB

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Pamela A. Langford

Pam Langford , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01,1461-02, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Dale Flores and Arielle Bisoglio
URS
8181 E. Tufts Avenue
Denver, CO 80237

February 02, 2016

ESC Sample # : L801109-01

Date Received : November 14, 2015
Description : Holloman AFB

Site ID :

Sample ID : TU503-TMW13-NT01

Project # : 60425210.23446543.00

Collected By : Katie Abbott
Collection Date : 11/13/15 11:20

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Volatile Organics										
Acetone	67-64-1	U	10	25.0	50	ug/l		8260B	11/17/15	1
Benzene	71-43-2	U	0.331	0.500	1	ug/l		8260B	11/17/15	1
Bromobenzene	108-86-1	U	0.352	0.500	1	ug/l		8260B	11/17/15	1
Bromochloromethane	74-97-5	U	0.52	0.750	1	ug/l		8260B	11/17/15	1
Bromodichloromethane	75-27-4	U	0.38	0.500	1	ug/l		8260B	11/17/15	1
Bromoform	75-25-2	U	0.469	0.500	1	ug/l		8260B	11/17/15	1
Bromomethane	74-83-9	U	0.866	2.50	5	ug/l		8260B	11/17/15	1
n-Butylbenzene	104-51-8	U	0.361	0.500	1	ug/l		8260B	11/17/15	1
sec-Butylbenzene	135-98-8	U	0.365	0.500	1	ug/l		8260B	11/17/15	1
tert-Butylbenzene	98-06-6	U	0.399	0.500	1	ug/l		8260B	11/17/15	1
Carbon Disulfide	75-15-0	U	0.275	0.500	1	ug/l		8260B	11/17/15	1
Carbon tetrachloride	56-23-5	U	0.379	0.500	1	ug/l		8260B	11/17/15	1
Chlorobenzene	108-90-7	U	0.348	0.500	1	ug/l		8260B	11/17/15	1
Chlorodibromomethane	124-48-1	U	0.327	0.500	1	ug/l		8260B	11/17/15	1
Chloroethane	75-00-3	U	0.453	2.50	5	ug/l		8260B	11/17/15	1
Chloroform	67-66-3	U	0.324	2.50	5	ug/l		8260B	11/17/15	1
Chloromethane	74-87-3	U	0.276	0.500	2.5	ug/l		8260B	11/17/15	1
2-Chlorotoluene	95-49-8	U	0.375	0.500	1	ug/l		8260B	11/17/15	1
4-Chlorotoluene	106-43-4	U	0.351	0.500	1	ug/l		8260B	11/17/15	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.33	2.50	5	ug/l		8260B	11/17/15	1
1,2-Dibromoethane	106-93-4	U	0.381	0.500	1	ug/l		8260B	11/17/15	1
Dibromomethane	74-95-3	U	0.346	0.500	1	ug/l		8260B	11/17/15	1
1,2-Dichlorobenzene	95-50-1	U	0.349	0.500	1	ug/l	J4	8260B	11/17/15	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.500	1	ug/l		8260B	11/17/15	1
1,4-Dichlorobenzene	106-46-7	U	0.274	0.500	1	ug/l		8260B	11/17/15	1
Dichlorodifluoromethane	75-71-8	U	0.551	2.50	5	ug/l		8260B	11/17/15	1
1,1-Dichloroethane	75-34-3	U	0.259	0.500	1	ug/l		8260B	11/17/15	1
1,2-Dichloroethane	107-06-2	U	0.361	0.500	1	ug/l		8260B	11/17/15	1
1,1-Dichloroethene	75-35-4	U	0.398	0.500	1	ug/l		8260B	11/17/15	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.500	1	ug/l		8260B	11/17/15	1
trans-1,2-Dichloroethene	156-60-5	U	0.396	0.500	1	ug/l		8260B	11/17/15	1
1,2-Dichloropropane	78-87-5	U	0.306	0.500	1	ug/l		8260B	11/17/15	1
1,1-Dichloropropene	563-58-6	U	0.352	0.500	1	ug/l		8260B	11/17/15	1
1,3-Dichloropropane	142-28-9	U	0.366	0.500	1	ug/l		8260B	11/17/15	1
cis-1,3-Dichloropropene	10061-01-5	U	0.418	0.500	1	ug/l		8260B	11/17/15	1
trans-1,3-Dichloropropene	10061-02-6	U	0.419	0.500	1	ug/l		8260B	11/17/15	1
2,2-Dichloropropane	594-20-7	U	0.321	0.500	1	ug/l		8260B	11/17/15	1
Ethylbenzene	100-41-4	U	0.384	0.500	1	ug/l		8260B	11/17/15	1
2-Hexanone	591-78-6	U	3.82	5.00	10	ug/l		8260B	11/17/15	1
Hexachloro-1,3-butadiene	87-68-3	U	0.256	0.500	1	ug/l		8260B	11/17/15	1
Isopropylbenzene	98-82-8	U	0.326	0.500	1	ug/l		8260B	11/17/15	1
p-Isopropyltoluene	99-87-6	U	0.35	0.500	1	ug/l		8260B	11/17/15	1
2-Butanone (MEK)	78-93-3	U	3.93	5.00	10	ug/l		8260B	11/17/15	1
Methylene Chloride	75-09-2	U	1	2.50	5	ug/l		8260B	11/17/15	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.14	5.00	10	ug/l		8260B	11/17/15	1

U = Not Detected at the LOD
Note:
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REPORT OF ANALYSIS

Dale Flores and Arielle Bisoglio
URS
8181 E. Tufts Avenue
Denver, CO 80237

February 02, 2016

ESC Sample # : L801109-01

Date Received : November 14, 2015
Description : Holloman AFB

Site ID :

Sample ID : TU503-TMW13-NT01

Project # : 60425210.23446543.00

Collected By : Katie Abbott
Collection Date : 11/13/15 11:20

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Methyl tert-butyl ether	1634-04-4	U	0.367	0.500	1	ug/l		8260B	11/17/15	1
Methyl Cyclohexane	108-87-2	U	0.38	0.500	1	ug/l		8260B	11/23/15	1
Naphthalene	91-20-3	U	1	2.50	5	ug/l		8260B	11/17/15	1
n-Propylbenzene	103-65-1	U	0.349	0.500	1	ug/l		8260B	11/17/15	1
Styrene	100-42-5	U	0.307	0.500	1	ug/l		8260B	11/17/15	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.385	0.500	1	ug/l		8260B	11/17/15	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.13	0.750	1	ug/l		8260B	11/17/15	1
Tetrachloroethene	127-18-4	U	0.372	0.500	1	ug/l		8260B	11/17/15	1
Toluene	108-88-3	U	0.78	2.50	5	ug/l		8260B	11/17/15	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.500	1	ug/l		8260B	11/17/15	1
1,2,4-Trichlorobenzene	120-82-1	U	0.355	0.500	1	ug/l		8260B	11/17/15	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.500	1	ug/l		8260B	11/17/15	1
1,1,2-Trichloroethane	79-00-5	U	0.383	0.500	1	ug/l		8260B	11/17/15	1
Trichloroethene	79-01-6	U	0.398	0.500	1	ug/l		8260B	11/17/15	1
Trichlorofluoromethane	75-69-4	U	1.2	2.50	5	ug/l		8260B	11/17/15	1
1,2,3-Trichloropropane	96-18-4	U	0.807	1.00	2.5	ug/l		8260B	11/17/15	1
1,2,4-Trimethylbenzene	95-63-6	U	0.373	0.500	1	ug/l		8260B	11/17/15	1
1,3,5-Trimethylbenzene	108-67-8	U	0.387	0.500	1	ug/l		8260B	11/17/15	1
o-Xylene	95-47-6	U	0.341	0.500	1	ug/l		8260B	11/17/15	1
m&p-Xylene	1330-20-7	U	0.719	1.00	2	ug/l		8260B	11/17/15	1
Vinyl chloride	75-01-4	U	0.259	0.500	1	ug/l		8260B	11/17/15	1
Surrogate Recovery										
Toluene-d8	2037-26-5	103.				% Rec.		8260B	11/17/15	1
Dibromofluoromethane	1868-53-7	99.1				% Rec.		8260B	11/17/15	1
4-Bromofluorobenzene	460-00-4	98.1				% Rec.		8260B	11/17/15	1

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REPORT OF ANALYSIS

Dale Flores and Arielle Bisoglio
URS
8181 E. Tufts Avenue
Denver, CO 80237

February 02, 2016

ESC Sample # : L801109-02

Date Received : November 14, 2015
Description : Holloman AFB

Site ID :

Sample ID : TU503-TMW14-NT01

Project # : 60425210.23446543.00

Collected By : Katie Abbott
Collection Date : 11/13/15 11:30

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Volatile Organics										
Acetone	67-64-1	U	10	25.0	50	ug/l		8260B	11/17/15	1
Benzene	71-43-2	U	0.331	0.500	1	ug/l		8260B	11/17/15	1
Bromobenzene	108-86-1	U	0.352	0.500	1	ug/l		8260B	11/17/15	1
Bromochloromethane	74-97-5	U	0.52	0.750	1	ug/l		8260B	11/17/15	1
Bromodichloromethane	75-27-4	U	0.38	0.500	1	ug/l		8260B	11/17/15	1
Bromoform	75-25-2	U	0.469	0.500	1	ug/l		8260B	11/17/15	1
Bromomethane	74-83-9	U	0.866	2.50	5	ug/l		8260B	11/17/15	1
n-Butylbenzene	104-51-8	U	0.361	0.500	1	ug/l		8260B	11/17/15	1
sec-Butylbenzene	135-98-8	U	0.365	0.500	1	ug/l		8260B	11/17/15	1
tert-Butylbenzene	98-06-6	U	0.399	0.500	1	ug/l		8260B	11/17/15	1
Carbon Disulfide	75-15-0	U	0.275	0.500	1	ug/l		8260B	11/17/15	1
Carbon tetrachloride	56-23-5	U	0.379	0.500	1	ug/l		8260B	11/17/15	1
Chlorobenzene	108-90-7	U	0.348	0.500	1	ug/l		8260B	11/17/15	1
Chlorodibromomethane	124-48-1	U	0.327	0.500	1	ug/l		8260B	11/17/15	1
Chloroethane	75-00-3	U	0.453	2.50	5	ug/l		8260B	11/17/15	1
Chloroform	67-66-3	U	0.324	2.50	5	ug/l		8260B	11/17/15	1
Chloromethane	74-87-3	U	0.276	0.500	2.5	ug/l		8260B	11/17/15	1
2-Chlorotoluene	95-49-8	U	0.375	0.500	1	ug/l		8260B	11/17/15	1
4-Chlorotoluene	106-43-4	U	0.351	0.500	1	ug/l		8260B	11/17/15	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.33	2.50	5	ug/l		8260B	11/17/15	1
1,2-Dibromoethane	106-93-4	U	0.381	0.500	1	ug/l		8260B	11/17/15	1
Dibromomethane	74-95-3	U	0.346	0.500	1	ug/l		8260B	11/17/15	1
1,2-Dichlorobenzene	95-50-1	U	0.349	0.500	1	ug/l	J4	8260B	11/17/15	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.500	1	ug/l		8260B	11/17/15	1
1,4-Dichlorobenzene	106-46-7	U	0.274	0.500	1	ug/l		8260B	11/17/15	1
Dichlorodifluoromethane	75-71-8	U	0.551	2.50	5	ug/l		8260B	11/17/15	1
1,1-Dichloroethane	75-34-3	U	0.259	0.500	1	ug/l		8260B	11/17/15	1
1,2-Dichloroethane	107-06-2	U	0.361	0.500	1	ug/l		8260B	11/17/15	1
1,1-Dichloroethene	75-35-4	U	0.398	0.500	1	ug/l		8260B	11/17/15	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.500	1	ug/l		8260B	11/17/15	1
trans-1,2-Dichloroethene	156-60-5	U	0.396	0.500	1	ug/l		8260B	11/17/15	1
1,2-Dichloropropane	78-87-5	U	0.306	0.500	1	ug/l		8260B	11/17/15	1
1,1-Dichloropropene	563-58-6	U	0.352	0.500	1	ug/l		8260B	11/17/15	1
1,3-Dichloropropane	142-28-9	U	0.366	0.500	1	ug/l		8260B	11/17/15	1
cis-1,3-Dichloropropene	10061-01-5	U	0.418	0.500	1	ug/l		8260B	11/17/15	1
trans-1,3-Dichloropropene	10061-02-6	U	0.419	0.500	1	ug/l		8260B	11/17/15	1
2,2-Dichloropropane	594-20-7	U	0.321	0.500	1	ug/l		8260B	11/17/15	1
Ethylbenzene	100-41-4	U	0.384	0.500	1	ug/l		8260B	11/17/15	1
2-Hexanone	591-78-6	U	3.82	5.00	10	ug/l		8260B	11/17/15	1
Hexachloro-1,3-butadiene	87-68-3	U	0.256	0.500	1	ug/l		8260B	11/17/15	1
Isopropylbenzene	98-82-8	U	0.326	0.500	1	ug/l		8260B	11/17/15	1
p-Isopropyltoluene	99-87-6	U	0.35	0.500	1	ug/l		8260B	11/17/15	1
2-Butanone (MEK)	78-93-3	U	3.93	5.00	10	ug/l		8260B	11/17/15	1
Methylene Chloride	75-09-2	U	1	2.50	5	ug/l		8260B	11/17/15	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.14	5.00	10	ug/l		8260B	11/17/15	1

U = Not Detected at the LOD
Note:
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REPORT OF ANALYSIS

Dale Flores and Arielle Bisoglio
URS
8181 E. Tufts Avenue
Denver, CO 80237

February 02, 2016

ESC Sample # : L801109-02

Date Received : November 14, 2015
Description : Holloman AFB

Site ID :

Sample ID : TU503-TMW14-NT01

Project # : 60425210.23446543.00

Collected By : Katie Abbott
Collection Date : 11/13/15 11:30

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Methyl tert-butyl ether	1634-04-4	U	0.367	0.500	1	ug/l		8260B	11/17/15	1
Methyl Cyclohexane	108-87-2	U	0.38	0.500	1	ug/l		8260B	11/23/15	1
Naphthalene	91-20-3	U	1	2.50	5	ug/l		8260B	11/17/15	1
n-Propylbenzene	103-65-1	U	0.349	0.500	1	ug/l		8260B	11/17/15	1
Styrene	100-42-5	U	0.307	0.500	1	ug/l		8260B	11/17/15	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.385	0.500	1	ug/l		8260B	11/17/15	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.13	0.750	1	ug/l		8260B	11/17/15	1
Tetrachloroethene	127-18-4	U	0.372	0.500	1	ug/l		8260B	11/17/15	1
Toluene	108-88-3	U	0.78	2.50	5	ug/l		8260B	11/17/15	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.500	1	ug/l		8260B	11/17/15	1
1,2,4-Trichlorobenzene	120-82-1	U	0.355	0.500	1	ug/l		8260B	11/17/15	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.500	1	ug/l		8260B	11/17/15	1
1,1,2-Trichloroethane	79-00-5	U	0.383	0.500	1	ug/l		8260B	11/17/15	1
Trichloroethene	79-01-6	U	0.398	0.500	1	ug/l		8260B	11/17/15	1
Trichlorofluoromethane	75-69-4	U	1.2	2.50	5	ug/l		8260B	11/17/15	1
1,2,3-Trichloropropane	96-18-4	U	0.807	1.00	2.5	ug/l		8260B	11/17/15	1
1,2,4-Trimethylbenzene	95-63-6	U	0.373	0.500	1	ug/l		8260B	11/17/15	1
1,3,5-Trimethylbenzene	108-67-8	U	0.387	0.500	1	ug/l		8260B	11/17/15	1
o-Xylene	95-47-6	U	0.341	0.500	1	ug/l		8260B	11/17/15	1
m&p-Xylene	1330-20-7	U	0.719	1.00	2	ug/l		8260B	11/17/15	1
Vinyl chloride	75-01-4	U	0.259	0.500	1	ug/l		8260B	11/17/15	1
Surrogate Recovery										
Toluene-d8	2037-26-5	102.				% Rec.		8260B	11/17/15	1
Dibromofluoromethane	1868-53-7	99.5				% Rec.		8260B	11/17/15	1
4-Bromofluorobenzene	460-00-4	94.4				% Rec.		8260B	11/17/15	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 11/17/15 11:21 Revised: 02/02/16 20:42

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L801109-01	WG829391	SAMP	1,2-Dichlorobenzene	R3093443	J4
L801109-02	WG829391	SAMP	1,2-Dichlorobenzene	R3093443	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Volatile Organic Compounds by Method 8260B

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Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L801109

Volatile Organic Compounds by Method 8260B
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 60425210.23446543.00

Login No: L801109

Lab SampleID.	Client ID
L801109-01	TU503-TMW13-NT01
L801109-02	TU503-TMW14-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG829391**
Analysis Date:	11/16/2015	Analyst:	126
Instrument ID:	VOCMS35		
Sample Numbers:	L801109-01, -02		

Workgroup: **WG829391**
Description: **Volatiles by Method 8260B (GW)**

Sample Name	Collect Date	Analysis Date
L801109-01 1x	11/13/2015	11/17/2015
L801109-02 1x	11/13/2015	11/17/2015

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG831097**
Analysis Date:	11/23/2015	Analyst:	073
Instrument ID:	VOCMS20		
Sample Numbers:	L801109-01, -02		

Workgroup: **WG831097**
Description: **Volatiles by Method 8260B (GW)**

Sample Name	Collect Date	Analysis Date
L801109-01 1x	11/13/2015	11/23/2015
L801109-02 1x	11/13/2015	11/23/2015

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG829391**
Analysis Date:	11/16/2015	Analyst:	126
Instrument ID:	VOCMS35		
Sample Numbers:	L801109-01, -02		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS35	LCS WG829391	LCS WG829391	1116_35.D	11/16/2015	9:22 PM
VOCMS35	LCSD WG829391	LCSD WG829391	1116_36.D	11/16/2015	9:43 PM
VOCMS35	Blank WG829391	Blank WG829391	1116_39.D	11/16/2015	10:48 PM
VOCMS35	MS WG829391	MS WG829391	1116_40.D	11/17/2015	12:01 AM
VOCMS35	MSD WG829391	MSD WG829391	1116_41.D	11/17/2015	12:22 AM
VOCMS35	TU503-TMW13-NT01	L801109-01	1116_59.D	11/17/2015	6:44 AM
VOCMS35	TU503-TMW14-NT01	L801109-02	1116_60.D	11/17/2015	7:05 AM

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG831097**
Analysis Date:	11/23/2015	Analyst:	073
Instrument ID:	VOCMS20		
Sample Numbers:	L801109-01, -02		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS20	LCS WG831097	LCS WG831097	1123_04.D	11/23/2015	1:14 PM
VOCMS20	LCSD WG831097	LCSD WG831097	1123_05.D	11/23/2015	1:32 PM
VOCMS20	Blank WG831097	Blank WG831097	1123_08.D	11/23/2015	2:28 PM
VOCMS20	TU503-TMW13-NT01	L801109-01	1123_30.D	11/23/2015	10:27 PM
VOCMS20	TU503-TMW14-NT01	L801109-02	1123_31.D	11/23/2015	10:46 PM

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG829391**
Analysis Date:	11/16/2015	Analyst:	126
Instrument ID:	VOCMS35		
Sample Numbers:	L801109-01, -02		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
1,1,1,2-Tetrachloroethane	630-20-6	< 0.00100	< 0.000385	
1,1,1-Trichloroethane	71-55-6	< 0.00100	< 0.000319	
1,1,2,2-Tetrachloroethane	79-34-5	< 0.00100	< 0.000130	
1,1,2-Trichloroethane	79-00-5	< 0.00100	< 0.000383	
1,1-Dichloroethane	75-34-3	< 0.00100	< 0.000259	
1,1-Dichloroethene	75-35-4	< 0.00100	< 0.000398	
1,1-Dichloropropene	563-58-6	< 0.00100	< 0.000352	
1,2,3-Trichlorobenzene	87-61-6	< 0.00100	< 0.000230	
1,2,3-Trichloropropane	96-18-4	< 0.00250	< 0.000807	
1,2,4-Trichlorobenzene	120-82-1	< 0.00100	< 0.000355	
1,2,4-Trimethylbenzene	95-63-6	< 0.00100	< 0.000373	
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.00500	< 0.00133	
1,2-Dibromoethane	106-93-4	< 0.00100	< 0.000381	
1,2-Dichlorobenzene	95-50-1	< 0.00100	< 0.000349	
1,2-Dichloroethane	107-06-2	< 0.00100	< 0.000361	
1,2-Dichloropropane	78-87-5	< 0.00100	< 0.000306	
1,3,5-Trimethylbenzene	108-67-8	< 0.00100	< 0.000387	
1,3-Dichlorobenzene	541-73-1	< 0.00100	< 0.000220	
1,3-Dichloropropane	142-28-9	< 0.00100	< 0.000366	
1,4-Dichlorobenzene	106-46-7	< 0.00100	< 0.000274	
2,2-Dichloropropane	594-20-7	< 0.00100	< 0.000321	
2-Butanone (MEK)	78-93-3	< 0.0100	< 0.00393	
2-Chlorotoluene	95-49-8	< 0.00100	< 0.000375	
2-Hexanone	591-78-6	< 0.0100	< 0.00382	
4-Chlorotoluene	106-43-4	< 0.00100	< 0.000351	
4-Methyl-2-pentanone (MIBK)	108-10-1	< 0.0100	< 0.00214	
Acetone	67-64-1	< 0.0500	< 0.0100	
Benzene	71-43-2	< 0.00100	< 0.000331	
Bromobenzene	108-86-1	< 0.00100	< 0.000352	
Bromochloromethane	74-97-5	< 0.00100	< 0.000520	
Bromodichloromethane	75-27-4	< 0.00100	< 0.000380	
Bromoform	75-25-2	< 0.00100	< 0.000469	
Bromomethane	74-83-9	< 0.00500	< 0.000866	
Carbon disulfide	75-15-0	< 0.00100	< 0.000275	
Carbon tetrachloride	56-23-5	< 0.00100	< 0.000379	
Chlorobenzene	108-90-7	< 0.00100	< 0.000348	
Chlorodibromomethane	124-48-1	< 0.00100	< 0.000327	

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG829391**
Analysis Date:	11/16/2015	Analyst:	126
Instrument ID:	VOCMS35		
Sample Numbers:	L801109-01, -02		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Chloroethane	75-00-3	< 0.00500	< 0.000453	
Chloroform	67-66-3	< 0.00500	< 0.000324	
Chloromethane	74-87-3	< 0.00250	< 0.000276	
cis-1,2-Dichloroethene	156-59-2	< 0.00100	< 0.000260	
cis-1,3-Dichloropropene	10061-01-5	< 0.00100	< 0.000418	
Dibromomethane	74-95-3	< 0.00100	< 0.000346	
Dichlorodifluoromethane	75-71-8	< 0.00500	< 0.000551	
Ethylbenzene	100-41-4	< 0.00100	< 0.000384	
Hexachloro-1,3-butadiene	87-68-3	< 0.00100	< 0.000256	
Isopropylbenzene	98-82-8	< 0.00100	< 0.000326	
m&p-Xylenes	1330-20-7	< 0.00200	< 0.000719	
Methyl Cyclohexane	108-87-2	< 0.00100	< 0.000380	
Methyl tert-butyl ether	1634-04-4	< 0.00100	< 0.000367	
Methylene Chloride	75-09-2	< 0.00500	< 0.00100	
Naphthalene	91-20-3	< 0.00500	< 0.00100	
n-Butylbenzene	104-51-8	< 0.00100	< 0.000361	
n-Propylbenzene	103-65-1	< 0.00100	< 0.000349	
o-Xylene	95-47-6	< 0.00100	< 0.000341	
p-Isopropyltoluene	99-87-6	< 0.00100	< 0.000350	
sec-Butylbenzene	135-98-8	< 0.00100	< 0.000365	
Styrene	100-42-5	< 0.00100	< 0.000307	
tert-Butylbenzene	98-06-6	< 0.00100	< 0.000399	
Tetrachloroethene	127-18-4	< 0.00100	< 0.000372	
Toluene	108-88-3	< 0.00500	< 0.000780	
trans-1,2-Dichloroethene	156-60-5	< 0.00100	< 0.000396	
trans-1,3-Dichloropropene	10061-02-6	< 0.00100	< 0.000419	
Trichloroethene	79-01-6	< 0.00100	< 0.000398	
Trichlorofluoromethane	75-69-4	< 0.00500	< 0.00120	
Vinyl chloride	75-01-4	< 0.00100	< 0.000259	

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG831097**
Analysis Date:	11/23/2015	Analyst:	073
Instrument ID:	VOCMS20		
Sample Numbers:	L801109-01, -02		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
1,1,1,2-Tetrachloroethane	630-20-6	< 0.00100	< 0.000385	
1,1,1-Trichloroethane	71-55-6	< 0.00100	< 0.000319	
1,1,2,2-Tetrachloroethane	79-34-5	< 0.00100	< 0.000130	
1,1,2-Trichloroethane	79-00-5	< 0.00100	< 0.000383	
1,1-Dichloroethane	75-34-3	< 0.00100	< 0.000259	
1,1-Dichloroethene	75-35-4	< 0.00100	< 0.000398	
1,1-Dichloropropene	563-58-6	< 0.00100	< 0.000352	
1,2,3-Trichlorobenzene	87-61-6	< 0.00100	< 0.000230	
1,2,3-Trichloropropane	96-18-4	< 0.00250	< 0.000807	
1,2,4-Trichlorobenzene	120-82-1	< 0.00100	< 0.000355	
1,2,4-Trimethylbenzene	95-63-6	< 0.00100	< 0.000373	
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.00500	< 0.00133	
1,2-Dibromoethane	106-93-4	< 0.00100	< 0.000381	
1,2-Dichlorobenzene	95-50-1	< 0.00100	< 0.000349	
1,2-Dichloroethane	107-06-2	< 0.00100	< 0.000361	
1,2-Dichloropropane	78-87-5	< 0.00100	< 0.000306	
1,3,5-Trimethylbenzene	108-67-8	< 0.00100	< 0.000387	
1,3-Dichlorobenzene	541-73-1	< 0.00100	< 0.000220	
1,3-Dichloropropane	142-28-9	< 0.00100	< 0.000366	
1,4-Dichlorobenzene	106-46-7	< 0.00100	< 0.000274	
2,2-Dichloropropane	594-20-7	< 0.00100	< 0.000321	
2-Butanone (MEK)	78-93-3	< 0.0100	< 0.00393	
2-Chlorotoluene	95-49-8	< 0.00100	< 0.000375	
2-Hexanone	591-78-6	< 0.0100	< 0.00382	
4-Chlorotoluene	106-43-4	< 0.00100	< 0.000351	
4-Methyl-2-pentanone (MIBK)	108-10-1	< 0.0100	< 0.00214	
Acetone	67-64-1	< 0.0500	< 0.0100	
Benzene	71-43-2	< 0.00100	< 0.000331	
Bromobenzene	108-86-1	< 0.00100	< 0.000352	
Bromochloromethane	74-97-5	< 0.00100	< 0.000520	
Bromodichloromethane	75-27-4	< 0.00100	< 0.000380	
Bromoform	75-25-2	< 0.00100	< 0.000469	
Bromomethane	74-83-9	< 0.00500	< 0.000866	
Carbon disulfide	75-15-0	< 0.00100	< 0.000275	
Carbon tetrachloride	56-23-5	< 0.00100	< 0.000379	
Chlorobenzene	108-90-7	< 0.00100	< 0.000348	
Chlorodibromomethane	124-48-1	< 0.00100	< 0.000327	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG831097**
Analysis Date:	11/23/2015	Analyst:	073
Instrument ID:	VOCMS20		
Sample Numbers:	L801109-01, -02		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Chloroethane	75-00-3	< 0.00500	< 0.000453	
Chloroform	67-66-3	< 0.00500	< 0.000324	
Chloromethane	74-87-3	< 0.00250	< 0.000276	
cis-1,2-Dichloroethene	156-59-2	< 0.00100	< 0.000260	
cis-1,3-Dichloropropene	10061-01-5	< 0.00100	< 0.000418	
Dibromomethane	74-95-3	< 0.00100	< 0.000346	
Dichlorodifluoromethane	75-71-8	< 0.00500	< 0.000551	
Ethylbenzene	100-41-4	< 0.00100	< 0.000384	
Hexachloro-1,3-butadiene	87-68-3	< 0.00100	< 0.000256	
Isopropylbenzene	98-82-8	< 0.00100	< 0.000326	
m&p-Xylenes	1330-20-7	< 0.00200	< 0.000719	
Methyl Cyclohexane	108-87-2	< 0.00100	< 0.000380	
Methyl tert-butyl ether	1634-04-4	< 0.00100	< 0.000367	
Methylene Chloride	75-09-2	< 0.00500	< 0.00100	
Naphthalene	91-20-3	< 0.00500	< 0.00100	
n-Butylbenzene	104-51-8	< 0.00100	< 0.000361	
n-Propylbenzene	103-65-1	< 0.00100	< 0.000349	
o-Xylene	95-47-6	< 0.00100	< 0.000341	
p-Isopropyltoluene	99-87-6	< 0.00100	< 0.000350	
sec-Butylbenzene	135-98-8	< 0.00100	< 0.000365	
Styrene	100-42-5	< 0.00100	< 0.000307	
tert-Butylbenzene	98-06-6	< 0.00100	< 0.000399	
Tetrachloroethene	127-18-4	< 0.00100	< 0.000372	
Toluene	108-88-3	< 0.00500	< 0.000780	
trans-1,2-Dichloroethene	156-60-5	< 0.00100	< 0.000396	
trans-1,3-Dichloropropene	10061-02-6	< 0.00100	< 0.000419	
Trichloroethene	79-01-6	< 0.00100	< 0.000398	
Trichlorofluoromethane	75-69-4	< 0.00500	< 0.00120	
Vinyl chloride	75-01-4	< 0.00100	< 0.000259	

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG829391**
Analysis Date:	11/16/2015	Analyst:	126
Instrument ID:	VOCMS35		
Sample Numbers:	L801109-01, -02		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0265	106	78.5 - 125	
1,1,1-Trichloroethane	1	0.025	0.0247	98.7	71.1 - 129	
1,1,2,2-Tetrachloroethane	1	0.025	0.0251	100	79.3 - 123	
1,1,2-Trichloroethane	1	0.025	0.0281	112	81.6 - 120	
1,1-Dichloroethane	1	0.025	0.0247	98.6	71.7 - 127	
1,1-Dichloroethene	1	0.025	0.0214	85.6	59.9 - 137	
1,1-Dichloropropene	1	0.025	0.0258	103	72.5 - 127	
1,2,3-Trichlorobenzene	1	0.025	0.0288	115	75.7 - 134	
1,2,3-Trichloropropane	1	0.025	0.0234	93.6	74.9 - 124	
1,2,4-Trichlorobenzene	1	0.025	0.0292	117	76.1 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0265	106	79 - 122	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0237	94.7	64.8 - 131	
1,2-Dibromoethane	1	0.025	0.0269	108	79.8 - 122	
1,2-Dichlorobenzene	1	0.025	0.0302	121	84.7 - 118	J4
1,2-Dichloroethane	1	0.025	0.0205	81.9	65.3 - 126	
1,2-Dichloropropane	1	0.025	0.0259	104	77.4 - 125	
1,3,5-Trimethylbenzene	1	0.025	0.0271	108	81 - 123	
1,3-Dichlorobenzene	1	0.025	0.0267	107	77.6 - 127	
1,3-Dichloropropane	1	0.025	0.0278	111	80.6 - 115	
1,4-Dichlorobenzene	1	0.025	0.0283	113	82.2 - 114	
2,2-Dichloropropane	1	0.025	0.0211	84.3	61.3 - 134	
2-Butanone (MEK)	1	0.125	0.1360	109	46.4 - 155	
2-Chlorotoluene	1	0.025	0.0279	112	76.4 - 125	
2-Hexanone	1	0.125	0.1244	99.5	59.4 - 151	
4-Chlorotoluene	1	0.025	0.0277	111	81.5 - 121	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.0942	75.4	63.3 - 138	
Acetone	1	0.125	0.1418	113	28.7 - 175	
Benzene	1	0.025	0.0259	104	73 - 122	
Bromobenzene	1	0.025	0.0262	105	81.5 - 115	
Bromochloromethane	1	0.025	0.0262	105	78.9 - 123	
Bromodichloromethane	1	0.025	0.0239	95.6	75.5 - 121	
Bromoform	1	0.025	0.0251	100	71.5 - 131	
Bromomethane	1	0.025	0.0233	93.2	22.4 - 187	
Carbon disulfide	1	0.025	0.0257	103	53 - 134	
Carbon tetrachloride	1	0.025	0.0240	95.9	70.9 - 129	
Chlorobenzene	1	0.025	0.0290	116	79.7 - 122	

Parameters in bold text are reported in this SDG

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Est. 1970

Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG829391**
Analysis Date:	11/16/2015	Analyst:	126
Instrument ID:	VOCMS35		
Sample Numbers:	L801109-01, -02		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0263	105	78.2 - 124	
Chloroethane	1	0.025	0.0216	86.3	41.2 - 153	
Chloroform	1	0.025	0.0245	98	73.2 - 125	
Chloromethane	1	0.025	0.0229	91.6	55.8 - 134	
cis-1,2-Dichloroethene	1	0.025	0.0256	103	77.3 - 122	
cis-1,3-Dichloropropene	1	0.025	0.0254	102	77.7 - 124	
Dibromomethane	1	0.025	0.0228	91	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0227	90.9	56 - 134	
Ethylbenzene	1	0.025	0.0284	113	80.9 - 121	
Hexachloro-1,3-butadiene	1	0.025	0.0306	122	73.7 - 133	
Isopropylbenzene	1	0.025	0.0284	114	81.6 - 124	
m&p-Xylenes	1	0.05	0.0587	117	78.5 - 122	
Methyl tert-butyl ether	1	0.025	0.0231	92.3	70.1 - 125	
Methylene Chloride	1	0.025	0.0274	110	69.5 - 120	
Naphthalene	1	0.025	0.0265	106	69.7 - 134	
n-Butylbenzene	1	0.025	0.0285	114	75.9 - 134	
n-Propylbenzene	1	0.025	0.0284	114	81.9 - 122	
o-Xylene	1	0.025	0.0274	109	79.1 - 123	
p-Isopropyltoluene	1	0.025	0.0270	108	77.6 - 129	
sec-Butylbenzene	1	0.025	0.0277	111	80.6 - 126	
Styrene	1	0.025	0.0278	111	79.9 - 124	
tert-Butylbenzene	1	0.025	0.0269	107	79.3 - 127	
Tetrachloroethene	1	0.025	0.0300	120	73.5 - 130	
Toluene	1	0.025	0.0267	107	77.9 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0272	109	72.6 - 125	
trans-1,3-Dichloropropene	1	0.025	0.0237	94.8	73.5 - 127	
Trichloroethene	1	0.025	0.0268	107	79.5 - 121	
Trichlorofluoromethane	1	0.025	0.0219	87.5	49.1 - 157	
Vinyl chloride	1	0.025	0.0222	89	61.5 - 134	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG829391**
Analysis Date:	11/16/2015	Analyst:	126
Instrument ID:	VOCMS35		
Sample Numbers:	L801109-01, -02		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0248	99.2	78.5 - 125	
1,1,1-Trichloroethane	1	0.025	0.0233	93	71.1 - 129	
1,1,2,2-Tetrachloroethane	1	0.025	0.0233	93.4	79.3 - 123	
1,1,2-Trichloroethane	1	0.025	0.0271	109	81.6 - 120	
1,1-Dichloroethane	1	0.025	0.0235	93.9	71.7 - 127	
1,1-Dichloroethene	1	0.025	0.0205	82	59.9 - 137	
1,1-Dichloropropene	1	0.025	0.0243	97.3	72.5 - 127	
1,2,3-Trichlorobenzene	1	0.025	0.0273	109	75.7 - 134	
1,2,3-Trichloropropane	1	0.025	0.0217	86.6	74.9 - 124	
1,2,4-Trichlorobenzene	1	0.025	0.0277	111	76.1 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0251	100	79 - 122	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0224	89.7	64.8 - 131	
1,2-Dibromoethane	1	0.025	0.0256	102	79.8 - 122	
1,2-Dichlorobenzene	1	0.025	0.0277	111	84.7 - 118	
1,2-Dichloroethane	1	0.025	0.0195	78.2	65.3 - 126	
1,2-Dichloropropane	1	0.025	0.0249	99.5	77.4 - 125	
1,3,5-Trimethylbenzene	1	0.025	0.0252	101	81 - 123	
1,3-Dichlorobenzene	1	0.025	0.0255	102	77.6 - 127	
1,3-Dichloropropane	1	0.025	0.0268	107	80.6 - 115	
1,4-Dichlorobenzene	1	0.025	0.0268	107	82.2 - 114	
2,2-Dichloropropane	1	0.025	0.0193	77.3	61.3 - 134	
2-Butanone (MEK)	1	0.125	0.1311	105	46.4 - 155	
2-Chlorotoluene	1	0.025	0.0264	105	76.4 - 125	
2-Hexanone	1	0.125	0.1213	97.1	59.4 - 151	
4-Chlorotoluene	1	0.025	0.0257	103	81.5 - 121	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.0918	73.4	63.3 - 138	
Acetone	1	0.125	0.1346	108	28.7 - 175	
Benzene	1	0.025	0.0247	98.7	73 - 122	
Bromobenzene	1	0.025	0.0244	97.6	81.5 - 115	
Bromochloromethane	1	0.025	0.0250	99.9	78.9 - 123	
Bromodichloromethane	1	0.025	0.0226	90.5	75.5 - 121	
Bromoform	1	0.025	0.0237	94.9	71.5 - 131	
Bromomethane	1	0.025	0.0220	87.9	22.4 - 187	
Carbon disulfide	1	0.025	0.0246	98.4	53 - 134	
Carbon tetrachloride	1	0.025	0.0227	90.9	70.9 - 129	
Chlorobenzene	1	0.025	0.0271	109	79.7 - 122	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG829391**
Analysis Date:	11/16/2015	Analyst:	126
Instrument ID:	VOCMS35		
Sample Numbers:	L801109-01, -02		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0247	99	78.2 - 124	
Chloroethane	1	0.025	0.0213	85.1	41.2 - 153	
Chloroform	1	0.025	0.0232	92.9	73.2 - 125	
Chloromethane	1	0.025	0.0221	88.4	55.8 - 134	
cis-1,2-Dichloroethene	1	0.025	0.0249	99.6	77.3 - 122	
cis-1,3-Dichloropropene	1	0.025	0.0242	96.8	77.7 - 124	
Dibromomethane	1	0.025	0.0215	85.9	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0213	85.3	56 - 134	
Ethylbenzene	1	0.025	0.0263	105	80.9 - 121	
Hexachloro-1,3-butadiene	1	0.025	0.0292	117	73.7 - 133	
Isopropylbenzene	1	0.025	0.0263	105	81.6 - 124	
m&p-Xylenes	1	0.05	0.0536	107	78.5 - 122	
Methyl tert-butyl ether	1	0.025	0.0220	88.2	70.1 - 125	
Methylene Chloride	1	0.025	0.0257	103	69.5 - 120	
Naphthalene	1	0.025	0.0258	103	69.7 - 134	
n-Butylbenzene	1	0.025	0.0265	106	75.9 - 134	
n-Propylbenzene	1	0.025	0.0261	104	81.9 - 122	
o-Xylene	1	0.025	0.0260	104	79.1 - 123	
p-Isopropyltoluene	1	0.025	0.0250	100	77.6 - 129	
sec-Butylbenzene	1	0.025	0.0257	103	80.6 - 126	
Styrene	1	0.025	0.0265	106	79.9 - 124	
tert-Butylbenzene	1	0.025	0.0253	101	79.3 - 127	
Tetrachloroethene	1	0.025	0.0272	109	73.5 - 130	
Toluene	1	0.025	0.0249	99.7	77.9 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0256	102	72.6 - 125	
trans-1,3-Dichloropropene	1	0.025	0.0226	90.6	73.5 - 127	
Trichloroethene	1	0.025	0.0248	99.2	79.5 - 121	
Trichlorofluoromethane	1	0.025	0.0205	81.8	49.1 - 157	
Vinyl chloride	1	0.025	0.0215	86	61.5 - 134	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG829391**
Analysis Date:	11/16/2015	Analyst:	126
Instrument ID:	VOCMS35		
Sample Numbers:	L801109-01, -02		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0265	106	0.0248	99.2	78.5 - 125		6.67	20	
1,1,1-Trichloroethane	1	0.025	0.0247	98.7	0.0233	93	71.1 - 129		5.97	20	
1,1,2,2-Tetrachloroethane	1	0.025	0.0251	100	0.0233	93.4	79.3 - 123		7.15	20	
1,1,2-Trichloroethane	1	0.025	0.0281	112	0.0271	109	81.6 - 120		3.55	20	
1,1-Dichloroethane	1	0.025	0.0247	98.6	0.0235	93.9	71.7 - 127		4.95	20	
1,1-Dichloroethene	1	0.025	0.0214	85.6	0.0205	82	59.9 - 137		4.36	20	
1,1-Dichloropropene	1	0.025	0.0258	103	0.0243	97.3	72.5 - 127		5.77	20	
1,2,3-Trichlorobenzene	1	0.025	0.0288	115	0.0273	109	75.7 - 134		5.51	20	
1,2,3-Trichloropropane	1	0.025	0.0234	93.6	0.0217	86.6	74.9 - 124		7.78	20	
1,2,4-Trichlorobenzene	1	0.025	0.0292	117	0.0277	111	76.1 - 136		5.1	20	
1,2,4-Trimethylbenzene	1	0.025	0.0265	106	0.0251	100	79 - 122		5.5	20	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0237	94.7	0.0224	89.7	64.8 - 131		5.44	20	
1,2-Dibromoethane	1	0.025	0.0269	108	0.0256	102	79.8 - 122		4.91	20	
1,2-Dichlorobenzene	1	0.025	0.0302	121	0.0277	111	84.7 - 118	J4	8.62	20	
1,2-Dichloroethane	1	0.025	0.0205	81.9	0.0195	78.2	65.3 - 126		4.63	20	
1,2-Dichloropropane	1	0.025	0.0259	104	0.0249	99.5	77.4 - 125		4.09	20	
1,3,5-Trimethylbenzene	1	0.025	0.0271	108	0.0252	101	81 - 123		7.53	20	
1,3-Dichlorobenzene	1	0.025	0.0267	107	0.0255	102	77.6 - 127		4.48	20	
1,3-Dichloropropane	1	0.025	0.0278	111	0.0268	107	80.6 - 115		3.86	20	
1,4-Dichlorobenzene	1	0.025	0.0283	113	0.0268	107	82.2 - 114		5.58	20	
2,2-Dichloropropane	1	0.025	0.0211	84.3	0.0193	77.3	61.3 - 134		8.64	20	
2-Butanone (MEK)	1	0.125	0.1360	109	0.1311	105	46.4 - 155		3.7	20	
2-Chlorotoluene	1	0.025	0.0279	112	0.0264	105	76.4 - 125		5.8	20	
2-Hexanone	1	0.125	0.1244	99.5	0.1213	97.1	59.4 - 151		2.48	20	
4-Chlorotoluene	1	0.025	0.0277	111	0.0257	103	81.5 - 121		7.62	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.0942	75.4	0.0918	73.4	63.3 - 138		2.64	20	
Acetone	1	0.125	0.1418	113	0.1346	108	28.7 - 175		5.15	20.9	
Benzene	1	0.025	0.0259	104	0.0247	98.7	73 - 122		4.92	20	
Bromobenzene	1	0.025	0.0262	105	0.0244	97.6	81.5 - 115		6.89	20	
Bromochloromethane	1	0.025	0.0262	105	0.0250	99.9	78.9 - 123		4.86	20	
Bromodichloromethane	1	0.025	0.0239	95.6	0.0226	90.5	75.5 - 121		5.55	20	
Bromoform	1	0.025	0.0251	100	0.0237	94.9	71.5 - 131		5.6	20	
Bromomethane	1	0.025	0.0233	93.2	0.0220	87.9	22.4 - 187		5.86	20	
Carbon disulfide	1	0.025	0.0257	103	0.0246	98.4	53 - 134		4.48	20	
Carbon tetrachloride	1	0.025	0.0240	95.9	0.0227	90.9	70.9 - 129		5.39	20	
Chlorobenzene	1	0.025	0.0290	116	0.0271	109	79.7 - 122		6.68	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG829391**
Analysis Date:	11/16/2015	Analyst:	126
Instrument ID:	VOCMS35		
Sample Numbers:	L801109-01, -02		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.025	0.0263	105	0.0247	99	78.2 - 124		6.06	20	
Chloroethane	1	0.025	0.0216	86.3	0.0213	85.1	41.2 - 153		1.39	20	
Chloroform	1	0.025	0.0245	98	0.0232	92.9	73.2 - 125		5.33	20	
Chloromethane	1	0.025	0.0229	91.6	0.0221	88.4	55.8 - 134		3.53	20	
cis-1,2-Dichloroethene	1	0.025	0.0256	103	0.0249	99.6	77.3 - 122		2.9	20	
cis-1,3-Dichloropropene	1	0.025	0.0254	102	0.0242	96.8	77.7 - 124		4.86	20	
Dibromomethane	1	0.025	0.0228	91	0.0215	85.9	79.5 - 118		5.82	20	
Dichlorodifluoromethane	1	0.025	0.0227	90.9	0.0213	85.3	56 - 134		6.37	20	
Ethylbenzene	1	0.025	0.0284	113	0.0263	105	80.9 - 121		7.62	20	
Hexachloro-1,3-butadiene	1	0.025	0.0306	122	0.0292	117	73.7 - 133		4.64	20	
Isopropylbenzene	1	0.025	0.0284	114	0.0263	105	81.6 - 124		7.47	20	
m&p-Xylenes	1	0.05	0.0587	117	0.0536	107	78.5 - 122		9.15	20	
Methyl tert-butyl ether	1	0.025	0.0231	92.3	0.0220	88.2	70.1 - 125		4.63	20	
Methylene Chloride	1	0.025	0.0274	110	0.0257	103	69.5 - 120		6.26	20	
Naphthalene	1	0.025	0.0265	106	0.0258	103	69.7 - 134		2.82	20	
n-Butylbenzene	1	0.025	0.0285	114	0.0265	106	75.9 - 134		7.25	20	
n-Propylbenzene	1	0.025	0.0284	114	0.0261	104	81.9 - 122		8.4	20	
o-Xylene	1	0.025	0.0274	109	0.0260	104	79.1 - 123		5.01	20	
p-Isopropyltoluene	1	0.025	0.0270	108	0.0250	100	77.6 - 129		7.79	20	
sec-Butylbenzene	1	0.025	0.0277	111	0.0257	103	80.6 - 126		7.26	20	
Styrene	1	0.025	0.0278	111	0.0265	106	79.9 - 124		4.82	20	
tert-Butylbenzene	1	0.025	0.0269	107	0.0253	101	79.3 - 127		6.13	20	
Tetrachloroethene	1	0.025	0.0300	120	0.0272	109	73.5 - 130		9.94	20	
Toluene	1	0.025	0.0267	107	0.0249	99.7	77.9 - 116		6.89	20	
trans-1,2-Dichloroethene	1	0.025	0.0272	109	0.0256	102	72.6 - 125		6.07	20	
trans-1,3-Dichloropropene	1	0.025	0.0237	94.8	0.0226	90.6	73.5 - 127		4.54	20	
Trichloroethene	1	0.025	0.0268	107	0.0248	99.2	79.5 - 121		7.65	20	
Trichlorofluoromethane	1	0.025	0.0219	87.5	0.0205	81.8	49.1 - 157		6.7	20	
Vinyl chloride	1	0.025	0.0222	89	0.0215	86	61.5 - 134		3.39	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG831097**
Analysis Date:	11/23/2015	Analyst:	073
Instrument ID:	VOCMS20		
Sample Numbers:	L801109-01, -02		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0243	97.2	78.5 - 125	
1,1,1-Trichloroethane	1	0.025	0.0240	95.9	71.1 - 129	
1,1,2,2-Tetrachloroethane	1	0.025	0.0196	78.4	79.3 - 123	J4
1,1,2-Trichloroethane	1	0.025	0.0244	97.5	81.6 - 120	
1,1-Dichloroethane	1	0.025	0.0243	97.1	71.7 - 127	
1,1-Dichloroethene	1	0.025	0.0220	88.2	59.9 - 137	
1,1-Dichloropropene	1	0.025	0.0221	88.3	72.5 - 127	
1,2,3-Trichlorobenzene	1	0.025	0.0205	82.1	75.7 - 134	
1,2,3-Trichloropropane	1	0.025	0.0238	95.3	74.9 - 124	
1,2,4-Trichlorobenzene	1	0.025	0.0184	73.6	76.1 - 136	J4
1,2,4-Trimethylbenzene	1	0.025	0.0221	88.3	79 - 122	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0231	92.2	64.8 - 131	
1,2-Dibromoethane	1	0.025	0.0243	97.1	79.8 - 122	
1,2-Dichlorobenzene	1	0.025	0.0223	89.3	84.7 - 118	
1,2-Dichloroethane	1	0.025	0.0244	97.6	65.3 - 126	
1,2-Dichloropropane	1	0.025	0.0246	98.5	77.4 - 125	
1,3,5-Trimethylbenzene	1	0.025	0.0225	89.8	81 - 123	
1,3-Dichlorobenzene	1	0.025	0.0212	84.9	77.6 - 127	
1,3-Dichloropropane	1	0.025	0.0243	97.3	80.6 - 115	
1,4-Dichlorobenzene	1	0.025	0.0206	82.3	82.2 - 114	
2,2-Dichloropropane	1	0.025	0.0198	79.4	61.3 - 134	
2-Butanone (MEK)	1	0.125	0.1057	84.6	46.4 - 155	
2-Chlorotoluene	1	0.025	0.0212	85	76.4 - 125	
2-Hexanone	1	0.125	0.0963	77.1	59.4 - 151	
4-Chlorotoluene	1	0.025	0.0212	84.9	81.5 - 121	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1196	95.7	63.3 - 138	
Acetone	1	0.125	0.1073	85.8	28.7 - 175	
Benzene	1	0.025	0.0234	93.7	73 - 122	
Bromobenzene	1	0.025	0.0226	90.4	81.5 - 115	
Bromochloromethane	1	0.025	0.0247	98.7	78.9 - 123	
Bromodichloromethane	1	0.025	0.0248	99.4	75.5 - 121	
Bromoform	1	0.025	0.0244	97.4	71.5 - 131	
Bromomethane	1	0.025	0.0221	88.4	22.4 - 187	
Carbon disulfide	1	0.025	0.0208	83.2	53 - 134	
Carbon tetrachloride	1	0.025	0.0233	93.1	70.9 - 129	
Chlorobenzene	1	0.025	0.0231	92.6	79.7 - 122	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG831097**
Analysis Date:	11/23/2015	Analyst:	073
Instrument ID:	VOCMS20		
Sample Numbers:	L801109-01, -02		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0245	98.1	78.2 - 124	
Chloroethane	1	0.025	0.0216	86.3	41.2 - 153	
Chloroform	1	0.025	0.0244	97.7	73.2 - 125	
Chloromethane	1	0.025	0.0197	78.8	55.8 - 134	
cis-1,2-Dichloroethene	1	0.025	0.0237	94.9	77.3 - 122	
cis-1,3-Dichloropropene	1	0.025	0.0232	92.7	77.7 - 124	
Dibromomethane	1	0.025	0.0246	98.5	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0167	66.7	56 - 134	
Ethylbenzene	1	0.025	0.0223	89.3	80.9 - 121	
Hexachloro-1,3-butadiene	1	0.025	0.0199	79.6	73.7 - 133	
Isopropylbenzene	1	0.025	0.0228	91.2	81.6 - 124	
m&p-Xylenes	1	0.05	0.0441	88.1	78.5 - 122	
Methyl tert-butyl ether	1	0.025	0.0244	97.6	70.1 - 125	
Methylene Chloride	1	0.025	0.0233	93.4	69.5 - 120	
Naphthalene	1	0.025	0.0231	92.4	69.7 - 134	
n-Butylbenzene	1	0.025	0.0193	77	75.9 - 134	
n-Propylbenzene	1	0.025	0.0209	83.5	81.9 - 122	
o-Xylene	1	0.025	0.0234	93.4	79.1 - 123	
p-Isopropyltoluene	1	0.025	0.0212	84.7	77.6 - 129	
sec-Butylbenzene	1	0.025	0.0223	89.3	80.6 - 126	
Styrene	1	0.025	0.0230	92.2	79.9 - 124	
tert-Butylbenzene	1	0.025	0.0229	91.8	79.3 - 127	
Tetrachloroethene	1	0.025	0.0211	84.6	73.5 - 130	
Toluene	1	0.025	0.0232	92.8	77.9 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0227	90.7	72.6 - 125	
trans-1,3-Dichloropropene	1	0.025	0.0228	91.3	73.5 - 127	
Trichloroethene	1	0.025	0.0270	108	79.5 - 121	
Trichlorofluoromethane	1	0.025	0.0214	85.4	49.1 - 157	
Vinyl chloride	1	0.025	0.0209	83.7	61.5 - 134	

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG831097**
Analysis Date:	11/23/2015	Analyst:	073
Instrument ID:	VOCMS20		
Sample Numbers:	L801109-01, -02		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0246	98.2	78.5 - 125	
1,1,1-Trichloroethane	1	0.025	0.0245	97.9	71.1 - 129	
1,1,2,2-Tetrachloroethane	1	0.025	0.0194	77.7	79.3 - 123	J4
1,1,2-Trichloroethane	1	0.025	0.0242	96.8	81.6 - 120	
1,1-Dichloroethane	1	0.025	0.0250	100	71.7 - 127	
1,1-Dichloroethene	1	0.025	0.0227	90.9	59.9 - 137	
1,1-Dichloropropene	1	0.025	0.0230	92.1	72.5 - 127	
1,2,3-Trichlorobenzene	1	0.025	0.0211	84.6	75.7 - 134	
1,2,3-Trichloropropane	1	0.025	0.0239	95.8	74.9 - 124	
1,2,4-Trichlorobenzene	1	0.025	0.0188	75.3	76.1 - 136	J4
1,2,4-Trimethylbenzene	1	0.025	0.0229	91.6	79 - 122	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0234	93.5	64.8 - 131	
1,2-Dibromoethane	1	0.025	0.0247	98.6	79.8 - 122	
1,2-Dichlorobenzene	1	0.025	0.0225	90.1	84.7 - 118	
1,2-Dichloroethane	1	0.025	0.0247	98.9	65.3 - 126	
1,2-Dichloropropane	1	0.025	0.0249	99.6	77.4 - 125	
1,3,5-Trimethylbenzene	1	0.025	0.0233	93	81 - 123	
1,3-Dichlorobenzene	1	0.025	0.0219	87.6	77.6 - 127	
1,3-Dichloropropane	1	0.025	0.0238	95.3	80.6 - 115	
1,4-Dichlorobenzene	1	0.025	0.0209	83.7	82.2 - 114	
2,2-Dichloropropane	1	0.025	0.0206	82.4	61.3 - 134	
2-Butanone (MEK)	1	0.125	0.1090	87.2	46.4 - 155	
2-Chlorotoluene	1	0.025	0.0221	88.5	76.4 - 125	
2-Hexanone	1	0.125	0.1019	81.5	59.4 - 151	
4-Chlorotoluene	1	0.025	0.0217	86.7	81.5 - 121	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1210	96.8	63.3 - 138	
Acetone	1	0.125	0.1103	88.3	28.7 - 175	
Benzene	1	0.025	0.0242	96.9	73 - 122	
Bromobenzene	1	0.025	0.0231	92.5	81.5 - 115	
Bromochloromethane	1	0.025	0.0255	102	78.9 - 123	
Bromodichloromethane	1	0.025	0.0250	100	75.5 - 121	
Bromoform	1	0.025	0.0249	99.5	71.5 - 131	
Bromomethane	1	0.025	0.0233	93.2	22.4 - 187	
Carbon disulfide	1	0.025	0.0215	86.2	53 - 134	
Carbon tetrachloride	1	0.025	0.0245	98	70.9 - 129	
Chlorobenzene	1	0.025	0.0236	94.5	79.7 - 122	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG831097**
Analysis Date:	11/23/2015	Analyst:	073
Instrument ID:	VOCMS20		
Sample Numbers:	L801109-01, -02		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0249	99.4	78.2 - 124	
Chloroethane	1	0.025	0.0222	88.9	41.2 - 153	
Chloroform	1	0.025	0.0254	101	73.2 - 125	
Chloromethane	1	0.025	0.0203	81	55.8 - 134	
cis-1,2-Dichloroethene	1	0.025	0.0243	97.3	77.3 - 122	
cis-1,3-Dichloropropene	1	0.025	0.0228	91.3	77.7 - 124	
Dibromomethane	1	0.025	0.0245	97.9	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0186	74.6	56 - 134	
Ethylbenzene	1	0.025	0.0229	91.7	80.9 - 121	
Hexachloro-1,3-butadiene	1	0.025	0.0206	82.5	73.7 - 133	
Isopropylbenzene	1	0.025	0.0233	93.2	81.6 - 124	
m&p-Xylenes	1	0.05	0.0456	91.2	78.5 - 122	
Methyl tert-butyl ether	1	0.025	0.0248	99.2	70.1 - 125	
Methylene Chloride	1	0.025	0.0241	96.3	69.5 - 120	
Naphthalene	1	0.025	0.0240	95.8	69.7 - 134	
n-Butylbenzene	1	0.025	0.0196	78.3	75.9 - 134	
n-Propylbenzene	1	0.025	0.0219	87.7	81.9 - 122	
o-Xylene	1	0.025	0.0237	94.7	79.1 - 123	
p-Isopropyltoluene	1	0.025	0.0224	89.4	77.6 - 129	
sec-Butylbenzene	1	0.025	0.0232	92.9	80.6 - 126	
Styrene	1	0.025	0.0236	94.2	79.9 - 124	
tert-Butylbenzene	1	0.025	0.0242	96.6	79.3 - 127	
Tetrachloroethene	1	0.025	0.0214	85.4	73.5 - 130	
Toluene	1	0.025	0.0236	94.3	77.9 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0235	94.1	72.6 - 125	
trans-1,3-Dichloropropene	1	0.025	0.0228	91.2	73.5 - 127	
Trichloroethene	1	0.025	0.0276	111	79.5 - 121	
Trichlorofluoromethane	1	0.025	0.0224	89.7	49.1 - 157	
Vinyl chloride	1	0.025	0.0223	89.1	61.5 - 134	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG831097**
Analysis Date:	11/23/2015	Analyst:	073
Instrument ID:	VOCMS20		
Sample Numbers:	L801109-01, -02		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0243	97.2	0.0246	98.2	78.5 - 125		1.02	20	
1,1,1-Trichloroethane	1	0.025	0.0240	95.9	0.0245	97.9	71.1 - 129		2.06	20	
1,1,2,2-Tetrachloroethane	1	0.025	0.0196	78.4	0.0194	77.7	79.3 - 123	J4	0.86	20	
1,1,2-Trichloroethane	1	0.025	0.0244	97.5	0.0242	96.8	81.6 - 120		0.68	20	
1,1-Dichloroethane	1	0.025	0.0243	97.1	0.0250	100	71.7 - 127		2.97	20	
1,1-Dichloroethene	1	0.025	0.0220	88.2	0.0227	90.9	59.9 - 137		3.06	20	
1,1-Dichloropropene	1	0.025	0.0221	88.3	0.0230	92.1	72.5 - 127		4.16	20	
1,2,3-Trichlorobenzene	1	0.025	0.0205	82.1	0.0211	84.6	75.7 - 134		2.96	20	
1,2,3-Trichloropropane	1	0.025	0.0238	95.3	0.0239	95.8	74.9 - 124		0.51	20	
1,2,4-Trichlorobenzene	1	0.025	0.0184	73.6	0.0188	75.3	76.1 - 136	J4	2.25	20	
1,2,4-Trimethylbenzene	1	0.025	0.0221	88.3	0.0229	91.6	79 - 122		3.67	20	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0231	92.2	0.0234	93.5	64.8 - 131		1.41	20	
1,2-Dibromoethane	1	0.025	0.0243	97.1	0.0247	98.6	79.8 - 122		1.49	20	
1,2-Dichlorobenzene	1	0.025	0.0223	89.3	0.0225	90.1	84.7 - 118		0.93	20	
1,2-Dichloroethane	1	0.025	0.0244	97.6	0.0247	98.9	65.3 - 126		1.24	20	
1,2-Dichloropropane	1	0.025	0.0246	98.5	0.0249	99.6	77.4 - 125		1.03	20	
1,3,5-Trimethylbenzene	1	0.025	0.0225	89.8	0.0233	93	81 - 123		3.53	20	
1,3-Dichlorobenzene	1	0.025	0.0212	84.9	0.0219	87.6	77.6 - 127		3.07	20	
1,3-Dichloropropane	1	0.025	0.0243	97.3	0.0238	95.3	80.6 - 115		2.08	20	
1,4-Dichlorobenzene	1	0.025	0.0206	82.3	0.0209	83.7	82.2 - 114		1.72	20	
2,2-Dichloropropane	1	0.025	0.0198	79.4	0.0206	82.4	61.3 - 134		3.7	20	
2-Butanone (MEK)	1	0.125	0.1057	84.6	0.1090	87.2	46.4 - 155		3.07	20	
2-Chlorotoluene	1	0.025	0.0212	85	0.0221	88.5	76.4 - 125		4.02	20	
2-Hexanone	1	0.125	0.0963	77.1	0.1019	81.5	59.4 - 151		5.6	20	
4-Chlorotoluene	1	0.025	0.0212	84.9	0.0217	86.7	81.5 - 121		2.06	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1196	95.7	0.1210	96.8	63.3 - 138		1.14	20	
Acetone	1	0.125	0.1073	85.8	0.1103	88.3	28.7 - 175		2.82	20.9	
Benzene	1	0.025	0.0234	93.7	0.0242	96.9	73 - 122		3.39	20	
Bromobenzene	1	0.025	0.0226	90.4	0.0231	92.5	81.5 - 115		2.31	20	
Bromochloromethane	1	0.025	0.0247	98.7	0.0255	102	78.9 - 123		3.38	20	
Bromodichloromethane	1	0.025	0.0248	99.4	0.0250	100	75.5 - 121		0.61	20	
Bromoform	1	0.025	0.0244	97.4	0.0249	99.5	71.5 - 131		2.1	20	
Bromomethane	1	0.025	0.0221	88.4	0.0233	93.2	22.4 - 187		5.23	20	
Carbon disulfide	1	0.025	0.0208	83.2	0.0215	86.2	53 - 134		3.59	20	
Carbon tetrachloride	1	0.025	0.0233	93.1	0.0245	98	70.9 - 129		5.09	20	
Chlorobenzene	1	0.025	0.0231	92.6	0.0236	94.5	79.7 - 122		2.05	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG831097**
Analysis Date:	11/23/2015	Analyst:	073
Instrument ID:	VOCMS20		
Sample Numbers:	L801109-01, -02		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.025	0.0245	98.1	0.0249	99.4	78.2 - 124		1.35	20	
Chloroethane	1	0.025	0.0216	86.3	0.0222	88.9	41.2 - 153		3.04	20	
Chloroform	1	0.025	0.0244	97.7	0.0254	101	73.2 - 125		3.75	20	
Chloromethane	1	0.025	0.0197	78.8	0.0203	81	55.8 - 134		2.77	20	
cis-1,2-Dichloroethene	1	0.025	0.0237	94.9	0.0243	97.3	77.3 - 122		2.56	20	
cis-1,3-Dichloropropene	1	0.025	0.0232	92.7	0.0228	91.3	77.7 - 124		1.58	20	
Dibromomethane	1	0.025	0.0246	98.5	0.0245	97.9	79.5 - 118		0.61	20	
Dichlorodifluoromethane	1	0.025	0.0167	66.7	0.0186	74.6	56 - 134		11.1	20	
Ethylbenzene	1	0.025	0.0223	89.3	0.0229	91.7	80.9 - 121		2.7	20	
Hexachloro-1,3-butadiene	1	0.025	0.0199	79.6	0.0206	82.5	73.7 - 133		3.61	20	
Isopropylbenzene	1	0.025	0.0228	91.2	0.0233	93.2	81.6 - 124		2.17	20	
m&p-Xylenes	1	0.05	0.0441	88.1	0.0456	91.2	78.5 - 122		3.44	20	
Methyl tert-butyl ether	1	0.025	0.0244	97.6	0.0248	99.2	70.1 - 125		1.66	20	
Methylene Chloride	1	0.025	0.0233	93.4	0.0241	96.3	69.5 - 120		3.05	20	
Naphthalene	1	0.025	0.0231	92.4	0.0240	95.8	69.7 - 134		3.6	20	
n-Butylbenzene	1	0.025	0.0193	77	0.0196	78.3	75.9 - 134		1.57	20	
n-Propylbenzene	1	0.025	0.0209	83.5	0.0219	87.7	81.9 - 122		4.89	20	
o-Xylene	1	0.025	0.0234	93.4	0.0237	94.7	79.1 - 123		1.3	20	
p-Isopropyltoluene	1	0.025	0.0212	84.7	0.0224	89.4	77.6 - 129		5.47	20	
sec-Butylbenzene	1	0.025	0.0223	89.3	0.0232	92.9	80.6 - 126		4.04	20	
Styrene	1	0.025	0.0230	92.2	0.0236	94.2	79.9 - 124		2.22	20	
tert-Butylbenzene	1	0.025	0.0229	91.8	0.0242	96.6	79.3 - 127		5.17	20	
Tetrachloroethene	1	0.025	0.0211	84.6	0.0214	85.4	73.5 - 130		0.98	20	
Toluene	1	0.025	0.0232	92.8	0.0236	94.3	77.9 - 116		1.57	20	
trans-1,2-Dichloroethene	1	0.025	0.0227	90.7	0.0235	94.1	72.6 - 125		3.72	20	
trans-1,3-Dichloropropene	1	0.025	0.0228	91.3	0.0228	91.2	73.5 - 127		0.17	20	
Trichloroethene	1	0.025	0.0270	108	0.0276	111	79.5 - 121		2.25	20	
Trichlorofluoromethane	1	0.025	0.0214	85.4	0.0224	89.7	49.1 - 157		4.93	20	
Vinyl chloride	1	0.025	0.0209	83.7	0.0223	89.1	61.5 - 134		6.29	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG829391**
Analysis Date:	11/16/2015	Analyst:	126
Instrument ID:	VOCMS35		
Sample Numbers:	L801109-01, -02		

Matrix Spike / Matrix Spike Duplicate

L801101-09

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
1,1,1,2-Tetrachloroethane	1	0.025	<0.0004	0.0241	96.2	0.0256	102	70.5 - 132		6.31	20	
1,1,1-Trichloroethane	1	0.025	<0.0003	0.0231	92.4	0.0244	97.6	58.7 - 134		5.42	20	
1,1,2,2-Tetrachloroethane	1	0.025	<0.0001	0.0237	94.7	0.0246	98.4	64.9 - 145		3.83	20	
1,1,2-Trichloroethane	1	0.025	<0.0004	0.0259	104	0.0279	112	74.1 - 130		7.66	20	
1,1-Dichloroethane	1	0.025	<0.0003	0.0225	90.1	0.0237	94.9	64 - 134		5.22	20	
1,1-Dichloroethene	1	0.025	<0.0004	0.0194	77.7	0.0206	82.4	48.8 - 144		5.92	20	
1,1-Dichloropropene	1	0.025	<0.0004	0.0240	96.1	0.0256	103	61.5 - 136		6.53	20	
1,2,3-Trichlorobenzene	1	0.025	<0.0002	0.0250	100	0.0281	112	65.7 - 143		11.6	20	
1,2,3-Trichloropropane	1	0.025	<0.0008	0.0219	87.5	0.0235	94.1	71.5 - 134		7.28	20	
1,2,4-Trichlorobenzene	1	0.025	<0.0004	0.0259	104	0.0288	115	67 - 146		10.5	20	
1,2,4-Trimethylbenzene	1	0.025	<0.0004	0.0245	98.1	0.0260	104	60.5 - 137		5.9	20	
1,2-Dibromo-3-Chloropropane	1	0.025	<0.0013	0.0227	90.8	0.0234	93.4	63.9 - 142		2.81	20.2	
1,2-Dibromoethane	1	0.025	<0.0004	0.0251	100	0.0268	107	73.8 - 131		6.44	20	
1,2-Dichlorobenzene	1	0.025	<0.0003	0.0267	107	0.0284	113	77.4 - 127		5.96	20	
1,2-Dichloroethane	1	0.025	<0.0004	0.0188	75.2	0.0200	80.1	60.7 - 132		6.4	20	
1,2-Dichloropropane	1	0.025	<0.0003	0.0238	95.2	0.0253	101	69.7 - 130		6.29	20	
1,3,5-Trimethylbenzene	1	0.025	<0.0004	0.0248	99.4	0.0266	106	67.9 - 134		6.68	20	
1,3-Dichlorobenzene	1	0.025	<0.0002	0.0248	99.1	0.0262	105	67.9 - 136		5.83	20	
1,3-Dichloropropane	1	0.025	<0.0004	0.0262	105	0.0278	111	74.3 - 123		6.11	20	
1,4-Dichlorobenzene	1	0.025	<0.0003	0.0257	103	0.0274	110	74.4 - 123		6.62	20	
2,2-Dichloropropane	1	0.025	<0.0003	0.0190	75.9	0.0202	80.7	54.9 - 142		6.18	20	
2-Butanone (MEK)	1	0.125	<0.0039	0.0998	79.6	0.1007	80.3	45 - 156		0.85	20.8	
2-Chlorotoluene	1	0.025	<0.0004	0.0250	100	0.0271	108	66.9 - 134		7.91	20	
2-Hexanone	1	0.125	<0.0038	0.1063	85.1	0.1070	85.6	59.4 - 154		0.66	20.1	
4-Chlorotoluene	1	0.025	<0.0004	0.0249	99.7	0.0264	106	66.8 - 134		5.75	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	<0.0021	0.0960	76.8	0.0980	78.4	60.7 - 150		2.09	20	
Acetone	1	0.125	<0.01	0.0940	75.2	0.0924	73.9	25 - 156		1.78	21.5	
Benzene	1	0.025	<0.0003	0.0235	94.2	0.0248	99.4	58.6 - 133		5.38	20	
Bromobenzene	1	0.025	<0.0004	0.0234	93.6	0.0250	100	70.6 - 125		6.66	20	
Bromochloromethane	1	0.025	<0.0005	0.0236	94.4	0.0251	100	74.4 - 128		5.98	20	
Bromodichloromethane	1	0.025	<0.0004	0.0218	87.1	0.0235	94	69.2 - 127		7.69	20	
Bromoform	1	0.025	<0.0005	0.0240	95.9	0.0253	101	66.3 - 140		5.2	20	
Bromomethane	1	0.025	<0.0009	0.0209	83.6	0.0217	86.8	16.6 - 183		3.73	20.5	
Carbon disulfide	1	0.025	<0.0003	0.0228	91	0.0238	95.1	34.9 - 138		4.35	20	
Carbon tetrachloride	1	0.025	<0.0004	0.0251	100	0.0239	95.5	60.6 - 139		5.04	20	
Chlorobenzene	1	0.025	<0.0003	0.0264	105	0.0282	113	70.1 - 130		6.68	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG829391**
Analysis Date:	11/16/2015	Analyst:	126
Instrument ID:	VOCMS35		
Sample Numbers:	L801109-01, -02		

Matrix Spike / Matrix Spike Duplicate

L801101-09

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.025	<0.0003	0.0244	97.8	0.0259	104	71.6 - 132		5.83	20	
Chloroethane	1	0.025	<0.0005	0.0202	80.7	0.0212	84.8	33.3 - 155		4.98	20	
Chloroform	1	0.025	<0.0003	0.0222	88.8	0.0237	94.6	66.1 - 133		6.37	20	
Chloromethane	1	0.025	<0.0003	0.0214	85.6	0.0220	88.1	40.7 - 139		2.95	20	
cis-1,2-Dichloroethene	1	0.025	<0.0003	0.0234	93.5	0.0249	99.4	60.6 - 136		6.19	20	
cis-1,3-Dichloropropene	1	0.025	<0.0004	0.0229	91.6	0.0247	99	71.1 - 129		7.71	20	
Dibromomethane	1	0.025	<0.0003	0.0209	83.6	0.0226	90.5	72.8 - 127		7.89	20	
Dichlorodifluoromethane	1	0.025	<0.0006	0.0223	89.1	0.0229	91.7	42.2 - 146		2.89	20	
Ethylbenzene	1	0.025	<0.0004	0.0264	106	0.0279	111	62.7 - 136		5.42	20	
Hexachloro-1,3-butadiene	1	0.025	<0.0003	0.0273	109	0.0308	123	61.1 - 144		12.1	20.1	
Isopropylbenzene	1	0.025	<0.0003	0.0265	106	0.0280	112	67.4 - 136		5.65	20	
m&p-Xylenes	1	0.05	<0.0007	0.0532	106	0.0563	113	64.1 - 133		5.67	20	
Methyl tert-butyl ether	1	0.025	<0.0004	0.0205	81.9	0.0215	86.2	61.4 - 136		5.03	20	
Methylene Chloride	1	0.025	<0.001	0.0231	92.4	0.0239	95.5	61.5 - 125		3.25	20	
Naphthalene	1	0.025	<0.001	0.0243	97.4	0.0264	106	61.8 - 143		8.23	20	
n-Butylbenzene	1	0.025	<0.0004	0.0267	107	0.0282	113	64.8 - 145		5.37	20	
n-Propylbenzene	1	0.025	<0.0003	0.0260	104	0.0277	111	63.2 - 139		6.59	20	
o-Xylene	1	0.025	<0.0003	0.0252	101	0.0271	108	67.1 - 133		7.31	20	
p-Isopropyltoluene	1	0.025	<0.0004	0.0249	99.8	0.0268	107	62.8 - 143		7.2	20	
sec-Butylbenzene	1	0.025	<0.0004	0.0260	104	0.0273	109	66.8 - 139		4.99	20	
Styrene	1	0.025	<0.0003	0.0251	100	0.0263	105	68.2 - 133		4.65	20	
tert-Butylbenzene	1	0.025	<0.0004	0.0253	101	0.0268	107	67.1 - 138		5.73	20	
Tetrachloroethene	1	0.025	<0.0004	0.0278	111	0.0292	117	57.4 - 141		5.15	20	
Toluene	1	0.025	<0.0008	0.0243	97	0.0261	105	67.8 - 124		7.44	20	
trans-1,2-Dichloroethene	1	0.025	<0.0004	0.0239	95.6	0.0251	100	61 - 132		4.87	20	
trans-1,3-Dichloropropene	1	0.025	<0.0004	0.0220	87.9	0.0238	95.3	66.3 - 136		8.11	20	
Trichloroethene	1	0.025	<0.0004	0.0248	99.2	0.0264	106	48.9 - 148		6.23	20	
Trichlorofluoromethane	1	0.025	<0.0012	0.0207	82.9	0.0216	86.5	39.9 - 165		4.33	20	
Vinyl chloride	1	0.025	<0.0003	0.0218	87	0.0224	89.5	44.3 - 143		2.76	20	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG829391**
Analysis Date:	11/16/2015	Analyst:	126
Instrument ID:	VOCMS35		
Sample Numbers:	L801109-01, -02		

Internal Standard Response and Retention Time Summary

File ID: 1116_34
Analyzed: 11/16/15 210100

	IS1		IS2		IS3		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	295903	4.43	518294	4.76	88524	5.94	223100	8.33
Upper Limit	592000	4.93	1040000	5.26	177000	6.44	446000	8.83
Lower Limit	148000	3.93	259000	4.26	44300	5.44	112000	7.83
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L801109-01	223113	4.43	395941	4.76	67600	5.94	171010	8.33
L801109-02	228998	4.43	407420	4.76	71433	5.94	170644	8.33
MSD WG829391	297438	4.43	508001	4.76	87906	5.93	219024	8.33
MS WG829391	332103	4.42	572982	4.76	97859	5.93	243279	8.33
LCSD WG829391	300487	4.43	526748	4.76	90489	5.94	225475	8.33
LCS WG829391	291743	4.43	506569	4.76	86892	5.94	214080	8.33
BLANK WG829391	297031	4.43	520008	4.76	87741	5.94	213467	8.33

Legend:

IS1 -- PENTAFLUOROBENZENE
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS4 -- 1,4-DICHLOROBENZENE-D4

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG831097**
Analysis Date:	11/23/2015	Analyst:	073
Instrument ID:	VOCMS20		
Sample Numbers:	L801109-01, -02		

Internal Standard Response and Retention Time Summary

File ID: 1123_02
Analyzed: 11/23/15 112300

	IS1		IS2		IS3		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	319090	4.33	610285	4.66	112949	5.82	292924	8.21
Upper Limit	638000	4.83	1220000	5.16	226000	6.32	586000	8.71
Lower Limit	160000	3.83	305000	4.16	56500	5.32	146000	7.71
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L801109-01	301209	4.33	594943	4.66	112266	5.82	283088	8.20
L801109-02	322056	4.33	631388	4.66	118473	5.82	292993	8.21
MSD WG831097	329749	4.33	644246	4.66	118879	5.83	300951	8.21
MS WG831097	314395	4.33	615470	4.66	115676	5.82	299133	8.21
LCSD WG831097	306046	4.33	598286	4.66	111099	5.83	285308	8.21
LCS WG831097	318623	4.33	614878	4.66	115218	5.83	288625	8.21
BLANK WG831097	303302	4.33	594918	4.66	105897	5.83	260886	8.21

Legend:

IS1 -- PENTAFLUOROBENZENE
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS4 -- 1,4-DICHLOROBENZENE-D4

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG829391**
Analysis Date:	11/16/2015	Analyst:	126
Instrument ID:	VOCMS35		
Sample Numbers:	L801109-01, -02		

Surrogate Summary

			BFB		DFM		TD8		TFT	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L801109-01	VOCMS35	1116_59	0.0392	98.1	0.0396	99.1	0.0410	103		
L801109-02	VOCMS35	1116_60	0.0377	94.4	0.0398	99.5	0.0409	102		
LCS WG829391	VOCMS35	1116_35	0.0377	94.2	0.0373	93.2	0.0406	102	0.0405	101
LCSD WG829391	VOCMS35	1116_36	0.0371	92.8	0.0384	96.0	0.0405	101	0.0405	101
BLANK WG829391	VOCMS35	1116_39	0.0377	94.3	0.0378	94.6	0.0404	101	0.0411	103
MS WG829391	VOCMS35	1116_40	0.0373	93.4	0.0378	94.5	0.0407	102	0.0409	102
MSD WG829391	VOCMS35	1116_41	0.0375	93.8	0.0367	91.7	0.0410	103	0.0408	102

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 80.1 - 120
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 79 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 90 - 115
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 90.4 - 116

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	60425210.23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/13/2015	**Analytic Batch:**	**WG831097**
Analysis Date:	11/23/2015	Analyst:	073
Instrument ID:	VOCMS20		
Sample Numbers:	L801109-01, -02		

Surrogate Summary

			BFB		DFM		TD8		TFT	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L801109-01	VOCMS20	1123_30	0.0399	99.6	0.0387	96.6	0.0398	99.6		
L801109-02	VOCMS20	1123_31	0.0398	99.6	0.0382	95.4	0.0401	100		
LCS WG831097	VOCMS20	1123_04	0.0391	97.7	0.0380	95.1	0.0401	100	0.0408	102
LCSD WG831097	VOCMS20	1123_05	0.0392	98.0	0.0375	93.7	0.0394	98.4	0.0409	102
BLANK WG831097	VOCMS20	1123_08	0.0399	99.9	0.0375	93.8	0.0391	97.7	0.0406	102
MS WG831097	VOCMS20	1123_13	0.0400	100	0.0388	96.9	0.0393	98.3	0.0409	102
MSD WG831097	VOCMS20	1123_14	0.0394	98.5	0.0377	94.2	0.0394	98.4	0.0411	103

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 80.1 - 120
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 79 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 90 - 115
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 90.4 - 116

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 60425210.23446543.00
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/13/2015
Instrument ID: VOCMS35

Instrument Performance Summary

FileID: 1116_33.D Date: 11/16/2015 Time: 8:40 PM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	20.7
75	30 - 60% of mass 95	51
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.4
173	0 - 2% of mass 174	1.1
174	50 - 150% of mass 95	73.7
175	5 - 9% of mass 174	7.8
176	95 - 101% of mass 174	97.2
177	5 - 9% of mass 176	6.8

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG829391	LCS WG829391	1116_35.D	11/16/2015	9:22 PM
LCSD WG829391	LCSD WG829391	1116_36.D	11/16/2015	9:43 PM
Blank WG829391	Blank WG829391	1116_39.D	11/16/2015	10:48 PM
MS WG829391	MS WG829391	1116_40.D	11/17/2015	12:01 AM
MSD WG829391	MSD WG829391	1116_41.D	11/17/2015	12:22 AM
TU503-TMW13-NT01	L801109-01	1116_59.D	11/17/2015	6:44 AM
TU503-TMW14-NT01	L801109-02	1116_60.D	11/17/2015	7:05 AM

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 60425210.23446543.00
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/13/2015
Instrument ID: VOCMS20

Instrument Performance Summary

FileID: 1123_02.D Date: 11/23/2015 Time: 11:23 AM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	21.1
75	30 - 60% of mass 95	52
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.3
173	0 - 2% of mass 174	1.2
174	50 - 150% of mass 95	63.8
175	5 - 9% of mass 174	8.1
176	95 - 101% of mass 174	97.8
177	5 - 9% of mass 176	6.5

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
Blank WG831097	Blank WG831097	1123_08.D	11/23/2015	2:28 PM
TU503-TMW13-NT01	L801109-01	1123_30.D	11/23/2015	10:27 PM
TU503-TMW14-NT01	L801109-02	1123_31.D	11/23/2015	10:46 PM
LCS WG831097	LCS WG831097	1123_04.D	11/23/2015	1:14 PM
LCSD WG831097	LCSD WG831097	1123_05.D	11/23/2015	1:32 PM
MS WG831097	MS WG831097	1123_13.D	11/23/2015	4:59 PM
MSD WG831097	MSD WG831097	1123_14.D	11/23/2015	5:18 PM

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS20
Method Name : V820K13O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
TPH (GC/MS) LOW FRACTION										0.000000	0.00
PROPENE				0.232	0.203	0.197	0.177	0.162	0.158	0.181832	14.59
DICHLORODIFLUOROMETHANE	0.833	0.904	0.889	0.822	0.815	0.882	0.866	0.823	0.795	0.847204	4.18
CHLOROMETHANE	1.450	1.325	1.211	1.182	1.119	1.175	1.153	1.112	1.105	1.192978	8.81
VINYL CHLORIDE	0.934	1.420	1.335	1.342	1.258	1.285	1.287	1.212	1.200	1.253198	9.84
1,3-BUTADIENE	0.591	0.702	0.755	0.866	0.751	0.829	0.836	0.796	0.780	0.776230	9.90
BROMOMETHANE	0.755	0.869	0.808	0.854	0.723	0.804	0.816	0.768	0.740	0.779251	7.60
CHLOROETHANE	0.900	1.012	0.873	0.867	0.795	0.814	0.827	0.789	0.775	0.837014	8.77
TRICHLOROFLUOROMETHANE	1.297	1.444	1.394	1.240	1.228	1.272	1.291	1.233	1.192	1.279693	5.99
DICHLOROFLUOROMETHANE	1.590	1.953	1.925	1.908	1.788	1.863	1.872	1.781	1.750	1.820838	5.68
ETHYL ETHER	1.018	0.904	0.872	0.850	0.867	0.878	0.873	0.825	0.822	0.872901	6.22
ACROLEIN	0.131	0.147	0.114	0.111	0.107	0.107	0.106	0.101	0.104	0.112881	12.26
1,1-DICHLOROETHENE	1.471	1.498	1.520	1.560	1.401	1.451	1.474	1.415	1.382	1.456577	3.81
1,1,2-TRICHLOROTRIFLUOROETHANE	0.889	0.854	0.838	0.825	0.785	0.780	0.812	0.778	0.765	0.812203	4.63
ACETONE				0.426	0.389	0.409	0.404	0.374	0.373	0.386331	7.31
IODOMETHANE	1.052	1.196	1.185	1.234	1.182	1.201	1.251	1.202	1.210	1.212507	5.81
CARBON DISULFIDE	3.069	3.193	3.104	2.962	2.841	2.846	3.044	3.043	3.037	3.057672	4.61
METHYLENE CHLORIDE	1.122	1.063	1.026	1.065	0.962	0.967	0.993	0.952	0.946	1.005986	5.63
ACRYLONITRILE	0.254	0.251	0.243	0.219	0.224	0.250	0.254	0.246	0.244	0.244756	4.99
n-Hexane				1.178	0.987	0.952	0.953	0.879	0.876	0.956128	10.18
TRANS-1,2-DICHLOROETHENE	1.012	0.979	0.897	0.893	0.884	0.893	0.932	0.901	0.897	0.922974	4.38
METHYL TERT-BUTYL ETHER	2.559	2.342	2.353	2.240	2.342	2.500	2.547	2.441	2.405	2.429370	4.17
1,1-DICHLOROETHANE	1.546	1.783	1.757	1.871	1.752	1.821	1.851	1.765	1.751	1.780750	5.08
VINYL ACETATE	1.444	1.497	1.500	1.580	1.566	1.665	1.628	1.646	1.529	1.562057	4.78
DI-ISOPROPYL ETHER	3.008	3.274	3.208	3.242	3.247	3.407	3.472	3.356	3.349	3.326829	4.58
2,2-Dichloropropane	1.396	1.350	1.349	1.353	1.267	1.350	1.357	1.308	1.269	1.327951	3.28
CIS-1,2-DICHLOROETHENE	1.088	0.959	1.044	1.002	0.971	1.018	1.041	0.985	0.992	1.016214	3.79
2-BUTANONE (MEK)			0.525	0.407	0.395	0.425	0.433	0.413	0.413	0.426357	9.16

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS20
Method Name : V820K13O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
BROMOCHLOROMETHANE	0.382	0.518	0.490	0.499	0.497	0.528	0.519	0.511	0.502	0.499721	8.24
TETRAHYDROFURAN		0.229	0.295	0.239	0.212	0.207	0.217	0.204	0.197	0.220043	13.42
CHLOROFORM	1.499	1.572	1.605	1.665	1.631	1.661	1.705	1.615	1.610	1.629303	3.63
DIBROMOFLUOROMETHANE	0.536	0.538	0.556	0.556	0.571	0.564	0.600	0.591	0.592	0.574502	4.64
1,1,1-TRICHLOROETHANE	1.097	1.281	1.225	1.218	1.226	1.240	1.298	1.224	1.204	1.234290	4.54
CARBON TETRACHLORIDE	0.811	0.992	0.963	0.934	0.928	0.926	0.998	0.934	0.933	0.947181	5.79
1,1-Dichloropropene	1.305	1.311	1.175	1.292	1.226	1.218	1.273	1.220	1.210	1.250995	3.52
2,2,4-TRIMETHYLPENTANE	3.938	4.043	3.931	3.957	3.809	4.026	4.222	3.965	3.888	3.985006	2.66
HEPTANE				2.173	1.795	1.770	1.798	1.673	1.653	1.792112	9.08
BENZENE	3.884	4.098	4.052	4.164	4.085	4.045	4.193	3.989	3.969	4.070366	2.33
1,2-DICHLOROETHANE	1.089	1.244	1.178	1.326	1.235	1.270	1.288	1.230	1.215	1.233517	5.01
TRICHLOROETHENE	0.409	0.476	0.447	0.439	0.415	0.436	0.445	0.431	0.429	0.437113	4.03
1,2-DICHLOROPROPANE	0.329	0.358	0.370	0.389	0.359	0.381	0.388	0.376	0.377	0.372934	4.92
DIBROMOMETHANE	0.219	0.263	0.251	0.249	0.235	0.251	0.249	0.248	0.241	0.245344	4.54
BROMODICHLOROMETHANE	0.579	0.681	0.618	0.611	0.595	0.644	0.654	0.636	0.641	0.635669	5.04
a,a,a-Trifluorotoluene	0.542	0.545	0.550	0.548	0.529	0.543	0.544	0.542	0.542	0.539892	1.49
2-CHLOROETHYL VINYL ETHER	0.128	0.160	0.157	0.160	0.153	0.172	0.187	0.183	0.191	0.172276	13.54
CIS-1,3-DICHLOROPROPENE	0.656	0.766	0.752	0.797	0.761	0.807	0.833	0.816	0.827	0.792825	7.25
4-METHYL-2-PENTANONE (MIBK)	0.366	0.345	0.324	0.326	0.302	0.362	0.369	0.354	0.353	0.345743	5.96
TOLUENE-D8	1.310	1.304	1.307	1.320	1.311	1.328	1.339	1.330	1.320	1.317584	0.84
TOLUENE	2.238	2.366	2.210	2.244	2.050	2.159	2.174	2.095	2.108	2.180760	3.92
TRANS-1,3-DICHLOROPROPENE	0.601	0.644	0.640	0.651	0.631	0.681	0.713	0.704	0.721	0.681295	7.58
1,1,2-TRICHLOROETHANE	2.000	1.906	2.104	1.999	1.940	2.045	2.001	1.888	1.940	1.989235	3.26
TETRACHLOROETHENE	1.649	1.810	1.695	1.743	1.702	1.724	1.716	1.625	1.680	1.720595	3.45
1,3-Dichloropropane	3.850	3.977	3.655	3.825	3.801	3.925	3.878	3.679	3.797	3.849919	3.00
2-HEXANONE		1.326	1.019	0.897	0.822	0.961	0.948	0.893	0.928	0.968496	14.02
CHLORODIBROMOMETHANE	1.828	1.784	1.853	1.949	1.948	1.977	2.008	1.946	2.018	1.965915	6.10
1,2-DIBROMOETHANE	1.589	1.930	1.667	1.896	1.782	1.902	1.869	1.794	1.841	1.834080	6.48
CHLOROBENZENE	5.845	6.775	6.949	7.006	6.570	7.037	6.842	6.583	6.840	6.809828	5.73

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS20
Method Name : V820K13O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
1,1,1,2-TETRACHLOROETHANE	1.943	2.091	1.989	1.976	1.974	2.123	2.046	2.026	2.087	2.053689	3.87
ETHYLBENZENE	3.743	3.580	3.888	3.995	3.719	3.945	3.888	3.743	3.920	3.873695	4.30
M&P-XYLENE	4.502	4.887	4.768	4.852	4.690	4.921	4.862	4.681	4.850	4.833299	3.76
O-XYLENE	4.254	4.398	4.295	4.715	4.548	4.850	4.745	4.509	4.661	4.586813	4.49
STYRENE	7.297	6.554	7.162	7.427	7.111	7.674	7.816	7.389	7.909	7.518771	6.63
Bromoform	1.032	1.016	0.816	0.960	0.935	1.009	1.024	1.010	1.077	1.012233	8.79
Isopropylbenzene	11.15	12.28	11.57	11.48	11.07	12.37	12.15	11.63	12.02	11.78120	4.13
4-BROMOFLUOROBENZENE	2.912	2.893	2.889	2.898	2.853	2.998	2.936	2.882	2.957	2.916000	1.38
Bromobenzene	5.725	5.751	5.466	5.944	5.398	5.951	5.773	5.607	5.744	5.747939	3.45
1,1,2,2-TETRACHLOROETHANE	2.653	2.586	2.145	2.366	2.206	2.492	2.408	2.367	2.343	2.399037	6.12
1,2,3-TRICHLOROPROPANE	0.738	0.677	0.643	0.639	0.637	0.666	0.655	0.621	0.622	0.652630	5.07
TRANS-1,4-DICHLORO-2-BUTENE	0.879	0.473	0.662	0.648	0.618	0.737	0.714	0.687	0.725	0.693649	14.41
n-Propylbenzene	16.20	15.85	14.78	13.96	13.35	15.13	14.98	14.48	14.92	14.84125	5.67
4-ETHYLTOLUENE	12.46	12.55	11.54	11.48	10.81	12.34	12.44	11.87	12.32	12.01937	5.03
2-Chlorotoluene	3.029	2.925	2.716	2.736	2.501	2.771	2.670	2.547	2.697	2.732454	5.77
4-Chlorotoluene	9.201	9.646	8.788	9.020	8.505	9.216	9.266	8.838	9.099	9.096287	3.56
1,3,5-Trimethylbenzene	8.21	10.14	9.64	9.48	9.34	10.61	10.53	10.06	10.35	9.88965	7.37
tert-Butylbenzene	7.653	8.295	7.842	7.378	7.027	8.327	8.202	7.883	8.013	7.833656	5.46
1,2,4-Trimethylbenzene	9.67	9.73	9.76	9.41	8.94	10.40	10.35	9.91	10.19	9.85045	4.70
sec-Butylbenzene	12.01	13.26	12.53	11.71	10.84	13.20	13.21	12.55	12.80	12.42180	6.36
1,3-DICHLOROBENZENE	4.943	4.988	4.703	4.788	4.482	4.974	4.988	4.755	4.934	4.863952	3.77
p-Isopropyltoluene	9.04	10.58	10.19	9.24	8.48	10.71	10.64	10.21	10.46	9.96038	7.75
DICYCLOPENTADIENE	11.49	12.93	12.80	12.08	11.79	13.63	13.38	12.81	13.10	12.71537	5.56
1,4-DICHLOROBENZENE	2.138	2.135	1.960	2.047	1.953	1.973	1.962	1.892	1.936	1.994945	3.95
1,2,3-TRIMETHYLBENZENE	4.682	4.653	4.118	4.117	4.164	4.279	4.239	4.053	4.124	4.247766	5.09
1,2-DICHLOROBENZENE	1.612	1.915	1.772	1.742	1.761	1.824	1.797	1.717	1.748	1.764726	4.20
n-Butylbenzene	4.016	4.335	4.190	3.625	3.512	4.178	4.209	3.969	3.945	3.945096	6.98
1,2-Dibromo-3-chloropropane	0.098	0.162	0.154	0.118	0.122	0.127	0.130	0.122	0.125	0.129396	13.33
1,2,4-Trichlorobenzene			1.266	1.046	0.900	1.078	1.085	1.009	1.012	1.030736	10.64

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS20
Method Name : V820K13O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
HEXACHLORO-1,3-BUTADIENE	0.545	0.538	0.581	0.482	0.414	0.566	0.549	0.515	0.508	0.508243	10.80
Naphthalene			2.594	2.281	2.115	2.499	2.508	2.361	2.359	2.384858	6.41
1,2,3-Trichlorobenzene		1.236	1.067	0.809	0.778	0.953	0.960	0.891	0.886	0.924505	15.23
1-Methylnaphthalene			1.553	1.154	0.988	1.286	1.291	1.228	1.209	1.218741	13.83
2-Methylnaphthalene			1.253	0.959	0.812	1.089	1.075	1.005	0.989	1.002299	14.04
ETHANOL										0.007582	10.36
Bromoethane										0.797891	3.27
2-PROPANOL										0.000000	0.00
Methyl Acetate										0.489738	4.82
ACETONITRILE										0.077414	5.66
ALLYL CHLORIDE										0.496064	4.16
tert-BUTYL ALCOHOL										0.143751	6.13
chloroprene										1.555979	3.49
ETHYL TERT-BUTYL ETHER										2.957027	5.58
PROPIONITRILE										0.093845	4.16
Ethyl Acetate										0.639446	5.01
METHACRYLONITRILE										0.296057	3.58
Cyclohexane										1.999786	4.08
tert-butyl formate										0.018890	12.26
ISOBUTANOL										0.237663	3.88
t-Amyl Alcohol										0.043797	10.73
TERT-AMYL METHYL ETHER										3.105507	3.25
N-BUTANOL										0.009096	5.62
Methyl Cyclohexane										1.270618	15.33
2-nitropropane										0.091660	3.25
METHYL METHACRYLATE										0.354996	3.71
1,4-DIOXANE										0.003521	10.05
n-octane										0.529047	16.14
3,3-DIMETHYL-1-BUTANOL										0.020059	13.13

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Quality Control Summary
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URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS20
Method Name : V820K13O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
ETHYL METHACRYLATE										2.691251	2.86
CIS-1,4-DICHLORO-2-BUTENE										0.688968	5.30
Cyclohexanone										0.311234	7.75
PENTACHLOROETHANE										1.247728	4.60
Hexachloroethane										1.611887	4.41

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS35
Method Name : V835J21O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
TPH (GC/MS) LOW FRACTION										0.000000	0.00
PROPENE			0.279	0.250	0.229	0.189	0.166	0.169	0.151	0.193021	24.88
DICHLORODIFLUOROMETHANE	0.797	0.589	0.643	0.578	0.763	0.688	0.680	0.680	0.635	0.668234	9.84
CHLOROMETHANE		1.278	1.067	1.016	1.019	0.957	0.901	0.914	0.874	0.979677	12.70
VINYL CHLORIDE	0.954	1.030	1.023	0.988	1.050	0.997	0.952	0.957	0.907	0.971356	5.15
1,3-BUTADIENE			1.201	1.050	1.021	0.950	0.871	0.857	0.819	0.932018	14.50
BROMOMETHANE	0.582	0.654	0.587	0.663	0.645	0.617	0.589	0.600	0.576	0.609138	5.21
CHLOROETHANE	0.687	0.718	0.702	0.625	0.662	0.632	0.611	0.615	0.593	0.641442	6.79
TRICHLOROFLUOROMETHANE	1.522	1.498	1.252	1.246	1.309	1.250	1.212	1.206	1.164	1.273395	9.82
DICHLOROFLUOROMETHANE	1.318	1.589	1.651	1.625	1.697	1.655	1.579	1.572	1.508	1.567623	6.53
ETHYL ETHER	0.926	0.917	0.797	0.766	0.798	0.758	0.739	0.741	0.734	0.783644	9.32
ACROLEIN					0.023	0.015	0.014	0.013	0.012	0.014412	28.83
1,1-DICHLOROETHENE	1.339	1.552	1.364	1.370	1.417	1.338	1.269	1.256	1.238	1.326210	7.77
1,1,2-TRICHLOROTRIFLUOROETHANE	0.594	0.776	0.594	0.616	0.667	0.689	0.597	0.598	0.604	0.631868	9.62
ACETONE	0.568	0.384	0.317	0.281	0.320	0.206	0.199	0.225	0.224	0.287611	38.38
IODOMETHANE	0.861	0.980	0.939	0.971	1.003	0.984	0.958	0.974	0.957	0.967107	4.47
CARBON DISULFIDE	2.315	2.437	2.160	2.169	2.261	2.406	2.072	2.065	2.060	2.199222	6.73
METHYLENE CHLORIDE			0.903	0.790	0.754	0.734	0.695	0.692	0.671	0.734274	10.15
ACRYLONITRILE	0.266	0.280	0.267	0.261	0.350	0.247	0.239	0.251	0.258	0.264858	11.53
n-Hexane		0.773	0.662	0.667	0.686	0.629	0.624	0.605	0.608	0.649109	7.97
TRANS-1,2-DICHLOROETHENE	0.689	0.715	0.679	0.621	0.696	0.660	0.637	0.623	0.614	0.653754	5.44
METHYL TERT-BUTYL ETHER	2.060	2.201	2.064	2.184	2.246	2.090	2.018	2.059	2.051	2.094102	3.83
1,1-DICHLOROETHANE	1.321	1.453	1.378	1.402	1.415	1.390	1.356	1.334	1.301	1.363098	3.61
VINYL ACETATE	1.620	1.689	1.697	1.775	1.874	1.530	1.477	1.570	1.500	1.593110	9.81
DI-ISOPROPYL ETHER	2.924	3.044	2.948	2.916	2.903	2.921	2.855	2.844	2.800	2.890555	2.50
2,2-Dichloropropane	1.054	1.170	1.098	0.914	0.975	0.960	0.904	0.903	0.834	0.948677	12.46
CIS-1,2-DICHLOROETHENE	0.751	0.818	0.752	0.763	0.745	0.762	0.706	0.722	0.703	0.740099	4.80
2-BUTANONE (MEK)			0.407	0.395	0.491	0.336	0.320	0.339	0.346	0.367562	14.89

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS35
Method Name : V835J21O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
BROMOCHLOROMETHANE	0.401	0.443	0.437	0.433	0.437	0.411	0.412	0.412	0.404	0.419163	3.76
TETRAHYDROFURAN	0.360	0.382	0.375	0.341	0.377	0.240	0.230	0.244	0.257	0.299454	22.07
CHLOROFORM	1.246	1.451	1.334	1.349	1.348	1.357	1.294	1.289	1.254	1.316691	4.54
DIBROMOFLUOROMETHANE	0.618	0.626	0.621	0.622	0.626	0.622	0.619	0.626	0.605	0.618921	1.28
1,1,1-TRICHLOROETHANE	0.866	1.079	1.029	1.027	1.083	1.033	1.034	1.018	0.991	1.014628	5.69
CARBON TETRACHLORIDE			1.077	1.023	1.003	0.954	0.946	0.917	0.908	0.964343	6.07
1,1-Dichloropropene	0.809	0.972	0.915	0.908	0.963	0.897	0.894	0.872	0.859	0.894777	5.16
2,2,4-TRIMETHYLPENTANE	3.814	3.927	3.035	3.184	3.575	3.184	3.418	3.257	3.256	3.391044	8.16
HEPTANE	1.351	1.319	1.366	1.326	1.417	1.320	1.335	1.290	1.328	1.340449	2.55
BENZENE	2.962	3.002	2.829	2.676	2.761	2.717	2.622	2.604	2.561	2.722517	5.57
1,2-DICHLOROETHANE	1.064	1.135	1.163	1.162	1.186	1.134	1.116	1.117	1.124	1.133710	2.95
TRICHLOROETHENE	0.339	0.400	0.383	0.352	0.377	0.372	0.362	0.357	0.351	0.363777	4.83
1,2-DICHLOROPROPANE	0.294	0.340	0.307	0.313	0.323	0.315	0.306	0.309	0.302	0.310832	3.92
DIBROMOMETHANE	0.317	0.302	0.267	0.272	0.282	0.256	0.245	0.252	0.249	0.266454	9.39
BROMODICHLOROMETHANE	0.590	0.607	0.605	0.617	0.632	0.625	0.599	0.597	0.591	0.604113	2.50
a,a,a-Trifluorotoluene	0.541	0.538	0.536	0.528	0.529	0.527	0.518	0.516	0.489	0.516069	4.68
2-CHLOROETHYL VINYL ETHER	0.210	0.234	0.232	0.231	0.254	0.222	0.223	0.229	0.242	0.232010	5.01
CIS-1,3-DICHLOROPROPENE	0.612	0.709	0.697	0.699	0.709	0.698	0.676	0.684	0.685	0.684515	3.94
4-METHYL-2-PENTANONE (MIBK)	0.492	0.542	0.498	0.513	0.616	0.457	0.443	0.474	0.487	0.493223	10.24
TOLUENE-D8	1.241	1.234	1.239	1.218	1.221	1.225	1.203	1.208	1.171	1.204607	2.94
TOLUENE	1.739	1.693	1.573	1.553	1.600	1.553	1.513	1.515	1.508	1.570733	4.99
TRANS-1,3-DICHLOROPROPENE	0.649	0.641	0.646	0.630	0.670	0.633	0.635	0.647	0.669	0.650498	2.54
1,1,2-TRICHLOROETHANE	1.488	1.886	1.731	1.658	1.797	1.636	1.608	1.626	1.665	1.674924	6.21
TETRACHLOROETHENE	1.453	1.442	1.349	1.325	1.437	1.354	1.369	1.358	1.377	1.394149	3.45
1,3-Dichloropropane	3.089	3.231	3.274	3.158	3.372	3.091	3.087	3.136	3.180	3.180003	2.82
2-HEXANONE		1.112	1.035	1.026	1.190	0.843	0.807	0.826	0.863	0.933783	15.31
CHLORODIBROMOMETHANE	1.981	2.261	2.225	2.057	2.172	2.061	2.065	2.055	2.100	2.108057	3.95
1,2-DIBROMOETHANE	1.882	1.929	1.893	1.776	1.899	1.701	1.688	1.721	1.760	1.792784	5.03
CHLOROBENZENE	5.507	5.280	5.232	5.123	5.186	4.991	5.070	5.094	5.173	5.226284	3.37

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS35
Method Name : V835J21O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
1,1,1,2-TETRACHLOROETHANE	2.550	2.279	1.961	2.042	1.978	1.919	1.918	1.923	1.904	2.034874	9.90
ETHYLBENZENE	3.233	2.954	2.782	2.810	2.846	2.714	2.761	2.748	2.779	2.863581	5.31
M&P-XYLENE	3.713	3.637	3.340	3.405	3.482	3.403	3.400	3.417	3.443	3.492485	3.61
O-XYLENE	4.070	3.581	3.562	3.492	3.448	3.358	3.385	3.385	3.377	3.513384	5.76
STYRENE	5.675	5.990	5.914	6.014	5.819	5.789	5.825	5.824	5.851	5.894380	2.28
Bromoform	0.993	1.408	1.214	1.343	1.380	1.286	1.293	1.336	1.385	1.309445	9.18
Isopropylbenzene	8.448	9.416	8.997	9.005	9.608	9.004	9.195	9.191	9.114	9.156566	3.44
4-BROMOFLUOROBENZENE	2.848	2.832	2.802	2.757	2.741	2.719	2.755	2.770	2.743	2.766171	1.61
Bromobenzene	5.071	5.110	4.760	4.976	4.796	4.690	4.681	4.712	4.741	4.849580	3.27
1,1,2,2-TETRACHLOROETHANE	2.598	2.791	2.776	2.597	2.834	2.414	2.393	2.485	2.506	2.573009	6.25
1,2,3-TRICHLOROPROPANE			0.909	0.870	0.856	0.705	0.687	0.723	0.722	0.763658	11.50
TRANS-1,4-DICHLORO-2-BUTENE	0.955	0.924	1.027	1.083	1.114	0.839	0.861	0.847	0.906	0.940155	10.10
n-Propylbenzene	12.09	12.58	11.43	11.40	11.80	11.44	11.55	11.43	11.41	11.69557	3.16
4-ETHYLTOLUENE	9.96	10.12	9.18	9.20	9.50	9.22	9.40	9.27	9.27	9.45948	3.31
2-Chlorotoluene	2.138	2.194	2.221	2.122	2.178	2.103	2.144	2.155	2.165	2.181073	3.05
4-Chlorotoluene	8.304	7.579	7.202	7.292	7.367	7.295	7.278	7.240	7.115	7.390901	4.39
1,3,5-Trimethylbenzene	8.487	8.109	7.914	7.858	8.222	8.035	8.104	8.129	8.058	8.157918	2.65
tert-Butylbenzene	6.958	7.074	6.623	6.306	6.573	6.452	6.550	6.477	6.362	6.582146	3.61
1,2,4-Trimethylbenzene	8.330	8.701	8.252	8.108	8.319	8.235	8.167	8.222	7.984	8.246235	2.19
sec-Butylbenzene	10.19	10.49	9.94	10.41	10.73	10.35	10.50	10.31	10.18	10.33564	2.01
1,3-DICHLOROBENZENE	4.489	4.581	4.506	4.430	4.305	4.299	4.309	4.293	4.257	4.381422	2.44
p-Isopropyltoluene	9.756	9.100	8.474	8.212	8.702	8.562	8.673	8.553	8.453	8.730222	4.73
DICYCLOPENTADIENE	11.21	11.88	11.14	11.19	11.54	11.37	11.46	11.49	11.15	11.37733	1.96
1,4-DICHLOROBENZENE	2.055	1.851	1.702	1.673	1.628	1.665	1.591	1.603	1.618	1.698484	8.10
1,2,3-TRIMETHYLBENZENE	3.429	3.751	3.143	3.303	3.273	3.313	3.184	3.216	3.213	3.296510	5.14
1,2-DICHLOROBENZENE	1.483	1.586	1.543	1.580	1.547	1.547	1.469	1.494	1.491	1.517567	2.88
n-Butylbenzene	3.623	3.680	3.496	3.269	3.550	3.378	3.302	3.218	3.228	3.374048	5.43
1,2-Dibromo-3-chloropropane		0.178	0.194	0.187	0.237	0.175	0.164	0.170	0.173	0.179637	12.93
1,2,4-Trichlorobenzene	1.185	1.213	1.069	1.067	1.045	1.055	0.976	0.988	0.959	1.038324	9.14

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS35
Method Name : V835J21O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
HEXACHLORO-1,3-BUTADIENE	0.472	0.549	0.560	0.573	0.563	0.554	0.525	0.520	0.497	0.525338	7.06
Naphthalene				2.878	3.060	2.617	2.381	2.527	2.506	2.579180	10.35
1,2,3-Trichlorobenzene	1.195	1.068	0.980	1.040	1.012	0.985	0.898	0.926	0.890	0.971851	10.88
1-Methylnaphthalene		1.984	1.766	1.649	1.792	1.590	1.424	1.510	1.435	1.576888	14.34
2-Methylnaphthalene		1.585	1.401	1.424	1.560	1.325	1.186	1.256	1.189	1.303680	14.76
ETHANOL										0.000000	0.00
Bromoethane										0.621733	4.21
2-PROPANOL										0.055850	9.73
Methyl Acetate										0.584783	3.26
ACETONITRILE										0.089296	3.33
ALLYL CHLORIDE										0.362766	3.35
tert-BUTYL ALCOHOL										0.097106	7.73
chloroprene										1.343230	3.72
ETHYL TERT-BUTYL ETHER										2.678372	3.14
PROPIONITRILE										0.101837	3.40
Ethyl Acetate										0.747966	3.37
METHACRYLONITRILE										0.291872	2.87
Cyclohexane										1.970232	6.93
tert-butyl formate										0.801675	2.62
ISOBUTANOL										0.054186	5.89
t-Amyl Alcohol										0.071893	6.26
TERT-AMYL METHYL ETHER										2.946814	1.76
N-BUTANOL										0.013066	5.11
Methyl Cyclohexane										1.063826	22.61
2-nitropropane										0.160254	4.63
METHYL METHACRYLATE										0.456895	2.35
1,4-DIOXANE										0.003785	6.05
n-octane										0.350669	4.72
3,3-DIMETHYL-1-BUTANOL										0.059722	7.59

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS35
Method Name : V835J21O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
ETHYL METHACRYLATE										2.532618	2.91
CIS-1,4-DICHLORO-2-BUTENE										0.822878	2.93
Cyclohexanone										0.161726	11.16
PENTACHLOROETHANE										1.328916	6.27
Hexachloroethane										1.693786	2.76

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 60425210.23446543.00
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/13/2015
Instrument ID: VOCMS35

Method Name : V835J21O.M Date : 11/16/2015
FileName : 1116_34.D Time : 9:01 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Dichlorodifluoromethane	0.6682	0.6333	5.23	
Chloromethane	0.9797	0.8976	8.38	>0.1
Vinyl chloride	0.9714	0.8197	15.6	
Bromomethane	0.6091	0.5503	9.65	
Chloroethane	0.6414	0.5594	12.8	
Trichlorofluoromethane	1.2734	1.0828	15	
1,1-Dichloroethene	1.3262	1.0845	18.2	
Acetone	0.2876	0.2470	14.1	**
Carbon Disulfide	2.1992	2.1035	4.35	
Methylene Chloride	0.7343	0.7345	0.02	
trans-1,2-Dichloroethene	0.6538	0.6696	2.42	
Methyl tert-butyl ether	2.0941	1.8019	14	
1,1-Dichloroethane	1.3631	1.3134	3.64	>0.1
2,2-Dichloropropane	0.9487	0.7779	18	
cis-1,2-Dichloroethene	0.7401	0.7410	0.12	
2-Butanone (MEK)	0.3676	0.4037	9.83	
Bromochloromethane	0.4192	0.4193	0.03	
Chloroform	1.3167	1.2448	5.46	
1,1,1-Trichloroethane	1.0146	0.9703	4.37	
Carbon tetrachloride	0.9643	0.9021	6.45	
1,1-Dichloropropene	0.8948	0.9109	1.8	
Benzene	2.7225	2.7459	0.86	
1,2-Dichloroethane	1.1337	0.9153	19.3	
Trichloroethene	0.3638	0.3772	3.69	
1,2-Dichloropropane	0.3108	0.3100	0.26	
Dibromomethane	0.2665	0.2356	11.6	
Bromodichloromethane	0.6041	0.5536	8.36	
cis-1,3-Dichloropropene	0.6845	0.6782	0.93	
4-Methyl-2-pentanone (MIBK)	0.4932	0.3840	22.1	
Toluene	1.5707	1.6083	2.39	
trans-1,3-Dichloropropene	0.6505	0.6050	7	

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 60425210.23446543.00
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/13/2015
Instrument ID: VOCMS35

Method Name : V835J21O.M Date : 11/16/2015
FileName : 1116_34.D Time : 9:01 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
1,1,2-Trichloroethane	1.6749	1.8463	10.2	
Tetrachloroethene	1.3941	1.6159	15.9	
1,3-Dichloropropane	3.1800	3.5044	10.2	
2-Hexanone	0.9338	0.9646	3.3	
Chlorodibromomethane	2.1081	2.1675	2.82	
1,2-Dibromoethane	1.7928	1.8696	4.29	
Chlorobenzene	5.2263	5.8956	12.8	>0.3
1,1,1,2-Tetrachloroethane	2.0349	2.0677	1.61	
Ethylbenzene	2.8636	3.1738	10.8	
m&p-Xylene	3.4925	3.9070	11.9	
o-Xylene	3.5134	3.7889	7.84	
Styrene	5.8944	6.2858	6.64	
Bromoform	1.3094	1.2793	2.3	>0.1
Isopropylbenzene	9.1566	9.9982	9.19	
Bromobenzene	4.8496	4.8366	0.27	
1,1,2,2-Tetrachloroethane	2.5730	2.4982	2.91	>0.3
1,2,3-Trichloropropane	0.7637	0.6778	11.2	
n-Propylbenzene	11.6956	12.6582	8.23	
2-Chlorotoluene	2.1811	2.3520	7.83	
4-Chlorotoluene	7.3909	7.7969	5.49	
1,3,5-Trimethylbenzene	8.1579	8.4743	3.88	
tert-Butylbenzene	6.5821	6.9080	4.95	
1,2,4-Trimethylbenzene	8.2462	8.5295	3.44	
sec-Butylbenzene	10.3356	11.0616	7.02	
1,3-Dichlorobenzene	4.3814	4.5946	4.87	
p-Isopropyltoluene	8.7302	9.0603	3.78	
1,4-Dichlorobenzene	1.6985	1.8171	6.98	
1,2-Dichlorobenzene	1.5176	1.6845	11	
n-Butylbenzene	3.3740	3.6616	8.52	
1,2-Dibromo-3-Chloropropane	0.1796	0.1633	9.12	
1,2,4-Trichlorobenzene	1.0383	1.1293	8.76	

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L801109
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 60425210.23446543.00
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/13/2015
Instrument ID: VOCMS35

Method Name : V835J21O.M Date : 11/16/2015
FileName : 1116_34.D Time : 9:01 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D
Hexachloro-1,3-butadiene	0.5253	0.5976	13.8
Naphthalene	2.5792	2.6103	1.21
1,2,3-Trichlorobenzene	0.9719	1.0366	6.66

*** - calibrated by linear regression*

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Quality Control Summary
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Test: Volatile Organic Compounds by Method 8260B
Project No: 60425210.23446543.00
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/13/2015
Instrument ID: VOCMS20

Method Name : V820K13O.M Date : 11/23/2015
FileName : 1123_02.D Time : 11:23 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Chloromethane	1.1930	1.1035	7.5	>0.1
Vinyl chloride	1.2532	1.1806	5.79	
1,1-Dichloroethene	1.4566	1.3078	10.2	
1,1-Dichloroethane	1.7808	1.7226	3.27	>0.1
Chloroform	1.6293	1.6068	1.38	
1,2-Dichloropropane	0.3729	0.3727	0.05	
Toluene	2.1808	2.0733	4.93	
Chlorobenzene	6.8098	6.5164	4.31	>0.3
Ethylbenzene	3.8737	3.6080	6.86	
Bromoform	1.0122	1.0328	2.04	>0.1
1,1,2,2-Tetrachloroethane	2.3990	2.2394	6.65	>0.3

*** - calibrated by linear regression*

Raw Data

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS20
Computer Name : VOCCOMPAH

Released By : Glen Norton
Date Released : 2/2/2016 11:28:59 AM

Run ID : 112315
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1123_01	INSTBLK	V820K13O						1	1	11/23/15 1104	"water "
2	1123_01T	INSTBLK								1	11/23/15 1104	
3	1123_02	ICV VMS 25 PPB 15K19813	V820K13O						1	1	11/23/15 1123	"water"
3	1123_02-1	ICV VMS 25 PPB 15K19813	V820K13O						1	1	11/23/15 1123	"water"
4	1123_02T	ICV VMS 25 ppb 15K19813	V820K13O							1	11/23/15 1123	
5	1123_03	AP9CV 10A PPB 15H20824	V820K13O						1	1	11/23/15 1255	"water"
6	1123_04	LCS	V820K13O	WG831097	V8260/465	GW			1	1	11/23/15 1314	"water "
6	1123_04-2	LCS	V820K13O	WG831097	V8260	GW	URSTAZ		1	1	11/23/15 1314	"water "
7	1123_05	LCSD	V820K13O	WG831097	V8260/465	GW			1	1	11/23/15 1332	"water"
7	1123_05-2	LCSD	V820K13O	WG831097	V8260	GW	URSTAZ		1	1	11/23/15 1332	"water"
8	1123_06	LCS	V820K13O	WG831097	V8260/465	GW			1	1	11/23/15 1351	"water"
8	1123_06-2	LCS	V820K13O	WG831097	V8260	GW	URSTAZ		1	1	11/23/15 1351	"water"
9	1123_07	INSTBLK	V820K13O						1	1	11/23/15 1410	"water"
10	1123_08	BLANK	V820K13O	WG831097	V8260/465	GW			1	1	11/23/15 1428	"water"
10	1123_08-2	BLANK	V820K13O	WG831097	V8260	GW	URSTAZ		1	1	11/23/15 1428	"water"
11	1123_09	L801047-01	V820K13O	WG831097	V8260/465	GW	APEXPPMN	MN	20	20	11/23/15 1518	"water "
12	1123_10	L801003-01	V820K13O	WG830078	V8260OXY	GW	CTEHLRAR	IL	5000	5000	11/23/15 1537	"water "
13	1123_11	MS	V820K13O	WG830078	V624	WW			5000	5000	11/23/15 1556	"water "
13	1123_11-2	MS	V820K13O	WG830078	V8260	GW	MACTECLEX		5000	5000	11/23/15 1556	"water "
14	1123_12	MSD	V820K13O	WG830078	V624	WW			5000	5000	11/23/15 1624	"water "
14	1123_12-2	MSD	V820K13O	WG830078	V8260	GW	MACTECLEX		5000	5000	11/23/15 1624	"water "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS20
Computer Name : VOCCOMPAH

Released By : Glen Norton
Date Released : 2/2/2016 11:28:59 AM

Run ID : 112315
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
15	1123_13	MS	V820K13O	WG831097	V8260/465	GW			1	1	11/23/15 1659	"water "
15	1123_13-2	MS	V820K13O	WG831097	V8260	GW	URSTAZ		1	1	11/23/15 1659	"water "
16	1123_14	MSD	V820K13O	WG831097	V8260/465	GW			1	1	11/23/15 1718	"water "
16	1123_14-2	MSD	V820K13O	WG831097	V8260	GW	URSTAZ		1	1	11/23/15 1718	"water "
17	1123_15	INSTBLK	V820K13O						1	1	11/23/15 1736	"water "
18	1123_16	L801106-10	V820K13O	WG831097	V8260	GW	URSTAZ	NM	1	1	11/23/15 1756	"water "
19	1123_17	L801106-11	V820K13O	WG831097	V8260	GW	URSTAZ	NM	1	1	11/23/15 1815	"water "
20	1123_18	L801106-12	V820K13O	WG831097	V8260	GW	URSTAZ	NM	1	1	11/23/15 1834	"water "
21	1123_19	L800817-08	V820K13O	WG831097	V8260	GW	URSTAZ	NM	1	1	11/23/15 1853	"water "
22	1123_20	L800555-01	V820K13O	WG831097	V8260BTEXMN	GW	DELTAUT	WY	1	1	11/23/15 1912	"water "
23	1123_21	L801101-01	V820K13O	WG831097	V8260	GW	URSTAZ	NM	1	1	11/23/15 1931	"water "
24	1123_22	L801101-03	V820K13O	WG831097	V8260	GW	URSTAZ	NM	1	1	11/23/15 1949	"water "
25	1123_23	L801101-05	V820K13O	WG831097	V8260	GW	URSTAZ	NM	1	1	11/23/15 2008	"water "
26	1123_24	L801101-07	V820K13O	WG831097	V8260	GW	URSTAZ	NM	1	1	11/23/15 2027	"water "
27	1123_25	L801101-09	V820K13O	WG831097	V8260	GW	URSTAZ	NM	1	1	11/23/15 2046	"water "
28	1123_26	L801106-04	V820K13O	WG831097	V8260	GW	URSTAZ	NM	1	1	11/23/15 2105	"water "
29	1123_27	L801106-05	V820K13O	WG831097	V8260	GW	URSTAZ	NM	1	1	11/23/15 2124	"water "
30	1123_28	L801106-06	V820K13O	WG831097	V8260	GW	URSTAZ	NM	1	1	11/23/15 2143	"water "
31	1123_29	L801106-07	V820K13O	WG831097	V8260	GW	URSTAZ	NM	1	1	11/23/15 2209	"water "
32	1123_30	L801109-01	V820K13O	WG831097	V8260	GW	URSTAZ	NM	1	1	11/23/15 2227	"water "
33	1123_31	L801109-02	V820K13O	WG831097	V8260	GW	URSTAZ	NM	1	1	11/23/15 2246	"water "
34	1123_32	DNR L800982-19	V820K13O	WG831097					50	50	11/23/15 2305	"water "

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 02.D
Acq On : 23 Nov 2015 11:23 am
Operator : 522
Sample : ICV VMS 25 ppb 15K19813
Misc : water
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 12:18:00 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.332	168	319090	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	610285	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.824	79	112949	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	292924	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.332	168	319090	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	610285	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.824	79	112949	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	292924	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.097	111	171137	37.3421258	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 93.36%				
46) a,a,a-Trifluorotoluene	5.023	146	335970	40.7869452	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.97%				
50) TOLUENE-D8	5.486	98	795727	39.5834021	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 98.96%				
68) 4-BROMOFLUOROBENZENE	7.364	95	327237	39.7422571	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 99.36%				
Target Compounds							Qvalue
3) PROPENE	1.673	41	14632	10.0874474	ppb		95
4) DICHLORODIFLUOROMETHANE	1.730	85	151404	22.4024748	ppb		98
5) CHLOROMETHANE	1.882	50	220075	23.1251785	ppb		98
6) VINYL CHLORIDE	1.959	62	235456	23.5524950	ppb		100
7) 1,3-BUTADIENE	1.965	39	131003	21.1561908	ppb		95
8) BROMOMETHANE	2.216	94	150870	24.2701501	ppb		99
9) CHLOROETHANE	2.309	64	155895	23.3478195	ppb		98
10) TRICHLOROFLUOROMETHANE	2.399	101	236475	23.1646748	ppb		99
11) DICHLOROFLUOROMETHANE	2.435	67	360682	24.8313292	ppb		99
12) ETHYL ETHER	2.589	59	164166	23.5757342	ppb		95
13) ACROLEIN	2.952	56	114945	127.6488507	ppb		99
14) 1,1-DICHLOROETHENE	2.737	61	260813	22.4461804	ppb		99
15) 1,1,2-TRICHLOROTRIFLUO...	2.756	101	146870	22.6680970	ppb		99
16) ACETONE	3.119	43	329905	107.0473667	ppb		98
17) IODOMETHANE	2.843	142	1151440	119.0429840	ppb		99
18) CARBON DISULFIDE	2.772	76	534133	21.8980412	ppb		99
19) METHYLENE CHLORIDE	3.097	84	190433	23.7299656	ppb		98
20) ACRYLONITRILE	3.582	53	248333	127.1883184	ppb		98
21) n-Hexane	3.213	56	157409	20.6376492	ppb		89
22) TRANS-1,2-DICHLOROETHENE	3.190	96	170992	23.2237853	ppb		98
23) METHYL TERT-BUTYL ETHER	3.235	73	482742	24.9096878	ppb	#	6
24) 1,1-DICHLOROETHANE	3.547	63	343535	24.1832615	ppb		100
25) VINYL ACETATE	3.660	43	663643	53.2579462	ppb		100
26) DI-ISOPROPYL ETHER	3.431	45	656231	24.7270931	ppb		99
27) 2,2-Dichloropropane	3.914	77	214851	20.2816028	ppb		100
28) CIS-1,2-DICHLOROETHENE	3.853	96	194909	24.0432770	ppb		99
29) 2-BUTANONE (MEK)	4.158	43	374680	110.1625888	ppb		98
30) BROMOCHLOROMETHANE	3.968	130	98634	24.7426054	ppb		98
31) TETRAHYDROFURAN	4.094	42	41916	23.8791388	ppb		96
32) CHLOROFORM	3.991	83	320455	24.6553942	ppb		100
34) 1,1,1-TRICHLOROETHANE	4.123	97	238426	24.2149357	ppb		99
35) CARBON TETRACHLORIDE	4.084	119	180467	23.8842419	ppb		100
36) 1,1-Dichloropropene	4.187	75	227153	22.7619593	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 02.D
Acq On : 23 Nov 2015 11:23 am
Operator : 522
Sample : ICV VMS 25 ppb 15K19813
Misc : water
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 12:18:00 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.219	57	724600	22.7937704 ppb		100
38)	HEPTANE	4.258	43	286130	20.0145166 ppb	#	68
39)	BENZENE	4.332	78	777990	23.9600292 ppb		100
40)	1,2-DICHLOROETHANE	4.451	62	243219	24.7171876 ppb		99
42)	TRICHLOROETHENE	4.656	130	170627	25.5847580 ppb		99
43)	1,2-DICHLOROPROPANE	4.971	62	142176	24.9874616 ppb		99
44)	DIBROMOMETHANE	4.920	93	94406	25.2203736 ppb		99
45)	BROMODICHLOROMETHANE	4.997	83	243735	25.1312694 ppb		98
47)	2-CHLOROETHYL VINYL ETHER	5.306	63	341913	130.0823786 ppb		100
48)	CIS-1,3-DICHLOROPROPENE	5.373	75	283511	23.4379522 ppb		100
49)	4-METHYL-2-PENTANONE (...	5.734	43	670495	127.1068222 ppb		100
51)	TOLUENE	5.518	91	790801	23.7676698 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.775	75	242626	23.3415493 ppb		98
54)	1,1,2-TRICHLOROETHANE	5.885	97	139564	24.8464888 ppb		99
55)	TETRACHLOROETHENE	5.769	164	107751	22.1778975 ppb		99
56)	1,3-Dichloropropane	6.071	76	269345	24.7762114 ppb		99
57)	2-HEXANONE	6.277	58	297216	108.6806256 ppb		99
58)	CHLORODIBROMOMETHANE	6.013	129	141801	25.5441919 ppb		99
59)	1,2-DIBROMOETHANE	6.190	107	132499	25.5842025 ppb		98
60)	CHLOROBENZENE	6.524	112	460016	23.9229329 ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.557	133	144345	24.8911331 ppb		99
62)	ETHYLBENZENE	6.515	106	254700	23.2852612 ppb		99
63)	M&P-XYLENE	6.611	106	626687	45.9181749 ppb		100
64)	O-XYLENE	6.920	106	310340	23.9609634 ppb		98
65)	STYRENE	6.959	104	517456	24.3727282 ppb		98
66)	Bromoform	7.004	173	72912	25.5091580 ppb		98
67)	Isopropylbenzene	7.132	105	788327	23.6970600 ppb		99
69)	Bromobenzene	7.450	77	385995	23.7819305 ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	7.496	83	158086	23.3364114 ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.614	110	45847	24.8783573 ppb		99
72)	TRANS-1,4-DICHLORO-2-B...	7.627	53	38747	19.7822635 ppb		94
73)	n-Propylbenzene	7.434	91	932600	22.2537091 ppb		100
74)	4-ETHYLTOLUENE	7.512	105	745346	21.9610885 ppb		100
75)	2-Chlorotoluene	7.576	126	175584	22.7567199 ppb		96
76)	4-Chlorotoluene	7.698	91	567111	22.0791085 ppb		100
77)	1,3,5-Trimethylbenzene	7.569	105	655640	23.4780459 ppb		99
78)	tert-Butylbenzene	7.817	119	538993	24.3666740 ppb		100
79)	1,2,4-Trimethylbenzene	7.872	105	642680	23.1055412 ppb		100
80)	sec-Butylbenzene	7.952	105	825268	23.5281749 ppb		99
81)	1,3-DICHLOROBENZENE	8.151	146	308944	22.4940736 ppb		97
82)	p-Isopropyltoluene	8.052	119	643679	22.8860653 ppb		99
83)	DICYCLOPENTADIENE	8.061	66	864938	24.0898131 ppb		100
85)	1,4-DICHLOROBENZENE	8.219	146	303372	20.7658459 ppb		88
86)	1,2,3-TRIMETHYLBENZENE	8.216	105	695224	22.3495729 ppb		99
87)	1,2-DICHLOROBENZENE	8.553	146	292845	22.6602958 ppb		98
88)	n-Butylbenzene	8.386	91	572109	19.8027853 ppb		100
89)	1,2-Dibromo-3-chloropr...	9.196	157	22020	23.2380738 ppb		93
90)	1,2,4-Trichlorobenzene	9.740	180	140109	18.5619541 ppb		97
91)	HEXACHLORO-1,3-BUTADIENE	9.692	225	78749	21.1582117 ppb		100
92)	Naphthalene	10.013	128	423660	24.2582734 ppb		99
93)	1,2,3-Trichlorobenzene	10.167	180	141871	20.9550919 ppb		100
94)	1-Methylnaphthalene	10.881	142	191778	21.4878299 ppb		99
95)	2-Methylnaphthalene	11.013	142	174364	23.7555166 ppb		98
100)	Methyl Acetate	3.213	43	307223	78.6388347 ppb	#	68

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 02.D
Acq On : 23 Nov 2015 11:23 am
Operator : 522
Sample : ICV VMS 25 ppb 15K19813
Misc : water
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 12:18:00 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

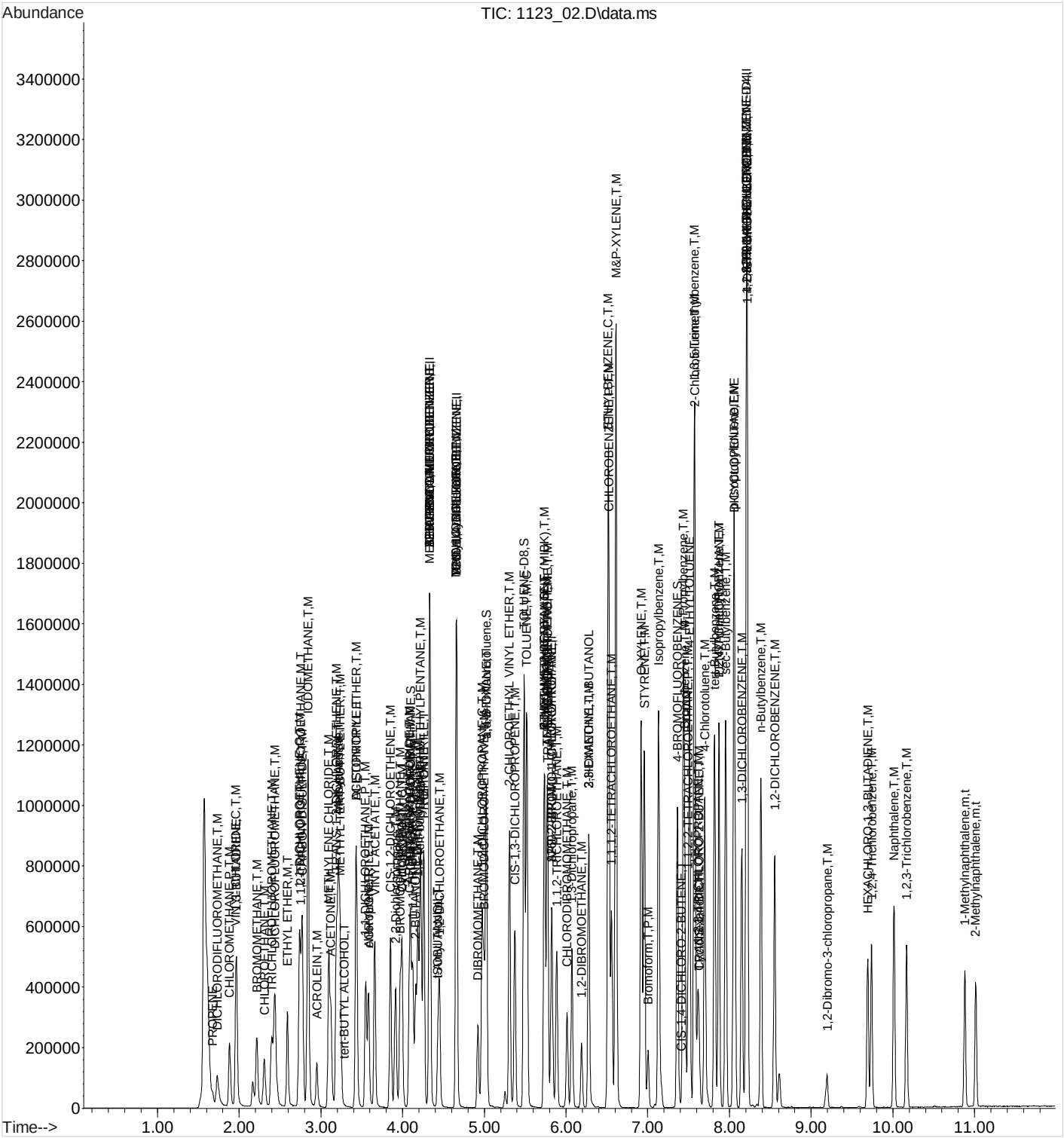
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
101) ACETONITRILE	3.431	41	104908	169.8778173 ppb #	37
103) tert-BUTYL ALCOHOL	3.283	59	1582	1.3795611 ppb #	64
104) chloroprene	3.582	53	248333	20.0067891 ppb #	27
106) PROPIONITRILE	4.261	54	2898	3.8711111 ppb #	1
108) METHACRYLONITRILE	4.328	67	1223	0.5178424 ppb #	1
109) Cyclohexane	3.991	84	12507	0.7840005 ppb #	3
110) tert-butyl formate	4.209	59	575	3.8158282 ppb #	1
111) ISOBUTANOL	4.431	41	70600	37.2383346 ppb #	82
112) t-Amyl Alcohol	4.431	59	6675	19.1053337 ppb #	35
113) TERT-AMYL METHYL ETHER	4.332	73	13370	0.5396917 ppb #	88
116) Methyl Cyclohexane	4.656	83	11298	0.5827925 ppb #	49
117) 2-nitropropane	5.734	43	670495	479.4494542 ppb #	40
119) 1,4-DIOXANE	5.023	88	4638	86.3324972 ppb #	22
120) n-octane	5.370	85	4216	Below Cal #	32
121) 3,3-DIMETHYL-1-BUTANOL	6.277	57	104137	340.2711835 ppb #	32
123) ETHYL METHACRYLATE	5.737	69	5021	0.6607142 ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.409	53	1618	0.8316810 ppb #	12
125) Cyclohexanone	7.627	55	919	1.0456981 ppb #	1
126) PENTACHLOROETHANE	7.872	117	21488	6.0989297 ppb #	14

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 02.D
Acq On : 23 Nov 2015 11:23 am
Operator : 522
Sample : ICV VMS 25 ppb 15K19813
Misc : water
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

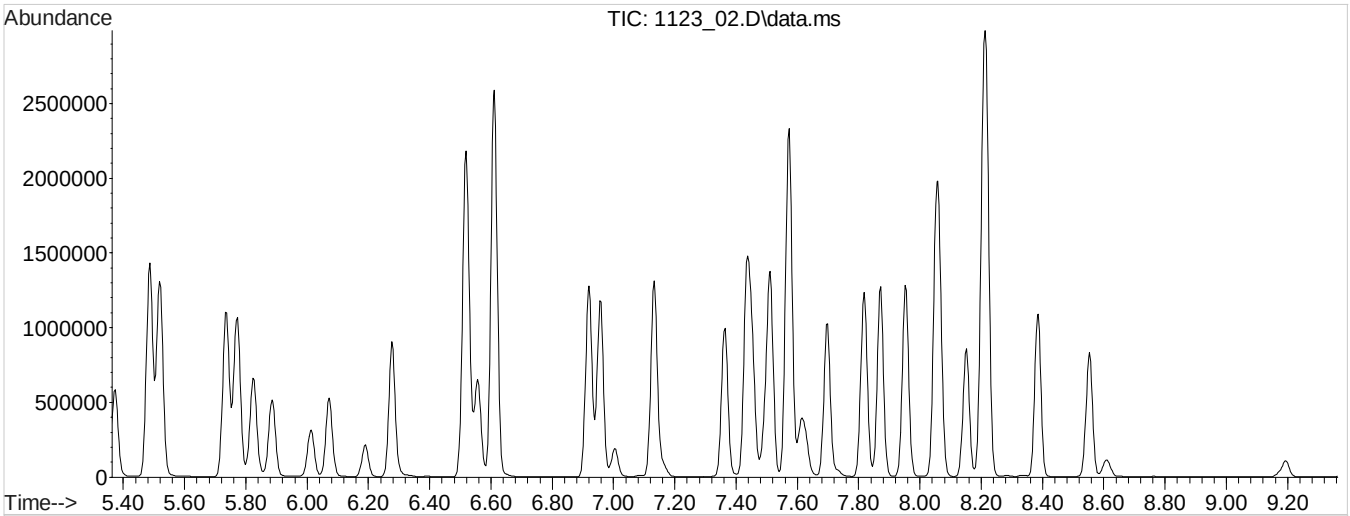
Quant Time: Nov 23 12:18:00 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

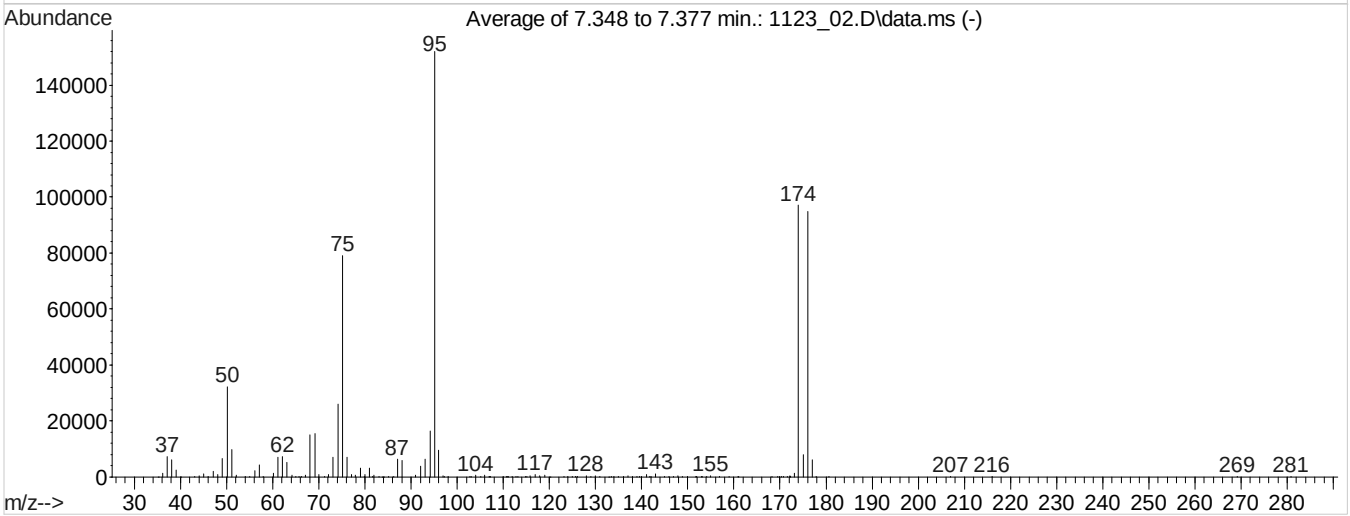


Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 02.D
Acq On : 23 Nov 2015 11:23 am
Operator : 522
Sample : ICV VMS 25 ppb 15K19813
Misc : water
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDchem\1\methods\V820K13O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
Last Update : Mon Nov 16 11:11:37 2015





Spectrum Information: Average of 7.348 to 7.377 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.1	32046	PASS
75	95	30	60	52.0	79086	PASS
95	95	100	100	100.0	152103	PASS
96	95	5	9	6.3	9596	PASS
173	174	0.00	2	1.2	1187	PASS
174	95	50	150	63.8	97044	PASS
175	174	5	9	8.1	7814	PASS
176	174	95	101	97.8	94927	PASS
177	176	5	9	6.5	6153	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 03.D
Acq On : 23 Nov 2015 12:55 pm
Operator : 522
Sample : AP9CV 10a ppb 15H20824
Misc : water
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 20:39:33 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.329	168	320327	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	621167	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.824	79	112643	40.0000000 ppb	# 0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	282242	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.329	168	320327	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	621167	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.824	79	112643	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	282242	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.097	111	169226	36.7825522 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 91.96%		
46) a,a,a-Trifluorotoluene	5.023	146	335320	39.9948855 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 99.99%		
50) TOLUENE-D8	5.486	98	815947	39.8781768 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 99.70%		
68) 4-BROMOFLUOROBENZENE	7.364	95	321132	39.1067651 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 97.77%		
Target Compounds					Qvalue
3) PROPENE	1.676	41	645	0.4429523 ppb #	16
7) 1,3-BUTADIENE	1.959	39	3807	0.6124332 ppb	92
13) ACROLEIN	2.956	56	658	0.7279011 ppb #	14
16) ACETONE	3.120	43	6617	2.1387887 ppb #	88
19) METHYLENE CHLORIDE	3.097	84	11480	1.4250052 ppb	100
20) ACRYLONITRILE	3.528	53	575186	293.4544806 ppb #	50
21) n-Hexane	3.213	56	3973	0.5188823 ppb #	1
24) 1,1-DICHLOROETHANE	3.528	63	8759	0.6142117 ppb #	44
25) VINYL ACETATE	3.637	43	24072	1.9243396 ppb #	74
29) 2-BUTANONE (MEK)	4.158	43	6074	1.7789677 ppb	93
31) TETRAHYDROFURAN	4.094	42	856	0.4857717 ppb #	31
32) CHLOROFORM	3.968	83	8463	0.6486178 ppb #	53
42) TRICHLOROETHENE	4.656	130	4864	0.7165582 ppb #	68
43) 1,2-DICHLOROPROPANE	5.026	62	7383	1.2748322 ppb #	38
44) DIBROMOMETHANE	5.023	93	1486	0.3900273 ppb #	1
49) 4-METHYL-2-PENTANONE (...	5.734	43	5146	0.9584455 ppb #	84
51) TOLUENE	5.521	91	12880	0.3803291 ppb	96
55) TETRACHLOROETHENE	5.769	164	146596	30.2551538 ppb	100
57) 2-HEXANONE	6.277	58	5937	2.1768333 ppb	95
61) 1,1,1,2-TETRACHLOROETHANE	6.563	133	2885	0.4988465 ppb #	94
63) M&P-XYLENE	6.611	106	5086	0.3736702 ppb	93
72) TRANS-1,4-DICHLORO-2-B...	7.627	53	2849	1.4585070 ppb #	86
90) 1,2,4-Trichlorobenzene	9.740	180	2228	0.3063417 ppb	94
92) Naphthalene	10.016	128	18681	1.1101352 ppb	99
93) 1,2,3-Trichlorobenzene	10.171	180	3342	0.5123134 ppb	96
94) 1-Methylnaphthalene	10.881	142	12381	1.4397358 ppb	96
95) 2-Methylnaphthalene	11.013	142	10747	1.5195963 ppb	91
97) ETHANOL	2.682	45	60878	1002.6909751 ppb #	89
98) Bromoethane	2.907	108	56550	8.8502460 ppb	97
100) Methyl Acetate	3.177	43	759299	193.6046658 ppb #	100
101) ACETONITRILE	3.409	41	300998	485.5246927 ppb	98
102) ALLYL CHLORIDE	3.030	76	178797	45.0079063 ppb	100
103) tert-BUTYL ALCOHOL	3.274	59	59357	51.5615604 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 03.D
Acq On : 23 Nov 2015 12:55 pm
Operator : 522
Sample : AP9CV 10a ppb 15H20824
Misc : water
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 20:39:33 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

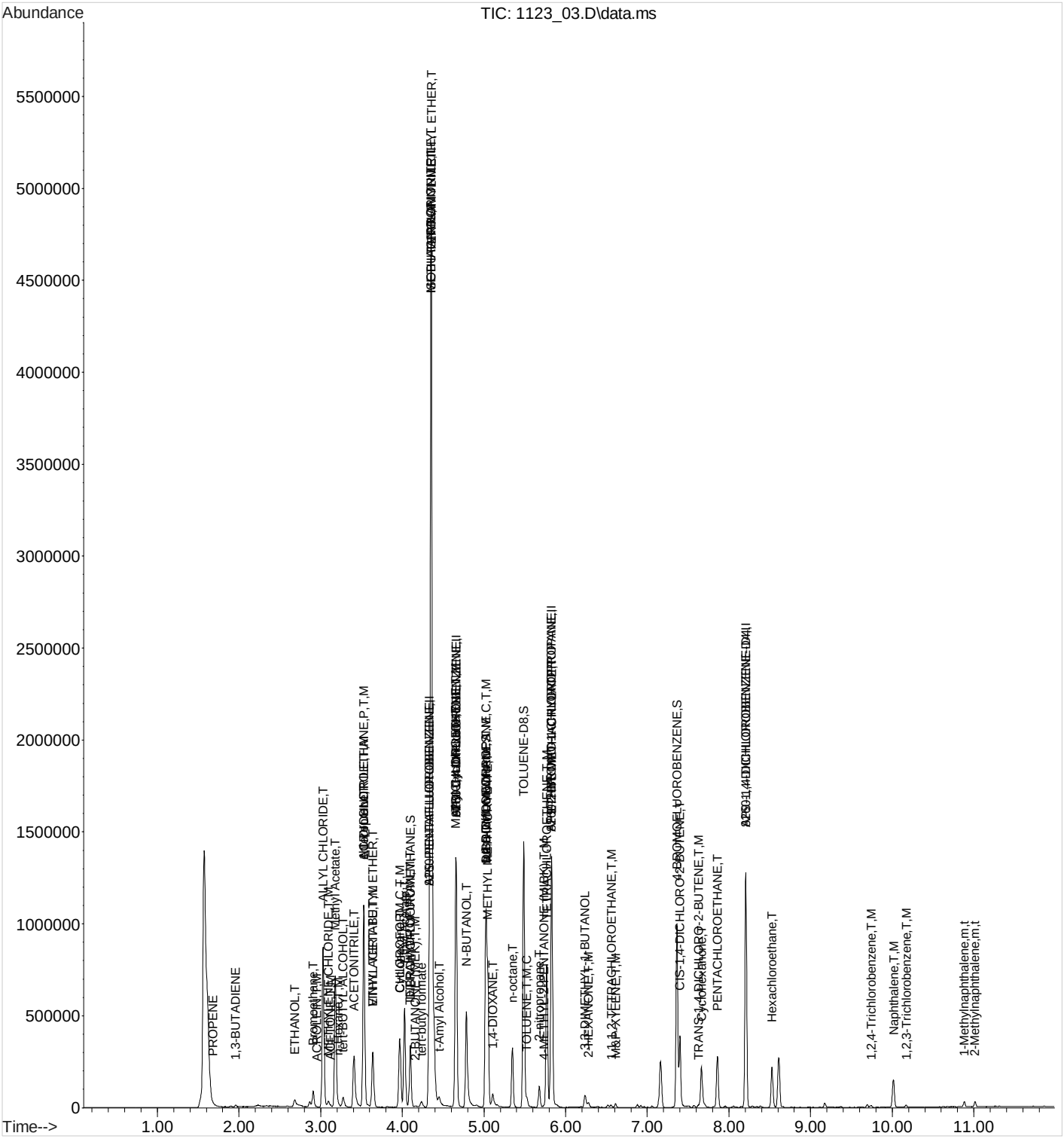
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
104)	chloroprene	3.528	53	575186	46.1605434	ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.637	59	233572	9.8635203	ppb		98
106)	PROPIONITRILE	4.348	54	372004	494.9992202	ppb		98
107)	Ethyl Acetate	4.026	43	503540	98.3323310	ppb		100
108)	METHACRYLONITRILE	4.354	67	1195046	504.0520508	ppb		98
109)	Cyclohexane	3.968	84	134933	8.4256037	ppb		99
110)	tert-butyl formate	4.235	59	11225	74.2039408	ppb		84
111)	ISOBUTANOL	4.354	41	1895473	995.9162049	ppb	#	99
112)	t-Amyl Alcohol	4.451	59	17137	48.8604882	ppb		96
113)	TERT-AMYL METHYL ETHER	4.357	73	247016	9.9325104	ppb		98
115)	N-BUTANOL	4.785	56	292571	2071.2040633	ppb		99
116)	Methyl Cyclohexane	4.653	83	159184	8.0674476	ppb		98
117)	2-nitropropane	5.676	43	69648	48.9305678	ppb		98
118)	METHYL METHACRYLATE	5.046	41	268997	48.7950353	ppb		99
119)	1,4-DIOXANE	5.107	88	50347	920.7494689	ppb		95
120)	n-octane	5.348	85	55324	7.0917350	ppb		97
121)	3,3-DIMETHYL-1-BUTANOL	6.238	57	32897	105.6089499	ppb	#	80
123)	ETHYL METHACRYLATE	5.830	69	360224	47.5307018	ppb		98
124)	CIS-1,4-DICHLORO-2-BUTENE	7.399	53	81384	41.9464752	ppb		98
125)	Cyclohexanone	7.663	55	91131	103.9764793	ppb		99
126)	PENTACHLOROETHANE	7.859	117	47956	13.6483064	ppb		100
127)	Hexachloroethane	8.528	117	43306	9.5404572	ppb		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 03.D
Acq On : 23 Nov 2015 12:55 pm
Operator : 522
Sample : AP9CV 10a ppb 15H20824
Misc : water
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 20:39:33 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 04.D
Acq On : 23 Nov 2015 1:14 pm
Operator : 522
Sample : LCS 1x WG831097
Misc : water
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 14:57:26 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.332	168	318623	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.659	114	614878	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	115218	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	288625	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.332	168	318623	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.659	114	614878	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	115218	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	288625	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.097	111	173990	38.0202950	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 95.05%			
46) a,a,a-Trifluorotoluene	5.026	146	338761	40.8185739	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.05%			
50) TOLUENE-D8	5.486	98	812663	40.1239104	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 100.31%			
68) 4-BROMOFLUOROBENZENE	7.364	95	328409	39.0991427	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 97.75%			
Target Compounds						Qvalue
3) PROPENE	1.669	41	13309	9.1888061	ppb	98
4) DICHLORODIFLUOROMETHANE	1.730	85	112532	16.6751887	ppb	100
5) CHLOROMETHANE	1.878	50	187269	19.7068108	ppb	99
6) VINYL CHLORIDE	1.955	62	208807	20.9174281	ppb	98
7) 1,3-BUTADIENE	1.965	39	124818	20.1868951	ppb	95
8) BROMOMETHANE	2.213	94	137212	22.1053674	ppb	99
9) CHLOROETHANE	2.306	64	143803	21.5684114	ppb	99
10) TRICHLOROFLUOROMETHANE	2.396	101	217720	21.3587273	ppb	98
11) DICHLOROFLUOROMETHANE	2.434	67	339352	23.3970974	ppb	98
12) ETHYL ETHER	2.589	59	162228	23.3315663	ppb	95
13) ACROLEIN	2.949	56	116505	129.5708954	ppb	98
14) 1,1-DICHLOROETHENE	2.734	61	255800	22.0470164	ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.756	101	143758	22.2203073	ppb	98
16) ACETONE	3.119	43	330110	107.2708798	ppb	98
17) IODOMETHANE	2.840	142	1126072	116.5909185	ppb	99
18) CARBON DISULFIDE	2.772	76	506317	20.7880829	ppb	98
19) METHYLENE CHLORIDE	3.097	84	187063	23.3441930	ppb	98
20) ACRYLONITRILE	3.582	53	235715	120.9027230	ppb	100
21) n-Hexane	3.213	56	152145	19.9767310	ppb	89
22) TRANS-1,2-DICHLOROETHENE	3.187	96	166707	22.6749910	ppb	98
23) METHYL TERT-BUTYL ETHER	3.232	73	471938	24.3878895	ppb	90
24) 1,1-DICHLOROETHANE	3.547	63	344317	24.2738363	ppb	100
25) VINYL ACETATE	3.660	43	289950	23.3028522	ppb	99
26) DI-ISOPROPYL ETHER	3.431	45	652090	24.6070717	ppb	100
27) 2,2-Dichloropropane	3.914	77	209949	19.8479097	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.852	96	191976	23.7161822	ppb	99
29) 2-BUTANONE (MEK)	4.158	43	359079	105.7303574	ppb	99
30) BROMOCHLOROMETHANE	3.968	130	98270	24.6874260	ppb	96
31) TETRAHYDROFURAN	4.094	42	38782	22.1261117	ppb	98
32) CHLOROFORM	3.991	83	317083	24.4317136	ppb	99
34) 1,1,1-TRICHLOROETHANE	4.123	97	235739	23.9771310	ppb	99
35) CARBON TETRACHLORIDE	4.084	119	175664	23.2826550	ppb	98
36) 1,1-Dichloropropene	4.187	75	220093	22.0868340	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 04.D
Acq On : 23 Nov 2015 1:14 pm
Operator : 522
Sample : LCS 1x WG831097
Misc : water
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 14:57:26 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.219	57	700284	22.0611484	ppb		100
38)	HEPTANE	4.258	43	272895	19.1167192	ppb	#	68
39)	BENZENE	4.332	78	759487	23.4244684	ppb		99
40)	1,2-DICHLOROETHANE	4.450	62	239834	24.4089096	ppb		99
42)	TRICHLOROETHENE	4.656	130	181640	27.0326607	ppb		98
43)	1,2-DICHLOROPROPANE	4.975	62	141237	24.6370141	ppb		99
44)	DIBROMOMETHANE	4.920	93	92900	24.6326635	ppb		99
45)	BROMODICHLOROMETHANE	4.997	83	242815	24.8493928	ppb		98
47)	2-CHLOROETHYL VINYL ETHER	5.309	63	324613	122.5779928	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.373	75	282490	23.1791001	ppb		99
49)	4-METHYL-2-PENTANONE (...	5.737	43	635588	119.5894167	ppb		99
51)	TOLUENE	5.521	91	778019	23.2088349	ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.775	75	239132	22.8335679	ppb		98
54)	1,1,2-TRICHLOROETHANE	5.888	97	139643	24.3709717	ppb		98
55)	TETRACHLOROETHENE	5.769	164	104793	21.1443040	ppb		99
56)	1,3-Dichloropropane	6.074	76	269703	24.3205737	ppb		98
57)	2-HEXANONE	6.277	58	268739	96.3324708	ppb		99
58)	CHLORODIBROMOMETHANE	6.013	129	138879	24.5251410	ppb		99
59)	1,2-DIBROMOETHANE	6.190	107	128299	24.2853637	ppb		96
60)	CHLOROBENZENE	6.524	112	453925	23.1412943	ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.560	133	143806	24.3098336	ppb		97
62)	ETHYLBENZENE	6.518	106	249064	22.3215930	ppb		99
63)	M&P-XYLENE	6.611	106	613569	44.0716591	ppb		100
64)	O-XYLENE	6.920	106	308600	23.3574000	ppb		100
65)	STYRENE	6.958	104	498943	23.0379436	ppb		99
66)	Bromoform	7.007	173	71009	24.3541270	ppb		98
67)	Isopropylbenzene	7.132	105	773489	22.7931457	ppb		99
69)	Bromobenzene	7.454	77	374004	22.5893498	ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.495	83	135371	19.5897258	ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.614	110	44776	23.8187041	ppb		99
72)	TRANS-1,4-DICHLORO-2-B...	7.630	53	36802	18.4192261	ppb		95
73)	n-Propylbenzene	7.434	91	892752	20.8833365	ppb		99
74)	4-ETHYLTOLUENE	7.511	105	718178	20.7438849	ppb		100
75)	2-Chlorotoluene	7.576	126	167205	21.2439878	ppb		99
76)	4-Chlorotoluene	7.698	91	556378	21.2346677	ppb		100
77)	1,3,5-Trimethylbenzene	7.569	105	639649	22.4543397	ppb		99
78)	tert-Butylbenzene	7.820	119	517651	22.9409946	ppb		99
79)	1,2,4-Trimethylbenzene	7.872	105	626634	22.0849985	ppb		100
80)	sec-Butylbenzene	7.952	105	798510	22.3169917	ppb		99
81)	1,3-DICHLOROBENZENE	8.151	146	297379	21.2256355	ppb		98
82)	p-Isopropyltoluene	8.055	119	607207	21.1641397	ppb		100
83)	DICYCLOPENTADIENE	8.065	66	831587	22.7048272	ppb		100
85)	1,4-DICHLOROBENZENE	8.219	146	296222	20.5784402	ppb		85
86)	1,2,3-TRIMETHYLBENZENE	8.216	105	678698	22.1432851	ppb		100
87)	1,2-DICHLOROBENZENE	8.553	146	284146	22.3146623	ppb		99
88)	n-Butylbenzene	8.386	91	548211	19.2582249	ppb		100
89)	1,2-Dibromo-3-chloropr...	9.196	157	21527	23.0561789	ppb		96
90)	1,2,4-Trichlorobenzene	9.740	180	136935	18.4116681	ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	9.695	225	72977	19.8994433	ppb		98
92)	Naphthalene	10.016	128	397724	23.1124101	ppb		99
93)	1,2,3-Trichlorobenzene	10.167	180	136908	20.5232330	ppb		99
94)	1-Methylnaphthalene	10.881	142	182152	20.7132728	ppb		98
95)	2-Methylnaphthalene	11.016	142	162586	22.4808026	ppb		98
100)	Methyl Acetate	3.213	43	298478	76.5123853	ppb	#	53

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 04.D
Acq On : 23 Nov 2015 1:14 pm
Operator : 522
Sample : LCS 1x WG831097
Misc : water
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 14:57:26 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

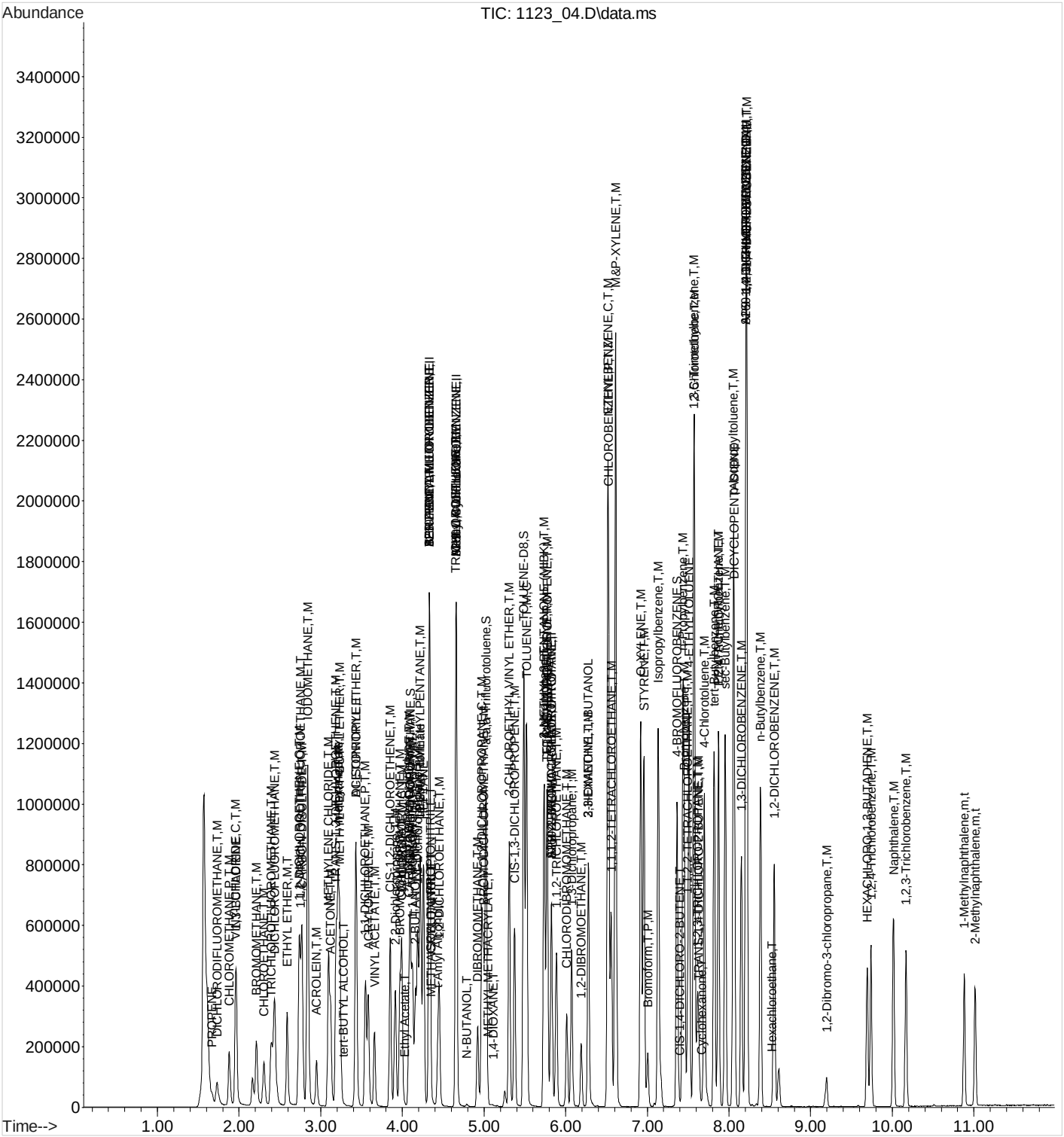
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
101) ACETONITRILE	3.431	41	108056	175.2318407 ppb #	40
103) tert-BUTYL ALCOHOL	3.280	59	2567	2.2417976 ppb #	64
106) PROPIONITRILE	4.348	54	4367	5.8419323 ppb #	1
107) Ethyl Acetate	4.029	43	4894	0.9608216 ppb #	86
108) METHACRYLONITRILE	4.354	67	6961	2.9517449 ppb #	43
109) Cyclohexane	3.994	84	12615	0.7919295 ppb #	3
110) tert-butyl formate	4.216	59	685	4.5524755 ppb #	1
111) ISOBUTANOL	4.351	41	8038	4.2458986 ppb #	90
112) t-Amyl Alcohol	4.434	59	5026	14.4066138 ppb #	36
113) TERT-AMYL METHYL ETHER	4.332	73	13347	0.5395529 ppb #	77
115) N-BUTANOL	4.788	56	3891	27.8273766 ppb #	82
116) Methyl Cyclohexane	4.659	83	11557	0.5916996 ppb #	52
117) 2-nitropropane	5.737	43	635588	451.0936517 ppb #	40
118) METHYL METHACRYLATE	5.049	41	1717	0.3146429 ppb #	14
119) 1,4-DIOXANE	5.113	88	1346	24.8675134 ppb #	64
120) n-octane	5.373	85	4340	Below Cal #	31
121) 3,3-DIMETHYL-1-BUTANOL	6.277	57	91780	297.6541238 ppb #	33
123) ETHYL METHACRYLATE	5.827	69	3136	0.4045400 ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.399	53	1771	0.8923986 ppb #	12
125) Cyclohexanone	7.666	55	5117	5.7077937 ppb #	88
126) PENTACHLOROETHANE	7.872	117	19831	5.5177790 ppb #	14
127) Hexachloroethane	8.527	117	1235	0.2659941 ppb #	66

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 04.D
Acq On : 23 Nov 2015 1:14 pm
Operator : 522
Sample : LCS 1x WG831097
Misc : water
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 14:57:26 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 05.D
Acq On : 23 Nov 2015 1:32 pm
Operator : 522
Sample : LCSD 1x WG831097
Misc : water
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 14:56:50 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.332	168	306046	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.663	114	598286	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	111099	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	285308	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.332	168	306046	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.663	114	598286	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	111099	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	285308	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.100	111	164663	37.4608505 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 93.65%		
46) a,a,a-Trifluorotoluene	5.026	146	330637	40.9445391 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.36%		
50) TOLUENE-D8	5.486	98	775521	39.3519667 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 98.38%		
68) 4-BROMOFLUOROBENZENE	7.364	95	317562	39.2094631 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.02%		
Target Compounds					Qvalue
3) PROPENE	1.673	41	13807	9.9243804 ppb	99
4) DICHLORODIFLUOROMETHANE	1.734	85	120825	18.6398296 ppb	100
5) CHLOROMETHANE	1.885	50	184922	20.2595340 ppb	99
6) VINYL CHLORIDE	1.959	62	213598	22.2766985 ppb	98
7) 1,3-BUTADIENE	1.968	39	125661	21.1584199 ppb	95
8) BROMOMETHANE	2.216	94	138876	23.2928837 ppb	99
9) CHLOROETHANE	2.309	64	142391	22.2342850 ppb	98
10) TRICHLOROFLUOROMETHANE	2.399	101	219688	22.4374654 ppb	98
11) DICHLOROFLUOROMETHANE	2.438	67	338014	24.2625628 ppb	99
12) ETHYL ETHER	2.592	59	156778	23.4743522 ppb	95
13) ACROLEIN	2.952	56	108587	125.7277505 ppb	98
14) 1,1-DICHLOROETHENE	2.737	61	253337	22.7320354 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	143669	23.1191319 ppb	98
16) ACETONE	3.123	43	326149	110.3391485 ppb	99
17) IODOMETHANE	2.843	142	1122463	120.9932138 ppb	99
18) CARBON DISULFIDE	2.775	76	504121	21.5485045 ppb	99
19) METHYLENE CHLORIDE	3.097	84	185249	24.0678479 ppb	98
20) ACRYLONITRILE	3.582	53	234320	125.1263095 ppb	98
21) n-Hexane	3.213	56	154542	21.1253387 ppb	93
22) TRANS-1,2-DICHLOROETHENE	3.190	96	166193	23.5340369 ppb	97
23) METHYL TERT-BUTYL ETHER	3.235	73	460908	24.7967025 ppb	90
24) 1,1-DICHLOROETHANE	3.550	63	340683	25.0046529 ppb	99
25) VINYL ACETATE	3.660	43	242641	20.3020817 ppb	99
26) DI-ISOPROPYL ETHER	3.435	45	646601	25.4026591 ppb	99
27) 2,2-Dichloropropane	3.914	77	209269	20.5966353 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.853	96	189184	24.3317114 ppb	100
29) 2-BUTANONE (MEK)	4.161	43	355657	109.0263489 ppb	97
30) BROMOCHLOROMETHANE	3.971	130	97633	25.5353552 ppb	94
31) TETRAHYDROFURAN	4.094	42	36645	21.7660709 ppb	97
32) CHLOROFORM	3.994	83	316209	25.3656276 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.126	97	231152	24.4767555 ppb	98
35) CARBON TETRACHLORIDE	4.087	119	177546	24.4991514 ppb	100
36) 1,1-Dichloropropene	4.187	75	220382	23.0246890 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 05.D
Acq On : 23 Nov 2015 1:32 pm
Operator : 522
Sample : LCSD 1x WG831097
Misc : water
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 14:56:50 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.219	57	700875	22.9871376	ppb		99
38)	HEPTANE	4.261	43	277642	20.2485235	ppb	#	68
39)	BENZENE	4.335	78	754653	24.2318804	ppb		100
40)	1,2-DICHLOROETHANE	4.451	62	233249	24.7142726	ppb		99
42)	TRICHLOROETHENE	4.656	130	180753	27.6466763	ppb		99
43)	1,2-DICHLOROPROPANE	4.975	62	138848	24.8919736	ppb		99
44)	DIBROMOMETHANE	4.923	93	89844	24.4830124	ppb		100
45)	BROMODICHLOROMETHANE	4.997	83	237702	25.0007604	ppb		97
47)	2-CHLOROETHYL VINYL ETHER	5.309	63	332536	129.0521903	ppb		98
48)	CIS-1,3-DICHLOROPROPENE	5.373	75	270568	22.8165532	ppb		98
49)	4-METHYL-2-PENTANONE (...	5.737	43	625497	120.9546039	ppb		99
51)	TOLUENE	5.521	91	768987	23.5755725	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.775	75	232287	22.7950790	ppb		99
54)	1,1,2-TRICHLOROETHANE	5.888	97	133738	24.2057577	ppb		99
55)	TETRACHLOROETHENE	5.772	164	102046	21.3534125	ppb		99
56)	1,3-Dichloropropane	6.074	76	254720	23.8210700	ppb		100
57)	2-HEXANONE	6.277	58	274056	101.8806014	ppb		99
58)	CHLORODIBROMOMETHANE	6.013	129	135738	24.8591663	ppb		99
59)	1,2-DIBROMOETHANE	6.190	107	125572	24.6504207	ppb		97
60)	CHLOROBENZENE	6.524	112	446773	23.6211287	ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.560	133	140081	24.5580792	ppb		100
62)	ETHYLBENZENE	6.515	106	246737	22.9328848	ppb		100
63)	M&P-XYLENE	6.611	106	612329	45.6132483	ppb		98
64)	O-XYLENE	6.920	106	301474	23.6640254	ppb		99
65)	STYRENE	6.958	104	491884	23.5540534	ppb		100
66)	Bromoform	7.007	173	69922	24.8704243	ppb		99
67)	Isopropylbenzene	7.132	105	762209	23.2934802	ppb		99
69)	Bromobenzene	7.454	77	369066	23.1175446	ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	7.495	83	129410	19.4214092	ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.614	110	43398	23.9415759	ppb		97
72)	TRANS-1,4-DICHLORO-2-B...	7.630	53	35253	18.2981094	ppb	#	93
73)	n-Propylbenzene	7.434	91	903951	21.9292675	ppb		99
74)	4-ETHYLTOLUENE	7.512	105	720876	21.5937836	ppb		99
75)	2-Chlorotoluene	7.576	126	167839	22.1151479	ppb		97
76)	4-Chlorotoluene	7.698	91	547644	21.6762443	ppb		100
77)	1,3,5-Trimethylbenzene	7.569	105	638965	23.2619338	ppb		100
78)	tert-Butylbenzene	7.820	119	525651	24.1592174	ppb		99
79)	1,2,4-Trimethylbenzene	7.872	105	626840	22.9113301	ppb		100
80)	sec-Butylbenzene	7.952	105	801674	23.2361020	ppb		100
81)	1,3-DICHLOROBENZENE	8.151	146	295695	21.8879238	ppb		98
82)	p-Isopropyltoluene	8.055	119	618427	22.3543720	ppb		100
83)	DICYCLOPENTADIENE	8.061	66	832978	23.5859962	ppb		100
85)	1,4-DICHLOROBENZENE	8.219	146	297905	20.9359625	ppb		88
86)	1,2,3-TRIMETHYLBENZENE	8.216	105	677878	22.3736592	ppb		99
87)	1,2-DICHLOROBENZENE	8.553	146	283494	22.5222948	ppb		99
88)	n-Butylbenzene	8.386	91	550505	19.5636450	ppb		100
89)	1,2-Dibromo-3-chloropr...	9.196	157	21582	23.3838226	ppb		94
90)	1,2,4-Trichlorobenzene	9.740	180	138442	18.8307029	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.691	225	74793	20.6317407	ppb		98
92)	Naphthalene	10.016	128	407548	23.9586420	ppb		100
93)	1,2,3-Trichlorobenzene	10.167	180	139407	21.1408054	ppb		99
94)	1-Methylnaphthalene	10.881	142	189458	21.7945410	ppb		99
95)	2-Methylnaphthalene	11.013	142	168204	23.5279984	ppb		96
100)	Methyl Acetate	3.216	43	291414	77.7714583	ppb	#	69

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 05.D
Acq On : 23 Nov 2015 1:32 pm
Operator : 522
Sample : LCSD 1x WG831097
Misc : water
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 14:56:50 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

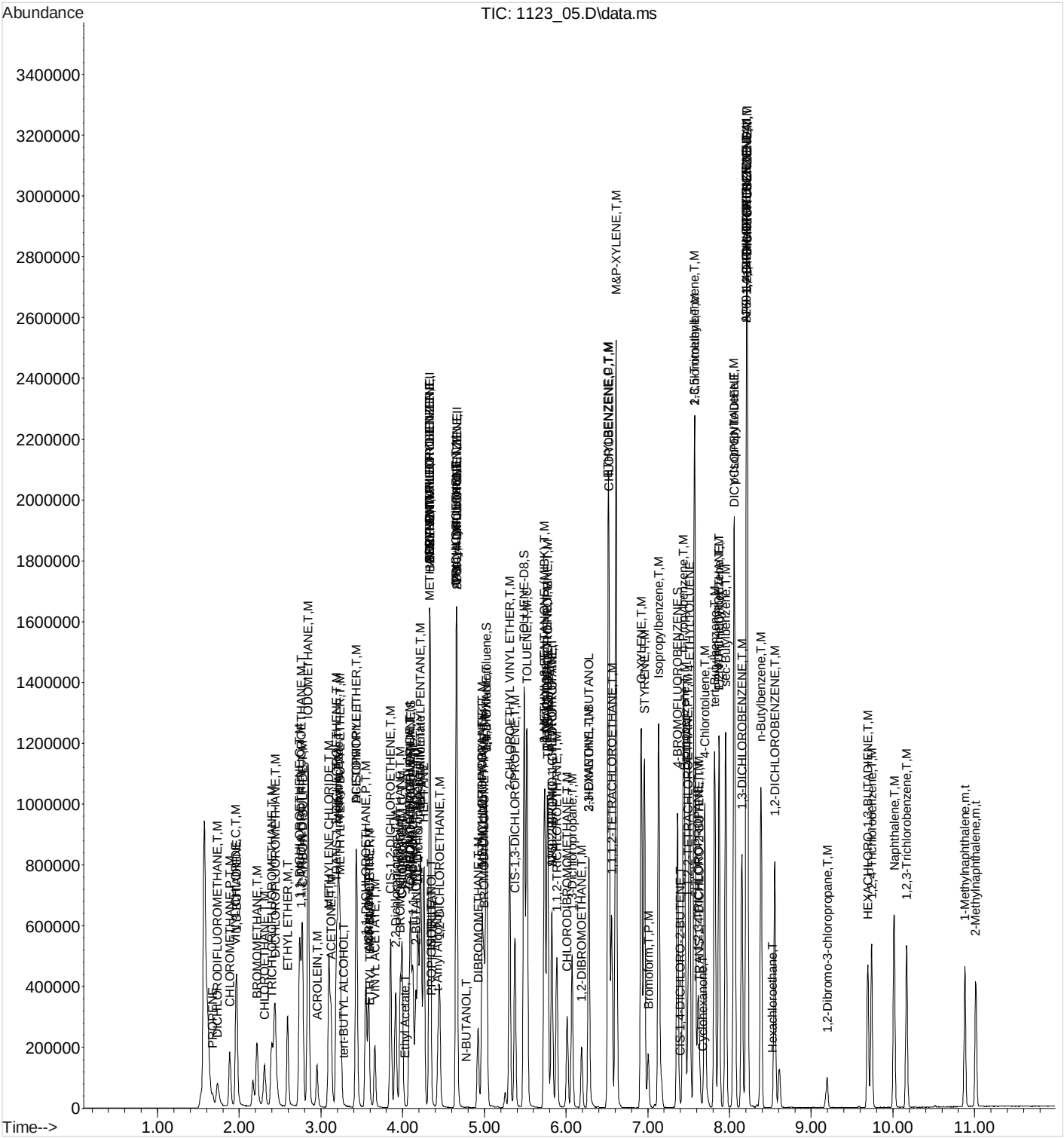
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
101) ACETONITRILE	3.435	41	102416	172.9108958 ppb #	40
103) tert-BUTYL ALCOHOL	3.280	59	2236	2.0329783 ppb #	64
104) chloroprene	3.582	53	234320	19.6824340 ppb #	27
105) ETHYL TERT-BUTYL ETHER	3.595	59	4862	0.2148983 ppb #	39
106) PROPIONITRILE	4.354	54	752	1.0473253 ppb #	19
107) Ethyl Acetate	4.026	43	1017	0.2078692 ppb #	67
108) METHACRYLONITRILE	4.328	67	511	0.2255893 ppb #	1
109) Cyclohexane	3.994	84	12135	0.7931028 ppb #	8
110) tert-butyl formate	4.219	59	518	3.5840761 ppb #	1
111) ISOBUTANOL	4.351	41	1047	0.5757828 ppb #	90
112) t-Amyl Alcohol	4.431	59	5749	17.1562416 ppb #	39
113) TERT-AMYL METHYL ETHER	4.332	73	12827	0.5398410 ppb #	82
115) N-BUTANOL	4.779	56	1013	7.4456153 ppb #	51
116) Methyl Cyclohexane	4.656	83	11457	0.6028471 ppb #	48
117) 2-nitropropane	5.737	43	625497	456.2431651 ppb #	41
118) METHYL METHACRYLATE	4.975	41	110045	20.7251675 ppb #	14
119) 1,4-DIOXANE	5.023	88	4589	87.1335628 ppb #	30
120) n-octane	5.377	85	3492	Below Cal #	32
121) 3,3-DIMETHYL-1-BUTANOL	6.277	57	98006	326.6605049 ppb #	32
124) CIS-1,4-DICHLORO-2-BUTENE	7.396	53	1383	0.7227243 ppb #	29
125) Cyclohexanone	7.672	55	875	1.0122111 ppb #	26
126) PENTACHLOROETHANE	7.872	117	20579	5.9381907 ppb #	14
127) Hexachloroethane	8.528	117	1069	0.2387772 ppb #	56

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 05.D
Acq On : 23 Nov 2015 1:32 pm
Operator : 522
Sample : LCSD 1x WG831097
Misc : water
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 14:56:50 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

LCS Summary Report

Instrument ID	: VOCMS20	Work Group	: WG831097	Initial Prep Amt	: 0
Lab File ID	: 1123_06-2	Dilution	: 1	Final Prep Amt	: 0
Analysis Date	: 11/23/15 1351	Multiplier	: 1	Method	: V820K13O
Result Units	: PPM				

Parameter	True Value	LCS Result	LCS Rec.	Low Limit	High Limit	Qualifier
PROPENE	0.025	0.0006161223	2.46	10	200	J4
DICHLORODIFLUOROMETHANE	0.025	0	0	56	134	J4
CHLOROMETHANE	0.025	0.0002357376	0.943	55.8	134	J4
VINYL CHLORIDE	0.025	0	0	61.5	134	J4
1,3-BUTADIENE	0.025	0.0008489492	3.4	36.2	142	J4
BROMOMETHANE	0.025	0	0	22.4	187	J4
CHLOROETHANE	0.025	0	0	41.2	153	J4
TRICHLOROFLUOROMETHANE	0.025	0	0	49.1	157	J4
DICHLOROFLUOROMETHANE	0.025	0	0	53.5	145	J4
ETHYL ETHER	0.025	0	0	56.6	136	J4
ACROLEIN	0.125	0.0006018393	0.481	40.4	172	J4
1,1-DICHLOROETHENE	**0.025**	**0**	**0**	**59.9**	**137**	**J4**
1,1,2-TRICHLOROTRIFLUOROETHANE	0.025	0	0	62	141	J4
ACETONE	0.125	0.001945956	1.56	28.7	175	J4
IODOMETHANE	0.125	0.0002045603	0.164	64.6	137	J4
CARBON DISULFIDE	0.025	0	0	53	134	J4
METHYLENE CHLORIDE	0.025	0.001491562	5.97	69.5	120	J4
ACRYLONITRILE	0.125	0.2873972	230	58.2	145	J4
n-Hexane	0.025	0.0003533897	1.41	59.5	132	J4
TRANS-1,2-DICHLOROETHENE	0.025	0	0	72.6	125	J4
METHYL TERT-BUTYL ETHER	0.025	0	0	70.1	125	J4
1,1-DICHLOROETHANE	0.025	0.0006062294	2.42	71.7	127	J4
VINYL ACETATE	0.125	0.001907879	1.53	41.7	159	J4
DI-ISOPROPYL ETHER	0.025	0	0	65.1	135	J4
2,2-Dichloropropane	0.025	0	0	61.3	134	J4
CIS-1,2-DICHLOROETHENE	0.025	0	0	77.3	122	J4
2-BUTANONE (MEK)	0.125	0.001564548	1.25	46.4	155	J4
BROMOCHLOROMETHANE	0.025	0	0	78.9	123	J4
TETRAHYDROFURAN	0.025	0.0003384487	1.35	54	134	J4
CHLOROFORM	0.025	0.0006657264	2.66	73.2	125	J4
1,1,1-TRICHLOROETHANE	0.025	0	0	71.1	129	J4
CARBON TETRACHLORIDE	0.025	0	0	70.9	129	J4
1,1-Dichloropropene	0.025	0	0	72.5	127	J4
2,2,4-TRIMETHYLPENTANE	0.025	0.01099633	44	56.9	117	J4
BENZENE	**0.025**	**0**	**0**	**73**	**122**	**J4**
1,2-DICHLOROETHANE	0.025	0	0	65.3	126	J4
TRICHLOROETHENE	**0.025**	**0.0006987854**	**2.8**	**79.5**	**121**	**J4**
1,2-DICHLOROPROPANE	0.025	0.001333406	5.33	77.4	125	J4
DIBROMOMETHANE	0.025	0	0	79.5	118	J4
BROMODICHLOROMETHANE	0.025	0	0	75.5	121	J4
2-CHLOROETHYL VINYL ETHER	0.125	0	0	23.4	162	J4
CIS-1,3-DICHLOROPROPENE	0.025	0	0	77.7	124	J4
4-METHYL-2-PENTANONE (MIBK)	0.125	0.001218543	0.975	63.3	138	J4

LCS Summary Report

Instrument ID	: VOCMS20	Work Group	: WG831097	Initial Prep Amt	: 0
Lab File ID	: 1123_06-2	Dilution	: 1	Final Prep Amt	: 0
Analysis Date	: 11/23/15 1351	Multiplier	: 1	Method	: V820K13O
Result Units	: PPM				

Parameter	True Value	LCS Result	LCS Rec.	Low Limit	High Limit	Qualifier
TOLUENE	**0.025**	**0**	**0**	**77.9**	**116**	**J4**
TRANS-1,3-DICHLOROPROPENE	0.025	0	0	73.5	127	J4
1,1,2-TRICHLOROETHANE	0.025	0	0	81.6	120	J4
TETRACHLOROETHENE	0.025	0.03249102	130	73.5	130	
1,3-Dichloropropane	0.025	0	0	80.6	115	J4
2-HEXANONE	0.125	0.002218252	1.77	59.4	151	J4
CHLORODIBROMOMETHANE	0.025	0	0	78.2	124	J4
1,2-DIBROMOETHANE	0.025	0	0	79.8	122	J4
CHLOROBENZENE	**0.025**	**0**	**0**	**79.7**	**122**	**J4**
1,1,1,2-TETRACHLOROETHANE	0.025	0.000523488	2.09	78.5	125	J4
ETHYLBENZENE	0.025	0	0	80.9	121	J4
M&P-XYLENE	0.05	0.0002818119	0.564	78.5	122	J4
O-XYLENE	0.025	0	0	79.1	123	J4
STYRENE	0.025	0	0	79.9	124	J4
Bromoform	0.025	0	0	71.5	131	J4
Isopropylbenzene	0.025	0	0	81.6	124	J4
Bromobenzene	0.025	0	0	81.5	115	J4
1,1,2,2-TETRACHLOROETHANE	0.025	0	0	79.3	123	J4
1,2,3-TRICHLOROPROPANE	0.025	0	0	74.9	124	J4
TRANS-1,4-DICHLORO-2-BUTENE	0.025	0.001426129	5.7	58.3	129	J4
n-Propylbenzene	0.025	0	0	81.9	122	J4
4-ETHYLTOLUENE	0.025	0	0	69.5	137	J4
2-Chlorotoluene	0.025	0	0	76.4	125	J4
4-Chlorotoluene	0.025	0	0	81.5	121	J4
1,3,5-Trimethylbenzene	0.025	0	0	81	123	J4
tert-Butylbenzene	0.025	0	0	79.3	127	J4
1,2,4-Trimethylbenzene	0.025	0	0	79	122	J4
sec-Butylbenzene	0.025	0	0	80.6	126	J4
1,3-DICHLOROBENZENE	0.025	0	0	77.6	127	J4
p-Isopropyltoluene	0.025	0	0	77.6	129	J4
DICYCLOPENTADIENE	0.025	0	0	73.4	126	J4
1,4-DICHLOROBENZENE	0.025	0	0	82.2	114	J4
1,2,3-TRIMETHYLBENZENE	0.025	0	0	79.9	118	J4
1,2-DICHLOROBENZENE	0.025	0	0	84.7	118	J4
n-Butylbenzene	0.025	0	0	75.9	134	J4
1,2-Dibromo-3-chloropropane	0.025	0	0	64.8	131	J4
1,2,4-Trichlorobenzene	0.025	0.0004888681	1.96	76.1	136	J4
HEXACHLORO-1,3-BUTADIENE	0.025	0.0002802219	1.12	73.7	133	J4
Naphthalene	0.025	0.00100846	4.03	69.7	134	J4
1,2,3-Trichlorobenzene	0.025	0.0006607386	2.64	75.7	134	J4
1-Methylnaphthalene	0.025	0.00172415	6.9	48.8	157	J4
2-Methylnaphthalene	0.025	0.001846491	7.39	55.6	154	J4
Methyl Cyclohexane	0.01	0.007737768	77.4	70	130	

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

LCS Summary Report

Instrument ID	: VOCMS20	Work Group	: WG831097	Initial Prep Amt	: 0
Lab File ID	: 1123_06-2	Dilution	: 1	Final Prep Amt	: 0
Analysis Date	: 11/23/15 1351	Multiplier	: 1	Method	: V820K13O
Result Units	: PPM				

Parameter	True Value	LCS Result	LCS Rec.	Low Limit	High Limit	Qualifier
XYLENES, TOTAL		0.0002818119	0	0	0	J4

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
DIBROMOFLUOROMETHANE	40	0.03776637	94.42	79	121	
a,a,a-Trifluorotoluene	40	0.04062779	101.57	90	116	
TOLUENE-D8	40	0.03945661	98.64	90	115	
4-BROMOFLUOROBENZENE	40	0.03940013	98.5	80	120	

IS Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
8260-PENTAFLUOROBENZENE	312058	160000	638000	4.33		
8260-1,4-DIFLUOROBENZENE	609727	305000	1220000	4.66		
8260-2-BROMO-1-CHLOROPROPANE	111359	56500	226000	5.83		
8260-1,4-DICHLOROBENZENE-D4	272994	146000	586000	8.21		
AP9-PENTAFLUOROBENZENE	312058	160000	638000	4.33		
AP9-1,4-DIFLUOROBENZENE	609727	305000	1220000	4.66		
AP9-2-BROMO-1-CHLOROPROPANE	111359	56500	226000	5.83		
AP9-1,4-DICHLOROBENZENE-D4	272994	146000	586000	8.21		

Total Parm Count	: **87**	J3 Qual Count	: 0	J6 Qual Count	: 0
J1 Qual Count	: 0	J4 Qual Count	: 85	V Qual Count	: 0
J2 Qual Count	: 0	J5 Qual Count	: 0	Total J4 Count	: 85

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 06.D
Acq On : 23 Nov 2015 1:51 pm
Operator : 522
Sample : LCS 1X WG831097
Misc : water
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 21:24:36 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.332	168	312058	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	609727	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	111359	40.0000000 ppb	# 0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	272994	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.332	168	312058	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	609727	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	111359	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	272994	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.097	111	169267	37.7663743 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 94.42%		
46) a,a,a-Trifluorotoluene	5.026	146	334353	40.6277875 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.57%		
50) TOLUENE-D8	5.486	98	792453	39.4566134 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 98.64%		
68) 4-BROMOFLUOROBENZENE	7.364	95	319853	39.4001271 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.50%		
Target Compounds					Qvalue
3) PROPENE	1.666	41	874	0.6161223 ppb #	15
5) CHLOROMETHANE	1.898	50	2194	0.2357376 ppb #	49
7) 1,3-BUTADIENE	1.955	39	5141	0.8489492 ppb	96
13) ACROLEIN	2.946	56	530	0.6018393 ppb #	14
16) ACETONE	3.119	43	5865	1.9459558 ppb #	88
17) IODOMETHANE	2.843	142	1935	0.2045603 ppb #	86
19) METHYLENE CHLORIDE	3.097	84	11706	1.4915619 ppb	98
20) ACRYLONITRILE	3.528	53	548772	287.3972498 ppb #	50
21) n-Hexane	3.213	56	2636	0.3533897 ppb #	1
24) 1,1-DICHLOROETHANE	3.531	63	8422	0.6062294 ppb #	59
25) VINYL ACETATE	3.637	43	23250	1.9078786 ppb #	74
29) 2-BUTANONE (MEK)	4.161	43	5204	1.5645476 ppb	95
31) TETRAHYDROFURAN	4.087	42	581	0.3384487 ppb #	31
32) CHLOROFORM	3.971	83	8462	0.6657264 ppb #	50
37) 2,2,4-TRIMETHYLPENTANE	4.235	57	341863	10.9963312 ppb #	1
38) HEPTANE	4.235	43	72128	5.1589756 ppb #	1
42) TRICHLOROETHENE	4.660	130	4656	0.6987854 ppb #	61
43) 1,2-DICHLOROPROPANE	5.023	62	7580	1.3334057 ppb #	28
49) 4-METHYL-2-PENTANONE (...	5.737	43	6422	1.2185431 ppb	96
55) TETRACHLOROETHENE	5.769	164	155635	32.4910241 ppb	99
57) 2-HEXANONE	6.277	58	5981	2.2182517 ppb	96
61) 1,1,1,2-TETRACHLOROETHANE	6.557	133	2993	0.5234880 ppb #	98
63) M&P-XYLENE	6.611	106	3792	0.2818119 ppb	93
72) TRANS-1,4-DICHLORO-2-B...	7.634	53	2754	1.4261293 ppb #	82
90) 1,2,4-Trichlorobenzene	9.743	180	3439	0.4888681 ppb	97
91) HEXACHLORO-1,3-BUTADIENE	9.688	225	972	0.2802219 ppb	98
92) Naphthalene	10.016	128	16414	1.0084601 ppb	99
93) 1,2,3-Trichlorobenzene	10.167	180	4169	0.6607386 ppb	99
94) 1-Methylnaphthalene	10.881	142	14341	1.7241501 ppb	95
95) 2-Methylnaphthalene	11.013	142	12631	1.8464912 ppb	97
97) ETHANOL	2.682	45	52467	887.0563065 ppb #	95
98) Bromoethane	2.907	108	56763	9.1189807 ppb	100
100) Methyl Acetate	3.180	43	774107	202.6106229 ppb #	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 06.D
Acq On : 23 Nov 2015 1:51 pm
Operator : 522
Sample : LCS 1X WG831097
Misc : water
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 21:24:36 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

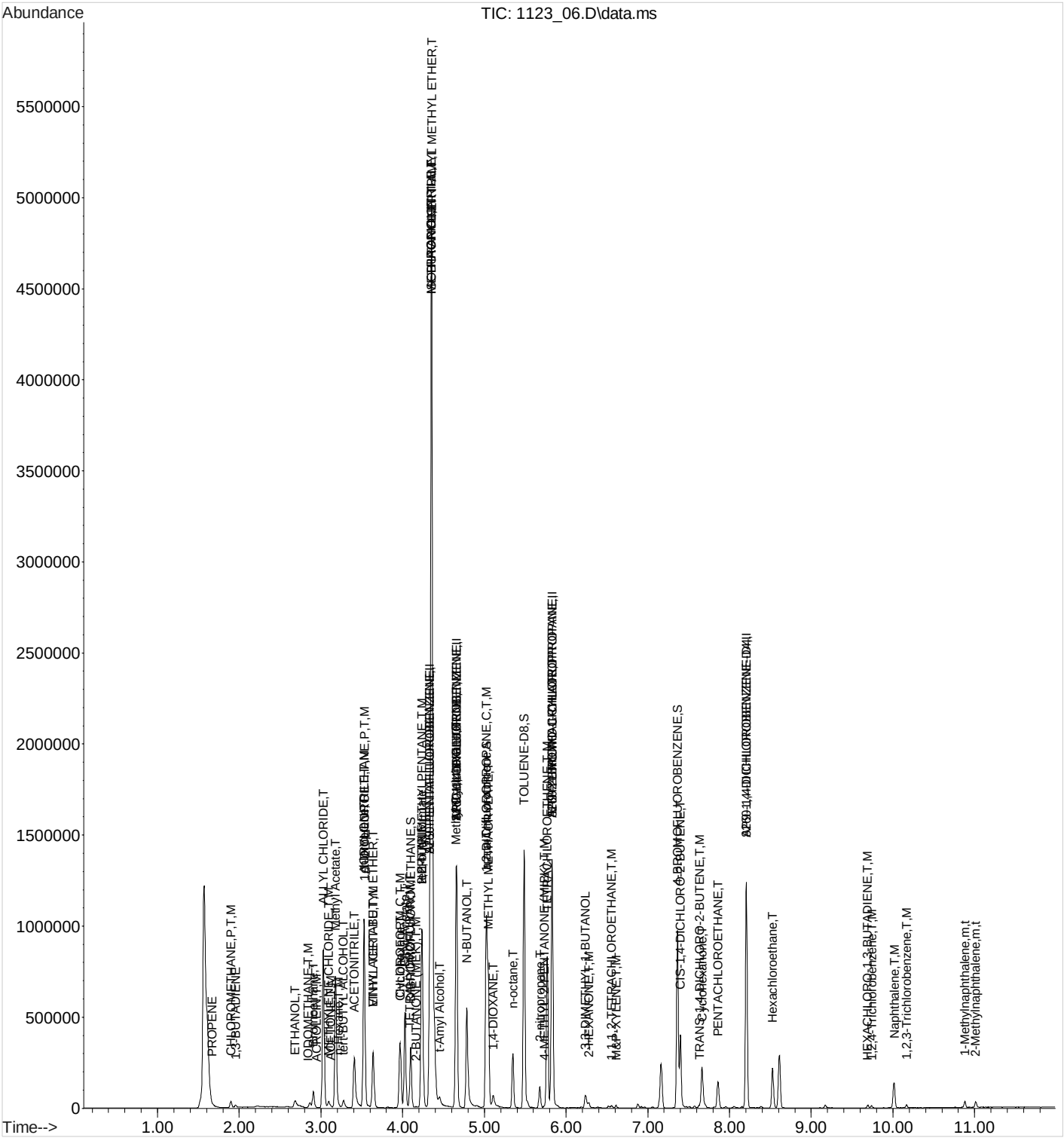
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
101)	ACETONITRILE	3.409	41	309603	512.6383569	ppb		98
102)	ALLYL CHLORIDE	3.029	76	174442	45.0752211	ppb		99
103)	tert-BUTYL ALCOHOL	3.274	59	43379	38.6804814	ppb		98
104)	chloroprene	3.528	53	548772	45.2077379	ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.637	59	232117	10.0618152	ppb		98
106)	PROPIONITRILE	4.348	54	383158	523.3509639	ppb		98
107)	Ethyl Acetate	4.029	43	500725	100.3736829	ppb		100
108)	METHACRYLONITRILE	4.354	67	1214927	526.0162646	ppb		98
109)	Cyclohexane	3.968	84	128330	8.2256319	ppb		98
110)	tert-butyl formate	4.235	59	432221	2932.9503410	ppb	#	77
111)	ISOBUTANOL	4.354	41	1925749	1038.6353581	ppb	#	100
112)	t-Amyl Alcohol	4.454	59	17267	50.5356807	ppb		98
113)	TERT-AMYL METHYL ETHER	4.357	73	252688	10.4298193	ppb		100
115)	N-BUTANOL	4.785	56	306868	2213.1770837	ppb		99
116)	Methyl Cyclohexane	4.653	83	149867	7.7377679	ppb		98
117)	2-nitropropane	5.679	43	69490	49.7355432	ppb		98
118)	METHYL METHACRYLATE	5.049	41	268021	49.5301874	ppb		98
119)	1,4-DIOXANE	5.110	88	51393	957.5132617	ppb		99
120)	n-octane	5.351	85	52089	6.7763374	ppb		98
121)	3,3-DIMETHYL-1-BUTANOL	6.238	57	40092	131.1218596	ppb		95
123)	ETHYL METHACRYLATE	5.830	69	362876	48.4327037	ppb		99
124)	CIS-1,4-DICHLORO-2-BUTENE	7.399	53	83900	43.7418642	ppb		95
125)	Cyclohexanone	7.663	55	95058	109.7075536	ppb		98
126)	PENTACHLOROETHANE	7.859	117	24517	7.0580060	ppb		98
127)	Hexachloroethane	8.528	117	42913	9.5628838	ppb		95

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 06.D
Acq On : 23 Nov 2015 1:51 pm
Operator : 522
Sample : LCS 1X WG831097
Misc : water
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 21:24:36 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 08.D
Acq On : 23 Nov 2015 2:28 pm
Operator : 522
Sample : BLANK 1x WG831097
Misc : water
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Feb 02 11:05:36 2016
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

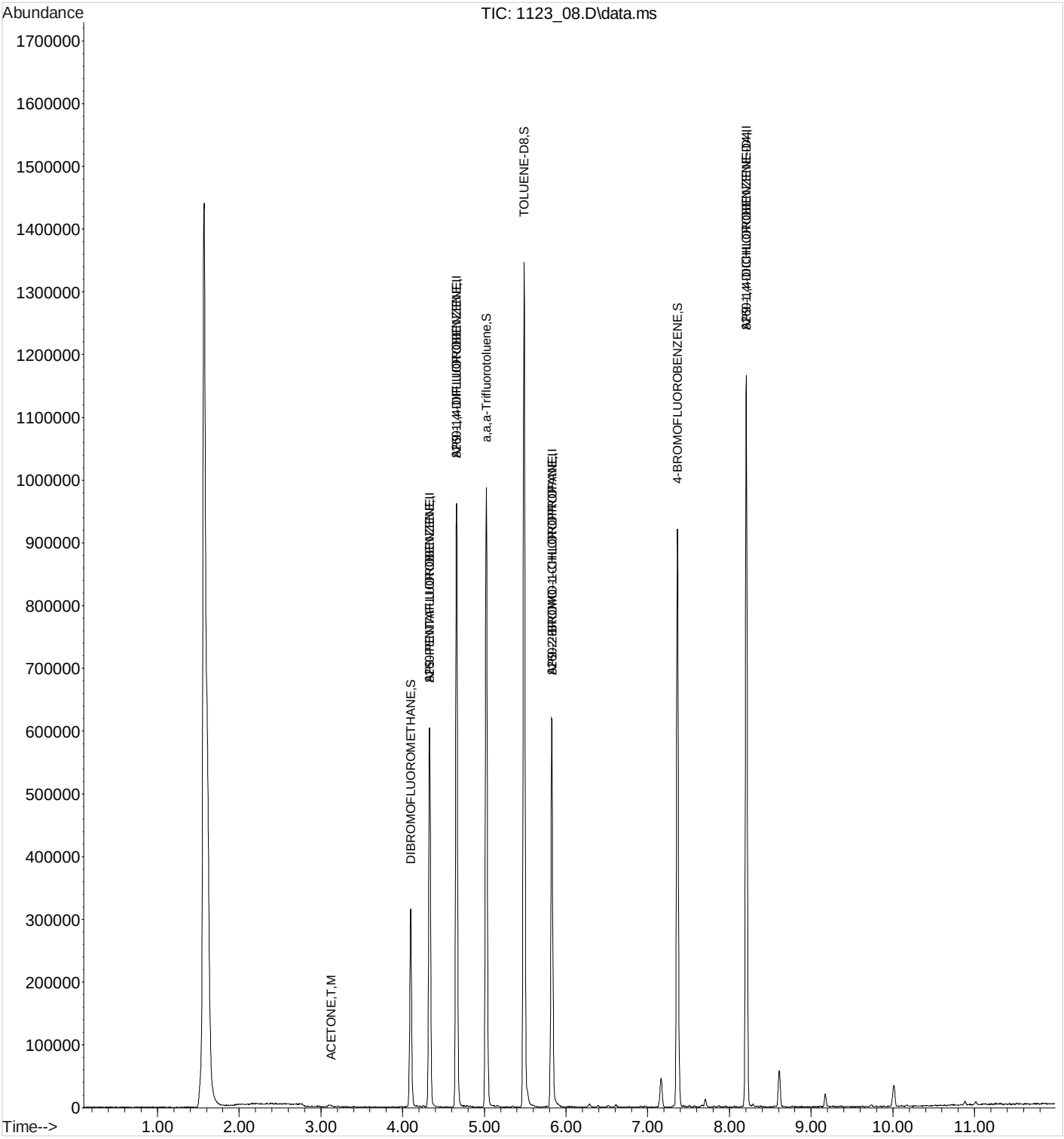
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.329	168	303302	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	594918	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	105897	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	260886	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.329	168	303302	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	594918	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	105897	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	260886	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.097	111	163476	37.5272764	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 93.82%			
46) a,a,a-Trifluorotoluene	5.023	146	326160	40.6187884	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.55%			
50) TOLUENE-D8	5.486	98	765808	39.0790960	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 97.70%			
68) 4-BROMOFLUOROBENZENE	7.364	95	308342	39.9412401	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 99.85%			
Target Compounds						Qvalue
16) ACETONE	3.126	43	2598	0.8868786	ppb	97

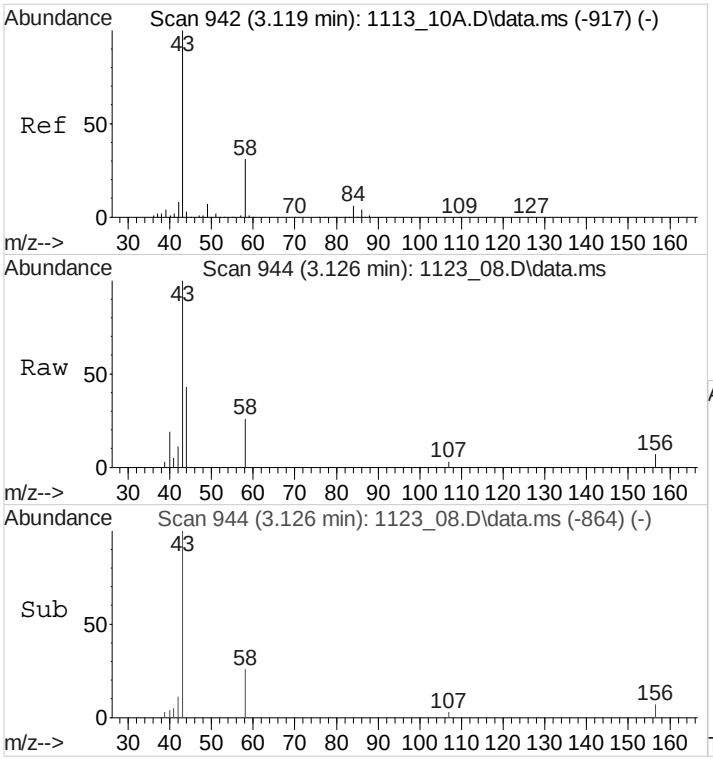
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 08.D
Acq On : 23 Nov 2015 2:28 pm
Operator : 522
Sample : BLANK 1x WG831097
Misc : water
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Feb 02 11:05:36 2016
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

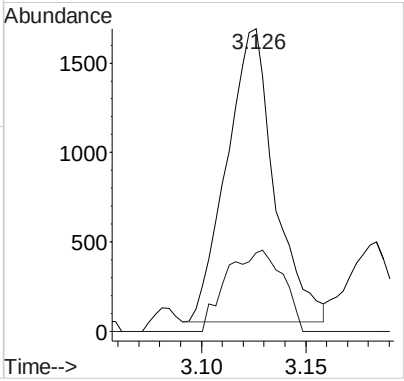




#16
ACETONE
Concen: 0.8868786 ppb
RT: 3.126 min Scan# 944
Delta R.T. 0.007 min
Lab File: 1123 08.D
Acq: 23 Nov 2015 2:28 pm

Tgt Ion: 43 Resp: 2598

Ion	Ratio	Lower	Upper
43	100		
58	32.8	24.7	37.1



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 13.D
Acq On : 23 Nov 2015 4:59 pm
Operator : 522
Sample : MS 1x WG831097 L800817-08
Misc : water
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 21:27:33 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.328	168	314395	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.659	114	615470	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.823	79	115676	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	299133	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.328	168	314395	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.659	114	615470	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.823	79	115676	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	299133	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.097	111	175006	38.7565959 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 96.89%		
46) a,a,a-Trifluorotoluene	5.023	146	339379	40.8537053 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.13%		
50) TOLUENE-D8	5.486	98	797071	39.3162275 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 98.29%		
68) 4-BROMOFLUOROBENZENE	7.364	95	337468	40.0185964 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 100.05%		
Target Compounds					Qvalue
3) PROPENE	1.672	41	10713	7.4959427 ppb	92
4) DICHLORODIFLUOROMETHANE	1.730	85	107407	16.1297931 ppb	97
5) CHLOROMETHANE	1.881	50	150172	16.0155151 ppb	100
6) VINYL CHLORIDE	1.959	62	182637	18.5418681 ppb	100
7) 1,3-BUTADIENE	1.968	39	108368	17.7621223 ppb	94
8) BROMOMETHANE	2.216	94	113457	18.5241561 ppb	98
9) CHLOROETHANE	2.306	64	125441	19.0673883 ppb	98
10) TRICHLOROFLUOROMETHANE	2.399	101	217356	21.6097713 ppb	98
11) DICHLOROFLUOROMETHANE	2.434	67	339603	23.7292810 ppb	99
12) ETHYL ETHER	2.589	59	148840	21.6939800 ppb	98
13) ACROLEIN	2.949	56	136334	153.6627370 ppb	100
14) 1,1-DICHLOROETHENE	2.737	61	241808	21.1213388 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.756	101	151639	23.7536549 ppb	98
16) ACETONE	3.119	43	197414	65.0133586 ppb	98
17) IODOMETHANE	2.843	142	983026	103.1490091 ppb	100
18) CARBON DISULFIDE	2.772	76	369471	15.3735363 ppb	99
19) METHYLENE CHLORIDE	3.097	84	171186	21.6501399 ppb	98
20) ACRYLONITRILE	3.579	53	268913	139.7855088 ppb	99
21) n-Hexane	3.213	56	129592	17.2443338 ppb	88
22) TRANS-1,2-DICHLOROETHENE	3.190	96	154639	21.3163976 ppb	98
23) METHYL TERT-BUTYL ETHER	3.232	73	488536	25.5851127 ppb #	78
24) 1,1-DICHLOROETHANE	3.547	63	331494	23.6841126 ppb	99
25) VINYL ACETATE	3.656	43	1808001	147.2604511 ppb	99
26) DI-ISOPROPYL ETHER	3.431	45	630332	24.1058939 ppb	98
27) 2,2-Dichloropropane	3.910	77	251076	24.0551272 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.849	96	181106	22.6742102 ppb	99
29) 2-BUTANONE (MEK)	4.158	43	324244	96.7571646 ppb	99
30) BROMOCHLOROMETHANE	3.968	130	93115	23.7069669 ppb	98
31) TETRAHYDROFURAN	4.094	42	42996	24.8601901 ppb	96
32) CHLOROFORM	3.991	83	304011	23.7395105 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.122	97	235992	24.3256555 ppb	99
35) CARBON TETRACHLORIDE	4.084	119	179975	24.1748289 ppb	98
36) 1,1-Dichloropropene	4.187	75	213560	21.7194409 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 13.D
Acq On : 23 Nov 2015 4:59 pm
Operator : 522
Sample : MS 1x WG831097 L800817-08
Misc : water
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 21:27:33 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.219	57	719181	22.9611486	ppb		99
38)	HEPTANE	4.258	43	241252	17.1273509	ppb	#	68
39)	BENZENE	4.332	78	710990	22.2235986	ppb		100
40)	1,2-DICHLOROETHANE	4.450	62	235313	24.2708530	ppb		100
42)	TRICHLOROETHENE	4.656	130	152790	22.7171736	ppb		99
43)	1,2-DICHLOROPROPANE	4.971	62	137556	23.9718302	ppb		99
44)	DIBROMOMETHANE	4.920	93	93235	24.6977108	ppb		98
45)	BROMODICHLOROMETHANE	4.997	83	236611	24.1911918	ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.309	63	2741	1.0340409	ppb	#	93
48)	CIS-1,3-DICHLOROPROPENE	5.373	75	289149	23.7026690	ppb		100
49)	4-METHYL-2-PENTANONE (...	5.733	43	749117	140.8149538	ppb		100
51)	TOLUENE	5.518	91	749629	22.3404327	ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.775	75	259970	24.7994119	ppb		99
54)	1,1,2-TRICHLOROETHANE	5.884	97	139664	24.2781294	ppb		98
55)	TETRACHLOROETHENE	5.769	164	107070	21.5182026	ppb		97
56)	1,3-Dichloropropane	6.071	76	272466	24.4724485	ppb		98
57)	2-HEXANONE	6.277	58	295657	105.5619097	ppb		100
58)	CHLORODIBROMOMETHANE	6.013	129	140278	24.6741140	ppb		99
59)	1,2-DIBROMOETHANE	6.190	107	127792	24.0936212	ppb		98
60)	CHLOROBENZENE	6.524	112	453354	23.0206756	ppb		98
61)	1,1,1,2-TETRACHLOROETHANE	6.556	133	141185	23.7722674	ppb		99
62)	ETHYLBENZENE	6.515	106	254097	22.6824955	ppb		99
63)	M&P-XYLENE	6.611	106	632062	45.2202273	ppb		100
64)	O-XYLENE	6.920	106	303602	22.8881281	ppb		97
65)	STYRENE	6.958	104	508071	23.3665316	ppb		100
66)	Bromoform	7.003	173	77076	26.3302758	ppb		99
67)	Isopropylbenzene	7.132	105	814383	23.9031917	ppb		99
69)	Bromobenzene	7.450	77	385782	23.2084702	ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	7.495	83	192502	27.7469362	ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.614	110	51192	27.1238917	ppb		98
72)	TRANS-1,4-DICHLORO-2-B...	7.627	53	53110	26.4760583	ppb		98
73)	n-Propylbenzene	7.434	91	1002763	23.3638508	ppb		99
74)	4-ETHYLTOLUENE	7.511	105	797482	22.9433038	ppb		99
75)	2-Chlorotoluene	7.576	126	178198	22.5510453	ppb		97
76)	4-Chlorotoluene	7.698	91	600850	22.8411863	ppb		99
77)	1,3,5-Trimethylbenzene	7.569	105	685562	23.9707913	ppb		99
78)	tert-Butylbenzene	7.817	119	557628	24.6148293	ppb		98
79)	1,2,4-Trimethylbenzene	7.872	105	677101	23.7691660	ppb		99
80)	sec-Butylbenzene	7.952	105	888116	24.7230505	ppb		99
81)	1,3-DICHLOROBENZENE	8.151	146	333897	23.7377740	ppb		99
82)	p-Isopropyltoluene	8.055	119	714088	24.7909206	ppb		99
83)	DICYCLOPENTADIENE	8.061	66	817253	22.2251194	ppb		100
85)	1,4-DICHLOROBENZENE	8.219	146	325854	21.8417695	ppb		91
86)	1,2,3-TRIMETHYLBENZENE	8.216	105	702271	22.1075103	ppb		99
87)	1,2-DICHLOROBENZENE	8.553	146	305791	23.1709100	ppb		99
88)	n-Butylbenzene	8.386	91	710991	24.0991781	ppb		100
89)	1,2-Dibromo-3-chloropr...	9.193	157	26768	27.6623687	ppb		99
90)	1,2,4-Trichlorobenzene	9.740	180	184776	23.9714250	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.695	225	95135	25.0302313	ppb		99
92)	Naphthalene	10.013	128	482600	27.0595377	ppb		100
93)	1,2,3-Trichlorobenzene	10.167	180	168209	24.3296465	ppb		99
94)	1-Methylnaphthalene	10.881	142	248895	27.3086715	ppb		99
95)	2-Methylnaphthalene	11.016	142	212960	28.4116413	ppb		99
100)	Methyl Acetate	3.216	43	255284	66.3199978	ppb	#	71

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 13.D
Acq On : 23 Nov 2015 4:59 pm
Operator : 522
Sample : MS 1x WG831097 L800817-08
Misc : water
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 21:27:33 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

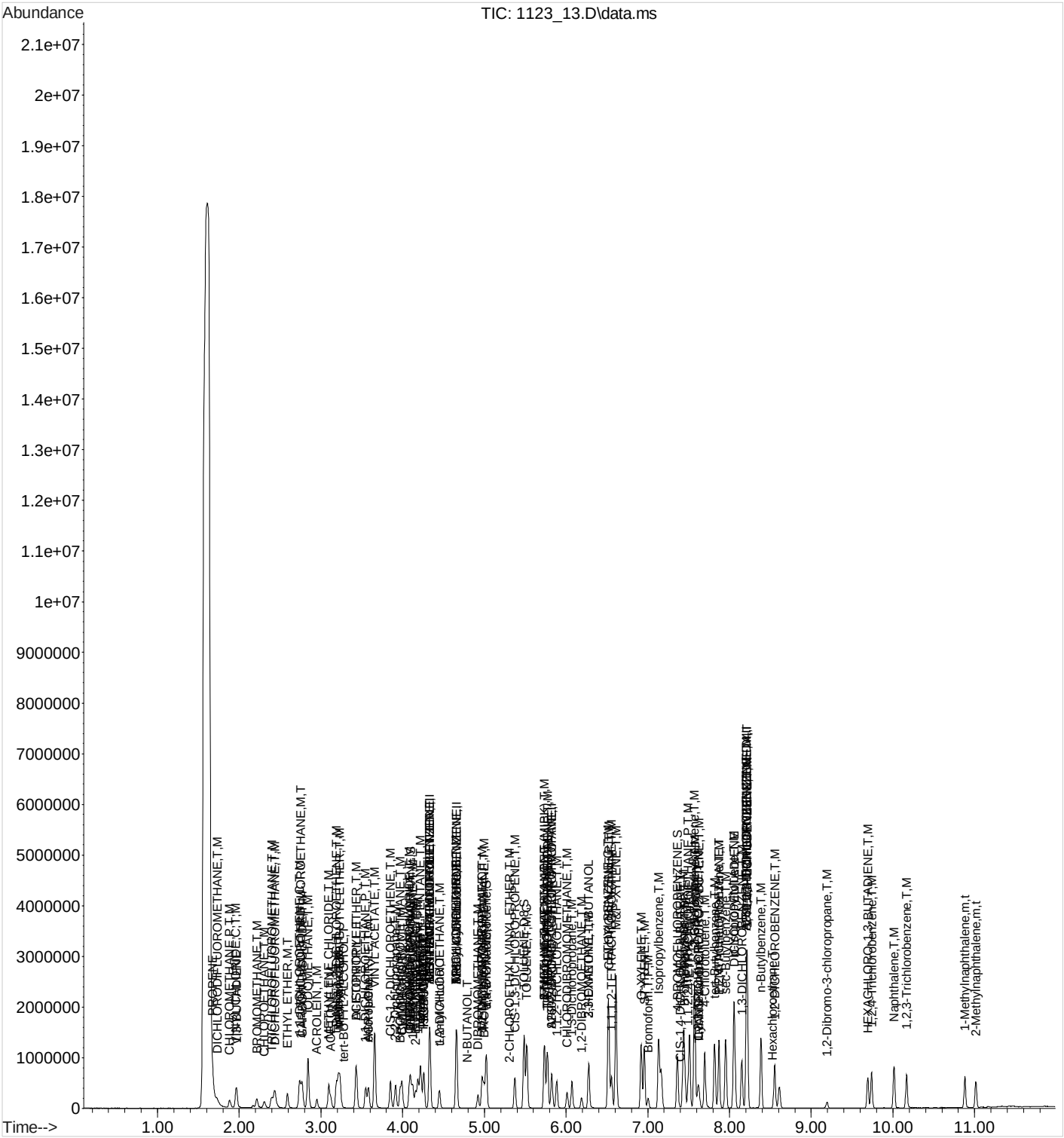
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
101) ACETONITRILE	3.431	41	100832	165.7158350 ppb #	38
103) tert-BUTYL ALCOHOL	3.280	59	2566	2.2710604 ppb #	64
104) chloroprene	3.579	53	268913	21.9883337 ppb #	27
106) PROPIONITRILE	4.254	54	2548	3.4544129 ppb #	1
107) Ethyl Acetate	4.090	43	9731	1.9361444 ppb #	72
108) METHACRYLONITRILE	4.332	67	1024	0.4400567 ppb #	1
109) Cyclohexane	3.991	84	12283	0.7814572 ppb #	7
110) tert-butyl formate	4.225	59	698	4.7012566 ppb #	1
111) ISOBUTANOL	4.258	41	143670	76.9111321 ppb #	1
112) t-Amyl Alcohol	4.454	59	1529	4.4416917 ppb #	20
113) TERT-AMYL METHYL ETHER	4.332	73	12644	0.5180079 ppb #	77
115) N-BUTANOL	4.791	56	1096	7.8307553 ppb	96
116) Methyl Cyclohexane	4.659	83	11394	0.5827932 ppb #	52
117) 2-nitropropane	5.733	43	749117	531.1567986 ppb #	40
118) METHYL METHACRYLATE	4.975	41	107031	19.5947294 ppb #	14
119) 1,4-DIOXANE	5.023	88	4345	80.1971891 ppb #	22
120) n-octane	5.370	85	4486	Below Cal #	32
121) 3,3-DIMETHYL-1-BUTANOL	6.277	57	103513	335.3828196 ppb #	33
123) ETHYL METHACRYLATE	5.733	69	6147	0.7898157 ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.396	53	2113	1.0605152 ppb #	12
125) Cyclohexanone	7.624	55	1147	1.2743635 ppb #	1
126) PENTACHLOROETHANE	7.872	117	23235	6.4393115 ppb #	19
127) Hexachloroethane	8.527	117	1004	0.2153852 ppb #	41

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 13.D
Acq On : 23 Nov 2015 4:59 pm
Operator : 522
Sample : MS 1x WG831097 L800817-08
Misc : water
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 21:27:33 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 14.D
Acq On : 23 Nov 2015 5:18 pm
Operator : 522
Sample : MSD 1x WG831097 L800817-08
Misc : water
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 21:27:55 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.332	168	329749	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	644246	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	118879	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	300951	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.332	168	329749	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	644246	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	118879	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	300951	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.097	111	178434	37.6757964 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 94.19%		
46) a,a,a-Trifluorotoluene	5.026	146	357035	41.0593847 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.65%		
50) TOLUENE-D8	5.486	98	835364	39.3645911 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 98.41%		
68) 4-BROMOFLUOROBENZENE	7.364	95	341400	39.3940735 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.49%		
Target Compounds					Qvalue
3) PROPENE	1.669	41	10118	6.7499720 ppb	94
4) DICHLORODIFLUOROMETHANE	1.730	85	108795	15.5774832 ppb	99
5) CHLOROMETHANE	1.878	50	148155	15.0646971 ppb	100
6) VINYL CHLORIDE	1.955	62	179403	17.3654710 ppb	99
7) 1,3-BUTADIENE	1.965	39	103995	16.2516852 ppb	93
8) BROMOMETHANE	2.213	94	113092	17.6048027 ppb	99
9) CHLOROETHANE	2.303	64	124164	17.9944900 ppb	98
10) TRICHLOROFLUOROMETHANE	2.396	101	214685	20.3503734 ppb	99
11) DICHLOROFLUOROMETHANE	2.435	67	326073	21.7230121 ppb	98
12) ETHYL ETHER	2.589	59	144734	20.1132514 ppb	97
13) ACROLEIN	2.949	56	125199	134.5418488 ppb	99
14) 1,1-DICHLOROETHENE	2.737	61	238094	19.8285689 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.756	101	149480	22.3251694 ppb	98
16) ACETONE	3.119	43	181436	56.9692183 ppb	100
17) IODOMETHANE	2.840	142	960389	96.0814118 ppb	100
18) CARBON DISULFIDE	2.772	76	362054	14.3634549 ppb	99
19) METHYLENE CHLORIDE	3.097	84	166582	20.0868889 ppb	99
20) ACRYLONITRILE	3.579	53	241977	119.9268938 ppb	100
21) n-Hexane	3.213	56	127560	16.1835906 ppb	89
22) TRANS-1,2-DICHLOROETHENE	3.187	96	149361	19.6301734 ppb	98
23) METHYL TERT-BUTYL ETHER	3.232	73	460961	23.0169137 ppb #	80
24) 1,1-DICHLOROETHANE	3.547	63	326708	22.2552951 ppb	100
25) VINYL ACETATE	3.656	43	1695028	131.6304846 ppb	100
26) DI-ISOPROPYL ETHER	3.431	45	622162	22.6855603 ppb	98
27) 2,2-Dichloropropane	3.914	77	254509	23.2486503 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.852	96	176825	21.1074195 ppb	98
29) 2-BUTANONE (MEK)	4.158	43	294079	83.6695323 ppb	97
30) BROMOCHLOROMETHANE	3.968	130	91991	22.3302626 ppb	98
31) TETRAHYDROFURAN	4.094	42	40257	22.1926898 ppb	98
32) CHLOROFORM	3.991	83	300800	22.3950707 ppb	98
34) 1,1,1-TRICHLOROETHANE	4.123	97	234470	23.0434074 ppb	99
35) CARBON TETRACHLORIDE	4.084	119	178576	22.8700156 ppb	99
36) 1,1-Dichloropropene	4.187	75	214060	20.7566085 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 14.D
Acq On : 23 Nov 2015 5:18 pm
Operator : 522
Sample : MSD 1x WG831097 L800817-08
Misc : water
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 21:27:55 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.219	57	716203	21.8013648 ppb		98
38)	HEPTANE	4.258	43	240051	16.2485622 ppb	#	69
39)	BENZENE	4.332	78	708038	21.1008330 ppb		99
40)	1,2-DICHLOROETHANE	4.451	62	222939	21.9238747 ppb		100
42)	TRICHLOROETHENE	4.656	130	149649	21.2563329 ppb		99
43)	1,2-DICHLOROPROPANE	4.975	62	136154	22.6676875 ppb		99
44)	DIBROMOMETHANE	4.920	93	87726	22.2004210 ppb		99
45)	BROMODICHLOROMETHANE	4.997	83	232675	22.7262204 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.309	63	2682	0.9665907 ppb	#	88
48)	CIS-1,3-DICHLOROPROPENE	5.373	75	288108	22.5624384 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.737	43	666193	119.6339239 ppb		99
51)	TOLUENE	5.518	91	756825	21.5474474 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.775	75	259186	23.6202694 ppb		100
54)	1,1,2-TRICHLOROETHANE	5.885	97	135887	22.9851200 ppb		99
55)	TETRACHLOROETHENE	5.769	164	110625	21.6336397 ppb		98
56)	1,3-Dichloropropane	6.071	76	259416	22.6725300 ppb		99
57)	2-HEXANONE	6.277	58	263719	91.6217562 ppb		98
58)	CHLORODIBROMOMETHANE	6.013	129	135684	23.2230234 ppb		100
59)	1,2-DIBROMOETHANE	6.190	107	124393	22.8208845 ppb		96
60)	CHLOROBENZENE	6.524	112	444581	21.9669434 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.557	133	140698	23.0519725 ppb		99
62)	ETHYLBENZENE	6.515	106	255906	22.2284860 ppb		99
63)	M&P-XYLENE	6.611	106	628780	43.7733615 ppb		100
64)	O-XYLENE	6.920	106	301939	22.1494516 ppb		98
65)	STYRENE	6.958	104	501680	22.4509516 ppb		99
66)	Bromoform	7.007	173	72980	24.2592974 ppb		99
67)	Isopropylbenzene	7.132	105	812282	23.1991538 ppb		99
69)	Bromobenzene	7.454	77	374965	21.9499434 ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	7.495	83	173995	24.4036438 ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.614	110	47631	24.5571365 ppb		96
72)	TRANS-1,4-DICHLORO-2-B...	7.630	53	49198	23.8650635 ppb		96
73)	n-Propylbenzene	7.434	91	999487	22.6600776 ppb		99
74)	4-ETHYLTOLUENE	7.511	105	791189	22.1489644 ppb		100
75)	2-Chlorotoluene	7.576	126	180087	22.1760573 ppb		95
76)	4-Chlorotoluene	7.698	91	595649	22.0333801 ppb		99
77)	1,3,5-Trimethylbenzene	7.569	105	682242	23.2119809 ppb		99
78)	tert-Butylbenzene	7.820	119	551087	23.6706695 ppb		99
79)	1,2,4-Trimethylbenzene	7.872	105	666625	22.7709004 ppb		99
80)	sec-Butylbenzene	7.952	105	892747	24.1823711 ppb		99
81)	1,3-DICHLOROBENZENE	8.151	146	321142	22.2158381 ppb		98
82)	p-Isopropyltoluene	8.055	119	712204	24.0593255 ppb		99
83)	DICYCLOPENTADIENE	8.061	66	812325	21.4958943 ppb		100
85)	1,4-DICHLOROBENZENE	8.219	146	326954	21.7831134 ppb		91
86)	1,2,3-TRIMETHYLBENZENE	8.216	105	696465	21.7922932 ppb		100
87)	1,2-DICHLOROBENZENE	8.553	146	299623	22.5663892 ppb		99
88)	n-Butylbenzene	8.386	91	700389	23.5964125 ppb		99
89)	1,2-Dibromo-3-chloropr...	9.196	157	24277	24.9365860 ppb		96
90)	1,2,4-Trichlorobenzene	9.736	180	178524	23.0204302 ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	9.691	225	92208	24.1135792 ppb		98
92)	Naphthalene	10.013	128	440460	24.5475450 ppb		100
93)	1,2,3-Trichlorobenzene	10.167	180	158908	22.8455105 ppb		99
94)	1-Methylnaphthalene	10.881	142	222870	24.3054994 ppb		99
95)	2-Methylnaphthalene	11.013	142	190479	25.2588704 ppb		98
100)	Methyl Acetate	3.216	43	248691	61.5989231 ppb	#	72

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 14.D
Acq On : 23 Nov 2015 5:18 pm
Operator : 522
Sample : MSD 1x WG831097 L800817-08
Misc : water
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 21:27:55 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

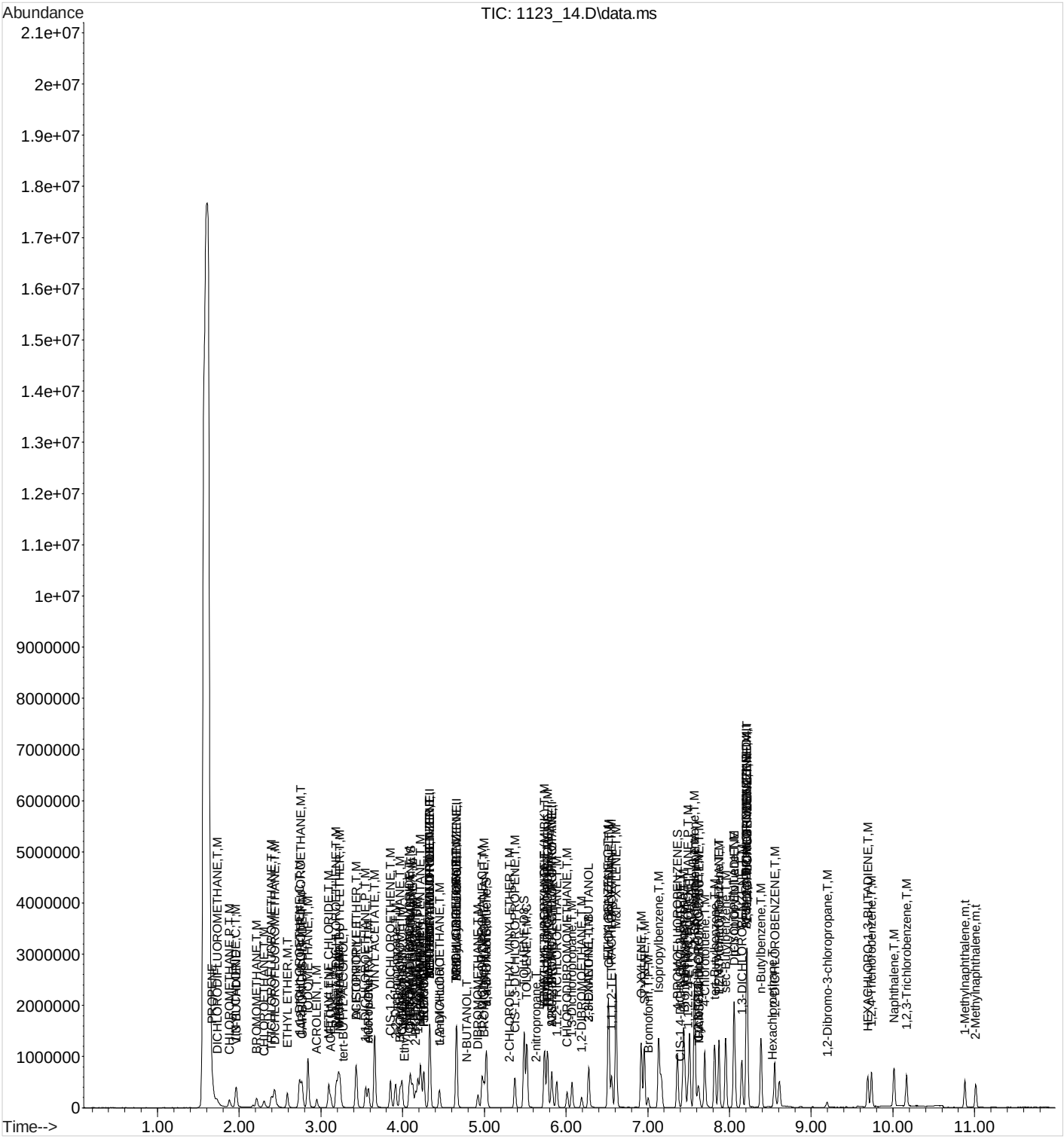
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
101) ACETONITRILE	3.431	41	97593	152.9242784 ppb #	38
103) tert-BUTYL ALCOHOL	3.274	59	503	0.4244555 ppb #	64
104) chloroprene	3.579	53	241977	18.8645632 ppb #	27
106) PROPIONITRILE	4.258	54	2281	2.9484397 ppb #	1
107) Ethyl Acetate	4.023	43	1917	0.3636592 ppb #	67
108) METHACRYLONITRILE	4.332	67	1204	0.4933184 ppb #	1
109) Cyclohexane	3.991	84	12786	0.7755818 ppb #	3
110) tert-butyl formate	4.213	59	679	4.3603410 ppb #	1
111) ISOBUTANOL	4.258	41	138265	70.5712019 ppb #	1
112) t-Amyl Alcohol	4.454	59	1134	3.1408422 ppb #	20
113) TERT-AMYL METHYL ETHER	4.332	73	12577	0.4912709 ppb #	74
115) N-BUTANOL	4.785	56	1065	7.2693883 ppb #	89
116) Methyl Cyclohexane	4.660	83	10861	0.5307172 ppb #	53
117) 2-nitropropane	5.634	43	543	0.3678139 ppb #	16
119) 1,4-DIOXANE	5.026	88	4785	84.3735779 ppb #	41
120) n-octane	5.373	85	3881	Below Cal #	32
121) 3,3-DIMETHYL-1-BUTANOL	6.277	57	88738	274.6696730 ppb #	29
123) ETHYL METHACRYLATE	5.733	69	5206	0.6508858 ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.399	53	2185	1.0671045 ppb #	12
125) Cyclohexanone	7.624	55	1052	1.1373229 ppb #	1
126) PENTACHLOROETHANE	7.872	117	24215	6.5300928 ppb #	19
127) Hexachloroethane	8.528	117	1201	0.2507051 ppb #	82

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 14.D
Acq On : 23 Nov 2015 5:18 pm
Operator : 522
Sample : MSD 1x WG831097 L800817-08
Misc : water
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 23 21:27:55 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 30.D
Acq On : 23 Nov 2015 10:27 pm
Operator : 522
Sample : L801109-01 1x WG831097 V8260
Misc : water
ALS Vial : 29 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Feb 02 11:22:17 2016
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

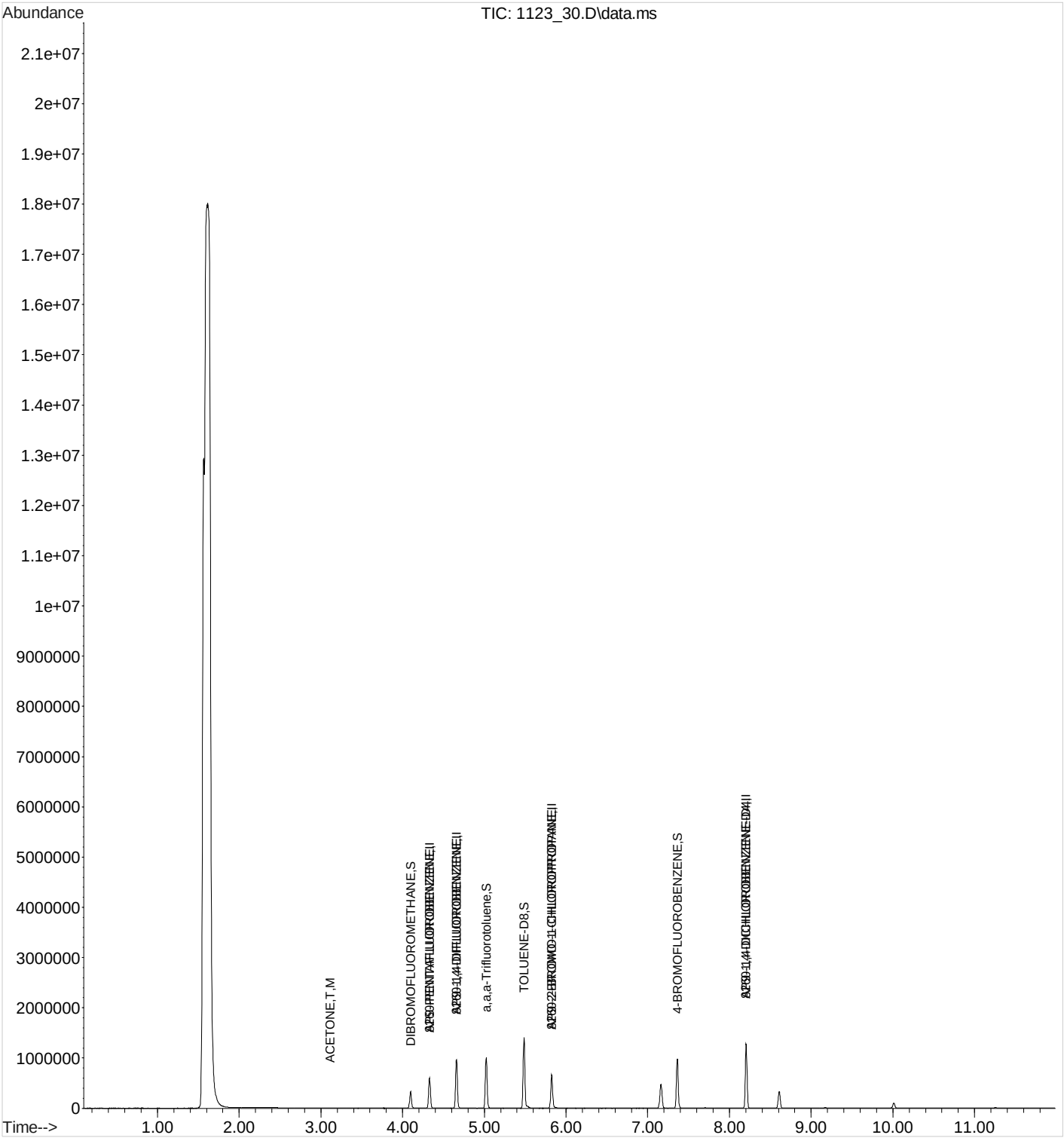
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.329	168	301209	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	594943	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.824	79	112266	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.203	152	283088	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.329	168	301209	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	594943	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.824	79	112267	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.203	152	283088	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.097	111	167244	38.6590270	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 96.65%			
46) a,a,a-Trifluorotoluene	5.023	146	319112	39.7393859	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 99.35%			
50) TOLUENE-D8	5.486	98	780907	39.8479218	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 99.62%			
68) 4-BROMOFLUOROBENZENE	7.361	95	326215	39.8591648	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 99.65%			
Target Compounds						Qvalue
16) ACETONE	3.116	43	2852	0.9803516	ppb	93

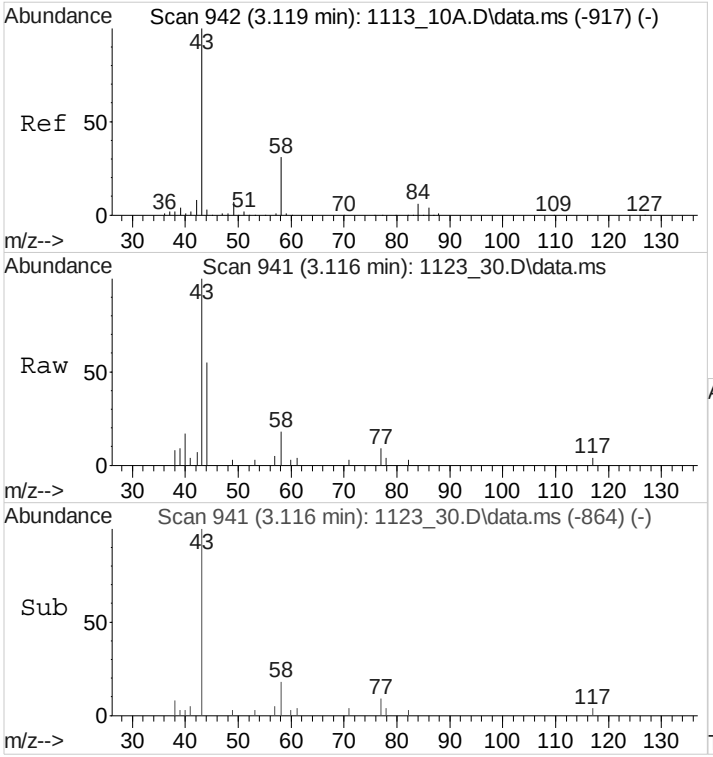
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 30.D
Acq On : 23 Nov 2015 10:27 pm
Operator : 522
Sample : L801109-01 1x WG831097 V8260
Misc : water
ALS Vial : 29 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Feb 02 11:22:17 2016
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

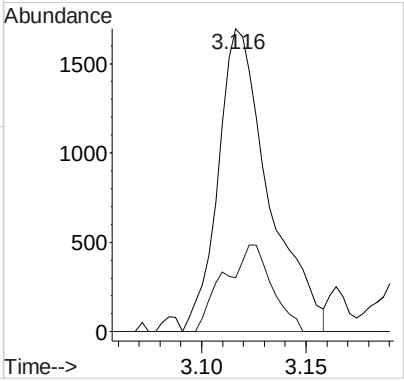




#16
ACETONE
Concen: 0.9803516 ppb
RT: 3.116 min Scan# 941
Delta R.T. -0.003 min
Lab File: 1123 30.D
Acq: 23 Nov 2015 10:27 pm

Tgt Ion: 43 Resp: 2852

Ion	Ratio	Lower	Upper
43	100		
58	27.2	24.7	37.1



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 31.D
Acq On : 23 Nov 2015 10:46 pm
Operator : 522
Sample : L801109-02 1x WG831097 V8260
Misc : water
ALS Vial : 30 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Feb 02 11:23:19 2016
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

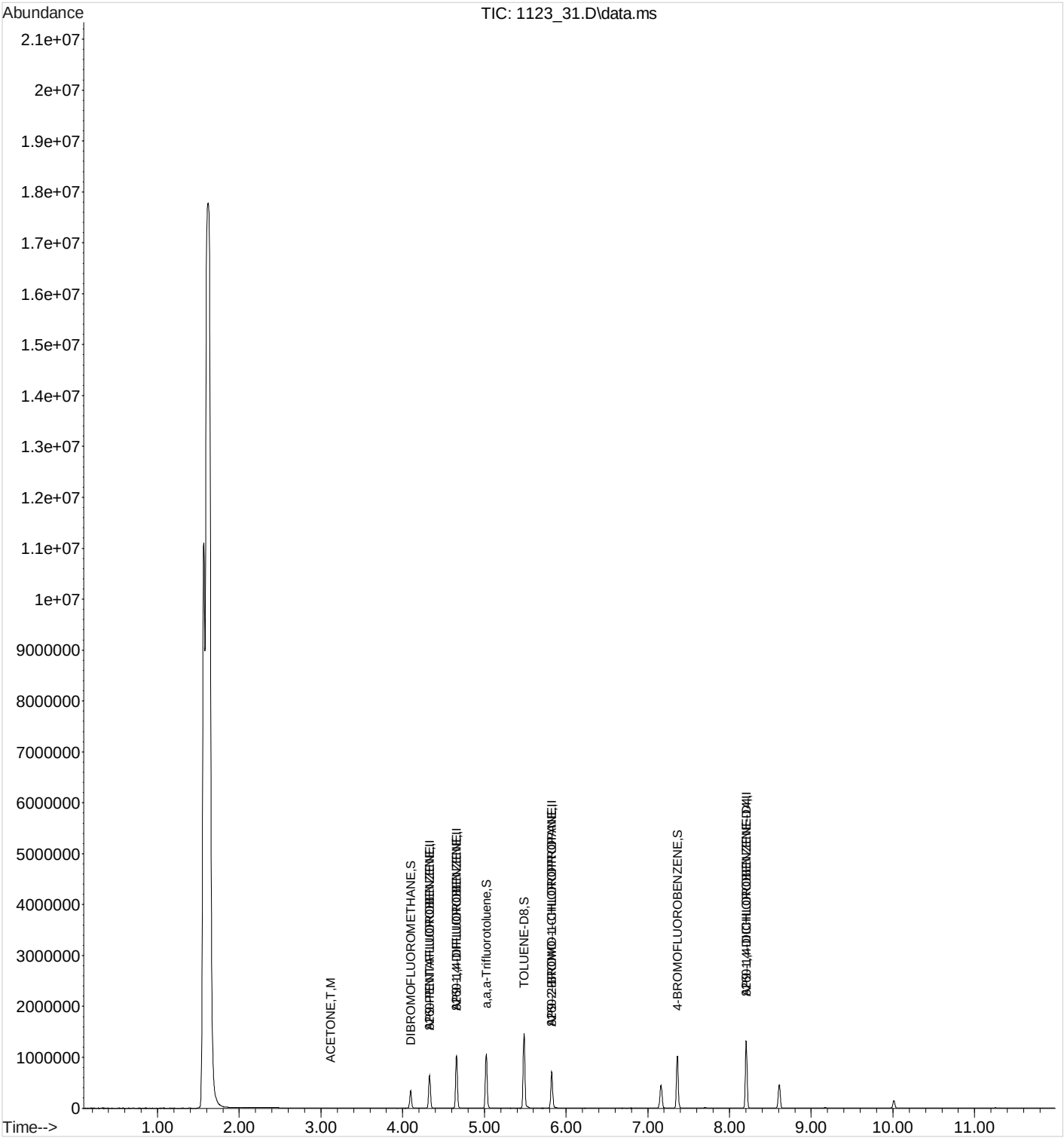
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.328	168	322056	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	631388	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.824	79	118473	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	292993	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.328	168	322056	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	631388	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.824	79	118473	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	292993	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.097	111	176485	38.1544082	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 95.39%			
46) a,a,a-Trifluorotoluene	5.023	146	341766	40.1038352	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 100.26%			
50) TOLUENE-D8	5.486	98	833421	40.0728135	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 100.18%			
68) 4-BROMOFLUOROBENZENE	7.360	95	344121	39.8441262	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 99.61%			
Target Compounds						Qvalue
16) ACETONE	3.119	43	3139	1.0091604	ppb	97

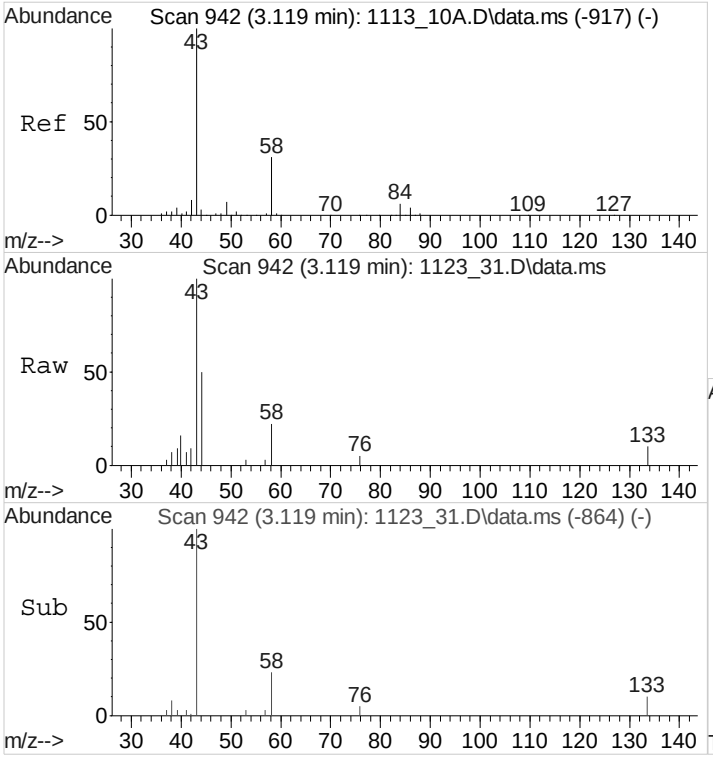
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112315\
Data File : 1123 31.D
Acq On : 23 Nov 2015 10:46 pm
Operator : 522
Sample : L801109-02 1x WG831097 V8260
Misc : water
ALS Vial : 30 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Feb 02 11:23:19 2016
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

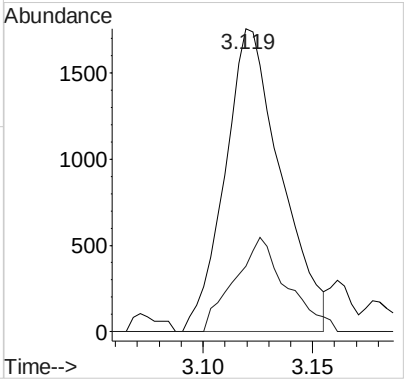




#16
ACETONE
Concen: 1.0091604 ppb
RT: 3.119 min Scan# 942
Delta R.T. 0.000 min
Lab File: 1123 31.D
Acq: 23 Nov 2015 10:46 pm

Tgt Ion: 43 Resp: 3139

Ion	Ratio	Lower	Upper
43	100		
58	29.1	24.7	37.1



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS35
Computer Name : VOCCOMPAY

Released By : Glen Norton
Date Released : 2/2/2016 10:44:36 AM

Run ID : 111615
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1116_01	INSTBLK	V835J21O						1	1	11/16/15 0803	"soil "
2	1116_01T	INSTBLK								1	11/16/15 0803	
3	1116_02	ICV VMS 25 PPB 15K14477	V835J21O						1	1	11/16/15 0824	"soil"
4	1116_02T	ICV VMS 25 ppb 15K14477	V835J21O							1	11/16/15 0824	
5	1116_03	AP9CV 10A PPB 15H20824	V835J21O						1	1	11/16/15 0845	"soil"
6	1116_04	LCS	V835J21O	WG829249	V8260	SS			1	1	11/16/15 1001	"soil"
7	1116_05	LCSD	V835J21O	WG829249	V8260	SS			1	1	11/16/15 1022	"soil"
8	1116_06	LCSAP9	V835J21O						1	1	11/16/15 1043	"soil"
9	1116_07	1PPB	V835J21O						1	1	11/16/15 1104	"soil"
10	1116_08	INSTBLK	V835J21O						1	1	11/16/15 1126	"soil "
11	1116_09	BLANK	V835J21O	WG829249	V8260	SS			1	1	11/16/15 1147	"soil"
12	1116_10	L799701-01	V835J21O	WG829249	V8260UGPA	SS	TAYGEOPA	PA	22.25	22.25	11/16/15 1230	"soil "
13	1116_11	L800946-03	V835J21O	WG829249	V8260BTEXN	SS	SOILTECHK	KY	5	5	11/16/15 1251	"soil "
14	1116_12	MS	V835J21O	WG829249	V8260	SS			5	5	11/16/15 1313	"soil "
15	1116_13	MSD	V835J21O	WG829249	V8260	SS			5	5	11/16/15 1334	"soil "
16	1116_14	INSTBLK	V835J21O						1	1	11/16/15 1355	"soil "
17	1116_15	L800215-02	V835J21O	WG829249	V8260BTEX	SS	EMGHVMD	MI	20.25	20.25	11/16/15 1416	"soil "
18	1116_16	L800844-01	V835J21O	WG829249	V8260BTEX	SS	MARATHONIL	IL	5	5	11/16/15 1438	"soil "
19	1116_17	L800870-06	V835J21O	WG829249	V8260BTEXMN	SS	PETRO	TN	5	5	11/16/15 1459	"soil "
20	1116_18	L800873-01	V835J21O	WG829249	V8260BTEXMN	SS	PETRO	TN	5	5	11/16/15 1521	"soil "
21	1116_19	L800877-01	V835J21O	WG829249	V8260BTEX	SS	SWSNTN	TN	5	5	11/16/15 1542	"soil "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS35
Computer Name : VOCCOMPAY

Released By : Glen Norton
Date Released : 2/2/2016 10:44:36 AM

Run ID : 111615
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
22	1116_20	L800890-01	V835J21O	WG829249	V8260BTEX	SS	TRIELEMAZ	AZ	19.5	19.5	11/16/15 1604	"soil "
23	1116_21	L800946-04	V835J21O	WG829249	V8260BTEXN	SS	SOILTECHK	KY	5	5	11/16/15 1625	"soil "
24	1116_22	L800946-05	V835J21O	WG829249	V8260BTEXN	SS	SOILTECHK	KY	5	5	11/16/15 1646	"soil "
25	1116_23	L800946-06	V835J21O	WG829249	V8260BTEXN	SS	SOILTECHK	KY	5	5	11/16/15 1707	"soil "
26	1116_24	L799257-01	V835J21O	WG829249	V8260	SS	HAHNPOR	OR	10000	10000	11/16/15 1730	"soil "
27	1116_25	L799573-02	V835J21O	WG829249	V8260HEX	SS	STANTECSOH	OH	20000	20000	11/16/15 1751	"soil "
28	1116_26	L799573-07	V835J21O	WG829249	V8260HEX	SS	STANTECSOH	OH	20000	20000	11/16/15 1812	"soil "
29	1116_27	L799574-01	V835J21O	WG829249	V8260HEX	SS	PSICOH	OH	18.75	18.75	11/16/15 1833	"soil "
30	1116_28	L800974-03	V835J21O	WG829249	V8260BTEXMN	SS	WINENVGTN	TN	5	5	11/16/15 1854	"soil "
31	1116_29	L800985-02	V835J21O	WG829249	V8260BTEX	SS	PANGWGA	GA	1	0.74	11/16/15 1915	"soil "
32	1116_30	L800985-03	V835J21O	WG829249	V8260BTEX	SS	PANGWGA	GA	1	0.81	11/16/15 1936	"soil "
33	1116_31	L801059-05	V835J21O	WG829249	V8260BTEX	SS	DELEKTTX	TX	222.5	222.5	11/16/15 1958	"soil "
34	1116_32	DNR L801059-06	V835J21O	WG829249					1	0.83	11/16/15 2019	"soil "
35	1116_33	INSTBLK	V835J21O						1	1	11/16/15 2040	"water"
36	1116_33T	INSTBLK								1	11/16/15 2040	
37	1116_34	ICV VMS 25 PPB	V835J21O						1	1	11/16/15 2101	"water"
38	1116_35	LCS	V835J21O	WG829391	V8260	GW			1	1	11/16/15 2122	"water"
39	1116_36	LCSD	V835J21O	WG829391	V8260	GW			1	1	11/16/15 2143	"water"
40	1116_37	1	V835J21O						1	1	11/16/15 2205	"water"
41	1116_38	INSTBLK	V835J21O						1	1	11/16/15 2226	"water"
42	1116_39	BLANK	V835J21O	WG829391	V8260	GW			1	1	11/16/15 2248	"water"
43	1116_40	MS	V835J21O	WG829391	V8260	GW			1	1	11/17/15 0001	"water"
44	1116_41	MSD	V835J21O	WG829391	V8260	GW			1	1	11/17/15 0022	"water"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

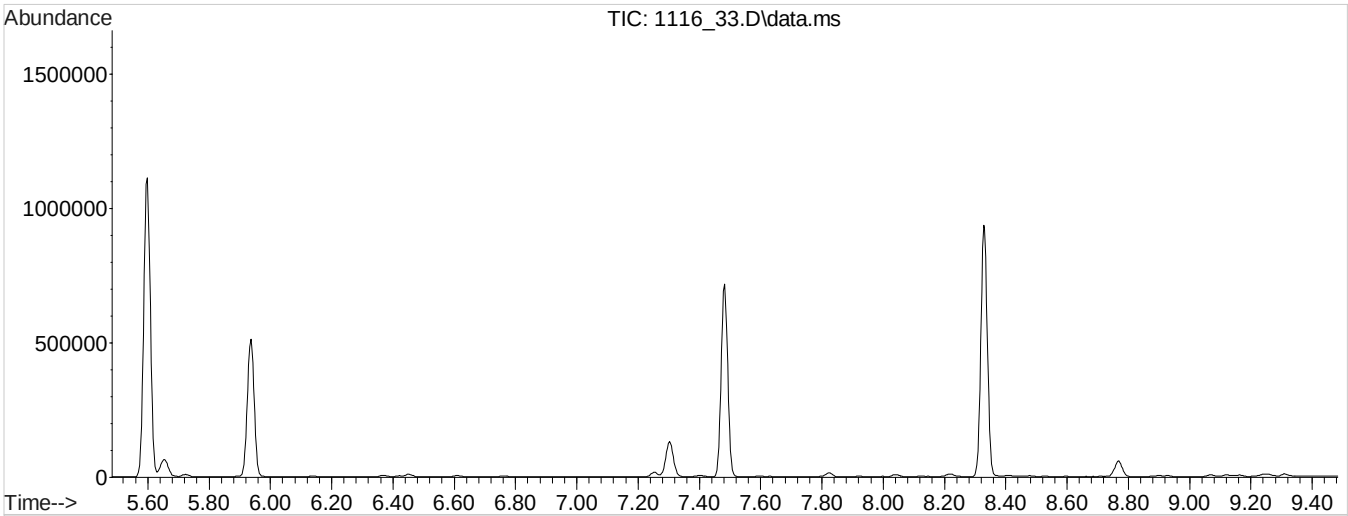
Instrument ID : VOCMS35
Computer Name : VOCCOMPAY
Released By : Glen Norton
Date Released : 2/2/2016 10:44:36 AM
Run ID : 111615
Signature : _____

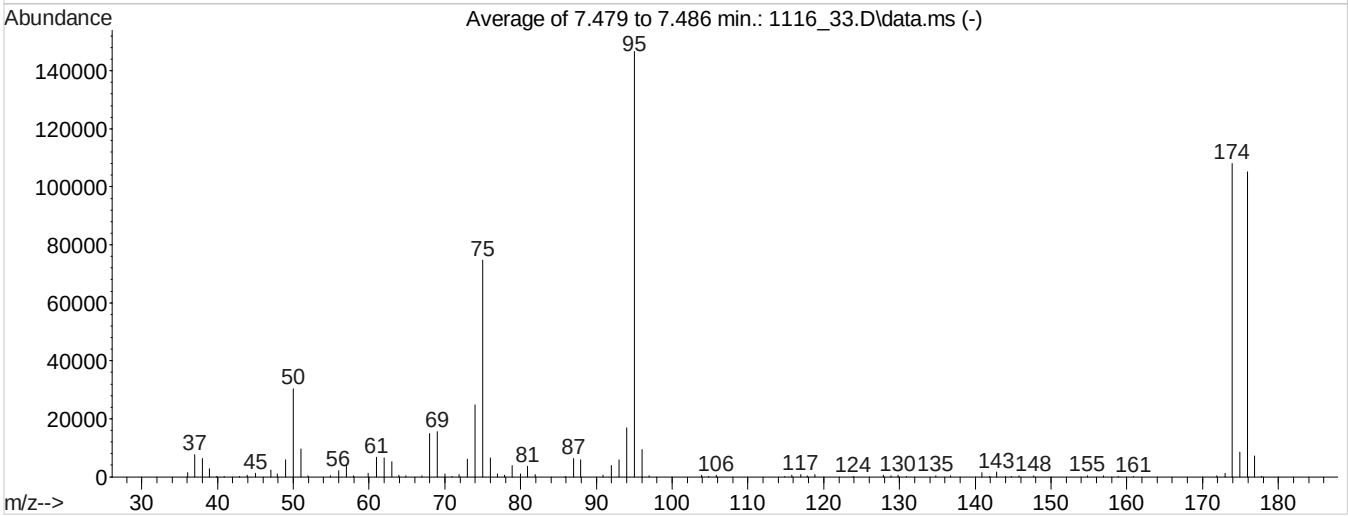
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
45	1116_42	INSTBLK	V835J21O						1	1	11/17/15 0044	"water"
46	1116_43	L801106-04	V835J21O	WG829391	V8260	GW	URSTAZ	NM	1	1	11/17/15 0105	"water"
47	1116_44	L801106-05	V835J21O	WG829391	V8260	GW	URSTAZ	NM	1	1	11/17/15 0126	"water"
48	1116_45	L801106-06	V835J21O	WG829391	V8260	GW	URSTAZ	NM	1	1	11/17/15 0147	"water"
49	1116_46	L801106-07	V835J21O	WG829391	V8260	GW	URSTAZ	NM	1	1	11/17/15 0208	"water"
50	1116_47	L801106-10	V835J21O	WG829391	V8260	GW	URSTAZ	NM	1	1	11/17/15 0229	"water"
51	1116_48	L801106-11	V835J21O	WG829391	V8260	GW	URSTAZ	NM	1	1	11/17/15 0250	"water"
52	1116_49	L801106-12	V835J21O	WG829391	V8260	GW	URSTAZ	NM	1	1	11/17/15 0311	"water"
53	1116_50	L801101-09	V835J21O	WG829391	V8260	GW	URSTAZ	NM	1	1	11/17/15 0333	"water"
54	1116_51	L799749-01	V835J21O	WG829391	V8260BTEXMN	GW	PMENVDALR	AL	50	50	11/17/15 0354	"water"
55	1116_52	L800353-01	V835J21O	WG829391	V8260TPHMO	GW	ANTEAOCK	MO	1	1	11/17/15 0416	"water"
56	1116_53	L800353-02	V835J21O	WG829391	V8260TPHMO	GW	ANTEAOCK	MO	1	1	11/17/15 0436	"water"
57	1116_54	L800817-08	V835J21O	WG829391	V8260	GW	URSTAZ	NM	1	1	11/17/15 0458	"water"
58	1116_55	L801101-01	V835J21O	WG829391	V8260	GW	URSTAZ	NM	1	1	11/17/15 0519	"water"
59	1116_56	L801101-03	V835J21O	WG829391	V8260	GW	URSTAZ	NM	1	1	11/17/15 0540	"water"
60	1116_57	L801101-05	V835J21O	WG829391	V8260	GW	URSTAZ	NM	1	1	11/17/15 0601	"water"
61	1116_58	L801101-07	V835J21O	WG829391	V8260	GW	URSTAZ	NM	1	1	11/17/15 0622	"water"
62	1116_59	L801109-01	V835J21O	WG829391	V8260	GW	URSTAZ	NM	1	1	11/17/15 0644	"water"
63	1116_60	L801109-02	V835J21O	WG829391	V8260	GW	URSTAZ	NM	1	1	11/17/15 0705	"water"
64	1116_61	L801214-01	V835J21O	WG829391	V8260	GW	CRADTX	TX	1	1	11/17/15 0726	"water"

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 33.D
Acq On : 16 Nov 2015 8:40 pm
Operator : 189
Sample : INSTBLK
Misc : soil
ALS Vial : 33 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V835J21O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
Last Update : Wed Oct 21 14:34:58 2015





Spectrum Information: Average of 7.479 to 7.486 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.7	30400	PASS
75	95	30	60	51.0	74773	PASS
95	95	100	100	100.0	146731	PASS
96	95	5	9	6.4	9453	PASS
173	174	0.00	2	1.1	1180	PASS
174	95	50	150	73.7	108128	PASS
175	174	5	9	7.8	8435	PASS
176	174	95	101	97.2	105101	PASS
177	176	5	9	6.8	7108	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 34.D
Acq On : 16 Nov 2015 9:01 pm
Operator : 189
Sample : ICV VMS 25 ppb
Misc : water
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Nov 17 09:31:46 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.428	168	295903	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	518294	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	88524	40.0000000	ppb	#	0.00
84) 8260-1,4-DICHLOROBENZE...	8.328	152	223100	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.428	168	295903	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	518294	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	88524	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.328	152	223100	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.187	111	172493	37.6744321	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 94.19%				
46) a,a,a-Trifluorotoluene	5.132	146	270233	40.4123849	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.03%				
50) TOLUENE-D8	5.598	98	634093	40.6248303	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.56%				
68) 4-BROMOFLUOROBENZENE	7.479	95	231064	37.7443705	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 94.36%				
Target Compounds							Qvalue
3) PROPENE	1.685	41	16133	13.0204731	ppb		90
4) DICHLORODIFLUOROMETHANE	1.730	85	117124	23.6934436	ppb		97
5) CHLOROMETHANE	1.904	50	166000	22.9052853	ppb		98
6) VINYL CHLORIDE	1.988	62	151591	21.0962683	ppb		99
7) 1,3-BUTADIENE	1.997	39	105496	15.3010894	ppb		86
8) BROMOMETHANE	2.251	94	101778	22.5864997	ppb		100
9) CHLOROETHANE	2.354	64	103461	21.8036723	ppb		97
10) TRICHLOROFLUOROMETHANE	2.451	101	200244	21.2572537	ppb		100
11) DICHLOROFLUOROMETHANE	2.486	67	258516	22.2923811	ppb		99
12) ETHYL ETHER	2.650	59	115360	19.8997254	ppb		97
13) ACROLEIN	3.016	56	42388	476.4627614	ppb		97
14) 1,1-DICHLOROETHENE	2.798	61	200558	20.4426954	ppb		96
15) 1,1,2-TRICHLOROTRIFLUO...	2.827	101	112549	24.0782981	ppb	#	96
16) ACETONE	3.197	43	228433	138.7954580	ppb	#	87
17) IODOMETHANE	2.904	142	926360	129.4839936	ppb		95
18) CARBON DISULFIDE	2.833	76	389027	23.9122997	ppb	#	91
19) METHYLENE CHLORIDE	3.164	84	135829	25.0060486	ppb		88
20) ACRYLONITRILE	3.663	53	203123	103.6710066	ppb		98
21) n-Hexane	3.296	56	117990	24.5718594	ppb		78
22) TRANS-1,2-DICHLOROETHENE	3.264	96	123832	25.6052423	ppb		90
23) METHYL TERT-BUTYL ETHER	3.319	73	333239	21.5113941	ppb		91
24) 1,1-DICHLOROETHANE	3.631	63	242905	24.0890679	ppb		100
25) VINYL ACETATE	3.746	43	1348097	114.3894748	ppb		97
26) DI-ISOPROPYL ETHER	3.525	45	491465	22.9838112	ppb		92
27) 2,2-Dichloropropane	4.007	77	143870	20.5004119	ppb		96
28) CIS-1,2-DICHLOROETHENE	3.936	96	137035	25.0295014	ppb		90
29) 2-BUTANONE (MEK)	4.254	43	373277	137.2811386	ppb		99
30) BROMOCHLOROMETHANE	4.055	130	77544	25.0078427	ppb		83
31) TETRAHYDROFURAN	4.187	42	37532	20.2900268	ppb	#	95
32) CHLOROFORM	4.078	83	230204	23.6341294	ppb		99
34) 1,1,1-TRICHLOROETHANE	4.222	97	179445	23.9075422	ppb		95
35) CARBON TETRACHLORIDE	4.180	117	166840	23.3872616	ppb		99
36) 1,1-Dichloropropene	4.283	75	168457	25.4498400	ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.332	57	619629	24.7006780	ppb	#	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 34.D
Acq On : 16 Nov 2015 9:01 pm
Operator : 189
Sample : ICV VMS 25 ppb
Misc : water
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Nov 17 09:31:46 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	HEPTANE	4.364	43	254373	25.6525884 ppb	#	94
39)	BENZENE	4.431	78	507828	25.2148685 ppb		93
40)	1,2-DICHLOROETHANE	4.544	62	169271	20.1832517 ppb	#	94
42)	TRICHLOROETHENE	4.756	130	122189	25.9227159 ppb		98
43)	1,2-DICHLOROPROPANE	5.077	62	100429	24.9354586 ppb		98
44)	DIBROMOMETHANE	5.016	93	76334	22.1095133 ppb		96
45)	BROMODICHLOROMETHANE	5.094	83	179339	22.9108039 ppb		100
47)	2-CHLOROETHYL VINYL ETHER	5.412	63	355693	118.3183095 ppb		100
48)	CIS-1,3-DICHLOROPROPENE	5.476	75	219677	24.7676681 ppb		100
49)	4-METHYL-2-PENTANONE (...	5.849	43	621921	97.3140773 ppb		96
51)	TOLUENE	5.631	91	520990	25.5982764 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.878	75	195964	23.2495133 ppb		99
54)	1,1,2-TRICHLOROETHANE	5.991	97	102149	27.5573795 ppb		100
55)	TETRACHLOROETHENE	5.881	164	89406	28.9772018 ppb		98
56)	1,3-Dichloropropane	6.180	76	193892	27.5506194 ppb		99
57)	2-HEXANONE	6.393	58	266846	129.1259314 ppb		86
58)	CHLORODIBROMOMETHANE	6.116	129	119920	25.7044432 ppb		99
59)	1,2-DIBROMOETHANE	6.299	107	103441	26.0713618 ppb		100
60)	CHLOROBENZENE	6.637	112	326190	28.2017866 ppb		95
61)	1,1,1,2-TETRACHLOROETHANE	6.669	133	114399	25.4029171 ppb		99
62)	ETHYLBENZENE	6.634	106	175597	27.7080930 ppb		98
63)	M&P-XYLENE	6.730	106	432334	55.9350242 ppb		96
64)	O-XYLENE	7.042	106	209628	26.9601695 ppb		95
65)	STYRENE	7.074	104	347779	26.6602485 ppb		94
66)	Bromoform	7.113	173	70779	24.4239597 ppb		98
67)	Isopropylbenzene	7.257	105	553176	27.2979254 ppb		98
69)	Bromobenzene	7.573	77	267596	24.9329966 ppb		95
70)	1,1,2,2-TETRACHLOROETHANE	7.605	83	138218	24.2729287 ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.727	110	37501	22.1892603 ppb		98
72)	TRANS-1,4-DICHLORO-2-B...	7.743	53	39134	18.8084720 ppb		92
73)	n-Propylbenzene	7.560	91	700348	27.0577461 ppb		98
74)	4-ETHYLTOLUENE	7.637	105	578168	27.6175958 ppb		100
75)	2-Chlorotoluene	7.698	126	130128	26.9587323 ppb	#	89
76)	4-Chlorotoluene	7.820	91	431384	26.3733672 ppb		98
77)	1,3,5-Trimethylbenzene	7.698	105	468864	25.9696752 ppb		98
78)	tert-Butylbenzene	7.949	119	382200	26.2374826 ppb		95
79)	1,2,4-Trimethylbenzene	7.997	105	471918	25.8588854 ppb		99
80)	sec-Butylbenzene	8.084	105	612009	26.7559015 ppb		99
81)	1,3-DICHLOROBENZENE	8.277	146	254207	26.2162993 ppb		99
82)	p-Isopropyltoluene	8.187	119	501286	25.9453319 ppb		96
83)	DICYCLOPENTADIENE	8.193	66	610178	24.2334501 ppb		98
85)	1,4-DICHLOROBENZENE	8.341	146	253374	26.7461268 ppb		89
86)	1,2,3-TRIMETHYLBENZENE	8.344	105	485330	26.3963051 ppb		98
87)	1,2-DICHLOROBENZENE	8.679	146	234881	27.7498390 ppb		99
88)	n-Butylbenzene	8.518	91	510569	27.1308604 ppb		100
89)	1,2-Dibromo-3-chloropr...	9.318	157	22764	22.7202817 ppb		91
90)	1,2,4-Trichlorobenzene	9.871	180	157470	27.1910171 ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.833	225	83333	28.4406067 ppb		99
92)	Naphthalene	10.151	128	363977	25.3018788 ppb		99
93)	1,2,3-Trichlorobenzene	10.302	180	144534	26.6643325 ppb		99
94)	1-Methylnaphthalene	11.023	142	214532	24.3922353 ppb		98
95)	2-Methylnaphthalene	11.158	142	178946	24.6099965 ppb		97
100)	Methyl Acetate	3.258	43	9063	2.0950177 ppb	#	100
101)	ACETONITRILE	3.525	41	87468	132.4125507 ppb	#	39
104)	chloroprene	3.663	53	203123	20.4418148 ppb	#	33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 34.D
Acq On : 16 Nov 2015 9:01 pm
Operator : 189
Sample : ICV VMS 25 ppb
Misc : water
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Nov 17 09:31:46 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

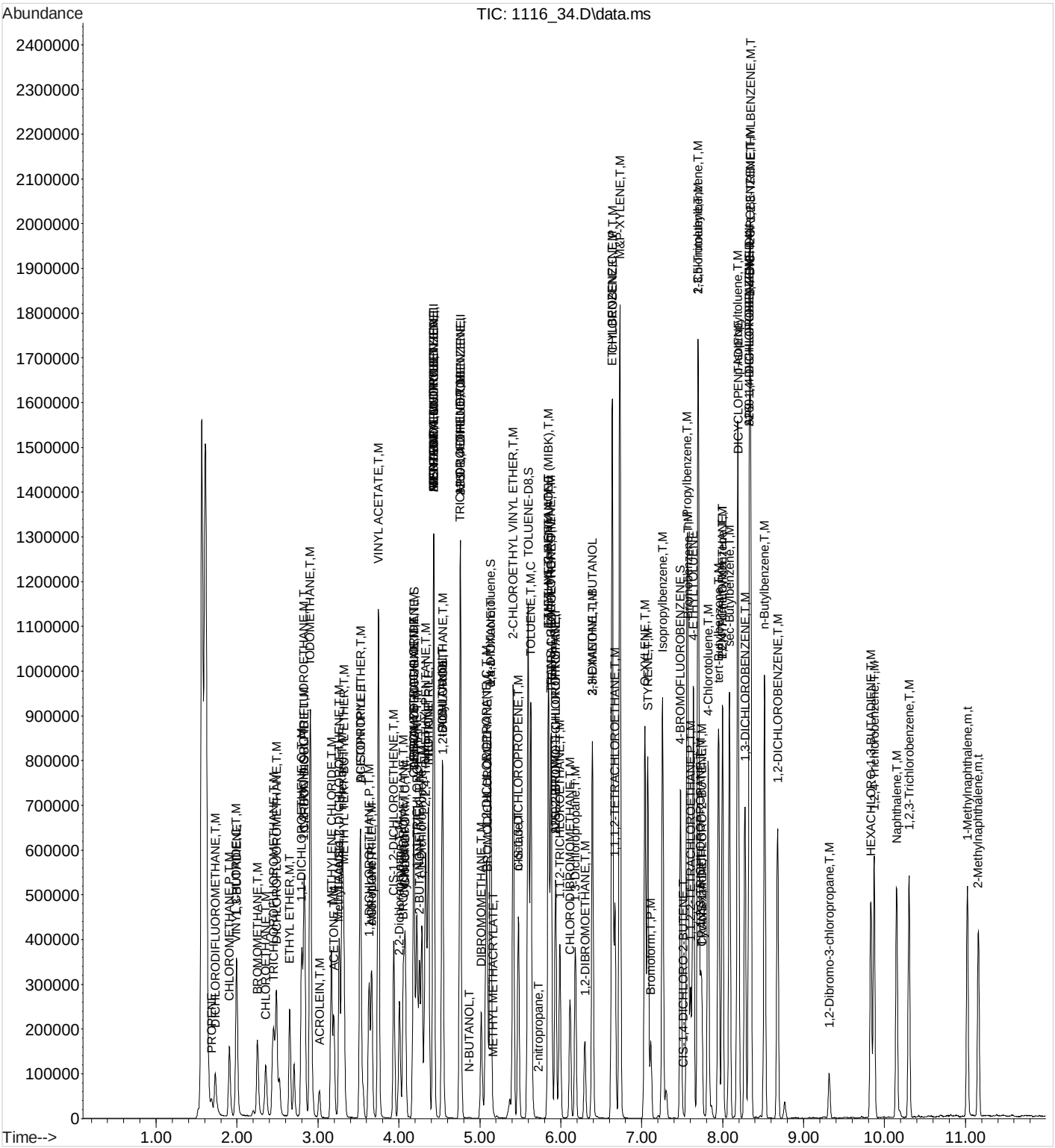
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
106) PROPIONITRILE	4.367	54	2146	2.8486217 ppb #	1
108) METHACRYLONITRILE	4.428	67	1148	0.5316913 ppb #	1
109) Cyclohexane	4.068	56	4404	0.3021625 ppb #	1
111) ISOBUTANOL	4.534	43	18444	46.0129008 ppb #	94
112) t-Amyl Alcohol	4.534	59	14314	26.9143803 ppb #	43
113) TERT-AMYL METHYL ETHER	4.431	73	9571	0.4390512 ppb #	1
115) N-BUTANOL	4.869	56	586	3.4613746 ppb #	71
116) Methyl Cyclohexane	4.759	83	9519	Below Cal #	54
117) 2-nitropropane	5.721	43	848	0.4083858 ppb #	15
118) METHYL METHACRYLATE	5.161	41	2431	0.4106313 ppb #	20
119) 1,4-DIOXANE	5.132	88	3311	67.5131657 ppb #	1
120) n-octane	5.476	85	2895	0.6371397 ppb #	27
121) 3,3-DIMETHYL-1-BUTANOL	6.393	57	89644	115.8427043 ppb #	53
123) ETHYL METHACRYLATE	5.849	69	3672	0.6551367 ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.515	53	1659	0.9109823 ppb #	37
125) Cyclohexanone	7.743	55	981	2.7408717 ppb #	1
126) PENTACHLOROETHANE	7.997	117	16675	5.6697929 ppb #	17

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 34.D
Acq On : 16 Nov 2015 9:01 pm
Operator : 189
Sample : ICV VMS 25 ppb
Misc : water
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Nov 17 09:31:46 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 35.D
Acq On : 16 Nov 2015 9:22 pm
Operator : 189
Sample : LCS 1x WG829391
Misc : water
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Nov 17 09:31:51 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.428	168	291743	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	506569	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	86892	40.0000000	ppb	#	0.00
84) 8260-1,4-DICHLOROBENZE...	8.328	152	214080	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.428	168	291743	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	506569	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	86892	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.328	152	214080	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.184	111	168254	37.2725890	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 93.18%				
46) a,a,a-Trifluorotoluene	5.132	146	264489	40.4688893	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.17%				
50) TOLUENE-D8	5.595	98	619467	40.6063870	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.52%				
68) 4-BROMOFLUOROBENZENE	7.483	95	226305	37.6612981	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 94.15%				
Target Compounds							Qvalue
3) PROPENE	1.682	41	13568	10.9226407	ppb		95
4) DICHLORODIFLUOROMETHANE	1.727	85	110773	22.7282047	ppb		98
5) CHLOROMETHANE	1.901	50	163630	22.9002103	ppb		99
6) VINYL CHLORIDE	1.984	62	157623	22.2484999	ppb		100
7) 1,3-BUTADIENE	1.994	39	123385	18.1508785	ppb		87
8) BROMOMETHANE	2.248	94	103479	23.2914307	ppb		100
9) CHLOROETHANE	2.351	64	100914	21.5701577	ppb		99
10) TRICHLOROFLUOROMETHANE	2.447	101	203198	21.8784221	ppb		100
11) DICHLOROFLUOROMETHANE	2.483	67	260540	22.7872734	ppb		100
12) ETHYL ETHER	2.650	59	116780	20.4319224	ppb		98
13) ACROLEIN	3.017	56	35831	405.2576152	ppb		98
14) 1,1-DICHLOROETHENE	2.795	61	207022	21.4024550	ppb		96
15) 1,1,2-TRICHLOROTRIFLUO...	2.824	101	113789	24.6906971	ppb	#	96
16) ACETONE	3.193	43	229972	141.7689972	ppb	#	88
17) IODOMETHANE	2.901	142	964313	136.7109298	ppb		96
18) CARBON DISULFIDE	2.830	76	412857	25.7389115	ppb	#	91
19) METHYLENE CHLORIDE	3.161	84	146712	27.3947366	ppb		89
20) ACRYLONITRILE	3.660	53	199394	103.2188991	ppb		98
21) n-Hexane	3.296	56	127698	26.9727880	ppb		79
22) TRANS-1,2-DICHLOROETHENE	3.261	96	129471	27.1529756	ppb		92
23) METHYL TERT-BUTYL ETHER	3.316	73	352611	23.0864691	ppb		89
24) 1,1-DICHLOROETHANE	3.631	63	245144	24.6577664	ppb		99
25) VINYL ACETATE	3.746	43	1399265	120.4242136	ppb		97
26) DI-ISOPROPYL ETHER	3.521	45	499613	23.6980223	ppb		92
27) 2,2-Dichloropropane	4.007	77	145813	21.0735408	ppb		97
28) CIS-1,2-DICHLOROETHENE	3.936	96	138425	25.6439045	ppb		90
29) 2-BUTANONE (MEK)	4.254	43	364618	136.0086938	ppb		96
30) BROMOCHLOROMETHANE	4.055	130	80145	26.2152127	ppb		81
31) TETRAHYDROFURAN	4.187	42	37414	20.5179649	ppb	#	92
32) CHLOROFORM	4.078	83	235369	24.5089626	ppb		100
34) 1,1,1-TRICHLOROETHANE	4.219	97	182693	24.6873458	ppb		96
35) CARBON TETRACHLORIDE	4.181	117	168643	23.9770879	ppb		97
36) 1,1-Dichloropropene	4.283	75	168225	25.7771830	ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.328	57	639604	25.8605188	ppb	#	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 35.D
Acq On : 16 Nov 2015 9:22 pm
Operator : 189
Sample : LCS 1x WG829391
Misc : water
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Nov 17 09:31:51 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	HEPTANE	4.364	43	257115	26.2988355	ppb	#	94
39)	BENZENE	4.431	78	514590	25.9149473	ppb		93
40)	1,2-DICHLOROETHANE	4.544	62	169286	20.4728613	ppb	#	94
42)	TRICHLOROETHENE	4.756	130	123363	26.7775528	ppb		98
43)	1,2-DICHLOROPROPANE	5.078	62	101979	25.9063687	ppb		99
44)	DIBROMOMETHANE	5.016	93	76781	22.7537246	ppb		97
45)	BROMODICHLOROMETHANE	5.090	83	182939	23.9116451	ppb		100
47)	2-CHLOROETHYL VINYL ETHER	5.412	63	383319	130.4591534	ppb		100
48)	CIS-1,3-DICHLOROPROPENE	5.476	75	220300	25.4128047	ppb		99
49)	4-METHYL-2-PENTANONE (...	5.846	43	588695	94.2471806	ppb		95
51)	TOLUENE	5.631	91	531003	26.6941370	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.878	75	195249	23.7008522	ppb		99
54)	1,1,2-TRICHLOROETHANE	5.991	97	102286	28.1126140	ppb		99
55)	TETRACHLOROETHENE	5.881	164	90895	30.0131107	ppb		98
56)	1,3-Dichloropropane	6.180	76	192227	27.8270457	ppb		100
57)	2-HEXANONE	6.393	58	252304	124.3821736	ppb		86
58)	CHLORODIBROMOMETHANE	6.116	129	120411	26.2944433	ppb		99
59)	1,2-DIBROMOETHANE	6.299	107	104692	26.8822576	ppb		100
60)	CHLOROBENZENE	6.637	112	329423	29.0162399	ppb		95
61)	1,1,1,2-TETRACHLOROETHANE	6.669	133	117183	26.5098464	ppb		99
62)	ETHYLBENZENE	6.634	106	176390	28.3559851	ppb		98
63)	M&P-XYLENE	6.730	106	445670	58.7433996	ppb		96
64)	O-XYLENE	7.039	106	208851	27.3647272	ppb		97
65)	STYRENE	7.074	104	355488	27.7630401	ppb		94
66)	Bromoform	7.113	173	71339	25.0795595	ppb		98
67)	Isopropylbenzene	7.258	105	564686	28.3892925	ppb		98
69)	Bromobenzene	7.573	77	275488	26.1504268	ppb		95
70)	1,1,2,2-TETRACHLOROETHANE	7.605	83	140122	25.0694692	ppb	#	99
71)	1,2,3-TRICHLOROPROPANE	7.727	110	38823	23.4029338	ppb		99
72)	TRANS-1,4-DICHLORO-2-B...	7.743	53	40996	20.0734488	ppb		93
73)	n-Propylbenzene	7.560	91	720995	28.3786162	ppb		97
74)	4-ETHYLTOLUENE	7.637	105	576739	28.0667660	ppb		100
75)	2-Chlorotoluene	7.698	126	132337	27.9313053	ppb		90
76)	4-Chlorotoluene	7.820	91	444549	27.6886908	ppb		98
77)	1,3,5-Trimethylbenzene	7.698	105	480630	27.1213773	ppb		99
78)	tert-Butylbenzene	7.949	119	384159	26.8672817	ppb		96
79)	1,2,4-Trimethylbenzene	8.000	105	474512	26.4893740	ppb		98
80)	sec-Butylbenzene	8.084	105	621702	27.6901482	ppb		100
81)	1,3-DICHLOROBENZENE	8.277	146	254280	26.7163620	ppb		99
82)	p-Isopropyltoluene	8.187	119	512451	27.0213620	ppb		96
83)	DICYCLOPENTADIENE	8.193	66	609388	24.6566368	ppb		99
85)	1,4-DICHLOROBENZENE	8.341	146	257141	28.2874405	ppb		87
86)	1,2,3-TRIMETHYLBENZENE	8.344	105	488216	27.6720596	ppb		99
87)	1,2-DICHLOROBENZENE	8.679	146	245122	30.1799382	ppb		98
88)	n-Butylbenzene	8.518	91	514077	28.4682501	ppb		99
89)	1,2-Dibromo-3-chloropr...	9.319	157	22760	23.6734125	ppb		90
90)	1,2,4-Trichlorobenzene	9.872	180	162115	29.1725438	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.833	225	86036	30.6002887	ppb		99
92)	Naphthalene	10.151	128	366200	26.5289856	ppb		100
93)	1,2,3-Trichlorobenzene	10.302	180	149820	28.8040769	ppb		98
94)	1-Methylnaphthalene	11.026	142	220025	26.0708399	ppb		97
95)	2-Methylnaphthalene	11.161	142	186406	26.7160912	ppb		98
98)	Bromoethane	2.994	108	640	0.1411353	ppb	#	1
100)	Methyl Acetate	3.254	43	13542	3.1750272	ppb	#	97
101)	ACETONITRILE	3.525	41	88742	136.2567706	ppb	#	39

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 35.D
Acq On : 16 Nov 2015 9:22 pm
Operator : 189
Sample : LCS 1x WG829391
Misc : water
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Nov 17 09:31:51 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

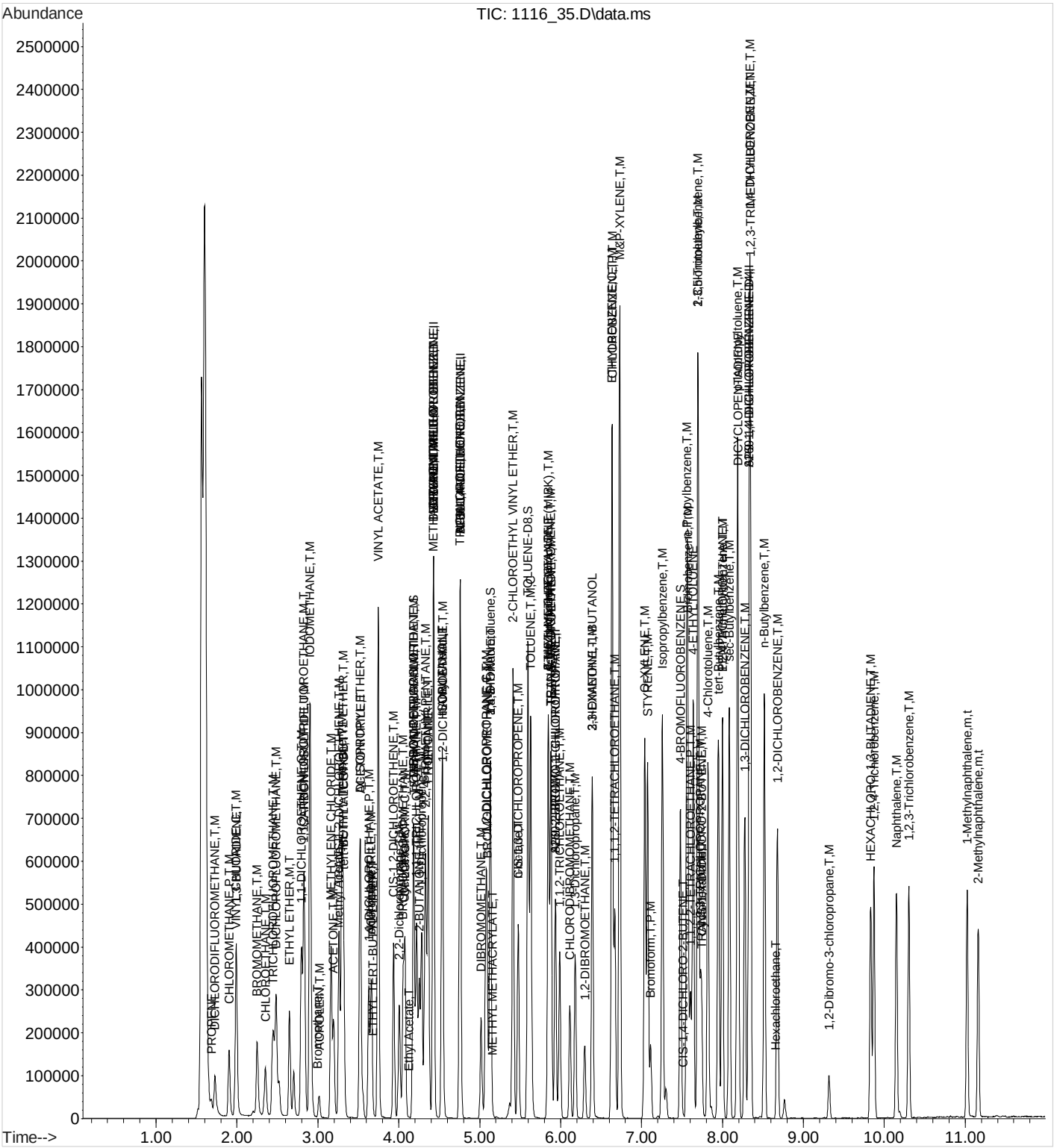
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
103) tert-BUTYL ALCOHOL	3.319	59	1100	1.5531304	ppb #	60
104) chloroprene	3.660	53	199394	20.3526684	ppb #	33
105) ETHYL TERT-BUTYL ETHER	3.679	59	5088	0.2604569	ppb #	41
106) PROPIONITRILE	4.361	54	1899	2.5566951	ppb #	1
107) Ethyl Acetate	4.123	43	1197	0.2194179	ppb #	70
108) METHACRYLONITRILE	4.425	67	942	0.4425043	ppb #	1
109) Cyclohexane	4.068	56	2784	0.1937365	ppb #	1
111) ISOBUTANOL	4.534	43	18739	47.4154455	ppb #	95
112) t-Amyl Alcohol	4.534	59	16006	30.5249603	ppb #	42
113) TERT-AMYL METHYL ETHER	4.431	73	9385	0.4366576	ppb #	1
115) N-BUTANOL	4.759	56	11346	68.5695552	ppb #	30
116) Methyl Cyclohexane	4.759	83	9260	Below Cal	#	48
117) 2-nitropropane	5.846	43	588695	290.0699549	ppb #	38
118) METHYL METHACRYLATE	5.158	41	1980	0.3421920	ppb #	20
119) 1,4-DIOXANE	5.132	88	3559	74.2497255	ppb #	1
120) n-octane	5.476	85	2967	0.6680996	ppb #	27
121) 3,3-DIMETHYL-1-BUTANOL	6.393	57	84121	111.2216822	ppb #	54
123) ETHYL METHACRYLATE	5.846	69	3935	0.7152456	ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.515	53	1644	0.9197009	ppb #	39
125) Cyclohexanone	7.740	55	787	2.2401426	ppb #	1
126) PENTACHLOROETHANE	8.000	117	16354	5.6650870	ppb #	13
127) Hexachloroethane	8.656	117	874	0.2375379	ppb #	21

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 35.D
Acq On : 16 Nov 2015 9:22 pm
Operator : 189
Sample : LCS 1x WG829391
Misc : water
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Nov 17 09:31:51 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 36.D
Acq On : 16 Nov 2015 9:43 pm
Operator : 189
Sample : LCSD 1x WG829391
Misc : water
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Nov 17 09:31:56 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.428	168	300487	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	526748	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	90489	40.0000000	ppb	#	0.00
84) 8260-1,4-DICHLOROBENZE...	8.328	152	225475	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.428	168	300487	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	526748	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	90489	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.328	152	225475	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.187	111	178527	38.3974892	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 95.99%				
46) a,a,a-Trifluorotoluene	5.132	146	275110	40.4814221	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.20%				
50) TOLUENE-D8	5.598	98	642571	40.5072732	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.27%				
68) 4-BROMOFLUOROBENZENE	7.482	95	232386	37.1359981	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 92.84%				
Target Compounds							Qvalue
3) PROPENE	1.685	41	12436	9.5823268	ppb		95
4) DICHLORODIFLUOROMETHANE	1.730	85	107053	21.3257745	ppb		96
5) CHLOROMETHANE	1.904	50	162682	22.1050143	ppb		99
6) VINYL CHLORIDE	1.987	62	156940	21.5074811	ppb		99
7) 1,3-BUTADIENE	1.997	39	123072	17.5779935	ppb		90
8) BROMOMETHANE	2.251	94	100510	21.9648364	ppb		100
9) CHLOROETHANE	2.354	64	102500	21.2716178	ppb		97
10) TRICHLOROFLUOROMETHANE	2.450	101	195730	20.4610879	ppb		99
11) DICHLOROFLUOROMETHANE	2.486	67	254145	21.5811350	ppb		100
12) ETHYL ETHER	2.650	59	116026	19.7092835	ppb		99
13) ACROLEIN	3.016	56	34912	382.1449957	ppb		97
14) 1,1-DICHLOROETHENE	2.798	61	204129	20.4892734	ppb		96
15) 1,1,2-TRICHLOROTRIFLUO...	2.827	101	110166	23.2089455	ppb		98
16) ACETONE	3.196	43	225147	134.6478138	ppb	#	88
17) IODOMETHANE	2.904	142	943776	129.9059075	ppb		95
18) CARBON DISULFIDE	2.833	76	406594	24.6108292	ppb	#	92
19) METHYLENE CHLORIDE	3.164	84	141938	25.7320822	ppb		89
20) ACRYLONITRILE	3.663	53	202811	101.9326699	ppb		98
21) n-Hexane	3.296	56	122203	25.0609984	ppb		79
22) TRANS-1,2-DICHLOROETHENE	3.264	96	125500	25.5542659	ppb		91
23) METHYL TERT-BUTYL ETHER	3.319	73	346746	22.0418415	ppb		92
24) 1,1-DICHLOROETHANE	3.631	63	240302	23.4673801	ppb		99
25) VINYL ACETATE	3.746	43	1393218	116.4146619	ppb		97
26) DI-ISOPROPYL ETHER	3.524	45	508749	23.4291590	ppb		92
27) 2,2-Dichloropropane	4.007	77	137745	19.3282203	ppb		96
28) CIS-1,2-DICHLOROETHENE	3.939	96	138499	24.9109915	ppb		88
29) 2-BUTANONE (MEK)	4.254	43	361910	131.0701829	ppb		98
30) BROMOCHLOROMETHANE	4.055	130	78629	24.9709153	ppb		82
31) TETRAHYDROFURAN	4.190	42	37100	19.7425415	ppb	#	92
32) CHLOROFORM	4.077	83	229844	23.2371892	ppb		100
34) 1,1,1-TRICHLOROETHANE	4.222	97	177265	23.2568153	ppb		96
35) CARBON TETRACHLORIDE	4.180	117	164581	22.7186526	ppb		100
36) 1,1-Dichloropropene	4.283	75	163555	24.3323189	ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.328	57	611516	24.0053832	ppb	#	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 36.D
Acq On : 16 Nov 2015 9:43 pm
Operator : 189
Sample : LCSD 1x WG829391
Misc : water
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Nov 17 09:31:56 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	HEPTANE	4.364	43	249698	24.7969876	ppb	#	95
39)	BENZENE	4.431	78	504550	24.6699322	ppb		94
40)	1,2-DICHLOROETHANE	4.544	62	166466	19.5459958	ppb	#	93
42)	TRICHLOROETHENE	4.756	130	118821	24.8036092	ppb		96
43)	1,2-DICHLOROPROPANE	5.077	62	101796	24.8692232	ppb		99
44)	DIBROMOMETHANE	5.016	93	75321	21.4659704	ppb		95
45)	BROMODICHLOROMETHANE	5.093	83	179951	22.6200278	ppb		100
47)	2-CHLOROETHYL VINYL ETHER	5.412	63	379220	124.1198258	ppb		100
48)	CIS-1,3-DICHLOROPROPENE	5.476	75	218201	24.2064193	ppb		100
49)	4-METHYL-2-PENTANONE (...	5.849	43	596209	91.7935701	ppb		95
51)	TOLUENE	5.630	91	515365	24.9154964	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.878	75	194006	22.6477999	ppb		99
54)	1,1,2-TRICHLOROETHANE	5.991	97	102808	27.1328834	ppb		99
55)	TETRACHLOROETHENE	5.884	164	85694	27.1709883	ppb		99
56)	1,3-Dichloropropane	6.180	76	192606	26.7735852	ppb		98
57)	2-HEXANONE	6.392	58	256315	121.3366593	ppb		84
58)	CHLORODIBROMOMETHANE	6.116	129	118016	24.7470088	ppb		99
59)	1,2-DIBROMOETHANE	6.299	107	103802	25.5942241	ppb		99
60)	CHLOROBENZENE	6.640	112	320900	27.1419432	ppb		95
61)	1,1,1,2-TETRACHLOROETHANE	6.669	133	114153	24.7978446	ppb		100
62)	ETHYLBENZENE	6.634	106	170206	26.2742090	ppb		99
63)	M&P-XYLENE	6.730	106	423511	53.6036515	ppb		97
64)	O-XYLENE	7.042	106	206872	26.0279690	ppb		96
65)	STYRENE	7.074	104	352797	26.4576315	ppb		93
66)	Bromoform	7.113	173	70244	23.7129795	ppb		99
67)	Isopropylbenzene	7.257	105	545723	26.3453402	ppb		98
69)	Bromobenzene	7.572	77	267789	24.4091600	ppb		95
70)	1,1,2,2-TETRACHLOROETHANE	7.605	83	135854	23.3396988	ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.727	110	37403	21.6506856	ppb		99
72)	TRANS-1,4-DICHLORO-2-B...	7.746	53	40208	18.9050133	ppb		92
73)	n-Propylbenzene	7.563	91	690336	26.0917668	ppb		97
74)	4-ETHYLTOLUENE	7.640	105	557785	26.0653697	ppb		99
75)	2-Chlorotoluene	7.698	126	130044	26.3562896	ppb	#	87
76)	4-Chlorotoluene	7.820	91	428971	25.6563412	ppb		98
77)	1,3,5-Trimethylbenzene	7.698	105	464189	25.1524164	ppb		98
78)	tert-Butylbenzene	7.949	119	376255	25.2684732	ppb		95
79)	1,2,4-Trimethylbenzene	8.000	105	467726	25.0726370	ppb		98
80)	sec-Butylbenzene	8.084	105	602061	25.7494238	ppb		100
81)	1,3-DICHLOROBENZENE	8.277	146	253199	25.5453059	ppb		100
82)	p-Isopropyltoluene	8.187	119	493652	24.9953830	ppb		97
83)	DICYCLOPENTADIENE	8.193	66	589525	22.9047825	ppb		99
85)	1,4-DICHLOROBENZENE	8.341	146	256125	26.7517377	ppb		89
86)	1,2,3-TRIMETHYLBENZENE	8.344	105	485384	26.1211705	ppb		98
87)	1,2-DICHLOROBENZENE	8.679	146	236846	27.6872492	ppb		98
88)	n-Butylbenzene	8.518	91	503564	26.4767683	ppb		99
89)	1,2-Dibromo-3-chloropr...	9.318	157	22701	22.4187450	ppb		88
90)	1,2,4-Trichlorobenzene	9.871	180	162250	27.7212944	ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.833	225	86505	29.2121973	ppb		99
92)	Naphthalene	10.151	128	374966	25.7912205	ppb		100
93)	1,2,3-Trichlorobenzene	10.302	180	149338	27.2603985	ppb		99
94)	1-Methylnaphthalene	11.026	142	225568	25.3768775	ppb		98
95)	2-Methylnaphthalene	11.161	142	188408	25.6383499	ppb		96
100)	Methyl Acetate	3.258	43	13236	3.0129794	ppb	#	97
101)	ACETONITRILE	3.524	41	89743	133.7840131	ppb	#	39
104)	chloroprene	3.663	53	202811	20.0990502	ppb	#	33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 36.D
Acq On : 16 Nov 2015 9:43 pm
Operator : 189
Sample : LCSD 1x WG829391
Misc : water
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Nov 17 09:31:56 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

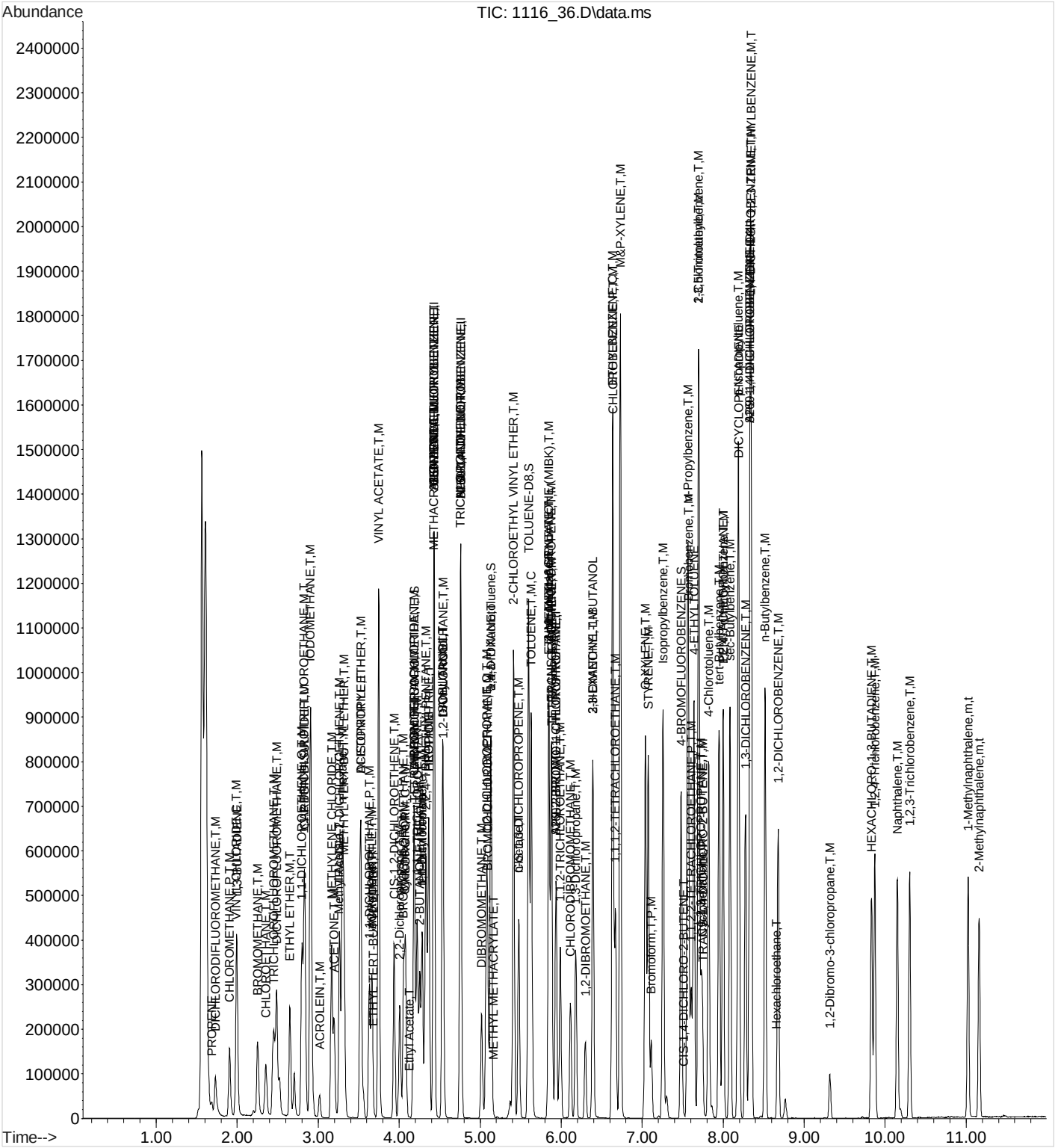
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
105) ETHYL TERT-BUTYL ETHER	3.679	59	4952	0.2461184	ppb	#	41
106) PROPIONITRILE	4.364	54	2053	2.6835994	ppb	#	1
107) Ethyl Acetate	4.126	43	813	0.1446916	ppb	#	70
108) METHACRYLONITRILE	4.425	67	1070	0.4880060	ppb	#	1
109) Cyclohexane	4.071	56	2385	0.1611407	ppb	#	1
110) tert-butyl formate	4.283	59	796	0.1321749	ppb	#	13
111) ISOBUTANOL	4.534	43	20091	49.3571113	ppb	#	94
112) t-Amyl Alcohol	4.534	59	15617	28.9164292	ppb	#	43
113) TERT-AMYL METHYL ETHER	4.431	73	9243	0.4175365	ppb	#	1
115) N-BUTANOL	4.759	56	11931	69.3427582	ppb	#	27
116) Methyl Cyclohexane	4.759	83	8795	Below Cal	#	45	
117) 2-nitropropane	5.849	43	596209	282.5183373	ppb	#	37
118) METHYL METHACRYLATE	5.161	41	1556	0.2586127	ppb	#	20
119) 1,4-DIOXANE	5.132	88	3816	76.5615900	ppb	#	8
120) n-octane	5.476	85	2886	0.6249650	ppb	#	25
121) 3,3-DIMETHYL-1-BUTANOL	6.392	57	83086	105.6449150	ppb	#	51
123) ETHYL METHACRYLATE	5.846	69	4147	0.7238165	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.515	53	1386	0.7445468	ppb	#	36
125) Cyclohexanone	7.740	55	766	2.0936964	ppb	#	1
126) PENTACHLOROETHANE	8.000	117	16338	5.4345738	ppb	#	17
127) Hexachloroethane	8.659	117	740	0.1931245	ppb	#	30

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 36.D
Acq On : 16 Nov 2015 9:43 pm
Operator : 189
Sample : LCSD 1x WG829391
Misc : water
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Nov 17 09:31:56 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 39.D
Acq On : 16 Nov 2015 10:48 pm
Operator : 189
Sample : BLANK 1x WG829391
Misc : water
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Feb 02 10:40:04 2016
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

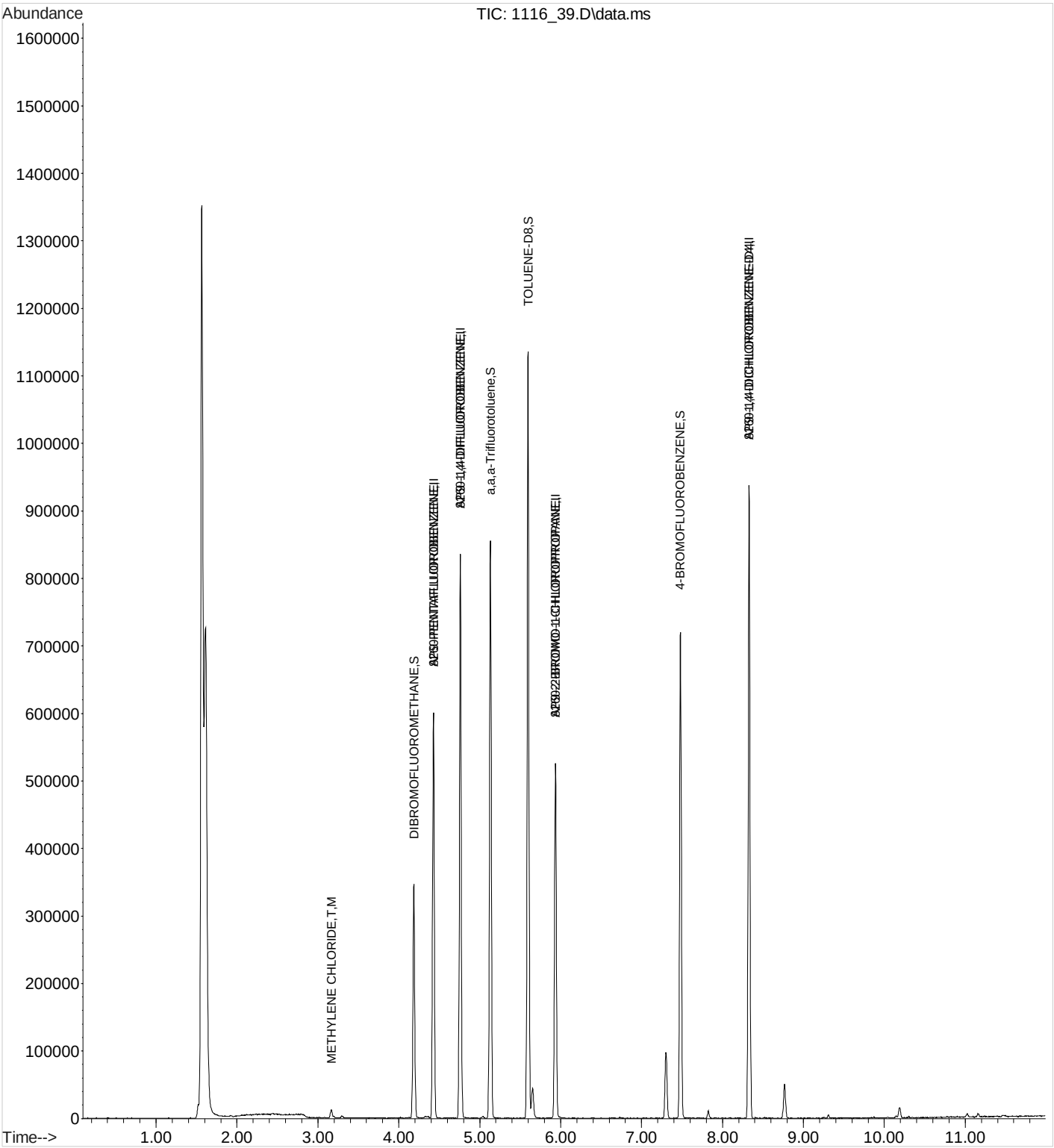
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.428	168	297031	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	520008	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	87741	40.0000000	ppb	# 0.00
84) 8260-1,4-DICHLOROBENZE...	8.328	152	213467	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.428	168	297031	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	520008	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	87741	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.328	152	213467	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.187	111	173873	37.8316234	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 94.58%			
46) a,a,a-Trifluorotoluene	5.132	146	275578	41.0758726	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.69%			
50) TOLUENE-D8	5.598	98	632664	40.3996758	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.00%			
68) 4-BROMOFLUOROBENZENE	7.479	95	228792	37.7067571	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 94.27%			
Target Compounds						Qvalue
19) METHYLENE CHLORIDE	3.168	84	4846	0.8887581	ppb	89

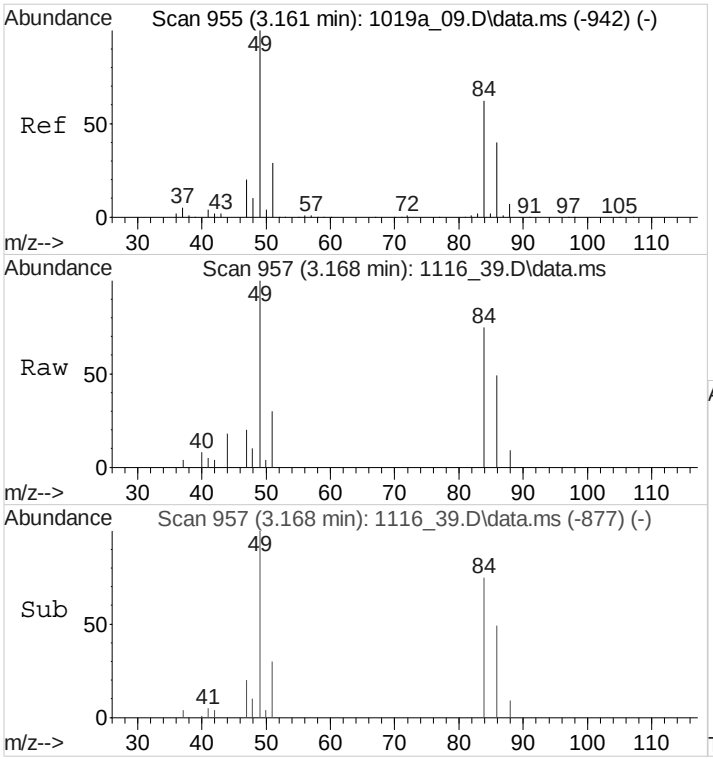
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 39.D
Acq On : 16 Nov 2015 10:48 pm
Operator : 189
Sample : BLANK 1x WG829391
Misc : water
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Feb 02 10:40:04 2016
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

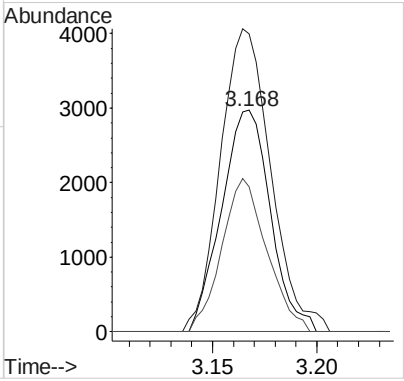




#19
METHYLENE CHLORIDE
Concen: 0.8887581 ppb
RT: 3.168 min Scan# 957
Delta R.T. 0.007 min
Lab File: 1116 39.D
Acq: 16 Nov 2015 10:48 pm

Tgt Ion: 84 Resp: 4846

Ion	Ratio	Lower	Upper
84	100		
49	140.9	129.0	193.6
86	63.6	51.1	76.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 40.D
Acq On : 17 Nov 2015 12:01 am
Operator : 189
Sample : MS 1x WG829391 L801101-09
Misc : water
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Nov 17 09:32:13 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.425	168	332103	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	572982	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.933	79	97859	40.0000000	ppb	#	0.00
84) 8260-1,4-DICHLOROBENZE...	8.328	152	243279	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.425	168	332103	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	572982	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.933	79	97859	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.328	152	243279	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.184	111	194245	37.8008580	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 94.50%				
46) a,a,a-Trifluorotoluene	5.129	146	302350	40.8998084	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.25%				
50) TOLUENE-D8	5.595	98	701977	40.6814746	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.70%				
68) 4-BROMOFLUOROBENZENE	7.479	95	252727	37.3449427	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 93.36%				
Target Compounds							Qvalue
3) PROPENE	1.685	41	15854	11.2449933	ppb		93
4) DICHLORODIFLUOROMETHANE	1.730	85	123576	22.2737322	ppb		97
5) CHLOROMETHANE	1.904	50	173983	21.3900107	ppb		98
6) VINYL CHLORIDE	1.988	62	175451	21.7552781	ppb		99
7) 1,3-BUTADIENE	1.994	39	124991	16.1525715	ppb		89
8) BROMOMETHANE	2.251	94	105729	20.9057481	ppb		100
9) CHLOROETHANE	2.354	64	107404	20.1674041	ppb		99
10) TRICHLOROFLUOROMETHANE	2.451	101	219025	20.7165724	ppb		100
11) DICHLOROFLUOROMETHANE	2.486	67	274801	21.1136788	ppb		99
12) ETHYL ETHER	2.650	59	122235	18.7872832	ppb		97
13) ACROLEIN	3.013	56	107360	1103.8217195	ppb		98
14) 1,1-DICHLOROETHENE	2.798	61	213758	19.4131994	ppb		96
15) 1,1,2-TRICHLOROTRIFLUO...	2.827	101	121507	23.1612511	ppb		97
16) ACETONE	3.190	43	174936	94.0118927	ppb	#	89
17) IODOMETHANE	2.904	142	944589	117.6401975	ppb		98
18) CARBON DISULFIDE	2.833	76	415622	22.7623291	ppb	#	92
19) METHYLENE CHLORIDE	3.161	84	140866	23.1065613	ppb		90
20) ACRYLONITRILE	3.660	53	226992	103.2251051	ppb		99
21) n-Hexane	3.296	56	129027	23.9414246	ppb		76
22) TRANS-1,2-DICHLOROETHENE	3.261	96	129766	23.9074629	ppb		91
23) METHYL TERT-BUTYL ETHER	3.312	73	356091	20.4809596	ppb		90
24) 1,1-DICHLOROETHANE	3.627	63	254811	22.5153282	ppb		100
25) VINYL ACETATE	3.743	43	1531371	115.7768987	ppb		97
26) DI-ISOPROPYL ETHER	3.521	45	513497	21.3965588	ppb		90
27) 2,2-Dichloropropane	4.004	77	149460	18.9755289	ppb		97
28) CIS-1,2-DICHLOROETHENE	3.936	96	143558	23.3627878	ppb		90
29) 2-BUTANONE (MEK)	4.251	43	304585	99.8078551	ppb		99
30) BROMOCHLOROMETHANE	4.052	130	82172	23.6117652	ppb		84
31) TETRAHYDROFURAN	4.184	42	41122	19.8004602	ppb	#	93
32) CHLOROFORM	4.074	83	242631	22.1947164	ppb		100
34) 1,1,1-TRICHLOROETHANE	4.219	97	194693	23.1116246	ppb		95
35) CARBON TETRACHLORIDE	4.177	117	201091	25.1158798	ppb		90
36) 1,1-Dichloropropene	4.280	75	178470	24.0235833	ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.328	57	681579	24.2086131	ppb	#	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 40.D
Acq On : 17 Nov 2015 12:01 am
Operator : 189
Sample : MS 1x WG829391 L801101-09
Misc : water
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Nov 17 09:32:13 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	HEPTANE	4.364	43	263333	23.6614871 ppb	#	92
39)	BENZENE	4.428	78	532250	23.5468222 ppb		93
40)	1,2-DICHLOROETHANE	4.544	62	176917	18.7955359 ppb	#	95
42)	TRICHLOROETHENE	4.756	130	129293	24.8118190 ppb		97
43)	1,2-DICHLOROPROPANE	5.074	62	105936	23.7923310 ppb		100
44)	DIBROMOMETHANE	5.013	93	79768	20.8989789 ppb		95
45)	BROMODICHLOROMETHANE	5.090	83	188346	21.7649256 ppb		100
47)	2-CHLOROETHYL VINYL ETHER	5.412	63	687	0.2067134 ppb	#	50
48)	CIS-1,3-DICHLOROPROPENE	5.473	75	224582	22.9039653 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.846	43	678223	95.9949007 ppb		95
51)	TOLUENE	5.627	91	545840	24.2595029 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.875	75	204681	21.9659658 ppb		98
54)	1,1,2-TRICHLOROETHANE	5.987	97	106055	25.8818432 ppb		99
55)	TETRACHLOROETHENE	5.881	164	94678	27.7586992 ppb		98
56)	1,3-Dichloropropane	6.177	76	203614	26.1721481 ppb		98
57)	2-HEXANONE	6.389	58	242939	106.3433325 ppb		86
58)	CHLORODIBROMOMETHANE	6.113	129	126032	24.4375501 ppb		99
59)	1,2-DIBROMOETHANE	6.296	107	110081	25.0982608 ppb		99
60)	CHLOROBENZENE	6.637	112	337187	26.3716351 ppb		95
61)	1,1,1,2-TETRACHLOROETHANE	6.669	133	119733	24.0511299 ppb		100
62)	ETHYLBENZENE	6.634	106	184830	26.3828837 ppb		98
63)	M&P-XYLENE	6.730	106	454902	53.2405510 ppb		96
64)	O-XYLENE	7.039	106	216511	25.1891521 ppb		97
65)	STYRENE	7.074	104	361916	25.0974084 ppb		93
66)	Bromoform	7.110	173	76840	23.9860792 ppb		98
67)	Isopropylbenzene	7.257	105	593684	26.5021991 ppb		98
69)	Bromobenzene	7.569	77	277724	23.4082274 ppb		95
70)	1,1,2,2-TETRACHLOROETHANE	7.602	83	149097	23.6857280 ppb	#	99
71)	1,2,3-TRICHLOROPROPANE	7.727	110	40881	21.8817344 ppb		98
72)	TRANS-1,4-DICHLORO-2-B...	7.743	53	43131	18.7520632 ppb		91
73)	n-Propylbenzene	7.560	91	743256	25.9762470 ppb		97
74)	4-ETHYLTOLUENE	7.637	105	607461	26.2488617 ppb		100
75)	2-Chlorotoluene	7.698	126	133518	25.0223898 ppb		91
76)	4-Chlorotoluene	7.820	91	450828	24.9328937 ppb		98
77)	1,3,5-Trimethylbenzene	7.695	105	495751	24.8395363 ppb		98
78)	tert-Butylbenzene	7.949	119	407986	25.3359385 ppb		95
79)	1,2,4-Trimethylbenzene	7.997	105	494588	24.5158576 ppb		97
80)	sec-Butylbenzene	8.084	105	657663	26.0091072 ppb		99
81)	1,3-DICHLOROBENZENE	8.274	146	265439	24.7633200 ppb		100
82)	p-Isopropyltoluene	8.183	119	532723	24.9422345 ppb		97
83)	DICYCLOPENTADIENE	8.190	66	641471	23.0460228 ppb		98
85)	1,4-DICHLOROBENZENE	8.341	146	265337	25.6857123 ppb		93
86)	1,2,3-TRIMETHYLBENZENE	8.344	105	503873	25.1317099 ppb		98
87)	1,2-DICHLOROBENZENE	8.679	146	246688	26.7273286 ppb		98
88)	n-Butylbenzene	8.518	91	548104	26.7095791 ppb		99
89)	1,2-Dibromo-3-chloropr...	9.315	157	24814	22.7120775 ppb		91
90)	1,2,4-Trichlorobenzene	9.872	180	163501	25.8906520 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.830	225	87192	27.2893648 ppb		98
92)	Naphthalene	10.148	128	381931	24.3477419 ppb		100
93)	1,2,3-Trichlorobenzene	10.302	180	147957	25.0317469 ppb		100
94)	1-Methylnaphthalene	11.023	142	217753	22.7048488 ppb		97
95)	2-Methylnaphthalene	11.161	142	184035	23.2105232 ppb		97
99)	2-PROPANOL	3.084	45	877	1.8913064 ppb	#	16
100)	Methyl Acetate	3.254	43	9390	1.9340063 ppb	#	99
101)	ACETONITRILE	3.521	41	79657	107.4435802 ppb	#	38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 40.D
Acq On : 17 Nov 2015 12:01 am
Operator : 189
Sample : MS 1x WG829391 L801101-09
Misc : water
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Nov 17 09:32:13 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

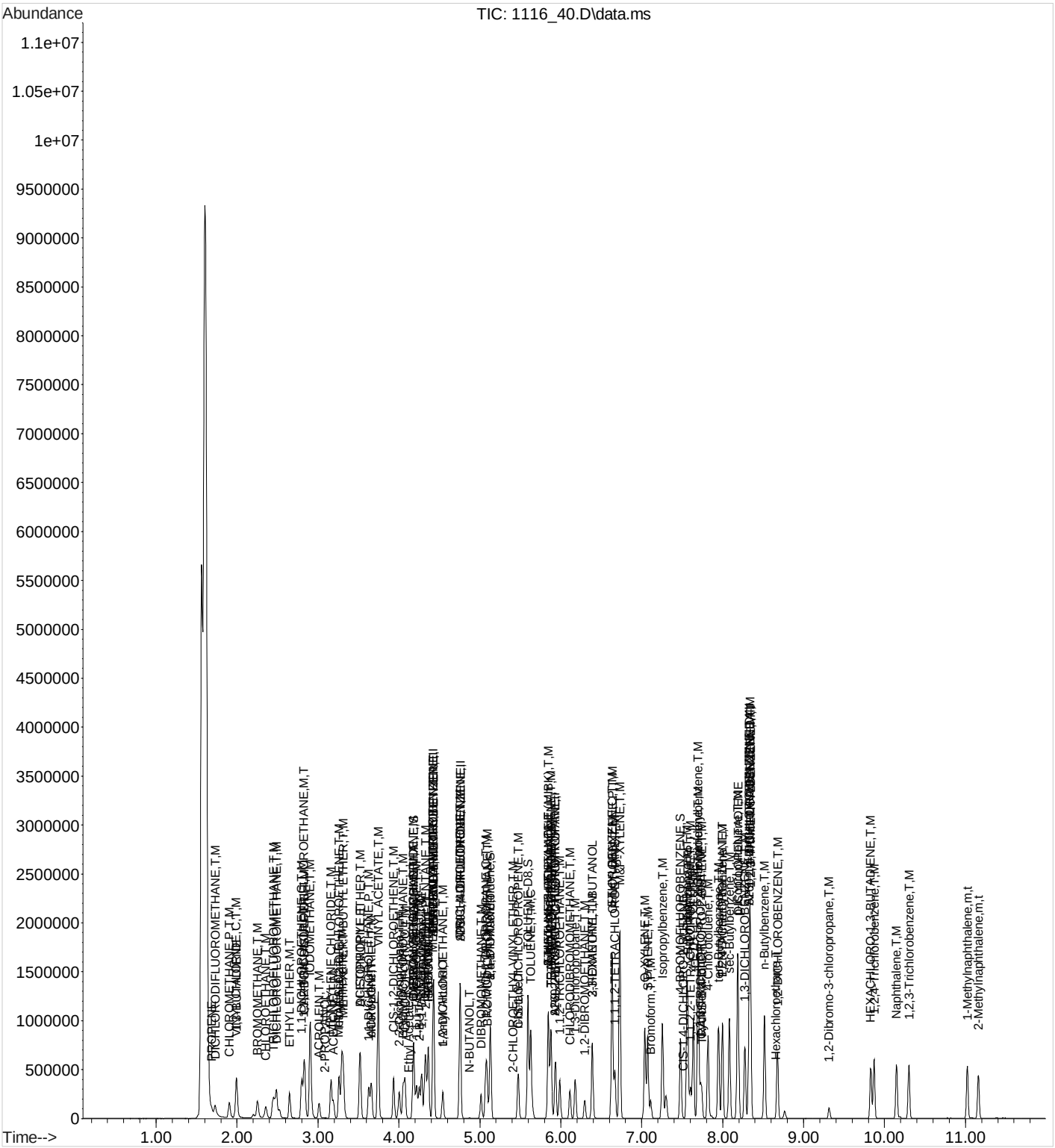
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
104) chloroprene	3.660	53	226992	20.3538921	ppb	#	33
106) PROPIONITRILE	4.361	54	2033	2.4044680	ppb	#	1
107) Ethyl Acetate	4.126	43	1119	0.1801920	ppb	#	70
108) METHACRYLONITRILE	4.422	67	1135	0.4683711	ppb	#	1
111) ISOBUTANOL	4.364	43	263333	585.3375109	ppb	#	75
112) t-Amyl Alcohol	4.541	59	942	1.5781593	ppb	#	24
113) TERT-AMYL METHYL ETHER	4.428	73	9194	0.3757845	ppb	#	1
115) N-BUTANOL	4.875	56	3439	18.3746197	ppb		98
116) Methyl Cyclohexane	4.759	83	9871	Below Cal	#	39	
117) 2-nitropropane	5.846	43	678223	295.4490133	ppb	#	37
119) 1,4-DIOXANE	5.129	88	4001	73.7960380	ppb	#	31
120) n-octane	5.476	85	2954	0.5880737	ppb	#	25
121) 3,3-DIMETHYL-1-BUTANOL	6.389	57	80808	94.4576249	ppb	#	52
123) ETHYL METHACRYLATE	5.846	69	4400	0.7101370	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.511	53	1815	0.9015721	ppb	#	39
125) Cyclohexanone	7.737	55	823	2.0800788	ppb	#	1
126) PENTACHLOROETHANE	7.997	117	17026	5.2368995	ppb	#	20
127) Hexachloroethane	8.659	117	935	0.2256380	ppb	#	48

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 40.D
Acq On : 17 Nov 2015 12:01 am
Operator : 189
Sample : MS 1x WG829391 L801101-09
Misc : water
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Nov 17 09:32:13 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 41.D
Acq On : 17 Nov 2015 12:22 am
Operator : 189
Sample : MSD 1x WG829391 L801101-09
Misc : water
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Nov 17 09:32:18 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.428	168	297438	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	508001	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.933	79	87906	40.0000000	ppb	#	0.00
84) 8260-1,4-DICHLOROBENZE...	8.328	152	219024	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.428	168	297438	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	508001	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.933	79	87906	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.328	152	219024	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.184	111	168788	36.6749662	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 91.69%				
46) a,a,a-Trifluorotoluene	5.132	146	267108	40.7544098	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.89%				
50) TOLUENE-D8	5.595	98	627596	41.0232801	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.56%				
68) 4-BROMOFLUOROBENZENE	7.479	95	228014	37.5080014	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 93.77%				
Target Compounds							Qvalue
3) PROPENE	1.685	41	14810	11.7825516	ppb		93
4) DICHLORODIFLUOROMETHANE	1.727	85	113920	22.9263640	ppb		95
5) CHLOROMETHANE	1.904	50	160494	22.0312599	ppb		99
6) VINYL CHLORIDE	1.984	62	161536	22.3642564	ppb		99
7) 1,3-BUTADIENE	1.994	39	116812	16.8549216	ppb		90
8) BROMOMETHANE	2.251	94	98289	21.6996562	ppb		99
9) CHLOROETHANE	2.354	64	101109	21.1980399	ppb		99
10) TRICHLOROFLUOROMETHANE	2.447	101	204853	21.6343020	ppb		99
11) DICHLOROFLUOROMETHANE	2.486	67	256833	22.0329562	ppb		99
12) ETHYL ETHER	2.650	59	113003	19.3925413	ppb		99
13) ACROLEIN	3.016	56	97056	1114.3929290	ppb		97
14) 1,1-DICHLOROETHENE	2.795	61	203124	20.5973963	ppb		96
15) 1,1,2-TRICHLOROTRIFLUO...	2.827	101	115896	24.6663852	ppb		95
16) ACETONE	3.193	43	153975	92.3534982	ppb	#	90
17) IODOMETHANE	2.904	142	896349	124.6425559	ppb		95
18) CARBON DISULFIDE	2.833	76	388798	23.7748913	ppb	#	93
19) METHYLENE CHLORIDE	3.161	84	130330	23.8698604	ppb		89
20) ACRYLONITRILE	3.659	53	209113	106.1774184	ppb		97
21) n-Hexane	3.296	56	121608	25.1946240	ppb		76
22) TRANS-1,2-DICHLOROETHENE	3.261	96	122027	25.1017994	ppb		92
23) METHYL TERT-BUTYL ETHER	3.315	73	335392	21.5386436	ppb		89
24) 1,1-DICHLOROETHANE	3.631	63	240452	23.7227401	ppb		100
25) VINYL ACETATE	3.746	43	1432632	120.9351332	ppb		97
26) DI-ISOPROPYL ETHER	3.521	45	484664	22.5487841	ppb		90
27) 2,2-Dichloropropane	4.007	77	142389	20.1846721	ppb		97
28) CIS-1,2-DICHLOROETHENE	3.936	96	136781	24.8541769	ppb		89
29) 2-BUTANONE (MEK)	4.251	43	275122	100.6602205	ppb		98
30) BROMOCHLOROMETHANE	4.052	130	78134	25.0680761	ppb		82
31) TETRAHYDROFURAN	4.187	42	37126	19.9621851	ppb		94
32) CHLOROFORM	4.077	83	231602	23.6549462	ppb		99
34) 1,1,1-TRICHLOROETHANE	4.219	97	184088	24.3995583	ppb		96
35) CARBON TETRACHLORIDE	4.180	117	171251	23.8816993	ppb		99
36) 1,1-Dichloropropene	4.283	75	170637	25.6461464	ppb		98
37) 2,2,4-TRIMETHYLPENTANE	4.328	57	632272	25.0745994	ppb	#	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 41.D
Acq On : 17 Nov 2015 12:22 am
Operator : 189
Sample : MSD 1x WG829391 L801101-09
Misc : water
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Nov 17 09:32:18 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	HEPTANE	4.364	43	252900	25.3724220 ppb	#	94
39)	BENZENE	4.428	78	503055	24.8489734 ppb		94
40)	1,2-DICHLOROETHANE	4.544	62	168918	20.0372180 ppb	#	95
42)	TRICHLOROETHENE	4.756	130	121996	26.4061810 ppb		97
43)	1,2-DICHLOROPROPANE	5.074	62	100026	25.3386071 ppb		98
44)	DIBROMOMETHANE	5.016	93	76529	22.6151157 ppb		96
45)	BROMODICHLOROMETHANE	5.090	83	180334	23.5047055 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.473	63	1021	0.3465086 ppb	#	50
48)	CIS-1,3-DICHLOROPROPENE	5.476	75	215080	24.7407107 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.846	43	614037	98.0272012 ppb		95
51)	TOLUENE	5.630	91	521348	26.1348892 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.878	75	196806	23.8225101 ppb		99
54)	1,1,2-TRICHLOROETHANE	5.987	97	102854	27.9426438 ppb		99
55)	TETRACHLOROETHENE	5.881	164	89540	29.2246542 ppb		99
56)	1,3-Dichloropropane	6.177	76	194429	27.8211470 ppb		99
57)	2-HEXANONE	6.389	58	219670	107.0449124 ppb		85
58)	CHLORODIBROMOMETHANE	6.113	129	120014	25.9054417 ppb		99
59)	1,2-DIBROMOETHANE	6.296	107	105460	26.7670976 ppb		99
60)	CHLOROBENZENE	6.637	112	323811	28.1929219 ppb		96
61)	1,1,1,2-TETRACHLOROETHANE	6.669	133	114565	25.6186260 ppb		100
62)	ETHYLBENZENE	6.634	106	175283	27.8529919 ppb		99
63)	M&P-XYLENE	6.730	106	432500	56.3498886 ppb		96
64)	O-XYLENE	7.039	106	209246	27.1002316 ppb		95
65)	STYRENE	7.074	104	340597	26.2932438 ppb		94
66)	Bromoform	7.113	173	72711	25.2670349 ppb		99
67)	Isopropylbenzene	7.257	105	564287	28.0419925 ppb		98
69)	Bromobenzene	7.569	77	266676	25.0219587 ppb		94
70)	1,1,2,2-TETRACHLOROETHANE	7.601	83	139166	24.6112250 ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.727	110	39498	23.5351837 ppb		99
72)	TRANS-1,4-DICHLORO-2-B...	7.743	53	39513	19.1241345 ppb		92
73)	n-Propylbenzene	7.560	91	713146	27.7458917 ppb		97
74)	4-ETHYLTOLUENE	7.637	105	581710	27.9821357 ppb		100
75)	2-Chlorotoluene	7.698	126	129815	27.0829582 ppb		90
76)	4-Chlorotoluene	7.820	91	428955	26.4092333 ppb		98
77)	1,3,5-Trimethylbenzene	7.695	105	476110	26.5564148 ppb		98
78)	tert-Butylbenzene	7.949	119	388092	26.8292592 ppb		95
79)	1,2,4-Trimethylbenzene	7.997	105	471293	26.0061917 ppb		98
80)	sec-Butylbenzene	8.084	105	621013	27.3404074 ppb		99
81)	1,3-DICHLOROBENZENE	8.273	146	252749	26.2491858 ppb		100
82)	p-Isopropyltoluene	8.183	119	514265	26.8042175 ppb		97
83)	DICYCLOPENTADIENE	8.193	66	609524	24.3776606 ppb		99
85)	1,4-DICHLOROBENZENE	8.341	146	255248	27.4453683 ppb		88
86)	1,2,3-TRIMETHYLBENZENE	8.344	105	485585	26.9016631 ppb		99
87)	1,2-DICHLOROBENZENE	8.679	146	235748	28.3705961 ppb		99
88)	n-Butylbenzene	8.518	91	520663	28.1821230 ppb		99
89)	1,2-Dibromo-3-chloropr...	9.318	157	22976	23.3586329 ppb		92
90)	1,2,4-Trichlorobenzene	9.871	180	163548	28.7660828 ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	9.833	225	88580	30.7939485 ppb		99
92)	Naphthalene	10.148	128	373354	26.4367159 ppb		100
93)	1,2,3-Trichlorobenzene	10.302	180	149641	28.1202489 ppb		98
94)	1-Methylnaphthalene	11.023	142	222513	25.7704957 ppb		98
95)	2-Methylnaphthalene	11.161	142	189502	26.5467414 ppb		98
98)	Bromoethane	2.994	108	700	0.1514111 ppb		93
100)	Methyl Acetate	3.258	43	7866	1.8089334 ppb	#	96
101)	ACETONITRILE	3.521	41	75119	113.1312718 ppb	#	38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 41.D
Acq On : 17 Nov 2015 12:22 am
Operator : 189
Sample : MSD 1x WG829391 L801101-09
Misc : water
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Nov 17 09:32:18 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

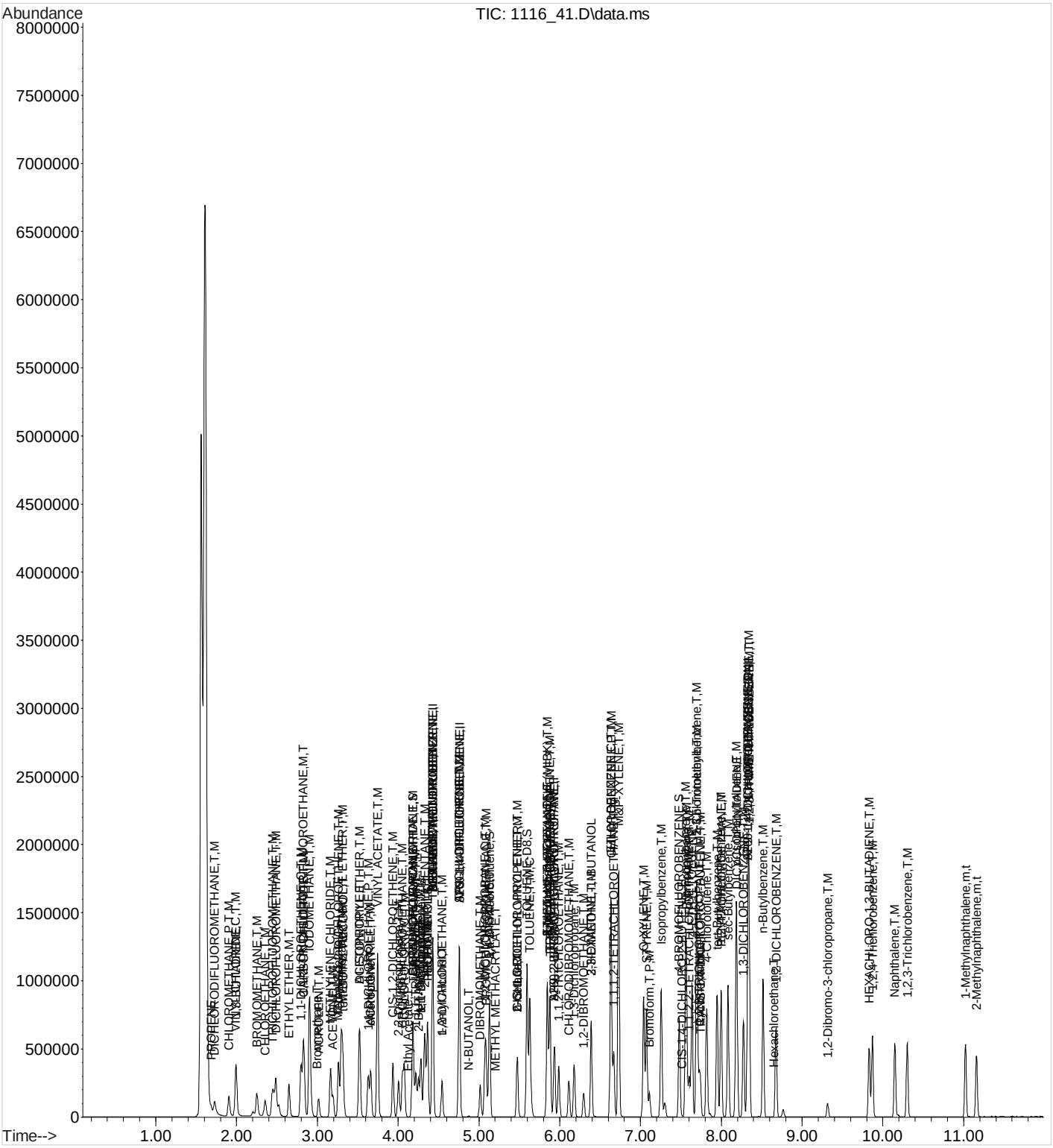
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
103) tert-BUTYL ALCOHOL	3.319	59	504	0.6979909	ppb	#	60
104) chloroprene	3.659	53	209113	20.9360283	ppb	#	33
106) PROPIONITRILE	4.367	54	2091	2.7612899	ppb	#	1
107) Ethyl Acetate	4.126	43	752	0.1352072	ppb	#	70
108) METHACRYLONITRILE	4.428	67	882	0.4063864	ppb	#	1
110) tert-butyl formate	4.280	59	779	0.1306780	ppb	#	13
111) ISOBUTANOL	4.364	43	252900	627.6625914	ppb	#	75
112) t-Amyl Alcohol	4.544	59	930	1.7396394	ppb	#	24
113) TERT-AMYL METHYL ETHER	4.431	73	9142	0.4172074	ppb	#	1
115) N-BUTANOL	4.872	56	3304	19.9114384	ppb		98
116) Methyl Cyclohexane	4.759	83	8891	Below Cal	#	40	
117) 2-nitropropane	5.846	43	614037	301.7039412	ppb	#	37
118) METHYL METHACRYLATE	5.203	41	773	0.1332165	ppb	#	20
119) 1,4-DIOXANE	5.129	88	3464	72.0640705	ppb	#	38
120) n-octane	5.476	85	2945	0.6612764	ppb	#	26
121) 3,3-DIMETHYL-1-BUTANOL	6.389	57	72311	95.3374304	ppb	#	52
123) ETHYL METHACRYLATE	5.846	69	4053	0.7281961	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.511	53	1575	0.8709368	ppb	#	35
125) Cyclohexanone	7.737	55	868	2.4422039	ppb	#	1
126) PENTACHLOROETHANE	8.000	117	16321	5.5884405	ppb	#	13
127) Hexachloroethane	8.653	117	762	0.2047094	ppb	#	9

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 41.D
Acq On : 17 Nov 2015 12:22 am
Operator : 189
Sample : MSD 1x WG829391 L801101-09
Misc : water
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Nov 17 09:32:18 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 59.D
Acq On : 17 Nov 2015 6:44 am
Operator : 189
Sample : L801109-01 1x WG829391 V8260
Misc : water
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Feb 02 10:44:18 2016
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.428	168	223113	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	395941	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	67600	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.331	152	171010	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.428	168	223113	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	395941	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	67600	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.331	152	171010	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.187	111	136844	39.6392558 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.10%		
46) a,a,a-Trifluorotoluene	5.132	146	207019	40.5258386 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.31%		
50) TOLUENE-D8	5.598	98	489297	41.0352289 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.59%		
68) 4-BROMOFLUOROBENZENE	7.482	95	183388	39.2288112 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.07%		

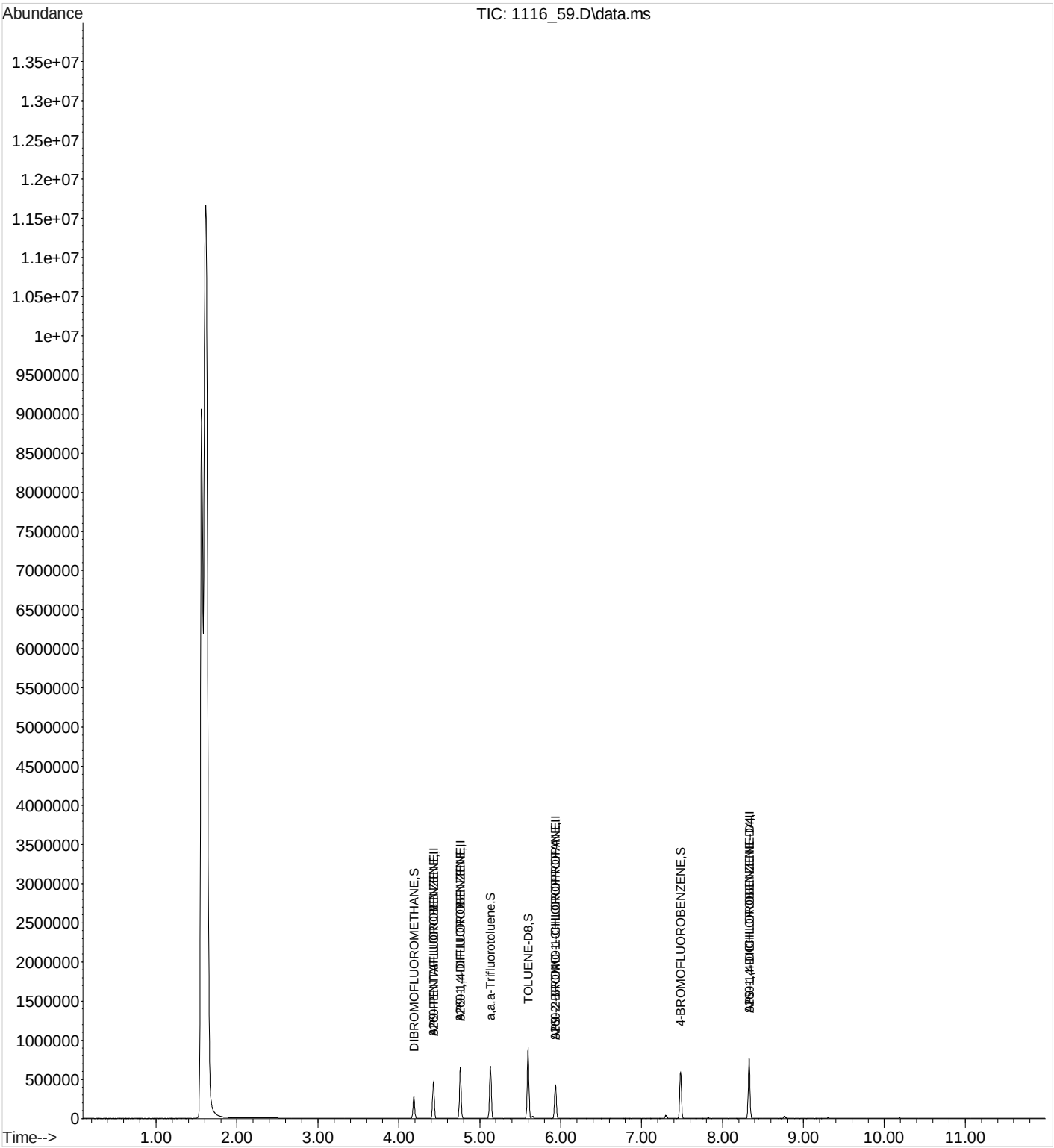
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 59.D
Acq On : 17 Nov 2015 6:44 am
Operator : 189
Sample : L801109-01 1x WG829391 V8260
Misc : water
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Feb 02 10:44:18 2016
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 60.D
Acq On : 17 Nov 2015 7:05 am
Operator : 189
Sample : L801109-02 1x WG829391 V8260
Misc : water
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Feb 02 10:34:56 2016
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.428	168	228998	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	407420	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	71433	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.328	152	170644	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.428	168	228998	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	407420	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	71433	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.328	152	170644	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.184	111	141006	39.7951834 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.49%		
46) a,a,a-Trifluorotoluene	5.132	146	212843	40.4920073 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.23%		
50) TOLUENE-D8	5.595	98	502316	40.9401519 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.35%		
68) 4-BROMOFLUOROBENZENE	7.482	95	186447	37.7430888 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 94.36%		

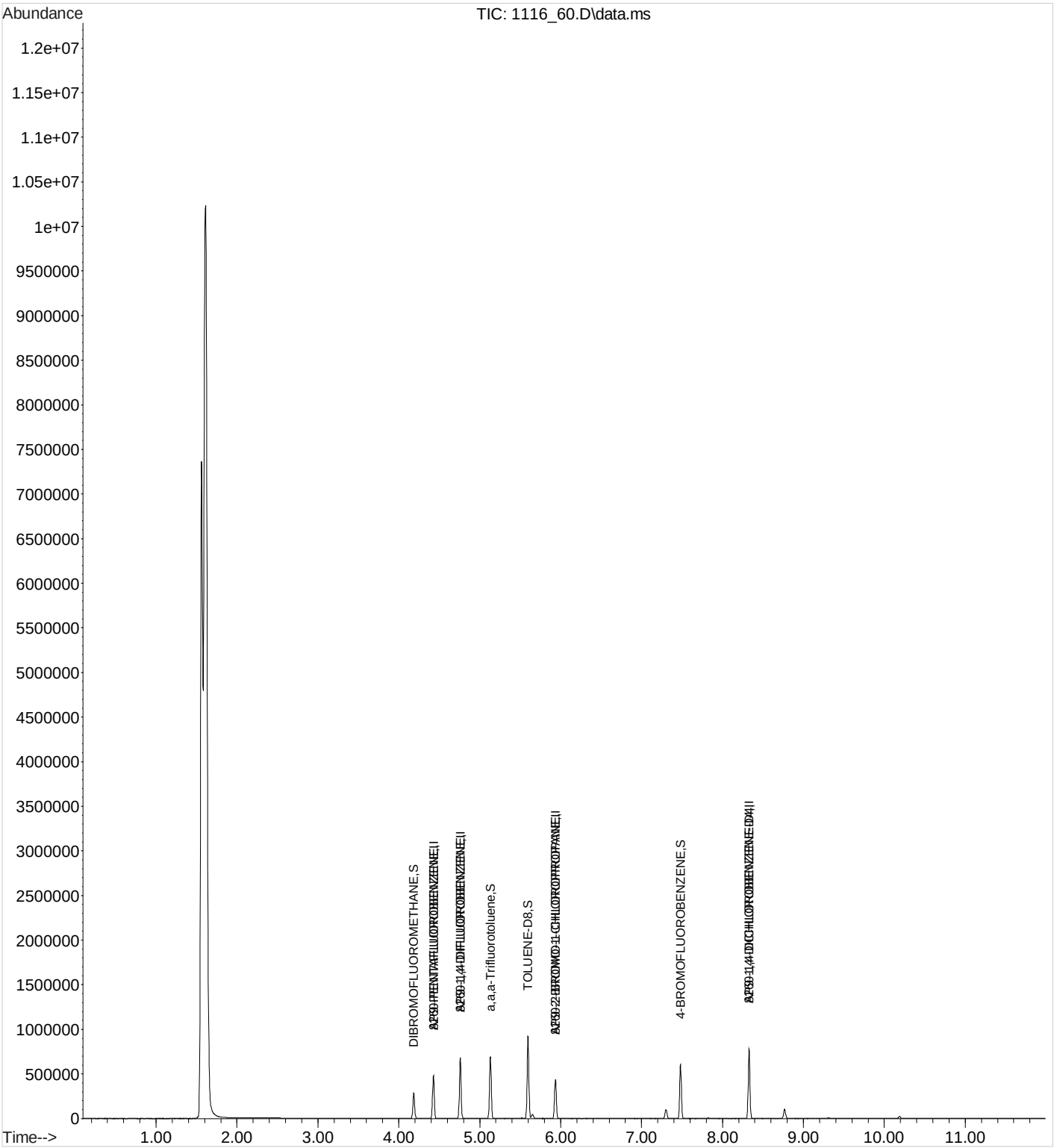
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\111615\
Data File : 1116 60.D
Acq On : 17 Nov 2015 7:05 am
Operator : 189
Sample : L801109-02 1x WG829391 V8260
Misc : water
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Feb 02 10:34:56 2016
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration



Calibration

Instrument: VOCMS35
Method: V835J19O

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1019a_03.D	.25	10/20/2015 2:20:00 AM
1019a_04.D	.5	10/20/2015 2:41:00 AM
1019a_05.D	1	10/20/2015 3:02:00 AM
1019a_06.D	2	10/20/2015 3:23:00 AM
1019a_07.D	5.0	10/20/2015 3:45:00 AM
1019a_08.D	10	10/20/2015 4:05:00 AM
1019a_09.D	25	10/20/2015 4:26:00 AM
1019a_10.D	40	10/20/2015 4:47:00 AM
1019a_11.D	75	10/20/2015 5:08:00 AM
1019a_12.D	100	10/20/2015 5:29:00 AM
1019a_13.D	200	10/20/2015 5:50:00 AM
0915_18.D	1A	9/16/2015 1:22:00 AM
0915_19.D	2.5A	9/16/2015 1:43:00 AM
0915_20.D	5A	9/16/2015 2:05:00 AM
0915_21.D	7.5A	9/16/2015 2:26:00 AM
0915_22.D	10A	9/16/2015 2:47:00 AM
0915_23.D	12A	9/16/2015 3:09:00 AM
0915_24.D	15A	9/16/2015 3:30:00 AM
0915_25.D	17A	9/16/2015 3:51:00 AM
0915_26.D	20A	9/16/2015 4:11:00 AM

Mint Miner 2.6.4 Directory Scan: z:\101915a

20 Oct 2015 16:23

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\101915a\1019a_01.D					
Original Path: 1019a_01.D					
0	Scanned		591	VOCMS35	INSTBLK (water IS/SURR 15H19728)
Scan File Path: z:\101915a\1019a_02.D					
Original Path: z:\101915a\1019a_02.D					
0	No Audit				
Scan File Path: z:\101915a\1019a_03.D					
Original Path: C:\msdchem\1\data\101915a\1019a_03.D					
25	Scanned	D(19), M(1), MZ(5)	591	VOCMS35	STD VMS .25 ppb 15J05152 (water IS/SURR 15
Scan File Path: z:\101915a\1019a_04.D					
Original Path: C:\msdchem\1\data\101915a\1019a_04.D					
24	Scanned	D(19), MZ(5)	591	VOCMS35	STD VMS .5 ppb 15J05152 (water IS/SURR 15H
Scan File Path: z:\101915a\1019a_05.D					
Original Path: C:\msdchem\1\data\101915a\1019a_05.D					
26	Scanned	D(21), MZ(5)	591	VOCMS35	STD VMS 1 ppb 15J05152 (water IS/SURR 15H
Scan File Path: z:\101915a\1019a_05A.D					
Original Path: C:\msdchem\1\data\101915a\1019a_05.D					
26	Scanned	D(21), MZ(5)	591	VOCMS35	STD VMS 1 ppb 15J05152 (water IS/SURR 15H
Scan File Path: z:\101915a\1019a_06A.D					
Original Path: C:\msdchem\1\data\101915a\1019a_06.D					
29	Scanned	D(24), MZ(5)	591	VOCMS35	STD VMS 2 ppb 15J05152 (water IS/SURR 15H
Scan File Path: z:\101915a\1019a_06.D					
Original Path: C:\msdchem\1\data\101915a\1019a_06.D					
29	Scanned	D(24), MZ(5)	591	VOCMS35	STD VMS 2 ppb 15J05152 (water IS/SURR 15H
Scan File Path: z:\101915a\1019a_07A.D					
Original Path: C:\msdchem\1\data\101915a\1019a_07.D					
32	Scanned	D(27), MZ(5)	591	VOCMS35	STD VMS 5 ppb 15J05152 (water IS/SURR 15H
Scan File Path: z:\101915a\1019a_07.D					
Original Path: C:\msdchem\1\data\101915a\1019a_07.D					
32	Scanned	D(27), MZ(5)	591	VOCMS35	STD VMS 5 ppb 15J05152 (water IS/SURR 15H
Scan File Path: z:\101915a\1019a_08.D					
Original Path: C:\msdchem\1\data\101915a\1019a_08.D					
32	Scanned	D(27), MZ(5)	591	VOCMS35	STD VMS 10 ppb 15J05152 (water IS/SURR 15H

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\101915a\1019a_09.D					
Original Path: C:\msdchem\1\data\101915a\1019a_09.D					
62	Scanned	D(58), MZ(4)	591	VOCMS35	MSTD VMS 25 ppb 15J05152 (water IS/SURR 1
Scan File Path: z:\101915a\1019a_10.D					
Original Path: C:\msdchem\1\data\101915a\1019a_10.D					
34	Scanned	D(29), MZ(5)	591	VOCMS35	STD VMS 40 ppb 15J05152 (water IS/SURR 15I
Scan File Path: z:\101915a\1019a_11.D					
Original Path: C:\msdchem\1\data\101915a\1019a_11.D					
36	Scanned	D(31), MZ(5)	591	VOCMS35	STD VMS 75 ppb 15J05152 (water IS/SURR 15I
Scan File Path: z:\101915a\1019a_12.D					
Original Path: C:\msdchem\1\data\101915a\1019a_12.D					
35	Scanned	D(30), MZ(5)	591	VOCMS35	STD VMS 100 ppb 15J05152 (water IS/SURR 15
Scan File Path: z:\101915a\1019a_13.D					
Original Path: C:\msdchem\1\data\101915a\1019a_13.D					
36	Scanned	D(31), MZ(5)	591	VOCMS35	STD VMS 200 ppb 15J05152 (water IS/SURR 15
Scan File Path: z:\101915a\1019a_14.D					
Original Path: z:\101915a\1019a_14.D					
0	No Audit				
Scan File Path: z:\101915a\1019a_15.D					
Original Path: C:\msdchem\1\data\101915a\1019a_15.D\data.ms					
0	Scanned		591	VOCMS35	SSCV VMS 25 ppb 15J05157 (water IS/SURR 15

D = Deletion of any analyte
MZ = Manual integrated but indicator missing from either the quant report or audit file
M = Manual integration (non-specific)

ScanSummary.rpt

Total Files Scanned	18	Beginning Analyzed Date	10/20/2015 1:38:00AM
Methods	0	Ending Analyzed Date	10/20/2015 6:32:00AM
Samples	17	Analyzed Range	4 hours, 54 minutes
Tunes	1	Greatest Time Between Tunes	N/A
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 0
Operators 1 Intruments 1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS35
Computer Name : VOCCOMPAY
Released By : Amy Green
Date Released : 10/20/2015 10:10:04 AM
Run ID : 091515
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0915_01	INSTBLK	V835I15O						1	1	09/15/15 1924	"water IS/SURR 15H19728"
2	0915_01	INSTBLK	V835I15O							1	09/15/15 1924	
3	0915_14	INSTBLK	V835I15O						1	1	09/15/15 2357	"water IS/SURR 15H19728"
4	0915_18	STD VMS 1 PPB 15H20824	V835I15O						1	1	09/16/15 0122	"water IS/SURR 15H19728"
5	0915_19	STD VMS 2.5 PPB 15H20824	V835I15O						1	1	09/16/15 0143	"water IS/SURR 15H19728"
6	0915_20	STD VMS 5 PPB 15H20824	V835I15O						1	1	09/16/15 0205	"water IS/SURR 15H19728"
7	0915_21	STD VMS 7.5 PPB 15H20824	V835I15O						1	1	09/16/15 0226	"water IS/SURR 15H19728"
8	0915_22	MSTD VMS 10A PPB 15H20824	V835I15O						1	1	09/16/15 0247	"water IS/SURR 15H19728"
9	0915_23	STD VMS 12.5 PPB 15H20824	V835I15O						1	1	09/16/15 0309	"water IS/SURR 15H19728"
10	0915_24	STD VMS 15 PPB 15H20824	V835I15O						1	1	09/16/15 0330	"water IS/SURR 15H19728"
11	0915_25	STD VMS 17.5 PPB 15H20824	V835I15O						1	1	09/16/15 0351	"water IS/SURR 15H19728"
12	0915_26	STD VMS 20 PPB 15H20824	V835I15O						1	1	09/16/15 0411	"water IS/SURR 15H19728"
13	0915_28	SSCV VMS 10A PPB 15H19752	V835I15O						1	1	09/16/15 0454	"water IS/SURR 15H19728"
14	1019a_01	INSTBLK	V835J19O						1	1	10/20/15 0138	"water IS/SURR 15H19728"
15	1019a_01	INSTBLK	V835J19O							1	10/20/15 0138	

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS35
Computer Name : VOCCOMPAY
Released By : Amy Green
Date Released : 10/20/2015 10:10:04 AM
Run ID : 091515
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
16	1019a_03	STD VMS .25 PPB 15J05152	V835J19O						1	1	10/20/15 0220	"water IS/SURR 15H19728"
17	1019a_04	STD VMS .5 PPB 15J05152	V835J19O						1	1	10/20/15 0241	"water IS/SURR 15H19728"
18	1019a_05	STD VMS 1 PPB 15J05152	V835J19O						1	1	10/20/15 0302	"water IS/SURR 15H19728"
19	1019a_05 A	RL VMS 1 PPB 15J05152	V835J19O						1	1	10/20/15 0302	"water IS/SURR 15H19728"
20	1019a_06	STD VMS 2 PPB 15J05152	V835J19O						1	1	10/20/15 0323	"water IS/SURR 15H19728"
21	1019a_06 A	RL VMS 2 PPB 15J05152	V835J19O						1	1	10/20/15 0323	"water IS/SURR 15H19728"
22	1019a_07	STD VMS 5 PPB 15J05152	V835J19O						1	1	10/20/15 0345	"water IS/SURR 15H19728"
23	1019a_07 A	RL VMS 5.0 PPB 15J05152	V835J19O						1	1	10/20/15 0345	"water IS/SURR 15H19728"
24	1019a_08	STD VMS 10 PPB 15J05152	V835J19O						1	1	10/20/15 0405	"water IS/SURR 15H19728"
25	1019a_09	MSTD VMS 25 PPB 15J05152	V835J19O						1	1	10/20/15 0426	"water IS/SURR 15H19728"
26	1019a_10	STD VMS 40 PPB 15J05152	V835J19O						1	1	10/20/15 0447	"water IS/SURR 15H19728"
27	1019a_11	STD VMS 75 PPB 15J05152	V835J19O						1	1	10/20/15 0508	"water IS/SURR 15H19728"
28	1019a_12	STD VMS 100 PPB 15J05152	V835J19O						1	1	10/20/15 0529	"water IS/SURR 15H19728"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

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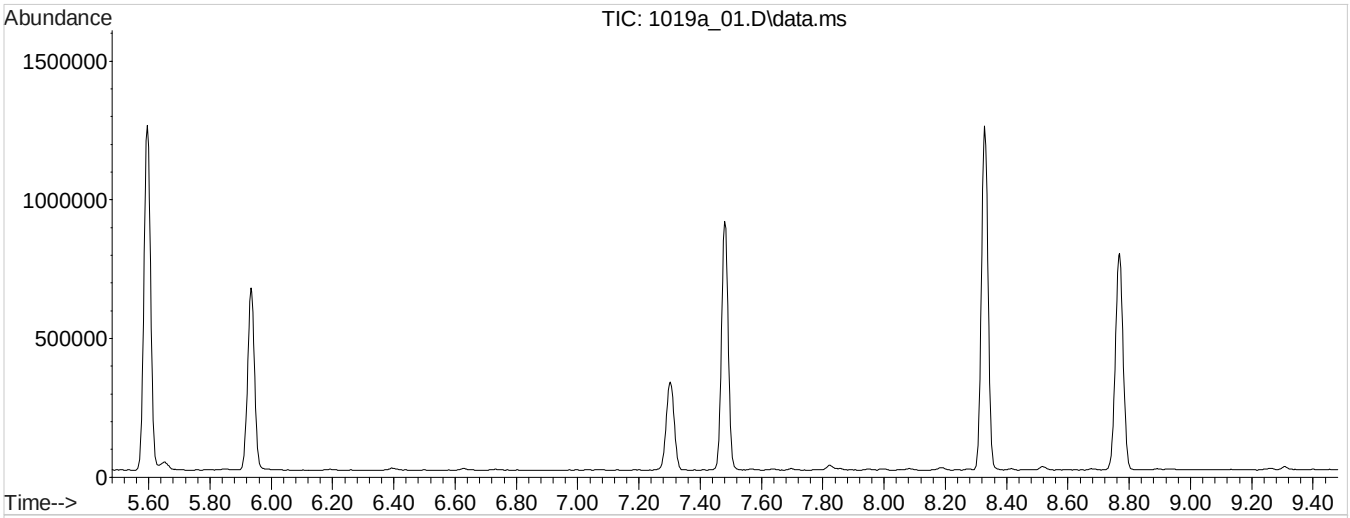
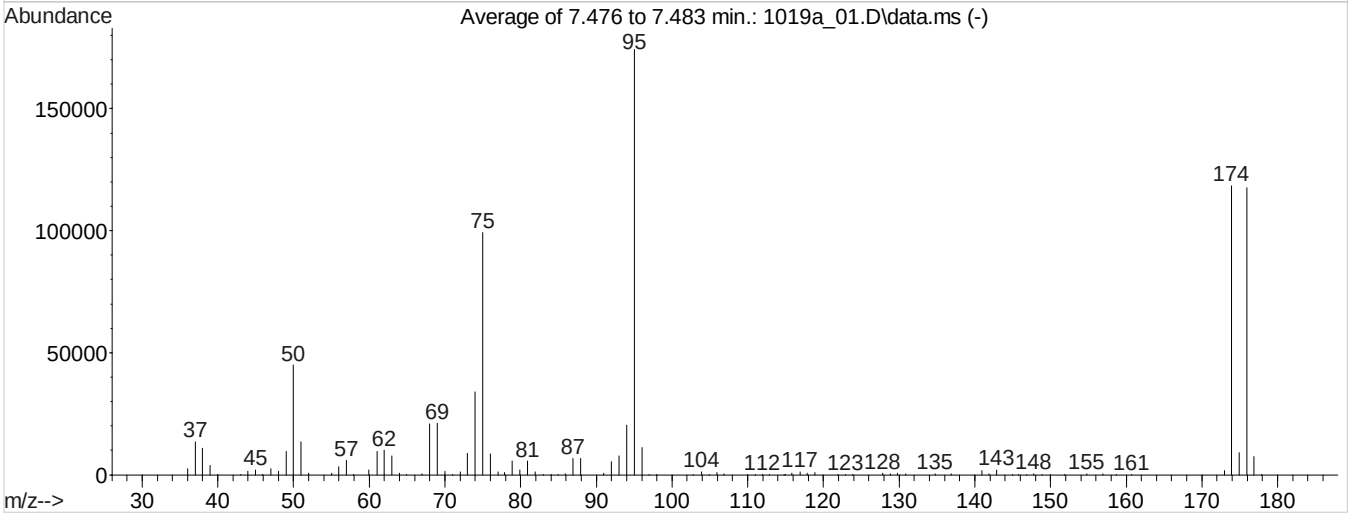
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
29	1019a_13	STD VMS 200 PPB 15J05152	V835J19O						1	1	10/20/15 0550	"water IS/SURR 15H19728"
30	1019a_15	SSCV VMS 25 PPB 15J05157	V835J19O						1	1	10/20/15 0632	"water IS/SURR 15H19728"

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 01.D
Acq On : 20 Oct 2015 1:38 am
Operator : 591
Sample : INSTBLK
Misc : water IS/SURR 15H19728
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V835J19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
Last Update : Tue Oct 20 09:57:36 2015





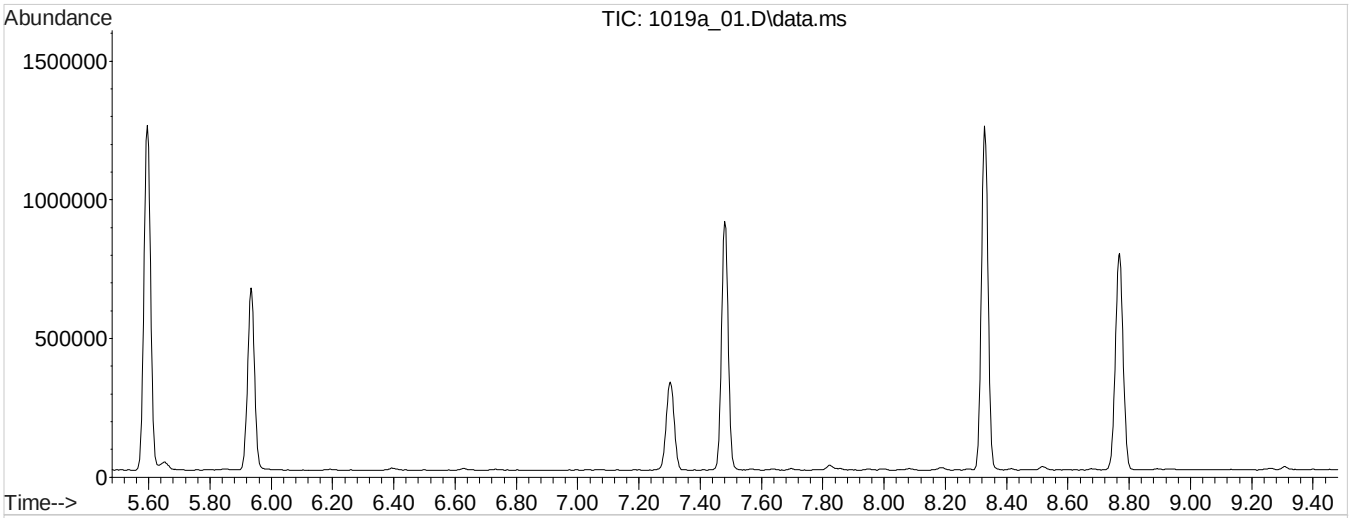
AutoFind: Scans 2297, 2298, 2299; Background Corrected with Scan 2283

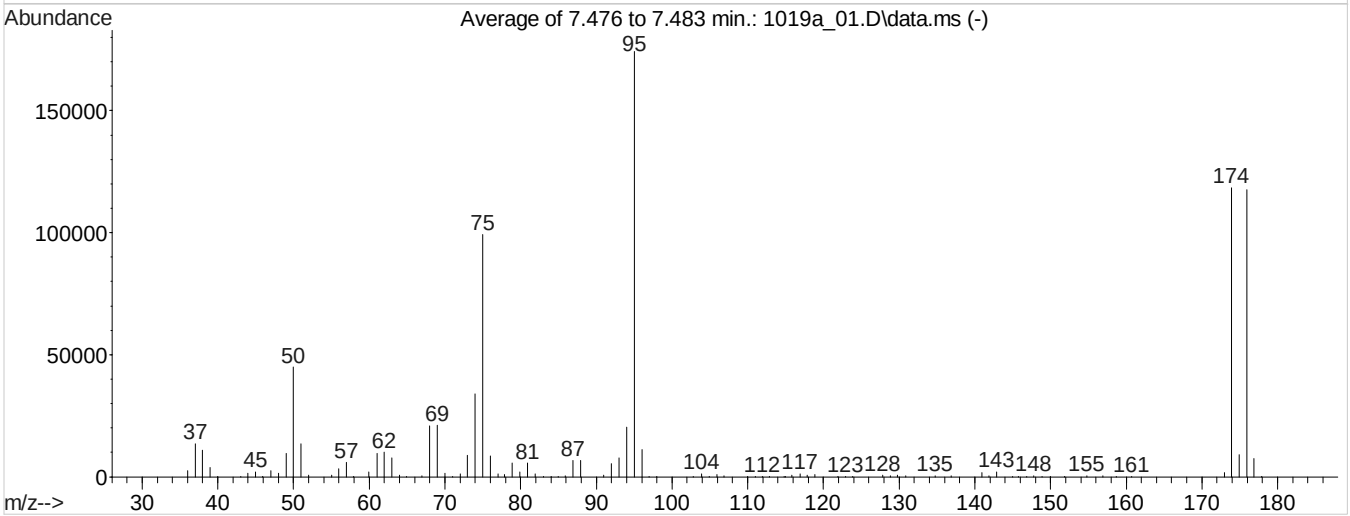
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.8	44925	PASS
75	95	30	60	56.9	99240	PASS
95	95	100	100	100.0	174286	PASS
96	95	5	9	6.3	11046	PASS
173	174	0.00	2	1.4	1651	PASS
174	95	50	150	67.9	118325	PASS
175	174	5	9	7.7	9069	PASS
176	174	95	101	99.5	117715	PASS
177	176	5	9	6.3	7422	PASS

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 01.D
Acq On : 20 Oct 2015 1:38 am
Operator : 591
Sample : INSTBLK
Misc : water IS/SURR 15H19728
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V835J19O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
Last Update : Tue Oct 20 09:57:36 2015





AutoFind: Scans 2297, 2298, 2299; Background Corrected with Scan 2283

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.8	44925	PASS
75	95	30	60	56.9	99240	PASS
95	95	100	100	100.0	174286	PASS
96	95	5	9	6.3	11046	PASS
173	174	0.00	2	1.4	1651	PASS
174	95	50	150	67.9	118325	PASS
175	174	5	9	7.7	9069	PASS
176	174	95	101	99.5	117715	PASS
177	176	5	9	6.3	7422	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 6200	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: SM 20th	Released On	: 10/20/2015 10:10:04 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE															
TPH (GC/MS) LOW FRACTION												0	0	0	1
PROPENE			0.279	0.25	0.229	0.189	0.166	0.169	0.151	0.151	0.153	0.193021	24.88	0.998	0
DICHLORODIFLUOROMETHANE	0.797	0.589	0.643	0.578	0.763	0.688	0.68	0.68	0.635	0.641	0.656	0.668234	9.84	0.098	1
CHLOROMETHANE		1.278	1.067	1.016	1.019	0.957	0.901	0.914	0.874	0.879	0.891	0.979677	12.7	0.127	1
VINYL CHLORIDE	0.954	1.03	1.023	0.988	1.05	0.997	0.952	0.957	0.907	0.908	0.919	0.971356	5.15	0.052	1
1,3-BUTADIENE			1.201	1.05	1.021	0.95	0.871	0.857	0.819	0.808	0.812	0.932018	14.5	0.145	1
BROMOMETHANE	0.582	0.654	0.587	0.663	0.645	0.617	0.589	0.6	0.576	0.577	0.61	0.609138	5.21	0.052	1
CHLOROETHANE	0.687	0.718	0.702	0.625	0.662	0.632	0.611	0.615	0.593	0.598	0.613	0.641442	6.79	0.068	1
TRICHLOROFLUOROMETHANE	1.522	1.498	1.252	1.246	1.309	1.25	1.212	1.206	1.164	1.156	1.192	1.273395	9.82	0.098	1
DICHLOROFLUOROMETHANE	1.318	1.589	1.651	1.625	1.697	1.655	1.579	1.572	1.508	1.506	1.546	1.567623	6.53	0.065	1
ETHYL ETHER	0.926	0.917	0.797	0.766	0.798	0.758	0.739	0.741	0.734	0.712	0.733	0.783644	9.32	0.093	1
ACROLEIN					0.023	0.015	0.014	0.013	0.012	0.012	0.012	0.014412	28.83	0.998	0
1,1-DICHLOROETHENE	1.339	1.552	1.364	1.37	1.417	1.338	1.269	1.256	1.238	1.169	1.276	1.32621	7.77	0.078	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.594	0.776	0.594	0.616	0.667	0.689	0.597	0.598	0.604	0.563	0.654	0.631868	9.62	0.096	1
ACETONE	0.568	0.384	0.317	0.281	0.32	0.206	0.199	0.225	0.224	0.219	0.22	0.287611	38.38	0.997	0
IODOMETHANE	0.861	0.98	0.939	0.971	1.003	0.984	0.958	0.974	0.957	0.978	1.033	0.967107	4.47	0.045	1
CARBON DISULFIDE	2.315	2.437	2.16	2.169	2.261	2.406	2.072	2.065	2.06	1.992	2.256	2.199222	6.73	0.067	1
METHYLENE CHLORIDE			0.903	0.79	0.754	0.734	0.695	0.692	0.671	0.675	0.695	0.734274	10.15	0.101	1
ACRYLONITRILE	0.266	0.28	0.267	0.261	0.35	0.247	0.239	0.251	0.258	0.243	0.253	0.264858	11.53	0.115	1
n-Hexane		0.773	0.662	0.667	0.686	0.629	0.624	0.605	0.608	0.607	0.629	0.649109	7.97	0.08	1
TRANS-1,2-DICHLOROETHENE	0.689	0.715	0.679	0.621	0.696	0.66	0.637	0.623	0.614	0.62	0.639	0.653754	5.44	0.054	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 6200	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: SM 20th	Released On	: 10/20/2015 10:10:04 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.06	2.201	2.064	2.184	2.246	2.09	2.018	2.059	2.051	1.994	2.067	2.094102	3.83	0.038	1
,1-DICHLOROETHANE	1.321	1.453	1.378	1.402	1.415	1.39	1.356	1.334	1.301	1.299	1.345	1.363098	3.61	0.036	1
VINYL ACETATE	1.62	1.689	1.697	1.775	1.874	1.53	1.477	1.57	1.5	1.454	1.337	1.59311	9.81	0.098	1
DI-ISOPROPYL ETHER	2.924	3.044	2.948	2.916	2.903	2.921	2.855	2.844	2.8	2.799	2.842	2.890555	2.5	0.025	1
2,2-Dichloropropane	1.054	1.17	1.098	0.914	0.975	0.96	0.904	0.903	0.834	0.83	0.793	0.948677	12.46	0.125	1
CIS-1,2-DICHLOROETHENE	0.751	0.818	0.752	0.763	0.745	0.762	0.706	0.722	0.703	0.695	0.725	0.740099	4.8	0.048	1
-BUTANONE (MEK)			0.407	0.395	0.491	0.336	0.32	0.339	0.346	0.34	0.334	0.367562	14.89	0.149	1
BROMOCHLOROMETHANE	0.401	0.443	0.437	0.433	0.437	0.411	0.412	0.412	0.404	0.401	0.42	0.419163	3.76	0.038	1
TETRAHYDROFURAN	0.36	0.382	0.375	0.341	0.377	0.24	0.23	0.244	0.257	0.239	0.247	0.299454	22.07	0.996	0
CHLOROFORM	1.246	1.451	1.334	1.349	1.348	1.357	1.294	1.289	1.254	1.261	1.299	1.316691	4.54	0.045	1
DIBROMOFLUOROMETHANE	0.618	0.626	0.621	0.622	0.626	0.622	0.619	0.626	0.605	0.603	0.621	0.618921	1.28	0.013	1
1,1,1-TRICHLOROETHANE	0.866	1.079	1.029	1.027	1.083	1.033	1.034	1.018	0.991	0.987	1.014	1.014628	5.69	0.057	1
CARBON TETRACHLORIDE			1.077	1.023	1.003	0.954	0.946	0.917	0.908	0.906	0.945	0.964343	6.07	0.061	1
1,1-Dichloropropene	0.809	0.972	0.915	0.908	0.963	0.897	0.894	0.872	0.859	0.864	0.89	0.894777	5.16	0.052	1
2,2,4-TRIMETHYLPENTANE	3.814	3.927	3.035	3.184	3.575	3.184	3.418	3.257	3.256	3.266	3.386	3.391044	8.16	0.082	1
HEPTANE	1.351	1.319	1.366	1.326	1.417	1.32	1.335	1.29	1.328	1.323	1.37	1.340449	2.55	0.025	1
BENZENE	2.962	3.002	2.829	2.676	2.761	2.717	2.622	2.604	2.561	2.569	2.644	2.722517	5.57	0.056	1
1,2-DICHLOROETHANE	1.064	1.135	1.163	1.162	1.186	1.134	1.116	1.117	1.124	1.11	1.16	1.13371	2.95	0.029	1
8260-1,4-DIFLUOROBENZENE															
TRICHLOROETHENE	0.339	0.4	0.383	0.352	0.377	0.372	0.362	0.357	0.351	0.35	0.359	0.363777	4.83	0.048	1
,2-DICHLOROPROPANE	0.294	0.34	0.307	0.313	0.323	0.315	0.306	0.309	0.302	0.302	0.308	0.310832	3.92	0.039	1
DIBROMOMETHANE	0.317	0.302	0.267	0.272	0.282	0.256	0.245	0.252	0.249	0.24	0.248	0.266454	9.39	0.094	1

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Method	: V835J19O	Review Protocol	: SM 20th	Released On	: 10/20/2015 10:10:04 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.59	0.607	0.605	0.617	0.632	0.625	0.599	0.597	0.591	0.585	0.597	0.604113	2.5	0.025	1
a,a,a-Trifluorotoluene	0.541	0.538	0.536	0.528	0.529	0.527	0.518	0.516	0.489	0.484	0.47	0.516069	4.68	0.047	1
-CHLOROETHYL VINYL ETHER	0.21	0.234	0.232	0.231	0.254	0.222	0.223	0.229	0.242	0.233	0.242	0.23201	5.01	0.05	1
CIS-1,3-DICHLOROPROPENE	0.612	0.709	0.697	0.699	0.709	0.698	0.676	0.684	0.685	0.672	0.689	0.684515	3.94	0.039	1
-METHYL-2-PENTANONE (MIBK)	0.492	0.542	0.498	0.513	0.616	0.457	0.443	0.474	0.487	0.452	0.452	0.493223	10.24	0.102	1
TOLUENE-D8	1.241	1.234	1.239	1.218	1.221	1.225	1.203	1.208	1.171	1.153	1.137	1.204607	2.94	0.029	1
TOLUENE	1.739	1.693	1.573	1.553	1.6	1.553	1.513	1.515	1.508	1.505	1.526	1.570733	4.99	0.05	1
TRANS-1,3-DICHLOROPROPENE	0.649	0.641	0.646	0.63	0.67	0.633	0.635	0.647	0.669	0.654	0.681	0.650498	2.54	0.025	1
8260-2-BROMO-1 -CHLOROPROPANE															
1,1,2-TRICHLOROETHANE	1.488	1.886	1.731	1.658	1.797	1.636	1.608	1.626	1.665	1.635	1.694	1.674924	6.21	0.062	1
TETRACHLOROETHENE	1.453	1.442	1.349	1.325	1.437	1.354	1.369	1.358	1.377	1.407	1.463	1.394149	3.45	0.035	1
1,3-Dichloropropane	3.089	3.231	3.274	3.158	3.372	3.091	3.087	3.136	3.18	3.131	3.23	3.180003	2.82	0.028	1
2-HEXANONE		1.112	1.035	1.026	1.19	0.843	0.807	0.826	0.863	0.813	0.823	0.933783	15.31	0.153	1
CHLORODIBROMOMETHANE	1.981	2.261	2.225	2.057	2.172	2.061	2.065	2.055	2.1	2.068	2.143	2.108057	3.95	0.04	1
1,2-DIBROMOETHANE	1.882	1.929	1.893	1.776	1.899	1.701	1.688	1.721	1.76	1.714	1.756	1.792784	5.03	0.05	1
CHLOROBENZENE	5.507	5.28	5.232	5.123	5.186	4.991	5.07	5.094	5.173	5.267	5.565	5.226284	3.37	0.034	1
1,1,1,2-TETRACHLOROETHANE	2.55	2.279	1.961	2.042	1.978	1.919	1.918	1.923	1.904	1.921	1.989	2.034874	9.9	0.099	1
ETHYLBENZENE	3.233	2.954	2.782	2.81	2.846	2.714	2.761	2.748	2.779	2.857	3.015	2.863581	5.31	0.053	1
M&P-XYLENE	3.713	3.637	3.34	3.405	3.482	3.403	3.4	3.417	3.443	3.501	3.676	3.492485	3.61	0.036	1
O-XYLENE	4.07	3.581	3.562	3.492	3.448	3.358	3.385	3.385	3.377	3.42	3.569	3.513384	5.76	0.058	1
STYRENE	5.675	5.99	5.914	6.014	5.819	5.789	5.825	5.824	5.851	5.969	6.168	5.8943 8	2.28	0.023	1
Bromoform	0.993	1.408	1.214	1.343	1.38	1.286	1.293	1.336	1.385	1.353	1.412	1.309445	9.18	0.092	1

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INITIAL CALIBRATION SUMMARY

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Method	: V835J19O	Review Protocol	: SM 20th	Released On	: 10/20/2015 10:10:04 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.448	9.416	8.997	9.005	9.608	9.004	9.195	9.191	9.114	9.212	9.532	9.156566	3.44	0.034	1
4-BROMOFLUOROBENZENE	2.848	2.832	2.802	2.757	2.741	2.719	2.755	2.77	2.743	2.755	2.705	2.766171	1.61	0.016	1
Bromobenzene	5.071	5.11	4.76	4.976	4.796	4.69	4.681	4.712	4.741	4.811	4.998	4.84958	3.27	0.033	1
1,1,2,2-TETRACHLOROETHANE	2.598	2.791	2.776	2.597	2.834	2.414	2.393	2.485	2.506	2.424	2.484	2.573009	6.25	0.062	1
1,2,3-TRICHLOROPROPANE			0.909	0.87	0.856	0.705	0.687	0.723	0.722	0.689	0.714	0.763658	11.5	0.115	1
TRANS-1,4-DICHLORO-2-BUTENE	0.955	0.924	1.027	1.083	1.114	0.839	0.861	0.847	0.906	0.875	0.91	0.940155	10.1	0.101	1
n-Propylbenzene	12.09	12.58	11.43	11.4	11.8	11.44	11.55	11.43	11.41	11.67	11.85	11.69557	3.16	0.032	1
4-ETHYLTOLUENE	9.96	10.12	9.18	9.2	9.5	9.22	9.4	9.27	9.27	9.37	9.55	9.45948	3.31	0.033	1
2-Chlorotoluene	2.138	2.194	2.221	2.122	2.178	2.103	2.144	2.155	2.165	2.227	2.344	2.181073	3.05	0.031	1
4-Chlorotoluene	8.304	7.579	7.202	7.292	7.367	7.295	7.278	7.24	7.115	7.275	7.352	7.390901	4.39	0.044	1
1,3,5-Trimethylbenzene	8.487	8.109	7.914	7.858	8.222	8.035	8.104	8.129	8.058	8.259	8.562	8.157918	2.65	0.026	1
tert-Butylbenzene	6.958	7.074	6.623	6.306	6.573	6.452	6.55	6.477	6.362	6.425	6.604	6.582146	3.61	0.036	1
1,2,4-Trimethylbenzene	8.33	8.701	8.252	8.108	8.319	8.235	8.167	8.222	7.984	8.136	8.254	8.246235	2.19	0.022	1
sec-Butylbenzene	10.19	10.49	9.940001	10.41	10.73	10.35	10.5	10.31	10.18	10.22	10.36	10.33564	2.01	0.02	1
1,3-DICHLOROBENZENE	4.489	4.581	4.506	4.43	4.305	4.299	4.309	4.293	4.257	4.326	4.4	4.381422	2.44	0.024	1
p-Isopropyltoluene	9.756	9.1	8.474	8.212	8.702	8.562	8.673	8.553	8.453	8.64	8.91	8.730222	4.73	0.047	1
DICYCLOPENTADIENE	11.21	11.88	11.14	11.19	11.54	11.37	11.46	11.49	11.15	11.23	11.48	11.37733	1.96	0.02	1
8260-1,4-DICHLOROBENZENE-D4															
1,4-DICHLOROBENZENE	2.055	1.851	1.702	1.673	1.628	1.665	1.591	1.603	1.618	1.638	1.658	1.698484	8.1	0.081	1
1,2,3-TRIMETHYLBENZENE	3.429	3.751	3.143	3.303	3.273	3.313	3.184	3.216	3.213	3.216	3.221	3.29651	5.14	0.051	1
1,2-DICHLOROBENZENE	1.483	1.586	1.543	1.58	1.547	1.547	1.469	1.494	1.491	1.48	1.473	1.517567	2.88	0.029	1
n-Butylbenzene	3.623	3.68	3.496	3.269	3.55	3.378	3.302	3.218	3.228	3.212	3.16	3.374048	5.43	0.054	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 6200	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: SM 20th	Released On	: 10/20/2015 10:10:04 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane		0.178	0.194	0.187	0.237	0.175	0.164	0.17	0.173	0.16	0.159	0.179637	12.93	0.129	1
1,2,4-Trichlorobenzene	1.185	1.213	1.069	1.067	1.045	1.055	0.976	0.988	0.959	0.951	0.913	1.038324	9.14	0.091	1
HEXACHLORO-1,3-BUTADIENE	0.472	0.549	0.56	0.573	0.563	0.554	0.525	0.52	0.497	0.491	0.473	0.525338	7.06	0.071	1
Naphthalene				2.878	3.06	2.617	2.381	2.527	2.506	2.387	2.276	2.57918	10.35	0.103	1
1,2,3-Trichlorobenzene	1.195	1.068	0.98	1.04	1.012	0.985	0.898	0.926	0.89	0.874	0.822	0.971851	10.88	0.109	1
1-Methylnaphthalene		1.984	1.766	1.649	1.792	1.59	1.424	1.51	1.435	1.394	1.223	1.576888	14.34	0.143	1
2-Methylnaphthalene		1.585	1.401	1.424	1.56	1.325	1.186	1.256	1.189	1.129	0.981	1.30368	14.76	0.148	1
AP9-PENTAFLUOROBENZENE															
ETHANOL												0	0	0	1
Bromoethane												0	0	0	1
2-PROPANOL												0	0	0	1
Methyl Acetate												0	0	0	1
ACETONITRILE												0	0	0	1
ALLYL CHLORIDE												0	0	0	1
tert-BUTYL ALCOHOL												0	0	0	1
chloroprene												0	0	0	1
ETHYL TERT-BUTYL ETHER												0	0	0	1
PROPIONITRILE												0	0	0	1
Ethyl Acetate												0	0	0	1
METHACRYLONITRILE												0	0	0	1
Cyclohexane												0	0	0	1
tert-butyl formate												0	0	0	1
ISOBUTANOL												0	0	0	1
t-Amyl Alcohol												0	0	0	1
TERT-AMYL METHYL ETHER												0	0	0	1
AP9-1,4-DIFLUOROBENZENE															
N-BUTANOL												0	0	0	1
Methyl Cyclohexane												0	0	0	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	:	VOCMS35	Review Method	:	6200	Released By	:	Amy Green
Method	:	V835J19O	Review Protocol	:	SM 20th	Released On	:	10/20/2015 10:10:04 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
2-nitropropane												0	0	0	1
METHYL METHACRYLATE												0	0	0	1
,4-DIOXANE												0	0	0	1
-octane												0	0	0	1
3,3-DIMETHYL-1-BUTANOL												0	0	0	1
AP9-2-BROMO-1 ACHLOROPROPANE															
ETHYL METHACRYLATE												0	0	0	1
CIS-1,4-DICHLORO-2-BUTENE												0	0	0	1
Cyclohexanone												0	0	0	1
PENTACHLOROETHANE												0	0	0	1
Hexachloroethane												0	0	0	1
AP9-1,4-DICHLOROBENZENE-D4															

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 601-602	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: EPA	Released On	: 10/20/2015 10:07:48 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE															
TPH (GC/MS) LOW FRACTION												0	0	0	1
PROPENE			0.279	0.25	0.229	0.189	0.166	0.169	0.151	0.151	0.153	0.193021	24.88	0.998	0
DICHLORODIFLUOROMETHANE	0.797	0.589	0.643	0.578	0.763	0.688	0.68	0.68	0.635	0.641	0.656	0.668234	9.84	0.098	1
CHLOROMETHANE		1.278	1.067	1.016	1.019	0.957	0.901	0.914	0.874	0.879	0.891	0.979677	12.7	0.127	1
VINYL CHLORIDE	0.954	1.03	1.023	0.988	1.05	0.997	0.952	0.957	0.907	0.908	0.919	0.971356	5.15	0.052	1
1,3-BUTADIENE			1.201	1.05	1.021	0.95	0.871	0.857	0.819	0.808	0.812	0.932018	14.5	0.145	1
BROMOMETHANE	0.582	0.654	0.587	0.663	0.645	0.617	0.589	0.6	0.576	0.577	0.61	0.609138	5.21	0.052	1
CHLOROETHANE	0.687	0.718	0.702	0.625	0.662	0.632	0.611	0.615	0.593	0.598	0.613	0.641442	6.79	0.068	1
TRICHLOROFLUOROMETHANE	1.522	1.498	1.252	1.246	1.309	1.25	1.212	1.206	1.164	1.156	1.192	1.273395	9.82	0.098	1
DICHLOROFLUOROMETHANE	1.318	1.589	1.651	1.625	1.697	1.655	1.579	1.572	1.508	1.506	1.546	1.567623	6.53	0.065	1
ETHYL ETHER	0.926	0.917	0.797	0.766	0.798	0.758	0.739	0.741	0.734	0.712	0.733	0.783644	9.32	0.093	1
ACROLEIN					0.023	0.015	0.014	0.013	0.012	0.012	0.012	0.014412	28.83	0.998	0
1,1-DICHLOROETHENE	1.339	1.552	1.364	1.37	1.417	1.338	1.269	1.256	1.238	1.169	1.276	1.32621	7.77	0.078	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.594	0.776	0.594	0.616	0.667	0.689	0.597	0.598	0.604	0.563	0.654	0.631868	9.62	0.096	1
ACETONE	0.568	0.384	0.317	0.281	0.32	0.206	0.199	0.225	0.224	0.219	0.22	0.287611	38.38	0.997	0
IODOMETHANE	0.861	0.98	0.939	0.971	1.003	0.984	0.958	0.974	0.957	0.978	1.033	0.967107	4.47	0.045	1
CARBON DISULFIDE	2.315	2.437	2.16	2.169	2.261	2.406	2.072	2.065	2.06	1.992	2.256	2.199222	6.73	0.067	1
METHYLENE CHLORIDE			0.903	0.79	0.754	0.734	0.695	0.692	0.671	0.675	0.695	0.734274	10.15	0.101	1
ACRYLONITRILE	0.266	0.28	0.267	0.261	0.35	0.247	0.239	0.251	0.258	0.243	0.253	0.264858	11.53	0.115	1
n-Hexane		0.773	0.662	0.667	0.686	0.629	0.624	0.605	0.608	0.607	0.629	0.649109	7.97	0.08	1
TRANS-1,2-DICHLOROETHENE	0.689	0.715	0.679	0.621	0.696	0.66	0.637	0.623	0.614	0.62	0.639	0.653754	5.44	0.054	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 601-602	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: EPA	Released On	: 10/20/2015 10:07:48 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.06	2.201	2.064	2.184	2.246	2.09	2.018	2.059	2.051	1.994	2.067	2.094102	3.83	0.038	1
1,1-DICHLOROETHANE	1.321	1.453	1.378	1.402	1.415	1.39	1.356	1.334	1.301	1.299	1.345	1.363098	3.61	0.036	1
VINYL ACETATE	1.62	1.689	1.697	1.775	1.874	1.53	1.477	1.57	1.5	1.454	1.337	1.59311	9.81	0.098	1
DI-ISOPROPYL ETHER	2.924	3.044	2.948	2.916	2.903	2.921	2.855	2.844	2.8	2.799	2.842	2.890555	2.5	0.025	1
2,2-Dichloropropane	1.054	1.17	1.098	0.914	0.975	0.96	0.904	0.903	0.834	0.83	0.793	0.948677	12.46	0.125	1
CIS-1,2-DICHLOROETHENE	0.751	0.818	0.752	0.763	0.745	0.762	0.706	0.722	0.703	0.695	0.725	0.740099	4.8	0.048	1
2-BUTANONE (MEK)			0.407	0.395	0.491	0.336	0.32	0.339	0.346	0.34	0.334	0.367562	14.89	0.149	1
BROMOCHLOROMETHANE	0.401	0.443	0.437	0.433	0.437	0.411	0.412	0.412	0.404	0.401	0.42	0.419163	3.76	0.038	1
TETRAHYDROFURAN	0.36	0.382	0.375	0.341	0.377	0.24	0.23	0.244	0.257	0.239	0.247	0.299454	22.07	0.996	0
CHLOROFORM	1.246	1.451	1.334	1.349	1.348	1.357	1.294	1.289	1.254	1.261	1.299	1.316691	4.54	0.045	1
DIBROMOFLUOROMETHANE	0.618	0.626	0.621	0.622	0.626	0.622	0.619	0.626	0.605	0.603	0.621	0.618921	1.28	0.013	1
1,1,1-TRICHLOROETHANE	0.866	1.079	1.029	1.027	1.083	1.033	1.034	1.018	0.991	0.987	1.014	1.014628	5.69	0.057	1
CARBON TETRACHLORIDE			1.077	1.023	1.003	0.954	0.946	0.917	0.908	0.906	0.945	0.964343	6.07	0.061	1
1,1-Dichloropropene	0.809	0.972	0.915	0.908	0.963	0.897	0.894	0.872	0.859	0.864	0.89	0.894777	5.16	0.052	1
2,2,4-TRIMETHYLPENTANE	3.814	3.927	3.035	3.184	3.575	3.184	3.418	3.257	3.256	3.266	3.386	3.391044	8.16	0.082	1
HEPTANE	1.351	1.319	1.366	1.326	1.417	1.32	1.335	1.29	1.328	1.323	1.37	1.340449	2.55	0.025	1
BENZENE	2.962	3.002	2.829	2.676	2.761	2.717	2.622	2.604	2.561	2.569	2.644	2.722517	5.57	0.056	1
1,2-DICHLOROETHANE	1.064	1.135	1.163	1.162	1.186	1.134	1.116	1.117	1.124	1.11	1.16	1.13371	2.95	0.029	1
8260-1,4-DIFLUOROBENZENE															
TRICHLOROETHENE	0.339	0.4	0.383	0.352	0.377	0.372	0.362	0.357	0.351	0.35	0.359	0.363777	4.83	0.048	1
1,2-DICHLOROPROPANE	0.294	0.34	0.307	0.313	0.323	0.315	0.306	0.309	0.302	0.302	0.308	0.310832	3.92	0.039	1
DIBROMOMETHANE	0.317	0.302	0.267	0.272	0.282	0.256	0.245	0.252	0.249	0.24	0.248	0.266454	9.39	0.094	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 601-602	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: EPA	Released On	: 10/20/2015 10:07:48 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.59	0.607	0.605	0.617	0.632	0.625	0.599	0.597	0.591	0.585	0.597	0.604113	2.5	0.025	1
α,a,a-Trifluorotoluene	0.541	0.538	0.536	0.528	0.529	0.527	0.518	0.516	0.489	0.484	0.47	0.516069	4.68	0.047	1
2-CHLOROETHYL VINYL ETHER	0.21	0.234	0.232	0.231	0.254	0.222	0.223	0.229	0.242	0.233	0.242	0.23201	5.01	0.05	1
CIS-1,3-DICHLOROPROPENE	0.612	0.709	0.697	0.699	0.709	0.698	0.676	0.684	0.685	0.672	0.689	0.684515	3.94	0.039	1
4-METHYL-2-PENTANONE (MIBK)	0.492	0.542	0.498	0.513	0.616	0.457	0.443	0.474	0.487	0.452	0.452	0.493223	10.24	0.102	1
TOLUENE-D8	1.241	1.234	1.239	1.218	1.221	1.225	1.203	1.208	1.171	1.153	1.137	1.204607	2.94	0.029	1
TOLUENE	1.739	1.693	1.573	1.553	1.6	1.553	1.513	1.515	1.508	1.505	1.526	1.570733	4.99	0.05	1
TRANS-1,3-DICHLOROPROPENE	0.649	0.641	0.646	0.63	0.67	0.633	0.635	0.647	0.669	0.654	0.681	0.650498	2.54	0.025	1
8260-2-BROMO-1 -CHLOROPROPANE															
1,1,2-TRICHLOROETHANE	1.488	1.886	1.731	1.658	1.797	1.636	1.608	1.626	1.665	1.635	1.694	1.674924	6.21	0.062	1
TETRACHLOROETHENE	1.453	1.442	1.349	1.325	1.437	1.354	1.369	1.358	1.377	1.407	1.463	1.394149	3.45	0.035	1
1,3-Dichloropropane	3.089	3.231	3.274	3.158	3.372	3.091	3.087	3.136	3.18	3.131	3.23	3.180003	2.82	0.028	1
2-HEXANONE		1.112	1.035	1.026	1.19	0.843	0.807	0.826	0.863	0.813	0.823	0.933783	15.31	0.153	1
CHLORODIBROMOMETHANE	1.981	2.261	2.225	2.057	2.172	2.061	2.065	2.055	2.1	2.068	2.143	2.108057	3.95	0.04	1
1,2-DIBROMOETHANE	1.882	1.929	1.893	1.776	1.899	1.701	1.688	1.721	1.76	1.714	1.756	1.792784	5.03	0.05	1
CHLOROBENZENE	5.507	5.28	5.232	5.123	5.186	4.991	5.07	5.094	5.173	5.267	5.565	5.226284	3.37	0.034	1
1,1,1,2-TETRACHLOROETHANE	2.55	2.279	1.961	2.042	1.978	1.919	1.918	1.923	1.904	1.921	1.989	2.034874	9.9	0.099	1
ETHYLBENZENE	3.233	2.954	2.782	2.81	2.846	2.714	2.761	2.748	2.779	2.857	3.015	2.863581	5.31	0.053	1
M&P-XYLENE	3.713	3.637	3.34	3.405	3.482	3.403	3.4	3.417	3.443	3.501	3.676	3.492485	3.61	0.036	1
O-XYLENE	4.07	3.581	3.562	3.492	3.448	3.358	3.385	3.385	3.377	3.42	3.569	3.513384	5.76	0.058	1
STYRENE	5.675	5.99	5.914	6.014	5.819	5.789	5.825	5.824	5.851	5.969	6.168	5.89438	2.28	0.023	1
Bromoform	0.993	1.408	1.214	1.343	1.38	1.286	1.293	1.336	1.385	1.353	1.412	1.309445	9.18	0.092	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 601-602	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: EPA	Released On	: 10/20/2015 10:07:48 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.448	9.416	8.997	9.005	9.608	9.004	9.195	9.191	9.114	9.212	9.532	9.156566	3.44	0.034	1
4-BROMOFLUOROBENZENE	2.848	2.832	2.802	2.757	2.741	2.719	2.755	2.77	2.743	2.755	2.705	2.766171	1.61	0.016	1
Bromobenzene	5.071	5.11	4.76	4.976	4.796	4.69	4.681	4.712	4.741	4.811	4.998	4.84958	3.27	0.033	1
1,1,2,2-TETRACHLOROETHANE	2.598	2.791	2.776	2.597	2.834	2.414	2.393	2.485	2.506	2.424	2.484	2.573009	6.25	0.062	1
1,2,3-TRICHLOROPROPANE			0.909	0.87	0.856	0.705	0.687	0.723	0.722	0.689	0.714	0.763658	11.5	0.115	1
TRANS-1,4-DICHLORO-2-BUTENE	0.955	0.924	1.027	1.083	1.114	0.839	0.861	0.847	0.906	0.875	0.91	0.940155	10.1	0.101	1
n-Propylbenzene	12.09	12.58	11.43	11.4	11.8	11.44	11.55	11.43	11.41	11.67	11.85	11.69557	3.16	0.032	1
4-ETHYLTOLUENE	9.96	10.12	9.18	9.2	9.5	9.22	9.4	9.27	9.27	9.37	9.55	9.45948	3.31	0.033	1
2-Chlorotoluene	2.138	2.194	2.221	2.122	2.178	2.103	2.144	2.155	2.165	2.227	2.344	2.181073	3.05	0.031	1
4-Chlorotoluene	8.304	7.579	7.202	7.292	7.367	7.295	7.278	7.24	7.115	7.275	7.352	7.390901	4.39	0.044	1
1,3,5-Trimethylbenzene	8.487	8.109	7.914	7.858	8.222	8.035	8.104	8.129	8.058	8.259	8.562	8.157918	2.65	0.026	1
tert-Butylbenzene	6.958	7.074	6.623	6.306	6.573	6.452	6.55	6.477	6.362	6.425	6.604	6.582146	3.61	0.036	1
1,2,4-Trimethylbenzene	8.33	8.701	8.252	8.108	8.319	8.235	8.167	8.222	7.984	8.136	8.254	8.246235	2.19	0.022	1
sec-Butylbenzene	10.19	10.49	9.940001	10.41	10.73	10.35	10.5	10.31	10.18	10.22	10.36	10.33564	2.01	0.02	1
1,3-DICHLOROBENZENE	4.489	4.581	4.506	4.43	4.305	4.299	4.309	4.293	4.257	4.326	4.4	4.381422	2.44	0.024	1
p-Isopropyltoluene	9.756	9.1	8.474	8.212	8.702	8.562	8.673	8.553	8.453	8.64	8.91	8.730222	4.73	0.047	1
DICYCLOPENTADIENE	11.21	11.88	11.14	11.19	11.54	11.37	11.46	11.49	11.15	11.23	11.48	11.37733	1.96	0.02	1
8260-1,4-DICHLOROBENZENE-D4															
1,4-DICHLOROBENZENE	2.055	1.851	1.702	1.673	1.628	1.665	1.591	1.603	1.618	1.638	1.658	1.698484	8.1	0.081	1
1,2,3-TRIMETHYLBENZENE	3.429	3.751	3.143	3.303	3.273	3.313	3.184	3.216	3.213	3.216	3.221	3.29651	5.14	0.051	1
1,2-DICHLOROBENZENE	1.483	1.586	1.543	1.58	1.547	1.547	1.469	1.494	1.491	1.48	1.473	1.517567	2.88	0.029	1
n-Butylbenzene	3.623	3.68	3.496	3.269	3.55	3.378	3.302	3.218	3.228	3.212	3.16	3.374048	5.43	0.054	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 601-602	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: EPA	Released On	: 10/20/2015 10:07:48 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane		0.178	0.194	0.187	0.237	0.175	0.164	0.17	0.173	0.16	0.159	0.179637	12.93	0.129	1
1,2,4-Trichlorobenzene	1.185	1.213	1.069	1.067	1.045	1.055	0.976	0.988	0.959	0.951	0.913	1.038324	9.14	0.091	1
HEXACHLORO-1,3-BUTADIENE	0.472	0.549	0.56	0.573	0.563	0.554	0.525	0.52	0.497	0.491	0.473	0.525338	7.06	0.071	1
Naphthalene				2.878	3.06	2.617	2.381	2.527	2.506	2.387	2.276	2.57918	10.35	0.103	1
1,2,3-Trichlorobenzene	1.195	1.068	0.98	1.04	1.012	0.985	0.898	0.926	0.89	0.874	0.822	0.971851	10.88	0.109	1
1-Methylnaphthalene		1.984	1.766	1.649	1.792	1.59	1.424	1.51	1.435	1.394	1.223	1.576888	14.34	0.143	1
2-Methylnaphthalene		1.585	1.401	1.424	1.56	1.325	1.186	1.256	1.189	1.129	0.981	1.30368	14.76	0.148	1
AP9-PENTAFLUOROBENZENE															
ETHANOL												0	0	0	1
Bromoethane												0	0	0	1
2-PROPANOL												0	0	0	1
Methyl Acetate												0	0	0	1
ACETONITRILE												0	0	0	1
ALLYL CHLORIDE												0	0	0	1
tert-BUTYL ALCOHOL												0	0	0	1
chloroprene												0	0	0	1
ETHYL TERT-BUTYL ETHER												0	0	0	1
PROPIONITRILE												0	0	0	1
Ethyl Acetate												0	0	0	1
METHACRYLONITRILE												0	0	0	1
Cyclohexane												0	0	0	1
tert-butyl formate												0	0	0	1
ISOBUTANOL												0	0	0	1
t-Amyl Alcohol												0	0	0	1
TERT-AMYL METHYL ETHER												0	0	0	1
AP9-1,4-DIFLUOROBENZENE															
N-BUTANOL												0	0	0	1
Methyl Cyclohexane												0	0	0	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	:	VOCMS35	Review Method	:	601-602	Released By	:	Amy Green
Method	:	V835J19O	Review Protocol	:	EPA	Released On	:	10/20/2015 10:07:48 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
2-nitropropane												0	0	0	1
METHYL METHACRYLATE												0	0	0	1
,4-DIOXANE												0	0	0	1
-octane												0	0	0	1
3,3-DIMETHYL-1-BUTANOL												0	0	0	1
AP9-2-BROMO-1 ACHLOROPROPANE															
ETHYL METHACRYLATE												0	0	0	1
CIS-1,4-DICHLORO-2-BUTENE												0	0	0	1
Cyclohexanone												0	0	0	1
PENTACHLOROETHANE												0	0	0	1
Hexachloroethane												0	0	0	1
AP9-1,4-DICHLOROBENZENE-D4															

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 624	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: EPA	Released On	: 10/20/2015 10:08:16 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE															
TPH (GC/MS) LOW FRACTION												0	0	0	1
PROPENE			0.279	0.25	0.229	0.189	0.166	0.169	0.151	0.151	0.153	0.193021	24.88	0.998	0
DICHLORODIFLUOROMETHANE	0.797	0.589	0.643	0.578	0.763	0.688	0.68	0.68	0.635	0.641	0.656	0.668234	9.84	0.098	1
CHLOROMETHANE		1.278	1.067	1.016	1.019	0.957	0.901	0.914	0.874	0.879	0.891	0.979677	12.7	0.127	1
VINYL CHLORIDE	0.954	1.03	1.023	0.988	1.05	0.997	0.952	0.957	0.907	0.908	0.919	0.971356	5.15	0.052	1
1,3-BUTADIENE			1.201	1.05	1.021	0.95	0.871	0.857	0.819	0.808	0.812	0.932018	14.5	0.145	1
BROMOMETHANE	0.582	0.654	0.587	0.663	0.645	0.617	0.589	0.6	0.576	0.577	0.61	0.609138	5.21	0.052	1
CHLOROETHANE	0.687	0.718	0.702	0.625	0.662	0.632	0.611	0.615	0.593	0.598	0.613	0.641442	6.79	0.068	1
TRICHLOROFLUOROMETHANE	1.522	1.498	1.252	1.246	1.309	1.25	1.212	1.206	1.164	1.156	1.192	1.273395	9.82	0.098	1
DICHLOROFLUOROMETHANE	1.318	1.589	1.651	1.625	1.697	1.655	1.579	1.572	1.508	1.506	1.546	1.567623	6.53	0.065	1
ETHYL ETHER	0.926	0.917	0.797	0.766	0.798	0.758	0.739	0.741	0.734	0.712	0.733	0.783644	9.32	0.093	1
ACROLEIN					0.023	0.015	0.014	0.013	0.012	0.012	0.012	0.014412	28.83	0.998	0
1,1-DICHLOROETHENE	1.339	1.552	1.364	1.37	1.417	1.338	1.269	1.256	1.238	1.169	1.276	1.32621	7.77	0.078	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.594	0.776	0.594	0.616	0.667	0.689	0.597	0.598	0.604	0.563	0.654	0.631868	9.62	0.096	1
ACETONE	0.568	0.384	0.317	0.281	0.32	0.206	0.199	0.225	0.224	0.219	0.22	0.287611	38.38	0.997	0
IODOMETHANE	0.861	0.98	0.939	0.971	1.003	0.984	0.958	0.974	0.957	0.978	1.033	0.967107	4.47	0.045	1
CARBON DISULFIDE	2.315	2.437	2.16	2.169	2.261	2.406	2.072	2.065	2.06	1.992	2.256	2.199222	6.73	0.067	1
METHYLENE CHLORIDE			0.903	0.79	0.754	0.734	0.695	0.692	0.671	0.675	0.695	0.734274	10.15	0.101	1
ACRYLONITRILE	0.266	0.28	0.267	0.261	0.35	0.247	0.239	0.251	0.258	0.243	0.253	0.264858	11.53	0.115	1
n-Hexane		0.773	0.662	0.667	0.686	0.629	0.624	0.605	0.608	0.607	0.629	0.649109	7.97	0.08	1
TRANS-1,2-DICHLOROETHENE	0.689	0.715	0.679	0.621	0.696	0.66	0.637	0.623	0.614	0.62	0.639	0.653754	5.44	0.054	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 624	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: EPA	Released On	: 10/20/2015 10:08:16 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.06	2.201	2.064	2.184	2.246	2.09	2.018	2.059	2.051	1.994	2.067	2.094102	3.83	0.038	1
,1-DICHLOROETHANE	1.321	1.453	1.378	1.402	1.415	1.39	1.356	1.334	1.301	1.299	1.345	1.363098	3.61	0.036	1
VINYL ACETATE	1.62	1.689	1.697	1.775	1.874	1.53	1.477	1.57	1.5	1.454	1.337	1.59311	9.81	0.098	1
DI-ISOPROPYL ETHER	2.924	3.044	2.948	2.916	2.903	2.921	2.855	2.844	2.8	2.799	2.842	2.890555	2.5	0.025	1
2,2-Dichloropropane	1.054	1.17	1.098	0.914	0.975	0.96	0.904	0.903	0.834	0.83	0.793	0.948677	12.46	0.125	1
CIS-1,2-DICHLOROETHENE	0.751	0.818	0.752	0.763	0.745	0.762	0.706	0.722	0.703	0.695	0.725	0.740099	4.8	0.048	1
-BUTANONE (MEK)			0.407	0.395	0.491	0.336	0.32	0.339	0.346	0.34	0.334	0.367562	14.89	0.149	1
BROMOCHLOROMETHANE	0.401	0.443	0.437	0.433	0.437	0.411	0.412	0.412	0.404	0.401	0.42	0.419163	3.76	0.038	1
TETRAHYDROFURAN	0.36	0.382	0.375	0.341	0.377	0.24	0.23	0.244	0.257	0.239	0.247	0.299454	22.07	0.996	0
CHLOROFORM	1.246	1.451	1.334	1.349	1.348	1.357	1.294	1.289	1.254	1.261	1.299	1.316691	4.54	0.045	1
DIBROMOFLUOROMETHANE	0.618	0.626	0.621	0.622	0.626	0.622	0.619	0.626	0.605	0.603	0.621	0.618921	1.28	0.013	1
1,1,1-TRICHLOROETHANE	0.866	1.079	1.029	1.027	1.083	1.033	1.034	1.018	0.991	0.987	1.014	1.014628	5.69	0.057	1
CARBON TETRACHLORIDE			1.077	1.023	1.003	0.954	0.946	0.917	0.908	0.906	0.945	0.964343	6.07	0.061	1
1,1-Dichloropropene	0.809	0.972	0.915	0.908	0.963	0.897	0.894	0.872	0.859	0.864	0.89	0.894777	5.16	0.052	1
2,2,4-TRIMETHYLPENTANE	3.814	3.927	3.035	3.184	3.575	3.184	3.418	3.257	3.256	3.266	3.386	3.391044	8.16	0.082	1
HEPTANE	1.351	1.319	1.366	1.326	1.417	1.32	1.335	1.29	1.328	1.323	1.37	1.340449	2.55	0.025	1
BENZENE	2.962	3.002	2.829	2.676	2.761	2.717	2.622	2.604	2.561	2.569	2.644	2.722517	5.57	0.056	1
1,2-DICHLOROETHANE	1.064	1.135	1.163	1.162	1.186	1.134	1.116	1.117	1.124	1.11	1.16	1.13371	2.95	0.029	1
8260-1,4-DIFLUOROBENZENE															
TRICHLOROETHENE	0.339	0.4	0.383	0.352	0.377	0.372	0.362	0.357	0.351	0.35	0.359	0.363777	4.83	0.048	1
,2-DICHLOROPROPANE	0.294	0.34	0.307	0.313	0.323	0.315	0.306	0.309	0.302	0.302	0.308	0.310832	3.92	0.039	1
DIBROMOMETHANE	0.317	0.302	0.267	0.272	0.282	0.256	0.245	0.252	0.249	0.24	0.248	0.266454	9.39	0.094	1

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INITIAL CALIBRATION SUMMARY

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Method	: V835J19O	Review Protocol	: EPA	Released On	: 10/20/2015 10:08:16 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.59	0.607	0.605	0.617	0.632	0.625	0.599	0.597	0.591	0.585	0.597	0.604113	2.5	0.025	1
a,a,a-Trifluorotoluene	0.541	0.538	0.536	0.528	0.529	0.527	0.518	0.516	0.489	0.484	0.47	0.516069	4.68	0.047	1
-CHLOROETHYL VINYL ETHER	0.21	0.234	0.232	0.231	0.254	0.222	0.223	0.229	0.242	0.233	0.242	0.23201	5.01	0.05	1
CIS-1,3-DICHLOROPROPENE	0.612	0.709	0.697	0.699	0.709	0.698	0.676	0.684	0.685	0.672	0.689	0.684515	3.94	0.039	1
4-METHYL-2-PENTANONE (MIBK)	0.492	0.542	0.498	0.513	0.616	0.457	0.443	0.474	0.487	0.452	0.452	0.493223	10.24	0.102	1
TOLUENE-D8	1.241	1.234	1.239	1.218	1.221	1.225	1.203	1.208	1.171	1.153	1.137	1.204607	2.94	0.029	1
TOLUENE	1.739	1.693	1.573	1.553	1.6	1.553	1.513	1.515	1.508	1.505	1.526	1.570733	4.99	0.05	1
TRANS-1,3-DICHLOROPROPENE	0.649	0.641	0.646	0.63	0.67	0.633	0.635	0.647	0.669	0.654	0.681	0.650498	2.54	0.025	1
8260-2-BROMO-1 -CHLOROPROPANE															
1,1,2-TRICHLOROETHANE	1.488	1.886	1.731	1.658	1.797	1.636	1.608	1.626	1.665	1.635	1.694	1.674924	6.21	0.062	1
TETRACHLOROETHENE	1.453	1.442	1.349	1.325	1.437	1.354	1.369	1.358	1.377	1.407	1.463	1.394149	3.45	0.035	1
1,3-Dichloropropane	3.089	3.231	3.274	3.158	3.372	3.091	3.087	3.136	3.18	3.131	3.23	3.180003	2.82	0.028	1
2-HEXANONE		1.112	1.035	1.026	1.19	0.843	0.807	0.826	0.863	0.813	0.823	0.933783	15.31	0.153	1
CHLORODIBROMOMETHANE	1.981	2.261	2.225	2.057	2.172	2.061	2.065	2.055	2.1	2.068	2.143	2.108057	3.95	0.04	1
1,2-DIBROMOETHANE	1.882	1.929	1.893	1.776	1.899	1.701	1.688	1.721	1.76	1.714	1.756	1.792784	5.03	0.05	1
CHLOROBENZENE	5.507	5.28	5.232	5.123	5.186	4.991	5.07	5.094	5.173	5.267	5.565	5.226284	3.37	0.034	1
1,1,1,2-TETRACHLOROETHANE	2.55	2.279	1.961	2.042	1.978	1.919	1.918	1.923	1.904	1.921	1.989	2.034874	9.9	0.099	1
ETHYLBENZENE	3.233	2.954	2.782	2.81	2.846	2.714	2.761	2.748	2.779	2.857	3.015	2.863581	5.31	0.053	1
M&P-XYLENE	3.713	3.637	3.34	3.405	3.482	3.403	3.4	3.417	3.443	3.501	3.676	3.492485	3.61	0.036	1
O-XYLENE	4.07	3.581	3.562	3.492	3.448	3.358	3.385	3.385	3.377	3.42	3.569	3.513384	5.76	0.058	1
STYRENE	5.675	5.99	5.914	6.014	5.819	5.789	5.825	5.824	5.851	5.969	6.168	5.8943 8	2.28	0.023	1
Bromoform	0.993	1.408	1.214	1.343	1.38	1.286	1.293	1.336	1.385	1.353	1.412	1.309445	9.18	0.092	1

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INITIAL CALIBRATION SUMMARY

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Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.448	9.416	8.997	9.005	9.608	9.004	9.195	9.191	9.114	9.212	9.532	9.156566	3.44	0.034	1
4-BROMOFLUOROBENZENE	2.848	2.832	2.802	2.757	2.741	2.719	2.755	2.77	2.743	2.755	2.705	2.766171	1.61	0.016	1
Bromobenzene	5.071	5.11	4.76	4.976	4.796	4.69	4.681	4.712	4.741	4.811	4.998	4.84958	3.27	0.033	1
1,1,2,2-TETRACHLOROETHANE	2.598	2.791	2.776	2.597	2.834	2.414	2.393	2.485	2.506	2.424	2.484	2.573009	6.25	0.062	1
1,2,3-TRICHLOROPROPANE			0.909	0.87	0.856	0.705	0.687	0.723	0.722	0.689	0.714	0.763658	11.5	0.115	1
TRANS-1,4-DICHLORO-2-BUTENE	0.955	0.924	1.027	1.083	1.114	0.839	0.861	0.847	0.906	0.875	0.91	0.940155	10.1	0.101	1
n-Propylbenzene	12.09	12.58	11.43	11.4	11.8	11.44	11.55	11.43	11.41	11.67	11.85	11.69557	3.16	0.032	1
4-ETHYLTOLUENE	9.96	10.12	9.18	9.2	9.5	9.22	9.4	9.27	9.27	9.37	9.55	9.45948	3.31	0.033	1
2-Chlorotoluene	2.138	2.194	2.221	2.122	2.178	2.103	2.144	2.155	2.165	2.227	2.344	2.181073	3.05	0.031	1
4-Chlorotoluene	8.304	7.579	7.202	7.292	7.367	7.295	7.278	7.24	7.115	7.275	7.352	7.390901	4.39	0.044	1
1,3,5-Trimethylbenzene	8.487	8.109	7.914	7.858	8.222	8.035	8.104	8.129	8.058	8.259	8.562	8.157918	2.65	0.026	1
tert-Butylbenzene	6.958	7.074	6.623	6.306	6.573	6.452	6.55	6.477	6.362	6.425	6.604	6.582146	3.61	0.036	1
1,2,4-Trimethylbenzene	8.33	8.701	8.252	8.108	8.319	8.235	8.167	8.222	7.984	8.136	8.254	8.246235	2.19	0.022	1
sec-Butylbenzene	10.19	10.49	9.940001	10.41	10.73	10.35	10.5	10.31	10.18	10.22	10.36	10.33564	2.01	0.02	1
1,3-DICHLOROBENZENE	4.489	4.581	4.506	4.43	4.305	4.299	4.309	4.293	4.257	4.326	4.4	4.381422	2.44	0.024	1
p-Isopropyltoluene	9.756	9.1	8.474	8.212	8.702	8.562	8.673	8.553	8.453	8.64	8.91	8.730222	4.73	0.047	1
DICYCLOPENTADIENE	11.21	11.88	11.14	11.19	11.54	11.37	11.46	11.49	11.15	11.23	11.48	11.37733	1.96	0.02	1
8260-1,4-DICHLOROBENZENE-D4															
1,4-DICHLOROBENZENE	2.055	1.851	1.702	1.673	1.628	1.665	1.591	1.603	1.618	1.638	1.658	1.698484	8.1	0.081	1
1,2,3-TRIMETHYLBENZENE	3.429	3.751	3.143	3.303	3.273	3.313	3.184	3.216	3.213	3.216	3.221	3.29651	5.14	0.051	1
1,2-DICHLOROBENZENE	1.483	1.586	1.543	1.58	1.547	1.547	1.469	1.494	1.491	1.48	1.473	1.517567	2.88	0.029	1
n-Butylbenzene	3.623	3.68	3.496	3.269	3.55	3.378	3.302	3.218	3.228	3.212	3.16	3.374048	5.43	0.054	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 624	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: EPA	Released On	: 10/20/2015 10:08:16 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane		0.178	0.194	0.187	0.237	0.175	0.164	0.17	0.173	0.16	0.159	0.179637	12.93	0.129	1
1,2,4-Trichlorobenzene	1.185	1.213	1.069	1.067	1.045	1.055	0.976	0.988	0.959	0.951	0.913	1.038324	9.14	0.091	1
HEXACHLORO-1,3-BUTADIENE	0.472	0.549	0.56	0.573	0.563	0.554	0.525	0.52	0.497	0.491	0.473	0.525338	7.06	0.071	1
Naphthalene				2.878	3.06	2.617	2.381	2.527	2.506	2.387	2.276	2.57918	10.35	0.103	1
1,2,3-Trichlorobenzene	1.195	1.068	0.98	1.04	1.012	0.985	0.898	0.926	0.89	0.874	0.822	0.971851	10.88	0.109	1
1-Methylnaphthalene		1.984	1.766	1.649	1.792	1.59	1.424	1.51	1.435	1.394	1.223	1.576888	14.34	0.143	1
2-Methylnaphthalene		1.585	1.401	1.424	1.56	1.325	1.186	1.256	1.189	1.129	0.981	1.30368	14.76	0.148	1
AP9-PENTAFLUOROBENZENE															
ETHANOL												0	0	0	1
Bromoethane												0	0	0	1
2-PROPANOL												0	0	0	1
Methyl Acetate												0	0	0	1
ACETONITRILE												0	0	0	1
ALLYL CHLORIDE												0	0	0	1
tert-BUTYL ALCOHOL												0	0	0	1
chloroprene												0	0	0	1
ETHYL TERT-BUTYL ETHER												0	0	0	1
PROPIONITRILE												0	0	0	1
Ethyl Acetate												0	0	0	1
METHACRYLONITRILE												0	0	0	1
Cyclohexane												0	0	0	1
tert-butyl formate												0	0	0	1
ISOBUTANOL												0	0	0	1
t-Amyl Alcohol												0	0	0	1
TERT-AMYL METHYL ETHER												0	0	0	1
AP9-1,4-DIFLUOROBENZENE															
N-BUTANOL												0	0	0	1
Methyl Cyclohexane												0	0	0	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	:	VOCMS35	Review Method	:	624	Released By	:	Amy Green
Method	:	V835J19O	Review Protocol	:	EPA	Released On	:	10/20/2015 10:08:16 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
2-nitropropane												0	0	0	1
METHYL METHACRYLATE												0	0	0	1
,4-DIOXANE												0	0	0	1
-octane												0	0	0	1
3,3-DIMETHYL-1-BUTANOL												0	0	0	1
AP9-2-BROMO-1 ACHLOROPROPANE															
ETHYL METHACRYLATE												0	0	0	1
CIS-1,4-DICHLORO-2-BUTENE												0	0	0	1
Cyclohexanone												0	0	0	1
PENTACHLOROETHANE												0	0	0	1
Hexachloroethane												0	0	0	1
AP9-1,4-DICHLOROBENZENE-D4															

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260SC	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: SC	Released On	: 10/20/2015 10:08:42 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE															
TPH (GC/MS) LOW FRACTION												0	0	0	1
PROPENE			0.279	0.25	0.229	0.189	0.166	0.169	0.151	0.151	0.153	0.193021	24.88	0.998	0
DICHLORODIFLUOROMETHANE	0.797	0.589	0.643	0.578	0.763	0.688	0.68	0.68	0.635	0.641	0.656	0.668234	9.84	0.098	1
CHLOROMETHANE		1.278	1.067	1.016	1.019	0.957	0.901	0.914	0.874	0.879	0.891	0.979677	12.7	0.127	1
VINYL CHLORIDE	0.954	1.03	1.023	0.988	1.05	0.997	0.952	0.957	0.907	0.908	0.919	0.971356	5.15	0.052	1
1,3-BUTADIENE			1.201	1.05	1.021	0.95	0.871	0.857	0.819	0.808	0.812	0.932018	14.5	0.145	1
BROMOMETHANE	0.582	0.654	0.587	0.663	0.645	0.617	0.589	0.6	0.576	0.577	0.61	0.609138	5.21	0.052	1
CHLOROETHANE	0.687	0.718	0.702	0.625	0.662	0.632	0.611	0.615	0.593	0.598	0.613	0.641442	6.79	0.068	1
TRICHLOROFLUOROMETHANE	1.522	1.498	1.252	1.246	1.309	1.25	1.212	1.206	1.164	1.156	1.192	1.273395	9.82	0.098	1
DICHLOROFLUOROMETHANE	1.318	1.589	1.651	1.625	1.697	1.655	1.579	1.572	1.508	1.506	1.546	1.567623	6.53	0.065	1
ETHYL ETHER	0.926	0.917	0.797	0.766	0.798	0.758	0.739	0.741	0.734	0.712	0.733	0.783644	9.32	0.093	1
ACROLEIN					0.023	0.015	0.014	0.013	0.012	0.012	0.012	0.014412	28.83	0.998	0
1,1-DICHLOROETHENE	1.339	1.552	1.364	1.37	1.417	1.338	1.269	1.256	1.238	1.169	1.276	1.32621	7.77	0.078	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.594	0.776	0.594	0.616	0.667	0.689	0.597	0.598	0.604	0.563	0.654	0.631868	9.62	0.096	1
ACETONE	0.568	0.384	0.317	0.281	0.32	0.206	0.199	0.225	0.224	0.219	0.22	0.287611	38.38	0.997	0
IODOMETHANE	0.861	0.98	0.939	0.971	1.003	0.984	0.958	0.974	0.957	0.978	1.033	0.967107	4.47	0.045	1
CARBON DISULFIDE	2.315	2.437	2.16	2.169	2.261	2.406	2.072	2.065	2.06	1.992	2.256	2.199222	6.73	0.067	1
METHYLENE CHLORIDE			0.903	0.79	0.754	0.734	0.695	0.692	0.671	0.675	0.695	0.734274	10.15	0.101	1
ACRYLONITRILE	0.266	0.28	0.267	0.261	0.35	0.247	0.239	0.251	0.258	0.243	0.253	0.264858	11.53	0.115	1
n-Hexane		0.773	0.662	0.667	0.686	0.629	0.624	0.605	0.608	0.607	0.629	0.649109	7.97	0.08	1
TRANS-1,2-DICHLOROETHENE	0.689	0.715	0.679	0.621	0.696	0.66	0.637	0.623	0.614	0.62	0.639	0.653754	5.44	0.054	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260SC	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: SC	Released On	: 10/20/2015 10:08:42 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.06	2.201	2.064	2.184	2.246	2.09	2.018	2.059	2.051	1.994	2.067	2.094102	3.83	0.038	1
1,1-DICHLOROETHANE	1.321	1.453	1.378	1.402	1.415	1.39	1.356	1.334	1.301	1.299	1.345	1.363098	3.61	0.036	1
VINYL ACETATE	1.62	1.689	1.697	1.775	1.874	1.53	1.477	1.57	1.5	1.454	1.337	1.59311	9.81	0.098	1
DI-ISOPROPYL ETHER	2.924	3.044	2.948	2.916	2.903	2.921	2.855	2.844	2.8	2.799	2.842	2.890555	2.5	0.025	1
2,2-Dichloropropane	1.054	1.17	1.098	0.914	0.975	0.96	0.904	0.903	0.834	0.83	0.793	0.948677	12.46	0.125	1
CIS-1,2-DICHLOROETHENE	0.751	0.818	0.752	0.763	0.745	0.762	0.706	0.722	0.703	0.695	0.725	0.740099	4.8	0.048	1
2-BUTANONE (MEK)			0.407	0.395	0.491	0.336	0.32	0.339	0.346	0.34	0.334	0.367562	14.89	0.149	1
BROMOCHLOROMETHANE	0.401	0.443	0.437	0.433	0.437	0.411	0.412	0.412	0.404	0.401	0.42	0.419163	3.76	0.038	1
TETRAHYDROFURAN	0.36	0.382	0.375	0.341	0.377	0.24	0.23	0.244	0.257	0.239	0.247	0.299454	22.07	0.996	0
CHLOROFORM	1.246	1.451	1.334	1.349	1.348	1.357	1.294	1.289	1.254	1.261	1.299	1.316691	4.54	0.045	1
DIBROMOFLUOROMETHANE	0.618	0.626	0.621	0.622	0.626	0.622	0.619	0.626	0.605	0.603	0.621	0.618921	1.28	0.013	1
1,1,1-TRICHLOROETHANE	0.866	1.079	1.029	1.027	1.083	1.033	1.034	1.018	0.991	0.987	1.014	1.014628	5.69	0.057	1
CARBON TETRACHLORIDE			1.077	1.023	1.003	0.954	0.946	0.917	0.908	0.906	0.945	0.964343	6.07	0.061	1
1,1-Dichloropropene	0.809	0.972	0.915	0.908	0.963	0.897	0.894	0.872	0.859	0.864	0.89	0.894777	5.16	0.052	1
2,2,4-TRIMETHYLPENTANE	3.814	3.927	3.035	3.184	3.575	3.184	3.418	3.257	3.256	3.266	3.386	3.391044	8.16	0.082	1
HEPTANE	1.351	1.319	1.366	1.326	1.417	1.32	1.335	1.29	1.328	1.323	1.37	1.340449	2.55	0.025	1
BENZENE	2.962	3.002	2.829	2.676	2.761	2.717	2.622	2.604	2.561	2.569	2.644	2.722517	5.57	0.056	1
1,2-DICHLOROETHANE	1.064	1.135	1.163	1.162	1.186	1.134	1.116	1.117	1.124	1.11	1.16	1.13371	2.95	0.029	1
8260-1,4-DIFLUOROBENZENE															
TRICHLOROETHENE	0.339	0.4	0.383	0.352	0.377	0.372	0.362	0.357	0.351	0.35	0.359	0.363777	4.83	0.048	1
1,2-DICHLOROPROPANE	0.294	0.34	0.307	0.313	0.323	0.315	0.306	0.309	0.302	0.302	0.308	0.310832	3.92	0.039	1
DIBROMOMETHANE	0.317	0.302	0.267	0.272	0.282	0.256	0.245	0.252	0.249	0.24	0.248	0.266454	9.39	0.094	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260SC	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: SC	Released On	: 10/20/2015 10:08:42 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.59	0.607	0.605	0.617	0.632	0.625	0.599	0.597	0.591	0.585	0.597	0.604113	2.5	0.025	1
α,a,a-Trifluorotoluene	0.541	0.538	0.536	0.528	0.529	0.527	0.518	0.516	0.489	0.484	0.47	0.516069	4.68	0.047	1
2-CHLOROETHYL VINYL ETHER	0.21	0.234	0.232	0.231	0.254	0.222	0.223	0.229	0.242	0.233	0.242	0.23201	5.01	0.05	1
CIS-1,3-DICHLOROPROPENE	0.612	0.709	0.697	0.699	0.709	0.698	0.676	0.684	0.685	0.672	0.689	0.684515	3.94	0.039	1
4-METHYL-2-PENTANONE (MIBK)	0.492	0.542	0.498	0.513	0.616	0.457	0.443	0.474	0.487	0.452	0.452	0.493223	10.24	0.102	1
TOLUENE-D8	1.241	1.234	1.239	1.218	1.221	1.225	1.203	1.208	1.171	1.153	1.137	1.204607	2.94	0.029	1
TOLUENE	1.739	1.693	1.573	1.553	1.6	1.553	1.513	1.515	1.508	1.505	1.526	1.570733	4.99	0.05	1
TRANS-1,3-DICHLOROPROPENE	0.649	0.641	0.646	0.63	0.67	0.633	0.635	0.647	0.669	0.654	0.681	0.650498	2.54	0.025	1
8260-2-BROMO-1 -CHLOROPROPANE															
1,1,2-TRICHLOROETHANE	1.488	1.886	1.731	1.658	1.797	1.636	1.608	1.626	1.665	1.635	1.694	1.674924	6.21	0.062	1
TETRACHLOROETHENE	1.453	1.442	1.349	1.325	1.437	1.354	1.369	1.358	1.377	1.407	1.463	1.394149	3.45	0.035	1
1,3-Dichloropropane	3.089	3.231	3.274	3.158	3.372	3.091	3.087	3.136	3.18	3.131	3.23	3.180003	2.82	0.028	1
2-HEXANONE		1.112	1.035	1.026	1.19	0.843	0.807	0.826	0.863	0.813	0.823	0.933783	15.31	0.153	1
CHLORODIBROMOMETHANE	1.981	2.261	2.225	2.057	2.172	2.061	2.065	2.055	2.1	2.068	2.143	2.108057	3.95	0.04	1
1,2-DIBROMOETHANE	1.882	1.929	1.893	1.776	1.899	1.701	1.688	1.721	1.76	1.714	1.756	1.792784	5.03	0.05	1
CHLOROBENZENE	5.507	5.28	5.232	5.123	5.186	4.991	5.07	5.094	5.173	5.267	5.565	5.226284	3.37	0.034	1
1,1,1,2-TETRACHLOROETHANE	2.55	2.279	1.961	2.042	1.978	1.919	1.918	1.923	1.904	1.921	1.989	2.034874	9.9	0.099	1
ETHYLBENZENE	3.233	2.954	2.782	2.81	2.846	2.714	2.761	2.748	2.779	2.857	3.015	2.863581	5.31	0.053	1
M&P-XYLENE	3.713	3.637	3.34	3.405	3.482	3.403	3.4	3.417	3.443	3.501	3.676	3.492485	3.61	0.036	1
O-XYLENE	4.07	3.581	3.562	3.492	3.448	3.358	3.385	3.385	3.377	3.42	3.569	3.513384	5.76	0.058	1
STYRENE	5.675	5.99	5.914	6.014	5.819	5.789	5.825	5.824	5.851	5.969	6.168	5.8943 8	2.28	0.023	1
Bromoform	0.993	1.408	1.214	1.343	1.38	1.286	1.293	1.336	1.385	1.353	1.412	1.309445	9.18	0.092	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260SC	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: SC	Released On	: 10/20/2015 10:08:42 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.448	9.416	8.997	9.005	9.608	9.004	9.195	9.191	9.114	9.212	9.532	9.156566	3.44	0.034	1
4-BROMOFLUOROBENZENE	2.848	2.832	2.802	2.757	2.741	2.719	2.755	2.77	2.743	2.755	2.705	2.766171	1.61	0.016	1
Bromobenzene	5.071	5.11	4.76	4.976	4.796	4.69	4.681	4.712	4.741	4.811	4.998	4.84958	3.27	0.033	1
1,1,2,2-TETRACHLOROETHANE	2.598	2.791	2.776	2.597	2.834	2.414	2.393	2.485	2.506	2.424	2.484	2.573009	6.25	0.062	1
1,2,3-TRICHLOROPROPANE			0.909	0.87	0.856	0.705	0.687	0.723	0.722	0.689	0.714	0.763658	11.5	0.115	1
TRANS-1,4-DICHLORO-2-BUTENE	0.955	0.924	1.027	1.083	1.114	0.839	0.861	0.847	0.906	0.875	0.91	0.940155	10.1	0.101	1
n-Propylbenzene	12.09	12.58	11.43	11.4	11.8	11.44	11.55	11.43	11.41	11.67	11.85	11.69557	3.16	0.032	1
4-ETHYLTOLUENE	9.96	10.12	9.18	9.2	9.5	9.22	9.4	9.27	9.27	9.37	9.55	9.45948	3.31	0.033	1
2-Chlorotoluene	2.138	2.194	2.221	2.122	2.178	2.103	2.144	2.155	2.165	2.227	2.344	2.181073	3.05	0.031	1
4-Chlorotoluene	8.304	7.579	7.202	7.292	7.367	7.295	7.278	7.24	7.115	7.275	7.352	7.390901	4.39	0.044	1
1,3,5-Trimethylbenzene	8.487	8.109	7.914	7.858	8.222	8.035	8.104	8.129	8.058	8.259	8.562	8.157918	2.65	0.026	1
tert-Butylbenzene	6.958	7.074	6.623	6.306	6.573	6.452	6.55	6.477	6.362	6.425	6.604	6.582146	3.61	0.036	1
1,2,4-Trimethylbenzene	8.33	8.701	8.252	8.108	8.319	8.235	8.167	8.222	7.984	8.136	8.254	8.246235	2.19	0.022	1
sec-Butylbenzene	10.19	10.49	9.940001	10.41	10.73	10.35	10.5	10.31	10.18	10.22	10.36	10.33564	2.01	0.02	1
1,3-DICHLOROBENZENE	4.489	4.581	4.506	4.43	4.305	4.299	4.309	4.293	4.257	4.326	4.4	4.381422	2.44	0.024	1
p-Isopropyltoluene	9.756	9.1	8.474	8.212	8.702	8.562	8.673	8.553	8.453	8.64	8.91	8.730222	4.73	0.047	1
DICYCLOPENTADIENE	11.21	11.88	11.14	11.19	11.54	11.37	11.46	11.49	11.15	11.23	11.48	11.37733	1.96	0.02	1
8260-1,4-DICHLOROBENZENE-D4															
1,4-DICHLOROBENZENE	2.055	1.851	1.702	1.673	1.628	1.665	1.591	1.603	1.618	1.638	1.658	1.698484	8.1	0.081	1
1,2,3-TRIMETHYLBENZENE	3.429	3.751	3.143	3.303	3.273	3.313	3.184	3.216	3.213	3.216	3.221	3.29651	5.14	0.051	1
1,2-DICHLOROBENZENE	1.483	1.586	1.543	1.58	1.547	1.547	1.469	1.494	1.491	1.48	1.473	1.517567	2.88	0.029	1
n-Butylbenzene	3.623	3.68	3.496	3.269	3.55	3.378	3.302	3.218	3.228	3.212	3.16	3.374048	5.43	0.054	1

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

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Method	: V835J19O	Review Protocol	: SC	Released On	: 10/20/2015 10:08:42 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane		0.178	0.194	0.187	0.237	0.175	0.164	0.17	0.173	0.16	0.159	0.179637	12.93	0.129	1
1,2,4-Trichlorobenzene	1.185	1.213	1.069	1.067	1.045	1.055	0.976	0.988	0.959	0.951	0.913	1.038324	9.14	0.091	1
HEXACHLORO-1,3-BUTADIENE	0.472	0.549	0.56	0.573	0.563	0.554	0.525	0.52	0.497	0.491	0.473	0.525338	7.06	0.071	1
Naphthalene				2.878	3.06	2.617	2.381	2.527	2.506	2.387	2.276	2.57918	10.35	0.103	1
1,2,3-Trichlorobenzene	1.195	1.068	0.98	1.04	1.012	0.985	0.898	0.926	0.89	0.874	0.822	0.971851	10.88	0.109	1
1-Methylnaphthalene		1.984	1.766	1.649	1.792	1.59	1.424	1.51	1.435	1.394	1.223	1.576888	14.34	0.143	1
2-Methylnaphthalene		1.585	1.401	1.424	1.56	1.325	1.186	1.256	1.189	1.129	0.981	1.30368	14.76	0.148	1
AP9-PENTAFLUOROBENZENE															
ETHANOL												0	0	0	1
Bromoethane												0	0	0	1
2-PROPANOL												0	0	0	1
Methyl Acetate												0	0	0	1
ACETONITRILE												0	0	0	1
ALLYL CHLORIDE												0	0	0	1
tert-BUTYL ALCOHOL												0	0	0	1
chloroprene												0	0	0	1
ETHYL TERT-BUTYL ETHER												0	0	0	1
PROPIONITRILE												0	0	0	1
Ethyl Acetate												0	0	0	1
METHACRYLONITRILE												0	0	0	1
Cyclohexane												0	0	0	1
tert-butyl formate												0	0	0	1
ISOBUTANOL												0	0	0	1
t-Amyl Alcohol												0	0	0	1
TERT-AMYL METHYL ETHER												0	0	0	1
AP9-1,4-DIFLUOROBENZENE															
N-BUTANOL												0	0	0	1
Methyl Cyclohexane												0	0	0	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260SC	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: SC	Released On	: 10/20/2015 10:08:42 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
2-nitropropane												0	0	0	1
METHYL METHACRYLATE												0	0	0	1
,4-DIOXANE												0	0	0	1
-octane												0	0	0	1
3,3-DIMETHYL-1-BUTANOL												0	0	0	1
AP9-2-BROMO-1 ACHLOROPROPANE															
ETHYL METHACRYLATE												0	0	0	1
CIS-1,4-DICHLORO-2-BUTENE												0	0	0	1
Cyclohexanone												0	0	0	1
PENTACHLOROETHANE												0	0	0	1
Hexachloroethane												0	0	0	1
AP9-1,4-DICHLOROBENZENE-D4															

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260B	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: SW846	Released On	: 10/20/2015 10:09:10 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE															
TPH (GC/MS) LOW FRACTION												0	0	0	1
PROPENE			0.279	0.25	0.229	0.189	0.166	0.169	0.151	0.151	0.153	0.193021	24.88	0.998	0
DICHLORODIFLUOROMETHANE	0.797	0.589	0.643	0.578	0.763	0.688	0.68	0.68	0.635	0.641	0.656	0.668234	9.84	0.098	1
CHLOROMETHANE		1.278	1.067	1.016	1.019	0.957	0.901	0.914	0.874	0.879	0.891	0.979677	12.7	0.127	1
VINYL CHLORIDE	0.954	1.03	1.023	0.988	1.05	0.997	0.952	0.957	0.907	0.908	0.919	0.971356	5.15	0.052	1
1,3-BUTADIENE			1.201	1.05	1.021	0.95	0.871	0.857	0.819	0.808	0.812	0.932018	14.5	0.145	1
BROMOMETHANE	0.582	0.654	0.587	0.663	0.645	0.617	0.589	0.6	0.576	0.577	0.61	0.609138	5.21	0.052	1
CHLOROETHANE	0.687	0.718	0.702	0.625	0.662	0.632	0.611	0.615	0.593	0.598	0.613	0.641442	6.79	0.068	1
TRICHLOROFLUOROMETHANE	1.522	1.498	1.252	1.246	1.309	1.25	1.212	1.206	1.164	1.156	1.192	1.273395	9.82	0.098	1
DICHLOROFLUOROMETHANE	1.318	1.589	1.651	1.625	1.697	1.655	1.579	1.572	1.508	1.506	1.546	1.567623	6.53	0.065	1
ETHYL ETHER	0.926	0.917	0.797	0.766	0.798	0.758	0.739	0.741	0.734	0.712	0.733	0.783644	9.32	0.093	1
ACROLEIN					0.023	0.015	0.014	0.013	0.012	0.012	0.012	0.014412	28.83	0.998	0
1,1-DICHLOROETHENE	1.339	1.552	1.364	1.37	1.417	1.338	1.269	1.256	1.238	1.169	1.276	1.32621	7.77	0.078	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.594	0.776	0.594	0.616	0.667	0.689	0.597	0.598	0.604	0.563	0.654	0.631868	9.62	0.096	1
ACETONE	0.568	0.384	0.317	0.281	0.32	0.206	0.199	0.225	0.224	0.219	0.22	0.287611	38.38	0.997	0
IODOMETHANE	0.861	0.98	0.939	0.971	1.003	0.984	0.958	0.974	0.957	0.978	1.033	0.967107	4.47	0.045	1
CARBON DISULFIDE	2.315	2.437	2.16	2.169	2.261	2.406	2.072	2.065	2.06	1.992	2.256	2.199222	6.73	0.067	1
METHYLENE CHLORIDE			0.903	0.79	0.754	0.734	0.695	0.692	0.671	0.675	0.695	0.734274	10.15	0.101	1
ACRYLONITRILE	0.266	0.28	0.267	0.261	0.35	0.247	0.239	0.251	0.258	0.243	0.253	0.264858	11.53	0.115	1
n-Hexane		0.773	0.662	0.667	0.686	0.629	0.624	0.605	0.608	0.607	0.629	0.649109	7.97	0.08	1
TRANS-1,2-DICHLOROETHENE	0.689	0.715	0.679	0.621	0.696	0.66	0.637	0.623	0.614	0.62	0.639	0.653754	5.44	0.054	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260B	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: SW846	Released On	: 10/20/2015 10:09:10 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.06	2.201	2.064	2.184	2.246	2.09	2.018	2.059	2.051	1.994	2.067	2.094102	3.83	0.038	1
1,1-DICHLOROETHANE	1.321	1.453	1.378	1.402	1.415	1.39	1.356	1.334	1.301	1.299	1.345	1.363098	3.61	0.036	1
VINYL ACETATE	1.62	1.689	1.697	1.775	1.874	1.53	1.477	1.57	1.5	1.454	1.337	1.59311	9.81	0.098	1
DI-ISOPROPYL ETHER	2.924	3.044	2.948	2.916	2.903	2.921	2.855	2.844	2.8	2.799	2.842	2.890555	2.5	0.025	1
2,2-Dichloropropane	1.054	1.17	1.098	0.914	0.975	0.96	0.904	0.903	0.834	0.83	0.793	0.948677	12.46	0.125	1
CIS-1,2-DICHLOROETHENE	0.751	0.818	0.752	0.763	0.745	0.762	0.706	0.722	0.703	0.695	0.725	0.740099	4.8	0.048	1
2-BUTANONE (MEK)			0.407	0.395	0.491	0.336	0.32	0.339	0.346	0.34	0.334	0.367562	14.89	0.149	1
BROMOCHLOROMETHANE	0.401	0.443	0.437	0.433	0.437	0.411	0.412	0.412	0.404	0.401	0.42	0.419163	3.76	0.038	1
TETRAHYDROFURAN	0.36	0.382	0.375	0.341	0.377	0.24	0.23	0.244	0.257	0.239	0.247	0.299454	22.07	0.996	0
CHLOROFORM	1.246	1.451	1.334	1.349	1.348	1.357	1.294	1.289	1.254	1.261	1.299	1.316691	4.54	0.045	1
DIBROMOFLUOROMETHANE	0.618	0.626	0.621	0.622	0.626	0.622	0.619	0.626	0.605	0.603	0.621	0.618921	1.28	0.013	1
1,1,1-TRICHLOROETHANE	0.866	1.079	1.029	1.027	1.083	1.033	1.034	1.018	0.991	0.987	1.014	1.014628	5.69	0.057	1
CARBON TETRACHLORIDE			1.077	1.023	1.003	0.954	0.946	0.917	0.908	0.906	0.945	0.964343	6.07	0.061	1
1,1-Dichloropropene	0.809	0.972	0.915	0.908	0.963	0.897	0.894	0.872	0.859	0.864	0.89	0.894777	5.16	0.052	1
2,2,4-TRIMETHYLPENTANE	3.814	3.927	3.035	3.184	3.575	3.184	3.418	3.257	3.256	3.266	3.386	3.391044	8.16	0.082	1
HEPTANE	1.351	1.319	1.366	1.326	1.417	1.32	1.335	1.29	1.328	1.323	1.37	1.340449	2.55	0.025	1
BENZENE	2.962	3.002	2.829	2.676	2.761	2.717	2.622	2.604	2.561	2.569	2.644	2.722517	5.57	0.056	1
1,2-DICHLOROETHANE	1.064	1.135	1.163	1.162	1.186	1.134	1.116	1.117	1.124	1.11	1.16	1.13371	2.95	0.029	1
8260-1,4-DIFLUOROBENZENE															
TRICHLOROETHENE	0.339	0.4	0.383	0.352	0.377	0.372	0.362	0.357	0.351	0.35	0.359	0.363777	4.83	0.048	1
1,2-DICHLOROPROPANE	0.294	0.34	0.307	0.313	0.323	0.315	0.306	0.309	0.302	0.302	0.308	0.310832	3.92	0.039	1
DIBROMOMETHANE	0.317	0.302	0.267	0.272	0.282	0.256	0.245	0.252	0.249	0.24	0.248	0.266454	9.39	0.094	1

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Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.59	0.607	0.605	0.617	0.632	0.625	0.599	0.597	0.591	0.585	0.597	0.604113	2.5	0.025	1
a,a,a-Trifluorotoluene	0.541	0.538	0.536	0.528	0.529	0.527	0.518	0.516	0.489	0.484	0.47	0.516069	4.68	0.047	1
-CHLOROETHYL VINYL ETHER	0.21	0.234	0.232	0.231	0.254	0.222	0.223	0.229	0.242	0.233	0.242	0.23201	5.01	0.05	1
CIS-1,3-DICHLOROPROPENE	0.612	0.709	0.697	0.699	0.709	0.698	0.676	0.684	0.685	0.672	0.689	0.684515	3.94	0.039	1
-METHYL-2-PENTANONE (MIBK)	0.492	0.542	0.498	0.513	0.616	0.457	0.443	0.474	0.487	0.452	0.452	0.493223	10.24	0.102	1
TOLUENE-D8	1.241	1.234	1.239	1.218	1.221	1.225	1.203	1.208	1.171	1.153	1.137	1.204607	2.94	0.029	1
TOLUENE	1.739	1.693	1.573	1.553	1.6	1.553	1.513	1.515	1.508	1.505	1.526	1.570733	4.99	0.05	1
TRANS-1,3-DICHLOROPROPENE	0.649	0.641	0.646	0.63	0.67	0.633	0.635	0.647	0.669	0.654	0.681	0.650498	2.54	0.025	1
8260-2-BROMO-1 -CHLOROPROPANE															
1,1,2-TRICHLOROETHANE	1.488	1.886	1.731	1.658	1.797	1.636	1.608	1.626	1.665	1.635	1.694	1.674924	6.21	0.062	1
TETRACHLOROETHENE	1.453	1.442	1.349	1.325	1.437	1.354	1.369	1.358	1.377	1.407	1.463	1.394149	3.45	0.035	1
1,3-Dichloropropane	3.089	3.231	3.274	3.158	3.372	3.091	3.087	3.136	3.18	3.131	3.23	3.180003	2.82	0.028	1
2-HEXANONE		1.112	1.035	1.026	1.19	0.843	0.807	0.826	0.863	0.813	0.823	0.933783	15.31	0.153	1
CHLORODIBROMOMETHANE	1.981	2.261	2.225	2.057	2.172	2.061	2.065	2.055	2.1	2.068	2.143	2.108057	3.95	0.04	1
1,2-DIBROMOETHANE	1.882	1.929	1.893	1.776	1.899	1.701	1.688	1.721	1.76	1.714	1.756	1.792784	5.03	0.05	1
CHLOROBENZENE	5.507	5.28	5.232	5.123	5.186	4.991	5.07	5.094	5.173	5.267	5.565	5.226284	3.37	0.034	1
1,1,1,2-TETRACHLOROETHANE	2.55	2.279	1.961	2.042	1.978	1.919	1.918	1.923	1.904	1.921	1.989	2.034874	9.9	0.099	1
ETHYLBENZENE	3.233	2.954	2.782	2.81	2.846	2.714	2.761	2.748	2.779	2.857	3.015	2.863581	5.31	0.053	1
M&P-XYLENE	3.713	3.637	3.34	3.405	3.482	3.403	3.4	3.417	3.443	3.501	3.676	3.492485	3.61	0.036	1
O-XYLENE	4.07	3.581	3.562	3.492	3.448	3.358	3.385	3.385	3.377	3.42	3.569	3.513384	5.76	0.058	1
STYRENE	5.675	5.99	5.914	6.014	5.819	5.789	5.825	5.824	5.851	5.969	6.168	5.8943 8	2.28	0.023	1
Bromoform	0.993	1.408	1.214	1.343	1.38	1.286	1.293	1.336	1.385	1.353	1.412	1.309445	9.18	0.092	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260B	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: SW846	Released On	: 10/20/2015 10:09:10 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.448	9.416	8.997	9.005	9.608	9.004	9.195	9.191	9.114	9.212	9.532	9.156566	3.44	0.034	1
4-BROMOFLUOROBENZENE	2.848	2.832	2.802	2.757	2.741	2.719	2.755	2.77	2.743	2.755	2.705	2.766171	1.61	0.016	1
Bromobenzene	5.071	5.11	4.76	4.976	4.796	4.69	4.681	4.712	4.741	4.811	4.998	4.84958	3.27	0.033	1
1,1,2,2-TETRACHLOROETHANE	2.598	2.791	2.776	2.597	2.834	2.414	2.393	2.485	2.506	2.424	2.484	2.573009	6.25	0.062	1
1,2,3-TRICHLOROPROPANE			0.909	0.87	0.856	0.705	0.687	0.723	0.722	0.689	0.714	0.763658	11.5	0.115	1
TRANS-1,4-DICHLORO-2-BUTENE	0.955	0.924	1.027	1.083	1.114	0.839	0.861	0.847	0.906	0.875	0.91	0.940155	10.1	0.101	1
n-Propylbenzene	12.09	12.58	11.43	11.4	11.8	11.44	11.55	11.43	11.41	11.67	11.85	11.69557	3.16	0.032	1
4-ETHYLTOLUENE	9.96	10.12	9.18	9.2	9.5	9.22	9.4	9.27	9.27	9.37	9.55	9.45948	3.31	0.033	1
2-Chlorotoluene	2.138	2.194	2.221	2.122	2.178	2.103	2.144	2.155	2.165	2.227	2.344	2.181073	3.05	0.031	1
4-Chlorotoluene	8.304	7.579	7.202	7.292	7.367	7.295	7.278	7.24	7.115	7.275	7.352	7.390901	4.39	0.044	1
1,3,5-Trimethylbenzene	8.487	8.109	7.914	7.858	8.222	8.035	8.104	8.129	8.058	8.259	8.562	8.157918	2.65	0.026	1
tert-Butylbenzene	6.958	7.074	6.623	6.306	6.573	6.452	6.55	6.477	6.362	6.425	6.604	6.582146	3.61	0.036	1
1,2,4-Trimethylbenzene	8.33	8.701	8.252	8.108	8.319	8.235	8.167	8.222	7.984	8.136	8.254	8.246235	2.19	0.022	1
sec-Butylbenzene	10.19	10.49	9.940001	10.41	10.73	10.35	10.5	10.31	10.18	10.22	10.36	10.33564	2.01	0.02	1
1,3-DICHLOROBENZENE	4.489	4.581	4.506	4.43	4.305	4.299	4.309	4.293	4.257	4.326	4.4	4.381422	2.44	0.024	1
p-Isopropyltoluene	9.756	9.1	8.474	8.212	8.702	8.562	8.673	8.553	8.453	8.64	8.91	8.730222	4.73	0.047	1
DICYCLOPENTADIENE	11.21	11.88	11.14	11.19	11.54	11.37	11.46	11.49	11.15	11.23	11.48	11.37733	1.96	0.02	1
8260-1,4-DICHLOROBENZENE-D4															
1,4-DICHLOROBENZENE	2.055	1.851	1.702	1.673	1.628	1.665	1.591	1.603	1.618	1.638	1.658	1.698484	8.1	0.081	1
1,2,3-TRIMETHYLBENZENE	3.429	3.751	3.143	3.303	3.273	3.313	3.184	3.216	3.213	3.216	3.221	3.29651	5.14	0.051	1
1,2-DICHLOROBENZENE	1.483	1.586	1.543	1.58	1.547	1.547	1.469	1.494	1.491	1.48	1.473	1.517567	2.88	0.029	1
n-Butylbenzene	3.623	3.68	3.496	3.269	3.55	3.378	3.302	3.218	3.228	3.212	3.16	3.374048	5.43	0.054	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260B	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: SW846	Released On	: 10/20/2015 10:09:10 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane		0.178	0.194	0.187	0.237	0.175	0.164	0.17	0.173	0.16	0.159	0.179637	12.93	0.129	1
1,2,4-Trichlorobenzene	1.185	1.213	1.069	1.067	1.045	1.055	0.976	0.988	0.959	0.951	0.913	1.038324	9.14	0.091	1
HEXACHLORO-1,3-BUTADIENE	0.472	0.549	0.56	0.573	0.563	0.554	0.525	0.52	0.497	0.491	0.473	0.525338	7.06	0.071	1
Naphthalene				2.878	3.06	2.617	2.381	2.527	2.506	2.387	2.276	2.57918	10.35	0.103	1
1,2,3-Trichlorobenzene	1.195	1.068	0.98	1.04	1.012	0.985	0.898	0.926	0.89	0.874	0.822	0.971851	10.88	0.109	1
1-Methylnaphthalene		1.984	1.766	1.649	1.792	1.59	1.424	1.51	1.435	1.394	1.223	1.576888	14.34	0.143	1
2-Methylnaphthalene		1.585	1.401	1.424	1.56	1.325	1.186	1.256	1.189	1.129	0.981	1.30368	14.76	0.148	1
AP9-PENTAFLUOROBENZENE															
ETHANOL												0	0	0	1
Bromoethane												0	0	0	1
2-PROPANOL												0	0	0	1
Methyl Acetate												0	0	0	1
ACETONITRILE												0	0	0	1
ALLYL CHLORIDE												0	0	0	1
tert-BUTYL ALCOHOL												0	0	0	1
chloroprene												0	0	0	1
ETHYL TERT-BUTYL ETHER												0	0	0	1
PROPIONITRILE												0	0	0	1
Ethyl Acetate												0	0	0	1
METHACRYLONITRILE												0	0	0	1
Cyclohexane												0	0	0	1
tert-butyl formate												0	0	0	1
ISOBUTANOL												0	0	0	1
t-Amyl Alcohol												0	0	0	1
TERT-AMYL METHYL ETHER												0	0	0	1
AP9-1,4-DIFLUOROBENZENE															
N-BUTANOL												0	0	0	1
Methyl Cyclohexane												0	0	0	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	:	VOCMS35	Review Method	:	8260B	Released By	:	Amy Green
Method	:	V835J19O	Review Protocol	:	SW846	Released On	:	10/20/2015 10:09:10 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur
2-nitropropane												0	0	0	1
METHYL METHACRYLATE												0	0	0	1
,4-DIOXANE												0	0	0	1
-octane												0	0	0	1
3,3-DIMETHYL-1-BUTANOL												0	0	0	1
AP9-2-BROMO-1 ACHLOROPROPANE															
ETHYL METHACRYLATE												0	0	0	1
CIS-1,4-DICHLORO-2-BUTENE												0	0	0	1
Cyclohexanone												0	0	0	1
PENTACHLOROETHANE												0	0	0	1
Hexachloroethane												0	0	0	1
AP9-1,4-DICHLOROBENZENE-D4															

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260C	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: SW846	Released On	: 10/20/2015 10:09:37 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur	RF
8260-PENTAFLUOROBENZENE																
TPH (GC/MS) LOW FRACTION												0	0	0	1	
PROPENE			0.279	0.25	0.229	0.189	0.166	0.169	0.151	0.151	0.153	0.193021	24.88	0.998	0	
DICHLORODIFLUOROMETHANE	0.797	0.589	0.643	0.578	0.763	0.688	0.68	0.68	0.635	0.641	0.656	0.668234	9.84	0.098	1	0.1
CHLOROMETHANE		1.278	1.067	1.016	1.019	0.957	0.901	0.914	0.874	0.879	0.891	0.979677	12.7	0.127	1	0.1
VINYL CHLORIDE	0.954	1.03	1.023	0.988	1.05	0.997	0.952	0.957	0.907	0.908	0.919	0.971356	5.15	0.052	1	0.1
1,3-BUTADIENE			1.201	1.05	1.021	0.95	0.871	0.857	0.819	0.808	0.812	0.932018	14.5	0.145	1	
BROMOMETHANE	0.582	0.654	0.587	0.663	0.645	0.617	0.589	0.6	0.576	0.577	0.61	0.609138	5.21	0.052	1	0.1
CHLOROETHANE	0.687	0.718	0.702	0.625	0.662	0.632	0.611	0.615	0.593	0.598	0.613	0.641442	6.79	0.068	1	0.1
TRICHLOROFLUOROMETHANE	1.522	1.498	1.252	1.246	1.309	1.25	1.212	1.206	1.164	1.156	1.192	1.273395	9.82	0.098	1	0.1
DICHLOROFLUOROMETHANE	1.318	1.589	1.651	1.625	1.697	1.655	1.579	1.572	1.508	1.506	1.546	1.567623	6.53	0.065	1	
ETHYL ETHER	0.926	0.917	0.797	0.766	0.798	0.758	0.739	0.741	0.734	0.712	0.733	0.783644	9.32	0.093	1	
ACROLEIN					0.023	0.015	0.014	0.013	0.012	0.012	0.012	0.014412	28.83	0.998	0	
1,1-DICHLOROETHENE	1.339	1.552	1.364	1.37	1.417	1.338	1.269	1.256	1.238	1.169	1.276	1.32621	7.77	0.078	1	0.1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.594	0.776	0.594	0.616	0.667	0.689	0.597	0.598	0.604	0.563	0.654	0.631868	9.62	0.096	1	0.1
ACETONE	0.568	0.384	0.317	0.281	0.32	0.206	0.199	0.225	0.224	0.219	0.22	0.287611	38.38	0.997	0	0.1
IODOMETHANE	0.861	0.98	0.939	0.971	1.003	0.984	0.958	0.974	0.957	0.978	1.033	0.967107	4.47	0.045	1	
CARBON DISULFIDE	2.315	2.437	2.16	2.169	2.261	2.406	2.072	2.065	2.06	1.992	2.256	2.199222	6.73	0.067	1	0.1
METHYLENE CHLORIDE			0.903	0.79	0.754	0.734	0.695	0.692	0.671	0.675	0.695	0.734274	10.15	0.101	1	0.1
ACRYLONITRILE	0.266	0.28	0.267	0.261	0.35	0.247	0.239	0.251	0.258	0.243	0.253	0.264858	11.53	0.115	1	
n-Hexane		0.773	0.662	0.667	0.686	0.629	0.624	0.605	0.608	0.607	0.629	0.649109	7.97	0.08	1	
TRANS-1,2-DICHLOROETHENE	0.689	0.715	0.679	0.621	0.696	0.66	0.637	0.623	0.614	0.62	0.639	0.653754	5.44	0.054	1	0.1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260C	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: SW846	Released On	: 10/20/2015 10:09:37 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur	RF
METHYL TERT-BUTYL ETHER	2.06	2.201	2.064	2.184	2.246	2.09	2.018	2.059	2.051	1.994	2.067	2.094102	3.83	0.038	1	0.1
1,1-DICHLOROETHANE	1.321	1.453	1.378	1.402	1.415	1.39	1.356	1.334	1.301	1.299	1.345	1.363098	3.61	0.036	1	0.2
VINYL ACETATE	1.62	1.689	1.697	1.775	1.874	1.53	1.477	1.57	1.5	1.454	1.337	1.59311	9.81	0.098	1	
DI-ISOPROPYL ETHER	2.924	3.044	2.948	2.916	2.903	2.921	2.855	2.844	2.8	2.799	2.842	2.890555	2.5	0.025	1	
2,2-Dichloropropane	1.054	1.17	1.098	0.914	0.975	0.96	0.904	0.903	0.834	0.83	0.793	0.948677	12.46	0.125	1	
CIS-1,2-DICHLOROETHENE	0.751	0.818	0.752	0.763	0.745	0.762	0.706	0.722	0.703	0.695	0.725	0.740099	4.8	0.048	1	0.1
2-BUTANONE (MEK)			0.407	0.395	0.491	0.336	0.32	0.339	0.346	0.34	0.334	0.367562	14.89	0.149	1	0.1
BROMOCHLOROMETHANE	0.401	0.443	0.437	0.433	0.437	0.411	0.412	0.412	0.404	0.401	0.42	0.419163	3.76	0.038	1	
TETRAHYDROFURAN	0.36	0.382	0.375	0.341	0.377	0.24	0.23	0.244	0.257	0.239	0.247	0.299454	22.07	0.996	0	
CHLOROFORM	1.246	1.451	1.334	1.349	1.348	1.357	1.294	1.289	1.254	1.261	1.299	1.316691	4.54	0.045	1	0.2
DIBROMOFLUOROMETHANE	0.618	0.626	0.621	0.622	0.626	0.622	0.619	0.626	0.605	0.603	0.621	0.618921	1.28	0.013	1	
1,1,1-TRICHLOROETHANE	0.866	1.079	1.029	1.027	1.083	1.033	1.034	1.018	0.991	0.987	1.014	1.014628	5.69	0.057	1	0.1
CARBON TETRACHLORIDE			1.077	1.023	1.003	0.954	0.946	0.917	0.908	0.906	0.945	0.964343	6.07	0.061	1	0.1
1,1-Dichloropropene	0.809	0.972	0.915	0.908	0.963	0.897	0.894	0.872	0.859	0.864	0.89	0.894777	5.16	0.052	1	
2,2,4-TRIMETHYLPENTANE	3.814	3.927	3.035	3.184	3.575	3.184	3.418	3.257	3.256	3.266	3.386	3.391044	8.16	0.082	1	
HEPTANE	1.351	1.319	1.366	1.326	1.417	1.32	1.335	1.29	1.328	1.323	1.37	1.340449	2.55	0.025	1	
BENZENE	2.962	3.002	2.829	2.676	2.761	2.717	2.622	2.604	2.561	2.569	2.644	2.722517	5.57	0.056	1	0.5
1,2-DICHLOROETHANE	1.064	1.135	1.163	1.162	1.186	1.134	1.116	1.117	1.124	1.11	1.16	1.13371	2.95	0.029	1	0.1
8260-1,4-DIFLUOROBENZENE																
TRICHLOROETHENE	0.339	0.4	0.383	0.352	0.377	0.372	0.362	0.357	0.351	0.35	0.359	0.363777	4.83	0.048	1	0.2
1,2-DICHLOROPROPANE	0.294	0.34	0.307	0.313	0.323	0.315	0.306	0.309	0.302	0.302	0.308	0.310832	3.92	0.039	1	0.1
DIBROMOMETHANE	0.317	0.302	0.267	0.272	0.282	0.256	0.245	0.252	0.249	0.24	0.248	0.266454	9.39	0.094	1	

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Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur	RF
BROMODICHLOROMETHANE	0.59	0.607	0.605	0.617	0.632	0.625	0.599	0.597	0.591	0.585	0.597	0.604113	2.5	0.025	1	0.2
a,a,a-Trifluorotoluene	0.541	0.538	0.536	0.528	0.529	0.527	0.518	0.516	0.489	0.484	0.47	0.516069	4.68	0.047	1	
-CHLOROETHYL VINYL ETHER	0.21	0.234	0.232	0.231	0.254	0.222	0.223	0.229	0.242	0.233	0.242	0.23201	5.01	0.05	1	
CIS-1,3-DICHLOROPROPENE	0.612	0.709	0.697	0.699	0.709	0.698	0.676	0.684	0.685	0.672	0.689	0.684515	3.94	0.039	1	0.2
-METHYL-2-PENTANONE (MIBK)	0.492	0.542	0.498	0.513	0.616	0.457	0.443	0.474	0.487	0.452	0.452	0.493223	10.24	0.102	1	0.1
TOLUENE-D8	1.241	1.234	1.239	1.218	1.221	1.225	1.203	1.208	1.171	1.153	1.137	1.204607	2.94	0.029	1	
TOLUENE	1.739	1.693	1.573	1.553	1.6	1.553	1.513	1.515	1.508	1.505	1.526	1.570733	4.99	0.05	1	0.4
TRANS-1,3-DICHLOROPROPENE	0.649	0.641	0.646	0.63	0.67	0.633	0.635	0.647	0.669	0.654	0.681	0.650498	2.54	0.025	1	0.1
8260-2-BROMO-1 -CHLOROPROPANE																
1,1,2-TRICHLOROETHANE	1.488	1.886	1.731	1.658	1.797	1.636	1.608	1.626	1.665	1.635	1.694	1.674924	6.21	0.062	1	0.1
TETRACHLOROETHENE	1.453	1.442	1.349	1.325	1.437	1.354	1.369	1.358	1.377	1.407	1.463	1.394149	3.45	0.035	1	0.2
1,3-Dichloropropane	3.089	3.231	3.274	3.158	3.372	3.091	3.087	3.136	3.18	3.131	3.23	3.180003	2.82	0.028	1	
2-HEXANONE		1.112	1.035	1.026	1.19	0.843	0.807	0.826	0.863	0.813	0.823	0.933783	15.31	0.153	1	0.1
CHLORODIBROMOMETHANE	1.981	2.261	2.225	2.057	2.172	2.061	2.065	2.055	2.1	2.068	2.143	2.108057	3.95	0.04	1	0.1
1,2-DIBROMOETHANE	1.882	1.929	1.893	1.776	1.899	1.701	1.688	1.721	1.76	1.714	1.756	1.792784	5.03	0.05	1	0.1
CHLOROBENZENE	5.507	5.28	5.232	5.123	5.186	4.991	5.07	5.094	5.173	5.267	5.565	5.226284	3.37	0.034	1	0.5
1,1,1,2-TETRACHLOROETHANE	2.55	2.279	1.961	2.042	1.978	1.919	1.918	1.923	1.904	1.921	1.989	2.034874	9.9	0.099	1	
ETHYLBENZENE	3.233	2.954	2.782	2.81	2.846	2.714	2.761	2.748	2.779	2.857	3.015	2.863581	5.31	0.053	1	0.1
M&P-XYLENE	3.713	3.637	3.34	3.405	3.482	3.403	3.4	3.417	3.443	3.501	3.676	3.492485	3.61	0.036	1	0.1
O-XYLENE	4.07	3.581	3.562	3.492	3.448	3.358	3.385	3.385	3.377	3.42	3.569	3.513384	5.76	0.058	1	0.3
STYRENE	5.675	5.99	5.914	6.014	5.819	5.789	5.825	5.824	5.851	5.969	6.168	5.8943 8	2.28	0.023	1	0.3
Bromoform	0.993	1.408	1.214	1.343	1.38	1.286	1.293	1.336	1.385	1.353	1.412	1.309445	9.18	0.092	1	0.1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260C	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: SW846	Released On	: 10/20/2015 10:09:37 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur	RF
Isopropylbenzene	8.448	9.416	8.997	9.005	9.608	9.004	9.195	9.191	9.114	9.212	9.532	9.156566	3.44	0.034	1	0.1
4-BROMOFLUOROBENZENE	2.848	2.832	2.802	2.757	2.741	2.719	2.755	2.77	2.743	2.755	2.705	2.766171	1.61	0.016	1	
Bromobenzene	5.071	5.11	4.76	4.976	4.796	4.69	4.681	4.712	4.741	4.811	4.998	4.84958	3.27	0.033	1	
1,1,2,2-TETRACHLOROETHANE	2.598	2.791	2.776	2.597	2.834	2.414	2.393	2.485	2.506	2.424	2.484	2.573009	6.25	0.062	1	0.3
1,2,3-TRICHLOROPROPANE			0.909	0.87	0.856	0.705	0.687	0.723	0.722	0.689	0.714	0.763658	11.5	0.115	1	
TRANS-1,4-DICHLORO-2-BUTENE	0.955	0.924	1.027	1.083	1.114	0.839	0.861	0.847	0.906	0.875	0.91	0.940155	10.1	0.101	1	
n-Propylbenzene	12.09	12.58	11.43	11.4	11.8	11.44	11.55	11.43	11.41	11.67	11.85	11.69557	3.16	0.032	1	
4-ETHYLTOLUENE	9.96	10.12	9.18	9.2	9.5	9.22	9.4	9.27	9.27	9.37	9.55	9.45948	3.31	0.033	1	
2-Chlorotoluene	2.138	2.194	2.221	2.122	2.178	2.103	2.144	2.155	2.165	2.227	2.344	2.181073	3.05	0.031	1	
4-Chlorotoluene	8.304	7.579	7.202	7.292	7.367	7.295	7.278	7.24	7.115	7.275	7.352	7.390901	4.39	0.044	1	
1,3,5-Trimethylbenzene	8.487	8.109	7.914	7.858	8.222	8.035	8.104	8.129	8.058	8.259	8.562	8.157918	2.65	0.026	1	
tert-Butylbenzene	6.958	7.074	6.623	6.306	6.573	6.452	6.55	6.477	6.362	6.425	6.604	6.582146	3.61	0.036	1	
1,2,4-Trimethylbenzene	8.33	8.701	8.252	8.108	8.319	8.235	8.167	8.222	7.984	8.136	8.254	8.246235	2.19	0.022	1	
sec-Butylbenzene	10.19	10.49	9.940001	10.41	10.73	10.35	10.5	10.31	10.18	10.22	10.36	10.33564	2.01	0.02	1	
1,3-DICHLOROBENZENE	4.489	4.581	4.506	4.43	4.305	4.299	4.309	4.293	4.257	4.326	4.4	4.381422	2.44	0.024	1	0.6
p-Isopropyltoluene	9.756	9.1	8.474	8.212	8.702	8.562	8.673	8.553	8.453	8.64	8.91	8.730222	4.73	0.047	1	
DICYCLOPENTADIENE	11.21	11.88	11.14	11.19	11.54	11.37	11.46	11.49	11.15	11.23	11.48	11.37733	1.96	0.02	1	
8260-1,4-DICHLOROBENZENE-D4																
1,4-DICHLOROBENZENE	2.055	1.851	1.702	1.673	1.628	1.665	1.591	1.603	1.618	1.638	1.658	1.698484	8.1	0.081	1	
1,2,3-TRIMETHYLBENZENE	3.429	3.751	3.143	3.303	3.273	3.313	3.184	3.216	3.213	3.216	3.221	3.29651	5.14	0.051	1	
1,2-DICHLOROBENZENE	1.483	1.586	1.543	1.58	1.547	1.547	1.469	1.494	1.491	1.48	1.473	1.517567	2.88	0.029	1	0.4
n-Butylbenzene	3.623	3.68	3.496	3.269	3.55	3.378	3.302	3.218	3.228	3.212	3.16	3.374048	5.43	0.054	1	

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260C	Released By	: Amy Green
Method	: V835J19O	Review Protocol	: SW846	Released On	: 10/20/2015 10:09:37 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur	RF
1,2-Dibromo-3-chloropropane		0.178	0.194	0.187	0.237	0.175	0.164	0.17	0.173	0.16	0.159	0.179637	12.93	0.129	1	0.05
1,2,4-Trichlorobenzene	1.185	1.213	1.069	1.067	1.045	1.055	0.976	0.988	0.959	0.951	0.913	1.038324	9.14	0.091	1	0.2
HEXACHLORO-1,3-BUTADIENE	0.472	0.549	0.56	0.573	0.563	0.554	0.525	0.52	0.497	0.491	0.473	0.525338	7.06	0.071	1	
Naphthalene				2.878	3.06	2.617	2.381	2.527	2.506	2.387	2.276	2.57918	10.35	0.103	1	
1,2,3-Trichlorobenzene	1.195	1.068	0.98	1.04	1.012	0.985	0.898	0.926	0.89	0.874	0.822	0.971851	10.88	0.109	1	
1-Methylnaphthalene		1.984	1.766	1.649	1.792	1.59	1.424	1.51	1.435	1.394	1.223	1.576888	14.34	0.143	1	
2-Methylnaphthalene		1.585	1.401	1.424	1.56	1.325	1.186	1.256	1.189	1.129	0.981	1.30368	14.76	0.148	1	
AP9-PENTAFLUOROBENZENE																
ETHANOL												0	0	0	1	
Bromoethane												0	0	0	1	
2-PROPANOL												0	0	0	1	
Methyl Acetate												0	0	0	1	0.1
ACETONITRILE												0	0	0	1	
ALLYL CHLORIDE												0	0	0	1	
tert-BUTYL ALCOHOL												0	0	0	1	
chloroprene												0	0	0	1	
ETHYL TERT-BUTYL ETHER												0	0	0	1	
PROPIONITRILE												0	0	0	1	
Ethyl Acetate												0	0	0	1	
METHACRYLONITRILE												0	0	0	1	
Cyclohexane												0	0	0	1	0.1
tert-butyl formate												0	0	0	1	
ISOBUTANOL												0	0	0	1	
t-Amyl Alcohol												0	0	0	1	
TERT-AMYL METHYL ETHER												0	0	0	1	
AP9-1,4-DIFLUOROBENZENE																
N-BUTANOL												0	0	0	1	
Methyl Cyclohexane												0	0	0	1	0.1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

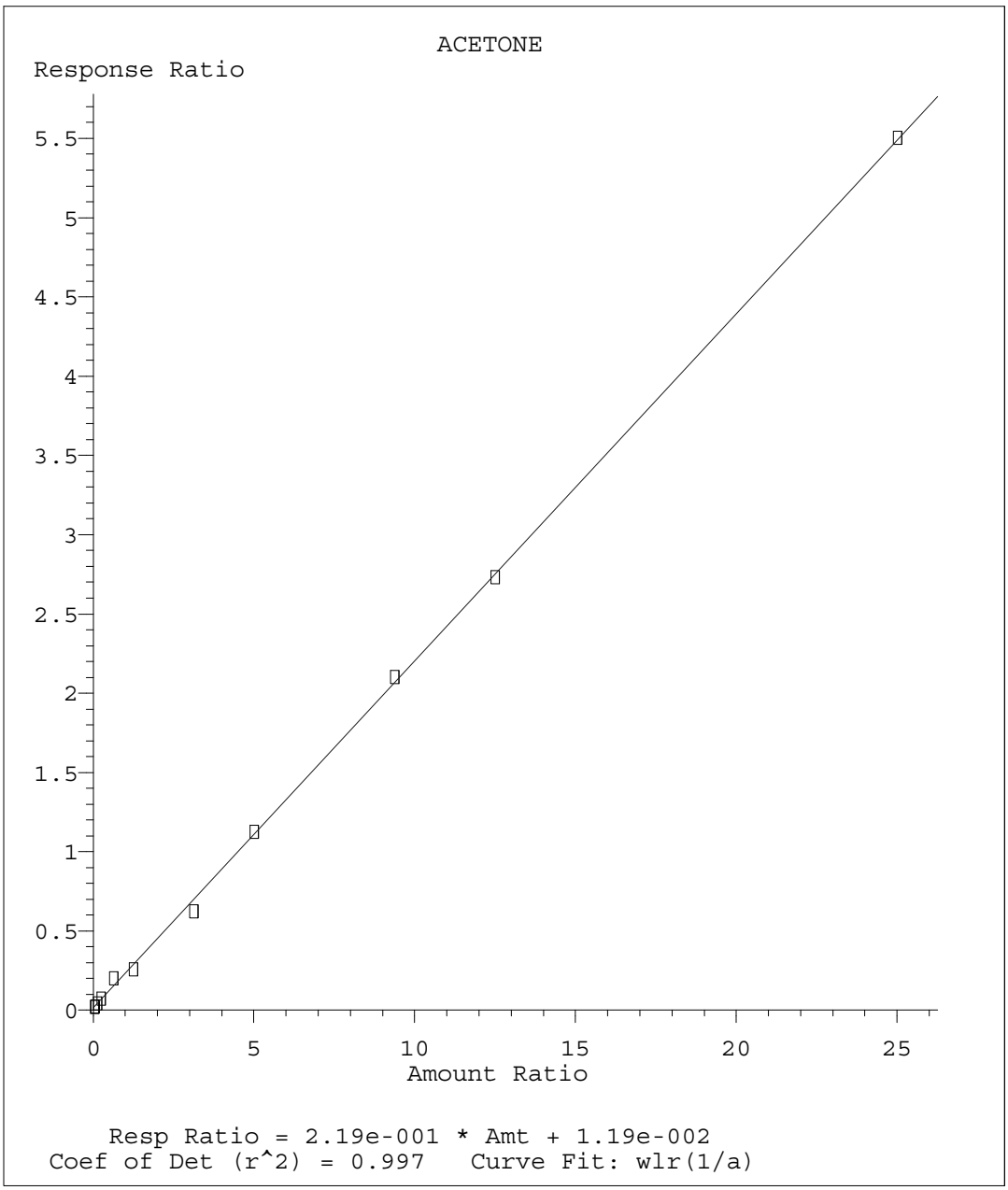
INITIAL CALIBRATION SUMMARY

Instrument ID	:	VOCMS35	Review Method	:	8260C	Released By	:	Amy Green
Method	:	V835J19O	Review Protocol	:	SW846	Released On	:	10/20/2015 10:09:37 AM

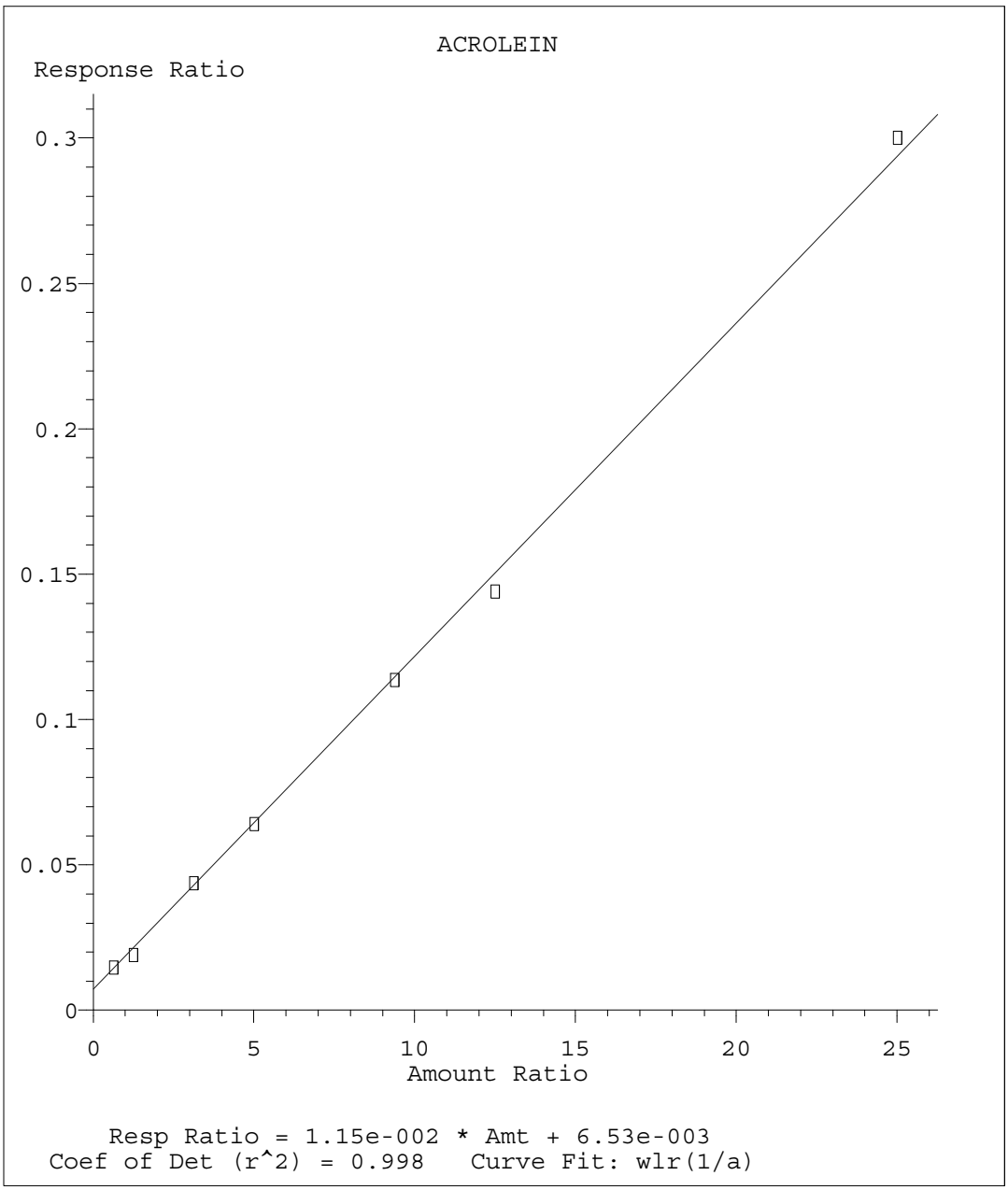
INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J19O -- ICal Updated Time: Tue Oct 20 09:57:36 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	AvgRF	%RSD	COD	Cur	RF
2-nitropropane												0	0	0	1	
METHYL METHACRYLATE												0	0	0	1	
,4-DIOXANE												0	0	0	1	
-octane												0	0	0	1	
3,3-DIMETHYL-1-BUTANOL												0	0	0	1	
AP9-2-BROMO-1 ACHLOROPROPANE																
ETHYL METHACRYLATE												0	0	0	1	
CIS-1,4-DICHLORO-2-BUTENE												0	0	0	1	
Cyclohexanone												0	0	0	1	
PENTACHLOROETHANE												0	0	0	1	
Hexachloroethane												0	0	0	1	
AP9-1,4-DICHLOROBENZENE-D4																

PDF Generated On: 10/20/2015 By: Amy Green



Method Name: C:\msdchem\1\methods\V835J19O.M



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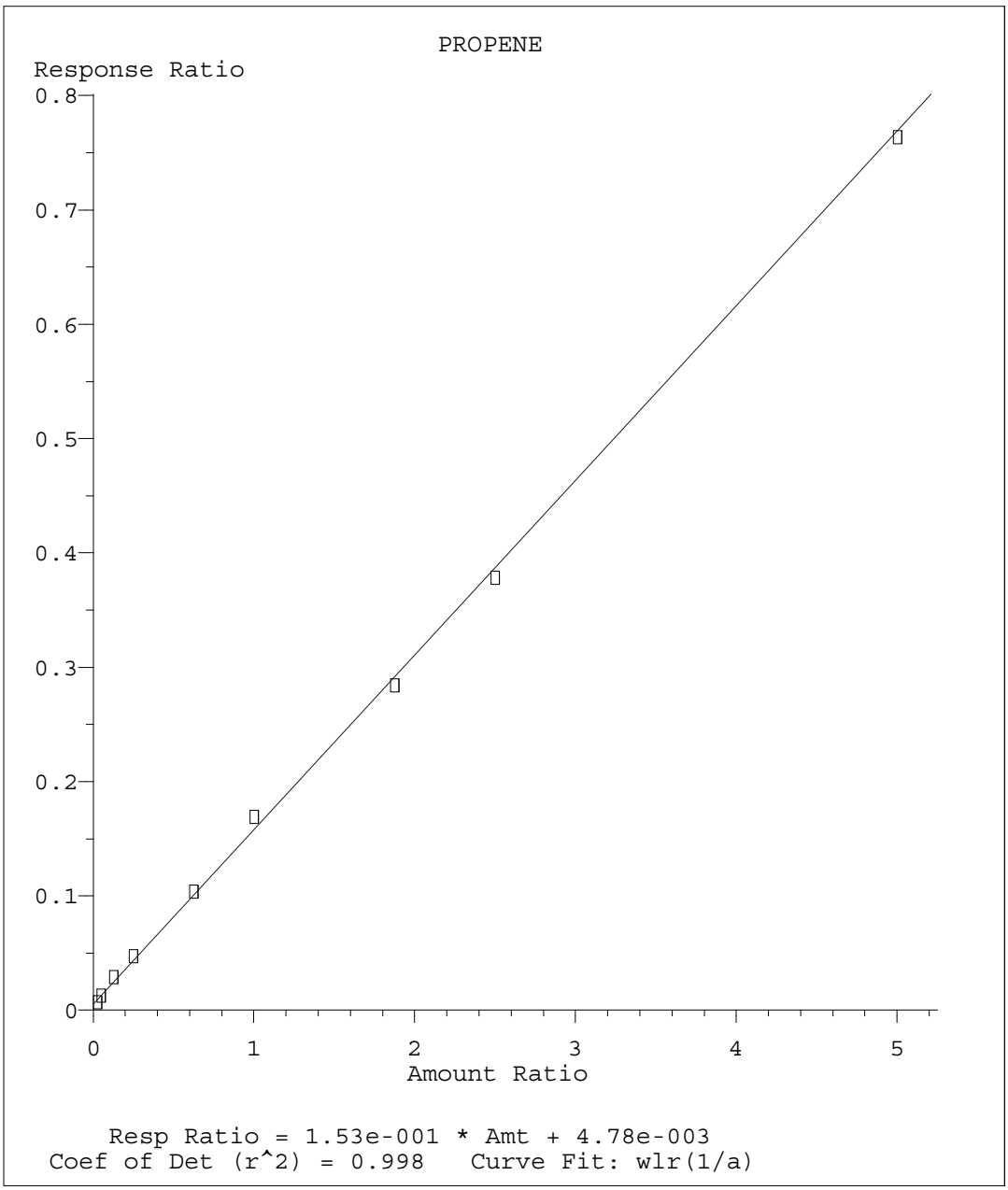
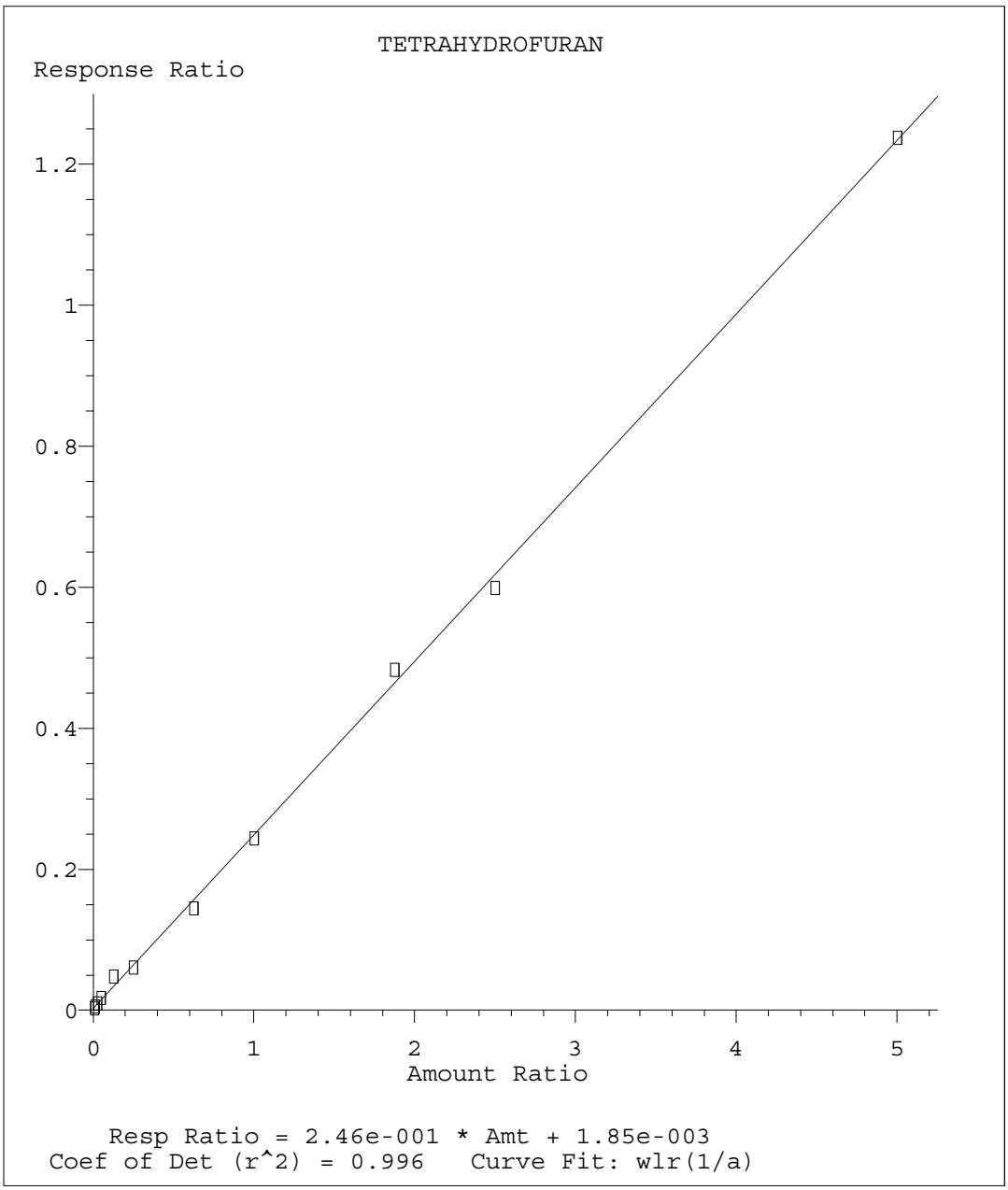


Method Name: C:\msdchem\1\methods\V835J19O.M



Method Name: C:\msdchem\1\methods\V835J19O.M

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 01.D
Acq On : 20 Oct 2015 1:38 am
Operator : 591
Sample : INSTBLK
Misc : water IS/SURR 15H19728
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 09:58:02 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:57:36 2015
Response via : Initial Calibration

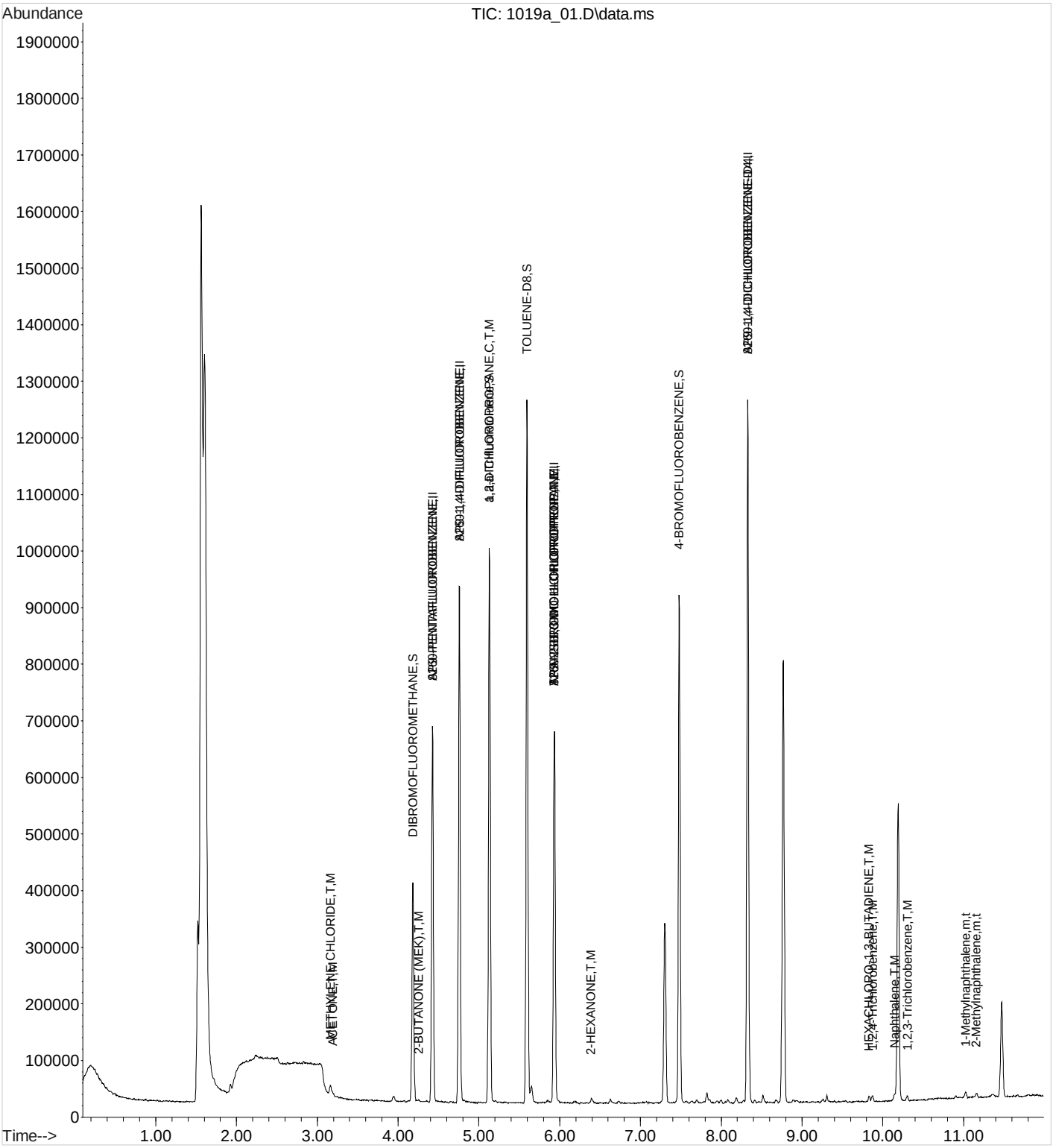
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.425	168	308907	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.760	114	527430	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.933	79	96249	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.328	152	257734	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.425	168	308907	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.760	114	527430	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.933	79	96249	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.328	152	257734	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.181	111	187750	39.2804815 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 98.20%		
46) a,a,a-Trifluorotoluene	5.129	146	291906	42.8973508 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 107.24%		
50) TOLUENE-D8	5.595	98	649654	40.9008252 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.25%		
68) 4-BROMOFLUOROBENZENE	7.480	95	266645	40.0606644 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 100.15%		
Target Compounds					Qvalue
3) PROPENE	1.679	41	902	Below Cal #	6
16) ACETONE	3.190	43	6042	1.3904655 ppb	99
19) METHYLENE CHLORIDE	3.161	84	5783	1.0198290 ppb	95
29) 2-BUTANONE (MEK)	4.251	43	2421	0.8528959 ppb #	51
43) 1,2-DICHLOROPROPANE	5.129	62	7160	1.7469585 ppb #	50
52) TRANS-1,3-DICHLOROPROPENE	5.933	75	5658	0.6596474 ppb #	1
57) 2-HEXANONE	6.386	58	830	0.3693990 ppb #	65
90) 1,2,4-Trichlorobenzene	9.872	180	2265	0.3385507 ppb #	94
91) HEXACHLORO-1,3-BUTADIENE	9.830	225	1362	0.4023711 ppb	95
92) Naphthalene	10.148	128	5867	0.3530391 ppb #	87
93) 1,2,3-Trichlorobenzene	10.303	180	1955	0.3122017 ppb	96
94) 1-Methylnaphthalene	11.023	142	4119	0.4053957 ppb	98
95) 2-Methylnaphthalene	11.158	142	3029	0.3605925 ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 01.D
Acq On : 20 Oct 2015 1:38 am
Operator : 591
Sample : INSTBLK
Misc : water IS/SURR 15H19728
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 09:58:02 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:57:36 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 01.D
Acq On : 20 Oct 2015 1:38 am
Operator : 591
Sample : INSTBLK
Misc : water IS/SURR 15H19728
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 09:58:02 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:57:36 2015
Response via : Initial Calibration

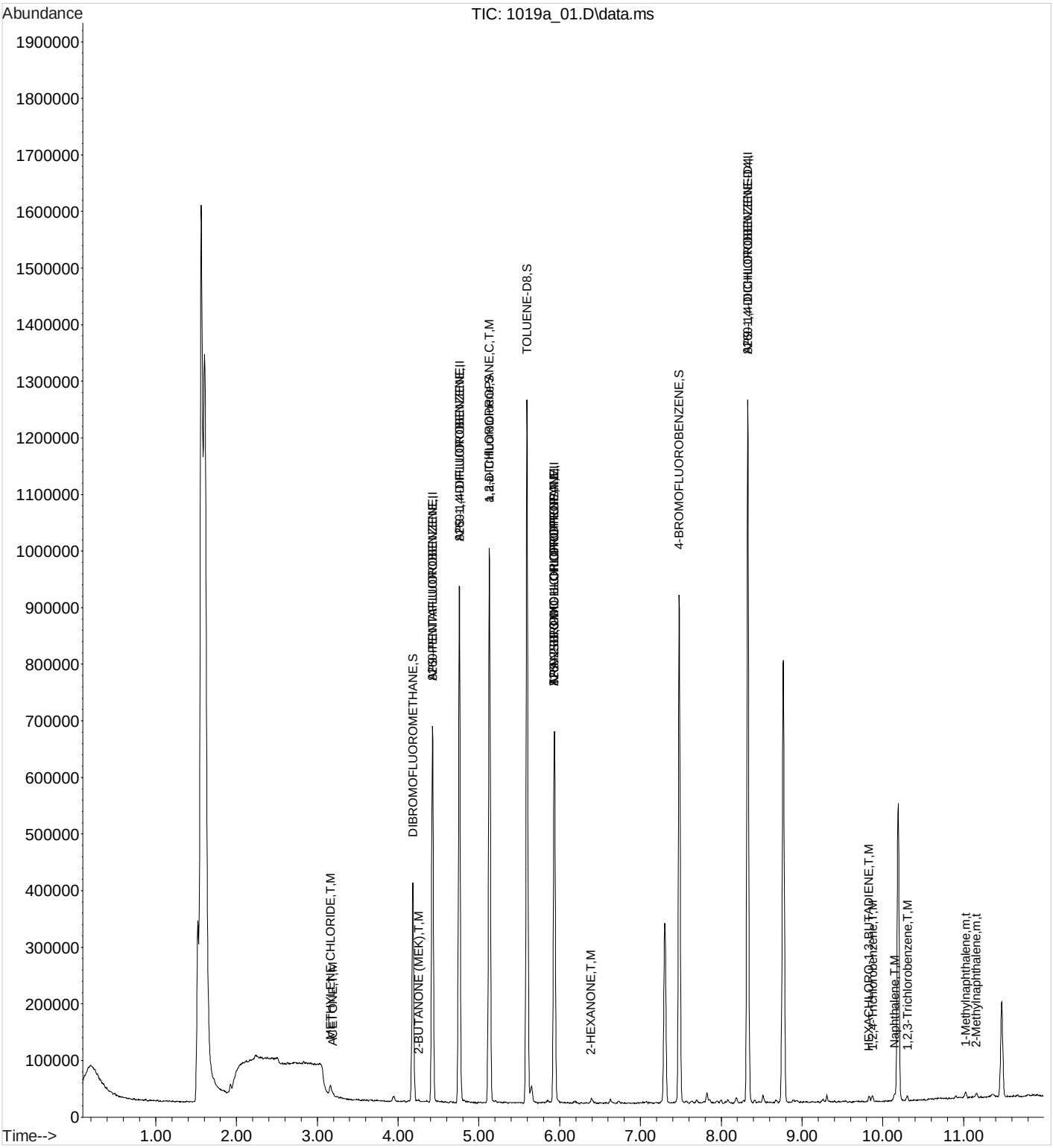
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.425	168	308907	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.760	114	527430	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.933	79	96249	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.328	152	257734	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.425	168	308907	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.760	114	527430	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.933	79	96249	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.328	152	257734	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.181	111	187750	39.2804815 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 98.20%		
46) a,a,a-Trifluorotoluene	5.129	146	291906	42.8973508 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 107.24%		
50) TOLUENE-D8	5.595	98	649654	40.9008252 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.25%		
68) 4-BROMOFLUOROBENZENE	7.480	95	266645	40.0606644 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 100.15%		
Target Compounds					Qvalue
3) PROPENE	1.679	41	902	Below Cal #	6
16) ACETONE	3.190	43	6042	1.3904655 ppb	99
19) METHYLENE CHLORIDE	3.161	84	5783	1.0198290 ppb	95
29) 2-BUTANONE (MEK)	4.251	43	2421	0.8528959 ppb #	51
43) 1,2-DICHLOROPROPANE	5.129	62	7160	1.7469585 ppb #	50
52) TRANS-1,3-DICHLOROPROPENE	5.933	75	5658	0.6596474 ppb #	1
57) 2-HEXANONE	6.386	58	830	0.3693990 ppb #	65
90) 1,2,4-Trichlorobenzene	9.872	180	2265	0.3385507 ppb #	94
91) HEXACHLORO-1,3-BUTADIENE	9.830	225	1362	0.4023711 ppb	95
92) Naphthalene	10.148	128	5867	0.3530391 ppb #	87
93) 1,2,3-Trichlorobenzene	10.303	180	1955	0.3122017 ppb	96
94) 1-Methylnaphthalene	11.023	142	4119	0.4053957 ppb	98
95) 2-Methylnaphthalene	11.158	142	3029	0.3605925 ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 01.D
Acq On : 20 Oct 2015 1:38 am
Operator : 591
Sample : INSTBLK
Misc : water IS/SURR 15H19728
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 09:58:02 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:57:36 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 05A.D
Acq On : 20 Oct 2015 3:02 am
Operator : 591
Sample : RL VMS 1 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:59:42 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:57:36 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.428	168	266004	40.0000000 ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	462750	40.0000000 ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	85304	40.0000000 ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.332	152	226800	40.0000000 ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.428	168	266004	40.0000000 ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	462750	40.0000000 ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	85304	40.0000000 ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.332	152	226800	40.0000000 ppb		0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.184	111	169316	41.1371727 ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 102.84%			
46) a,a,a-Trifluorotoluene	5.132	146	254390	42.6094460 ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.52%			
50) TOLUENE-D8	5.595	98	587845	42.1823901 ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.46%			
68) 4-BROMOFLUOROBENZENE	7.483	95	244995	41.5306524 ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.83%			
Target Compounds						Qvalue
3) PROPENE	1.676	41	1858	0.5776967 ppb		90
4) DICHLORODIFLUOROMETHANE	1.734	85	4278	0.9626851 ppb		100
5) CHLOROMETHANE	1.895	50	7093	1.0887265 ppb		99
6) VINYL CHLORIDE	1.978	62	6805	1.0534685 ppb	#	87
7) 1,3-BUTADIENE	1.988	39	7985	1.2883162 ppb		100
8) BROMOMETHANE	2.245	94	3905	0.9640005 ppb		86
9) CHLOROETHANE	2.345	64	4670	1.0947906 ppb		95
10) TRICHLOROFLUOROMETHANE	2.451	101	8328	0.9834438 ppb	#	89
11) DICHLOROFLUOROMETHANE	2.483	67	10976	1.0528690 ppb		98
12) ETHYL ETHER	2.647	59	5303	1.0175943 ppb		95
13) ACROLEIN	3.010	56	800	Below Cal	88	
14) 1,1-DICHLOROETHENE	2.795	61	9071	1.0285243 ppb	#	89
15) 1,1,2-TRICHLOROTRIFLUO...	2.824	101	3947	0.9393176 ppb	#	89
16) ACETONE	3.193	43	10548	5.0599930 ppb	#	81
17) IODOMETHANE	2.901	142	31223	4.8548087 ppb		99
18) CARBON DISULFIDE	2.830	76	14362	0.9820141 ppb	#	71
19) METHYLENE CHLORIDE	3.161	84	6006	1.2299830 ppb		92
20) ACRYLONITRILE	3.660	53	8879	5.0410786 ppb		95
21) n-Hexane	3.296	56	4401	1.0195426 ppb		93
22) TRANS-1,2-DICHLOROETHENE	3.261	96	4518	1.0392103 ppb		93
23) METHYL TERT-BUTYL ETHER	3.316	73	13728	0.9857827 ppb		97
24) 1,1-DICHLOROETHANE	3.628	63	9162	1.0107297 ppb		90
25) VINYL ACETATE	3.743	43	56433	5.3267126 ppb		99
26) DI-ISOPROPYL ETHER	3.521	45	19605	1.0198998 ppb		98
27) 2,2-Dichloropropane	4.004	77	7300	1.1571147 ppb	#	91
28) CIS-1,2-DICHLOROETHENE	3.936	96	5002	1.0163086 ppb		97
29) 2-BUTANONE (MEK)	4.251	43	13528	5.5344496 ppb		99
30) BROMOCHLOROMETHANE	4.055	130	2904	1.0418036 ppb		92
31) TETRAHYDROFURAN	4.190	42	2494	1.2219880 ppb	#	80
32) CHLOROFORM	4.078	83	8874	1.0134618 ppb		97
34) 1,1,1-TRICHLOROETHANE	4.219	97	6844	1.0143195 ppb		98
35) CARBON TETRACHLORIDE	4.177	117	7164	1.1171101 ppb		94
36) 1,1-Dichloropropene	4.283	75	6083	1.0222921 ppb	#	89
37) 2,2,4-TRIMETHYLPENTANE	4.329	57	20185	0.8950908 ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 05A.D
Acq On : 20 Oct 2015 3:02 am
Operator : 591
Sample : RL VMS 1 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:59:42 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:57:36 2015
Response via : Initial Calibration

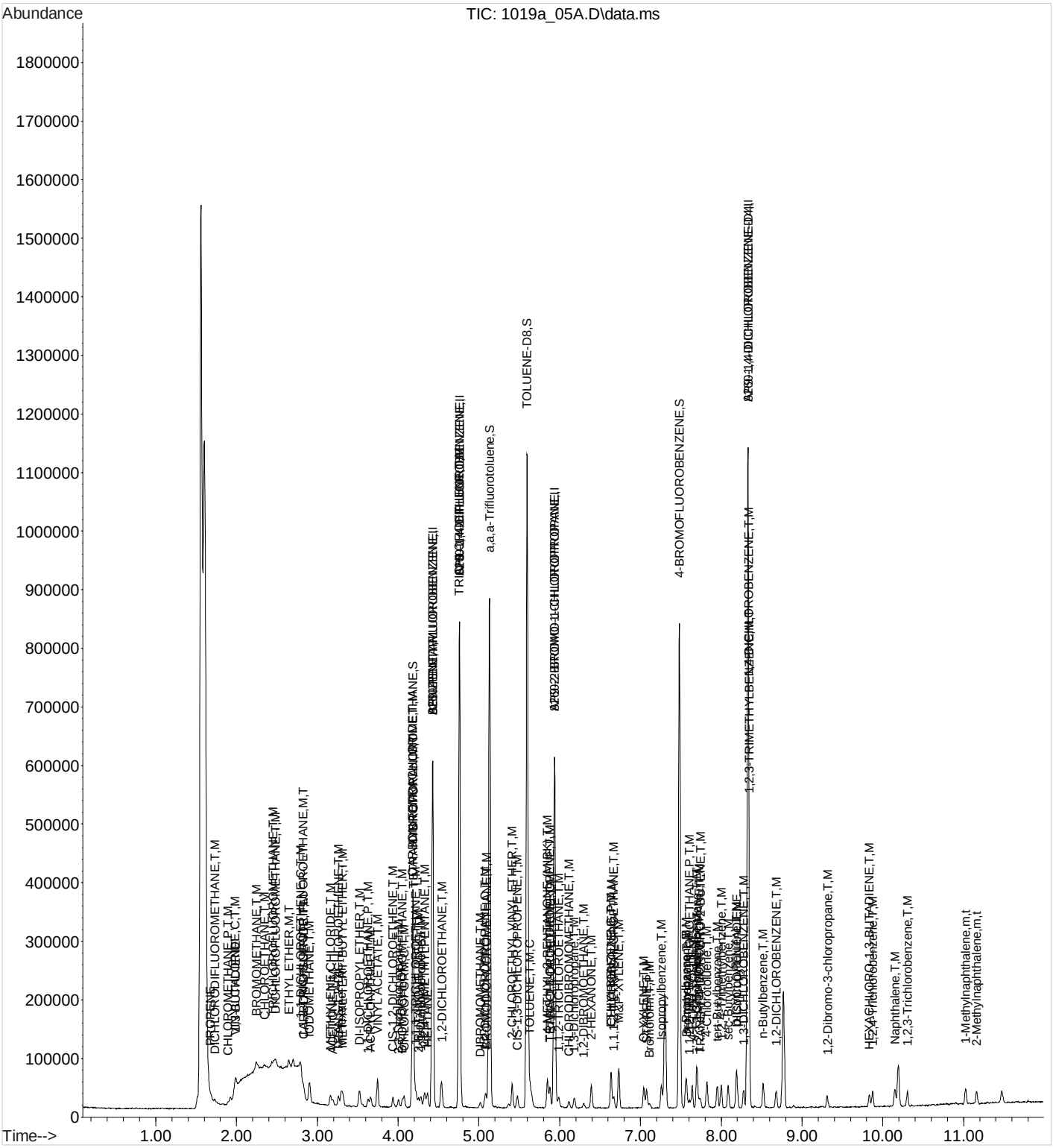
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	HEPTANE	4.364	43	9081	1.0187205 ppb	#	97
39)	BENZENE	4.428	78	18810	1.0389390 ppb	#	65
40)	1,2-DICHLOROETHANE	4.544	62	7736	1.0260919 ppb		99
42)	TRICHLOROETHENE	4.756	130	4434	1.0535953 ppb		94
43)	1,2-DICHLOROPROPANE	5.074	62	3551	0.9875035 ppb	#	92
44)	DIBROMOMETHANE	5.017	93	3088	1.0017704 ppb		88
45)	BROMODICHLOROMETHANE	5.091	83	7001	1.0017409 ppb		98
47)	2-CHLOROETHYL VINYL ETHER	5.412	63	13419	4.9994997 ppb		97
48)	CIS-1,3-DICHLOROPROPENE	5.476	75	8063	1.0181856 ppb	#	98
49)	4-METHYL-2-PENTANONE (...	5.849	43	28802	5.0476920 ppb		94
51)	TOLUENE	5.631	91	18193	1.0011875 ppb		94
52)	TRANS-1,3-DICHLOROPROPENE	5.878	75	7473	0.9930299 ppb	#	87
54)	1,1,2-TRICHLOROETHANE	5.988	97	3691	1.0333310 ppb		92
55)	TETRACHLOROETHENE	5.881	164	2877	0.9676566 ppb		97
56)	1,3-Dichloropropane	6.181	76	6983	1.0296868 ppb		93
57)	2-HEXANONE	6.393	58	11034	5.5408626 ppb		97
58)	CHLORODIBROMOMETHANE	6.113	129	4744	1.0552440 ppb		96
59)	1,2-DIBROMOETHANE	6.296	107	4038	1.0561581 ppb		98
60)	CHLOROBENZENE	6.637	112	11158	1.0011150 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.669	133	4183	0.9639197 ppb	#	98
62)	ETHYLBENZENE	6.634	106	5932	0.9713647 ppb		98
63)	M&P-XYLENE	6.730	106	14245	1.9125752 ppb		100
64)	O-XYLENE	7.039	106	7596	1.0137945 ppb		93
65)	STYRENE	7.074	104	12613	1.0033925 ppb		99
66)	Bromoform	7.113	173	2589	0.9271187 ppb		96
67)	Isopropylbenzene	7.258	105	19186	0.9825222 ppb		100
69)	Bromobenzene	7.573	77	10152	0.9816080 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.605	83	5920	1.0788745 ppb		89
71)	1,2,3-TRICHLOROPROPANE	7.727	110	1938	1.1899957 ppb	#	80
72)	TRANS-1,4-DICHLORO-2-B...	7.743	53	2191	1.0927814 ppb	#	73
73)	n-Propylbenzene	7.563	91	24375	0.9772687 ppb		97
74)	4-ETHYLTOLUENE	7.640	105	19574	0.9702933 ppb		98
75)	2-Chlorotoluene	7.701	126	4737	1.0184125 ppb		89
76)	4-Chlorotoluene	7.820	91	15360	0.9745057 ppb		99
77)	1,3,5-Trimethylbenzene	7.698	105	16878	0.9701352 ppb		99
78)	tert-Butylbenzene	7.949	119	14124	1.0061919 ppb		98
79)	1,2,4-Trimethylbenzene	8.000	105	17598	1.0006869 ppb		100
80)	sec-Butylbenzene	8.084	105	21195	0.9615831 ppb		99
81)	1,3-DICHLOROBENZENE	8.277	146	9609	1.0283802 ppb		96
82)	p-Isopropyltoluene	8.187	119	18071	0.9706161 ppb		95
83)	DICYCLOPENTADIENE	8.193	66	23760	0.9792572 ppb		98
85)	1,4-DICHLOROBENZENE	8.341	146	9648	1.0018268 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.344	105	17823	0.9535497 ppb		96
87)	1,2-DICHLOROBENZENE	8.679	146	8746	1.0164326 ppb		95
88)	n-Butylbenzene	8.518	91	19820	1.0360228 ppb		100
89)	1,2-Dibromo-3-chloropr...	9.322	157	1102	1.0819402 ppb		95
90)	1,2,4-Trichlorobenzene	9.875	180	6064	1.0300145 ppb		95
91)	HEXACHLORO-1,3-BUTADIENE	9.833	225	3175	1.0659138 ppb		99
92)	Naphthalene	10.151	128	16698	1.1418257 ppb		100
93)	1,2,3-Trichlorobenzene	10.303	180	5556	1.0082760 ppb		97
94)	1-Methylnaphthalene	11.026	142	10016	1.1202381 ppb		100
95)	2-Methylnaphthalene	11.161	142	7944	1.0746952 ppb		95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 05A.D
Acq On : 20 Oct 2015 3:02 am
Operator : 591
Sample : RL VMS 1 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:59:42 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:57:36 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 06A.D
Acq On : 20 Oct 2015 3:23 am
Operator : 591
Sample : RL VMS 2 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 09:59:59 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:57:36 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.428	168	264402	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	458996	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	85336	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.332	152	224821	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.428	168	264402	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	458996	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	85336	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.332	152	224821	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.184	111	172549	42.1766730	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 105.44%				
46) a,a,a-Trifluorotoluene	5.132	146	254608	42.9947496	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 107.49%				
50) TOLUENE-D8	5.595	98	586939	42.4618439	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 106.15%				
68) 4-BROMOFLUOROBENZENE	7.483	95	247024	41.8588986	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.65%				
Target Compounds							Qvalue
3) PROPENE	1.673	41	3307	2.0232553	ppb		93
4) DICHLORODIFLUOROMETHANE	1.731	85	7635	1.7285262	ppb		91
5) CHLOROMETHANE	1.891	50	13435	2.0746743	ppb		100
6) VINYL CHLORIDE	1.975	62	13055	2.0332638	ppb		96
7) 1,3-BUTADIENE	1.988	39	13875	2.2521846	ppb		99
8) BROMOMETHANE	2.245	94	8767	2.1773621	ppb	#	96
9) CHLOROETHANE	2.345	64	8257	1.9474212	ppb	#	87
10) TRICHLOROFLUOROMETHANE	2.444	101	16467	1.9563509	ppb	#	97
11) DICHLOROFLUOROMETHANE	2.480	67	21481	2.0730423	ppb		98
12) ETHYL ETHER	2.647	59	10122	1.9540821	ppb		91
13) ACROLEIN	3.010	56	2824	14.4770398	ppb	#	63
14) 1,1-DICHLOROETHENE	2.795	61	18116	2.0665462	ppb		94
15) 1,1,2-TRICHLOROTRIFLUO...	2.817	101	8138	1.9484374	ppb	#	90
16) ACETONE	3.190	43	18557	10.6354814	ppb	#	90
17) IODOMETHANE	2.901	142	64198	10.0425135	ppb		99
18) CARBON DISULFIDE	2.830	76	28680	1.9729014	ppb	#	69
19) METHYLENE CHLORIDE	3.161	84	10443	2.1516047	ppb		98
20) ACRYLONITRILE	3.660	53	17234	9.8439395	ppb		96
21) n-Hexane	3.293	56	8818	2.0551690	ppb		93
22) TRANS-1,2-DICHLOROETHENE	3.261	96	8213	1.9005638	ppb		96
23) METHYL TERT-BUTYL ETHER	3.316	73	28871	2.0857353	ppb		94
24) 1,1-DICHLOROETHANE	3.628	63	18541	2.0577913	ppb		95
25) VINYL ACETATE	3.743	43	117354	11.1441629	ppb		99
26) DI-ISOPROPYL ETHER	3.522	45	38550	2.0176158	ppb		94
27) 2,2-Dichloropropane	4.007	77	12084	1.9270265	ppb		99
28) CIS-1,2-DICHLOROETHENE	3.936	96	10093	2.0631253	ppb		97
29) 2-BUTANONE (MEK)	4.251	43	26116	10.7490711	ppb		96
30) BROMOCHLOROMETHANE	4.052	130	5722	2.0651924	ppb		98
31) TETRAHYDROFURAN	4.190	42	4512	2.4701807	ppb		96
32) CHLOROFORM	4.075	83	17834	2.0490858	ppb		99
34) 1,1,1-TRICHLOROETHANE	4.219	97	13576	2.0242308	ppb		96
35) CARBON TETRACHLORIDE	4.177	117	13526	2.1219405	ppb		99
36) 1,1-Dichloropropene	4.280	75	12008	2.0302583	ppb		96
37) 2,2,4-TRIMETHYLPENTANE	4.329	57	42095	1.8779857	ppb		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 06A.D
Acq On : 20 Oct 2015 3:23 am
Operator : 591
Sample : RL VMS 2 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 09:59:59 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:57:36 2015
Response via : Initial Calibration

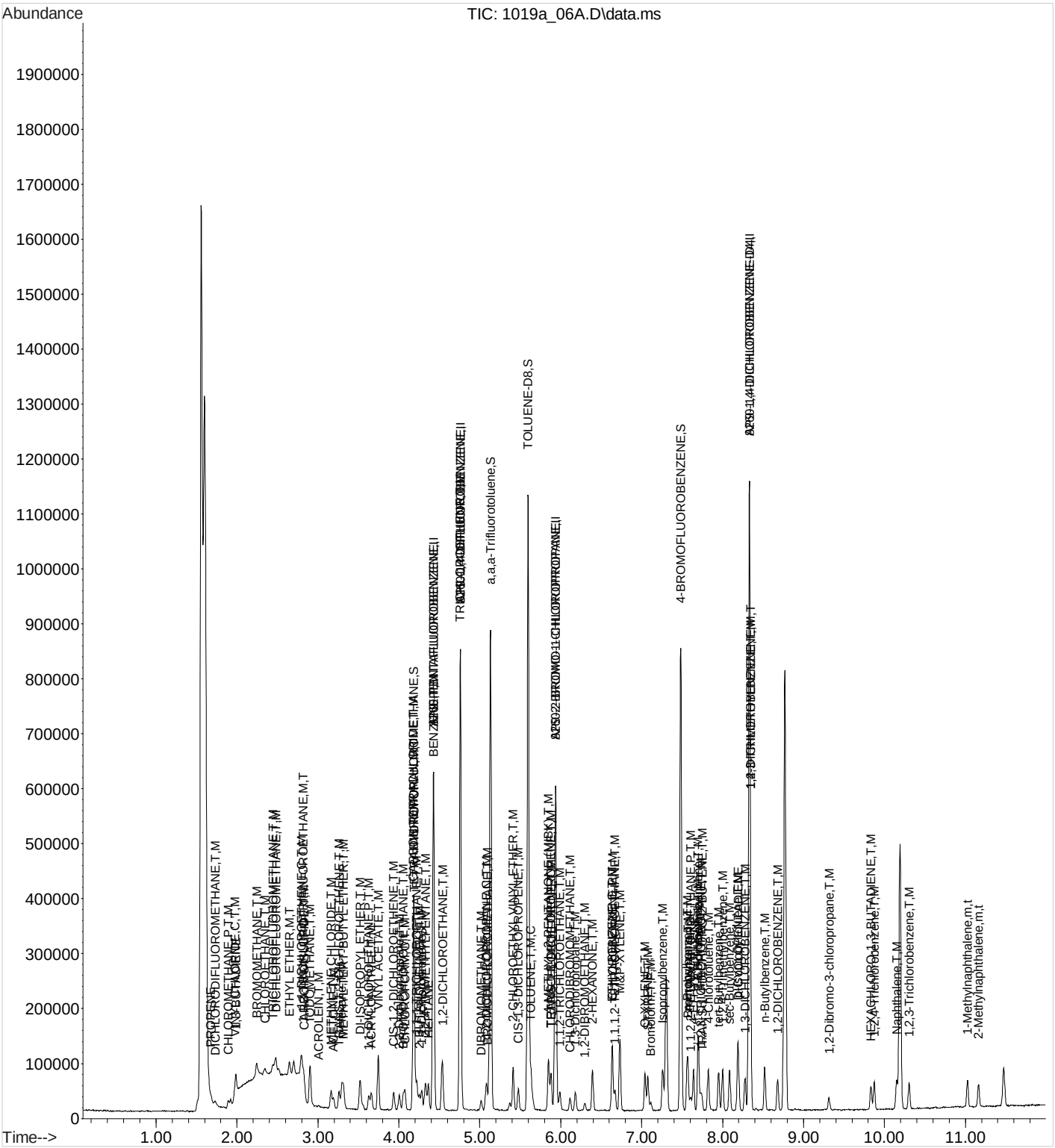
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	HEPTANE	4.364	43	17529	1.9783447 ppb	#	98
39)	BENZENE	4.431	78	35378	1.9658844 ppb	#	80
40)	1,2-DICHLOROETHANE	4.544	62	15357	2.0492719 ppb		100
42)	TRICHLOROETHENE	4.756	130	8076	1.9346926 ppb		97
43)	1,2-DICHLOROPROPANE	5.078	62	7187	2.0149912 ppb		92
44)	DIBROMOMETHANE	5.017	93	6241	2.0411862 ppb		96
45)	BROMODICHLOROMETHANE	5.094	83	14163	2.0430929 ppb		96
47)	2-CHLOROETHYL VINYL ETHER	5.412	63	26455	9.9369175 ppb		96
48)	CIS-1,3-DICHLOROPROPENE	5.476	75	16040	2.0420773 ppb	#	100
49)	4-METHYL-2-PENTANONE (...	5.849	43	58884	10.4041123 ppb		99
51)	TOLUENE	5.631	91	35642	1.9774736 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.878	75	14464	1.9377300 ppb		98
54)	1,1,2-TRICHLOROETHANE	5.991	97	7074	1.9796919 ppb		96
55)	TETRACHLOROETHENE	5.882	164	5655	1.9013021 ppb		97
56)	1,3-Dichloropropane	6.181	76	13473	1.9859327 ppb		94
57)	2-HEXANONE	6.393	58	21897	10.9917321 ppb		96
58)	CHLORODIBROMOMETHANE	6.116	129	8776	1.9513804 ppb		99
59)	1,2-DIBROMOETHANE	6.296	107	7578	1.9813188 ppb		97
60)	CHLOROBENZENE	6.637	112	21859	1.9604917 ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.669	133	8714	2.0072787 ppb	#	98
62)	ETHYLBENZENE	6.634	106	11989	1.9624620 ppb		100
63)	M&P-XYLENE	6.730	106	29060	3.9002172 ppb		98
64)	O-XYLENE	7.042	106	14898	1.9876048 ppb		99
65)	STYRENE	7.074	104	25662	2.0407043 ppb		98
66)	Bromoform	7.113	173	5729	2.0507807 ppb		98
67)	Isopropylbenzene	7.258	105	38424	1.9669695 ppb		99
69)	Bromobenzene	7.573	77	21230	2.0519823 ppb		95
70)	1,1,2,2-TETRACHLOROETHANE	7.605	83	11083	2.0190341 ppb		94
71)	1,2,3-TRICHLOROPROPANE	7.730	110	3711	2.2778214 ppb	#	83
72)	TRANS-1,4-DICHLORO-2-B...	7.746	53	4623	2.3048991 ppb		94
73)	n-Propylbenzene	7.563	91	48646	1.9496363 ppb		99
74)	4-ETHYLTOLUENE	7.640	105	39254	1.9451114 ppb		100
75)	2-Chlorotoluene	7.698	126	9053	1.9455840 ppb		98
76)	4-Chlorotoluene	7.824	91	31115	1.9733317 ppb		99
77)	1,3,5-Trimethylbenzene	7.698	105	33528	1.9264424 ppb		100
78)	tert-Butylbenzene	7.949	119	26907	1.9161324 ppb		97
79)	1,2,4-Trimethylbenzene	8.000	105	34596	1.9665179 ppb		99
80)	sec-Butylbenzene	8.087	105	44417	2.0143723 ppb		98
81)	1,3-DICHLOROBENZENE	8.277	146	18902	2.0221827 ppb		98
82)	p-Isopropyltoluene	8.187	119	35039	1.8812829 ppb		100
83)	DICYCLOPENTADIENE	8.193	66	47742	1.9669262 ppb		100
85)	1,4-DICHLOROBENZENE	8.344	146	18807	1.9700673 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.344	105	37128	2.0038733 ppb		100
87)	1,2-DICHLOROBENZENE	8.679	146	17757	2.0818281 ppb		99
88)	n-Butylbenzene	8.521	91	36751	1.9379429 ppb		97
89)	1,2-Dibromo-3-chloropr...	9.319	157	2104	2.0838841 ppb		96
90)	1,2,4-Trichlorobenzene	9.875	180	11998	2.0558867 ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.833	225	6444	2.1824287 ppb		99
92)	Naphthalene	10.151	128	32357	2.2320801 ppb		96
93)	1,2,3-Trichlorobenzene	10.303	180	11688	2.1397527 ppb		94
94)	1-Methylnaphthalene	11.026	142	18538	2.0916311 ppb		98
95)	2-Methylnaphthalene	11.161	142	16009	2.1848240 ppb		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 06A.D
Acq On : 20 Oct 2015 3:23 am
Operator : 591
Sample : RL VMS 2 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 09:59:59 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:57:36 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 07A.D
Acq On : 20 Oct 2015 3:45 am
Operator : 591
Sample : RL VMS 5.0 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 10:00:19 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:57:36 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.428	168	238507	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.760	114	411403	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	76922	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.332	152	205021	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.428	168	238507	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.760	114	411403	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	76922	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.332	152	205021	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.184	111	160388	43.4605631	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 108.65%			
46) a,a,a-Trifluorotoluene	5.133	146	233985	44.0831726	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 110.21%			
50) TOLUENE-D8	5.596	98	539879	43.5756389	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 108.94%			
68) 4-BROMOFLUOROBENZENE	7.483	95	226637	42.6050593	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 106.51%			
Target Compounds						Qvalue
3) PROPENE	1.679	41	6819	6.2329936	ppb	96
4) DICHLORODIFLUOROMETHANE	1.734	85	22740	5.7071724	ppb	100
5) CHLOROMETHANE	1.898	50	30375	5.1998659	ppb	100
6) VINYL CHLORIDE	1.978	62	31306	5.4051536	ppb	95
7) 1,3-BUTADIENE	1.991	39	30425	5.4747613	ppb	98
8) BROMOMETHANE	2.245	94	19222	5.2922680	ppb	99
9) CHLOROETHANE	2.348	64	19746	5.1627411	ppb	98
10) TRICHLOROFLUOROMETHANE	2.441	101	39025	5.1397121	ppb	100
11) DICHLOROFLUOROMETHANE	2.483	67	50589	5.4121941	ppb	100
12) ETHYL ETHER	2.647	59	23797	5.0928664	ppb	98
13) ACROLEIN	3.014	56	3487	28.2053777	ppb	87
14) 1,1-DICHLOROETHENE	2.795	61	42244	5.3420930	ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.821	101	19879	5.2762689	ppb	97
16) ACETONE	3.194	43	47686	34.3299926	ppb	99
17) IODOMETHANE	2.904	142	149518	25.9285368	ppb	99
18) CARBON DISULFIDE	2.830	76	67395	5.1394603	ppb	97
19) METHYLENE CHLORIDE	3.162	84	22469	5.1319752	ppb	99
20) ACRYLONITRILE	3.660	53	52120	33.0028054	ppb	99
21) n-Hexane	3.297	56	20463	5.2870128	ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.261	96	20738	5.3199936	ppb	98
23) METHYL TERT-BUTYL ETHER	3.316	73	66966	5.3630930	ppb	98
24) 1,1-DICHLOROETHANE	3.631	63	42183	5.1900225	ppb	97
25) VINYL ACETATE	3.744	43	279377	29.4105951	ppb	100
26) DI-ISOPROPYL ETHER	3.522	45	86556	5.0219787	ppb	98
27) 2,2-Dichloropropane	4.007	77	29078	5.1404970	ppb	97
28) CIS-1,2-DICHLOROETHENE	3.936	96	22204	5.0315310	ppb	98
29) 2-BUTANONE (MEK)	4.252	43	73199	33.3989665	ppb	98
30) BROMOCHLOROMETHANE	4.055	130	13031	5.2137957	ppb	98
31) TETRAHYDROFURAN	4.187	42	11250	7.3569489	ppb	98
32) CHLOROFORM	4.075	83	40196	5.1198569	ppb	100
34) 1,1,1-TRICHLOROETHANE	4.219	97	32282	5.3359560	ppb	97
35) CARBON TETRACHLORIDE	4.181	117	29917	5.2028999	ppb	99
36) 1,1-Dichloropropene	4.280	75	28699	5.3791171	ppb	98
37) 2,2,4-TRIMETHYLPENTANE	4.329	57	106568	5.2705045	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 07A.D
Acq On : 20 Oct 2015 3:45 am
Operator : 591
Sample : RL VMS 5.0 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 10:00:19 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:57:36 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	HEPTANE	4.364	43	42250	5.2860970 ppb	#	98
39)	BENZENE	4.432	78	82319	5.0709390 ppb		92
40)	1,2-DICHLOROETHANE	4.544	62	35365	5.2315512 ppb		100
42)	TRICHLOROETHENE	4.756	130	19393	5.1832495 ppb		99
43)	1,2-DICHLOROPROPANE	5.075	62	16619	5.1984256 ppb		99
44)	DIBROMOMETHANE	5.017	93	14506	5.2931910 ppb		97
45)	BROMODICHLOROMETHANE	5.091	83	32506	5.2316399 ppb		93
47)	2-CHLOROETHYL VINYL ETHER	5.412	63	65359	27.3899200 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.477	75	36435	5.1752106 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.846	43	158361	31.2174490 ppb		100
51)	TOLUENE	5.631	91	82300	5.0943631 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.878	75	34431	5.1463099 ppb		98
54)	1,1,2-TRICHLOROETHANE	5.991	97	17283	5.3657865 ppb		97
55)	TETRACHLOROETHENE	5.885	164	13817	5.1536391 ppb		98
56)	1,3-Dichloropropane	6.181	76	32423	5.3019440 ppb		100
57)	2-HEXANONE	6.393	58	57211	31.8597799 ppb		99
58)	CHLORODIBROMOMETHANE	6.116	129	20888	5.1525700 ppb		99
59)	1,2-DIBROMOETHANE	6.300	107	18263	5.2972880 ppb		100
60)	CHLOROBENZENE	6.637	112	49868	4.9617901 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.669	133	19019	4.8602600 ppb	#	99
62)	ETHYLBENZENE	6.634	106	27367	4.9696660 ppb		100
63)	M&P-XYLENE	6.731	106	66957	9.9694429 ppb		99
64)	O-XYLENE	7.042	106	33153	4.9068934 ppb		99
65)	STYRENE	7.075	104	55947	4.9356926 ppb		98
66)	Bromoform	7.113	173	13270	5.2697867 ppb		95
67)	Isopropylbenzene	7.258	105	92383	5.2464898 ppb		98
69)	Bromobenzene	7.573	77	46116	4.9448936 ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	7.605	83	27250	5.5072469 ppb		95
71)	1,2,3-TRICHLOROPROPANE	7.727	110	8227	5.6021139 ppb		94
72)	TRANS-1,4-DICHLORO-2-B...	7.743	53	10708	5.9226777 ppb		95
73)	n-Propylbenzene	7.563	91	113453	5.0443379 ppb		99
74)	4-ETHYLTOLUENE	7.640	105	91340	5.0211511 ppb		100
75)	2-Chlorotoluene	7.698	126	20945	4.9936665 ppb		99
76)	4-Chlorotoluene	7.821	91	70836	4.9838624 ppb		99
77)	1,3,5-Trimethylbenzene	7.698	105	79061	5.0395574 ppb		100
78)	tert-Butylbenzene	7.949	119	63197	4.9927337 ppb		99
79)	1,2,4-Trimethylbenzene	8.001	105	79985	5.0438513 ppb		100
80)	sec-Butylbenzene	8.084	105	103212	5.1928100 ppb		100
81)	1,3-DICHLOROBENZENE	8.277	146	41395	4.9129487 ppb		99
82)	p-Isopropyltoluene	8.187	119	83669	4.9836633 ppb		99
83)	DICYCLOPENTADIENE	8.194	66	110991	5.0729074 ppb		98
85)	1,4-DICHLOROBENZENE	8.341	146	41733	4.7937974 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.345	105	83875	4.9640913 ppb		99
87)	1,2-DICHLOROBENZENE	8.679	146	39658	5.0985257 ppb		99
88)	n-Butylbenzene	8.518	91	90981	5.2609122 ppb		99
89)	1,2-Dibromo-3-chloropr...	9.319	157	6082	6.6056076 ppb		99
90)	1,2,4-Trichlorobenzene	9.872	180	26785	5.0329255 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.833	225	14432	5.3598123 ppb		100
92)	Naphthalene	10.152	128	78425	5.9324567 ppb		99
93)	1,2,3-Trichlorobenzene	10.303	180	25925	5.2045200 ppb		98
94)	1-Methylnaphthalene	11.026	142	45935	5.6833508 ppb		98
95)	2-Methylnaphthalene	11.161	142	39968	5.9814048 ppb		98

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

Quantitation Report (QT Reviewed)

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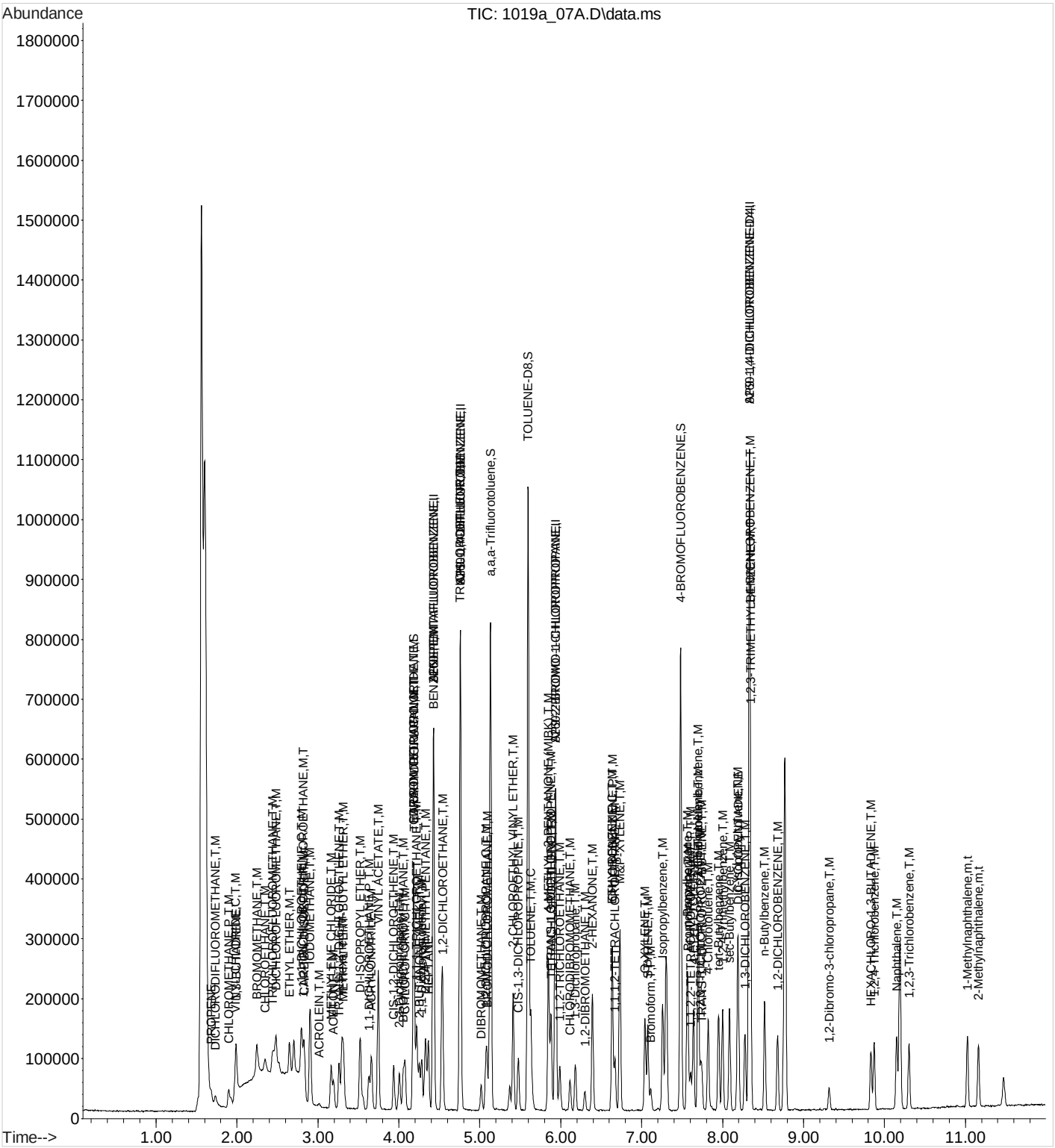
Data File : 1019a 07A.D
Acq On : 20 Oct 2015 3:45 am
Operator : 591
Sample : RL VMS 5.0 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 10:00:19 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:57:36 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 15.D
Acq On : 20 Oct 2015 6:32 am
Operator : 591
Sample : SSCV VMS 25 ppb 15J05157
Misc : water IS/SURR 15H19728
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 20 09:57:47 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:57:36 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.428	168	245057	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.760	114	427421	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	81436	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.332	152	213976	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.428	168	245057	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.760	114	427421	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	81436	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.332	152	213976	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.184	111	149545	39.4393176 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 98.60%		
46) a,a,a-Trifluorotoluene	5.133	146	229310	41.5833446 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.96%		
50) TOLUENE-D8	5.596	98	530010	41.1758895 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.94%		
68) 4-BROMOFLUOROBENZENE	7.480	95	219299	38.9404662 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 97.35%		
Target Compounds					Qvalue
3) PROPENE	1.676	41	16754	16.6448372 ppb	97
4) DICHLORODIFLUOROMETHANE	1.731	85	107495	26.2574659 ppb	99
5) CHLOROMETHANE	1.892	50	147289	24.5403180 ppb	99
6) VINYL CHLORIDE	1.975	62	154036	25.8843170 ppb	100
7) 1,3-BUTADIENE	1.985	39	143525	25.1360002 ppb	99
8) BROMOMETHANE	2.242	94	95306	25.5386254 ppb	100
9) CHLOROETHANE	2.345	64	98309	25.0166129 ppb	100
10) TRICHLOROFLUOROMETHANE	2.445	101	191344	24.5270179 ppb	100
11) DICHLOROFLUOROMETHANE	2.477	67	251942	26.2332356 ppb	99
12) ETHYL ETHER	2.647	59	119663	24.9249317 ppb	98
13) ACROLEIN	3.014	56	13995	176.2742446 ppb	99
14) 1,1-DICHLOROETHENE	2.795	61	205452	25.2866209 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.817	101	97437	25.1704110 ppb	99
16) ACETONE	3.194	43	177005	129.7222401 ppb	97
17) IODOMETHANE	2.901	142	767273	129.4996108 ppb	100
18) CARBON DISULFIDE	2.830	76	340234	25.2523365 ppb	99
19) METHYLENE CHLORIDE	3.162	84	110800	24.6305769 ppb	98
20) ACRYLONITRILE	3.660	53	192957	118.9161957 ppb	99
21) n-Hexane	3.293	56	100168	25.1886028 ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.261	96	101709	25.3943817 ppb	99
23) METHYL TERT-BUTYL ETHER	3.316	73	322604	25.1457584 ppb	99
24) 1,1-DICHLOROETHANE	3.628	63	211626	25.3416460 ppb	99
25) VINYL ACETATE	3.744	43	1142923	117.1019567 ppb	100
26) DI-ISOPROPYL ETHER	3.522	45	447361	25.2621219 ppb	97
27) 2,2-Dichloropropane	4.004	77	144304	24.8286421 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.933	96	113447	25.0204990 ppb	98
29) 2-BUTANONE (MEK)	4.252	43	270720	120.2215267 ppb	99
30) BROMOCHLOROMETHANE	4.052	130	64595	25.1541234 ppb	99
31) TETRAHYDROFURAN	4.187	42	37199	24.3415911 ppb	98
32) CHLOROFORM	4.075	83	201974	25.0382785 ppb	100
34) 1,1,1-TRICHLOROETHANE	4.219	97	160454	25.8128747 ppb	99
35) CARBON TETRACHLORIDE	4.178	117	145589	24.6427977 ppb	99
36) 1,1-Dichloropropene	4.280	75	138800	25.3202340 ppb	100
37) 2,2,4-TRIMETHYLPENTANE	4.329	57	529599	25.4921550 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 15.D
Acq On : 20 Oct 2015 6:32 am
Operator : 591
Sample : SSCV VMS 25 ppb 15J05157
Misc : water IS/SURR 15H19728
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 20 09:57:47 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:57:36 2015
Response via : Initial Calibration

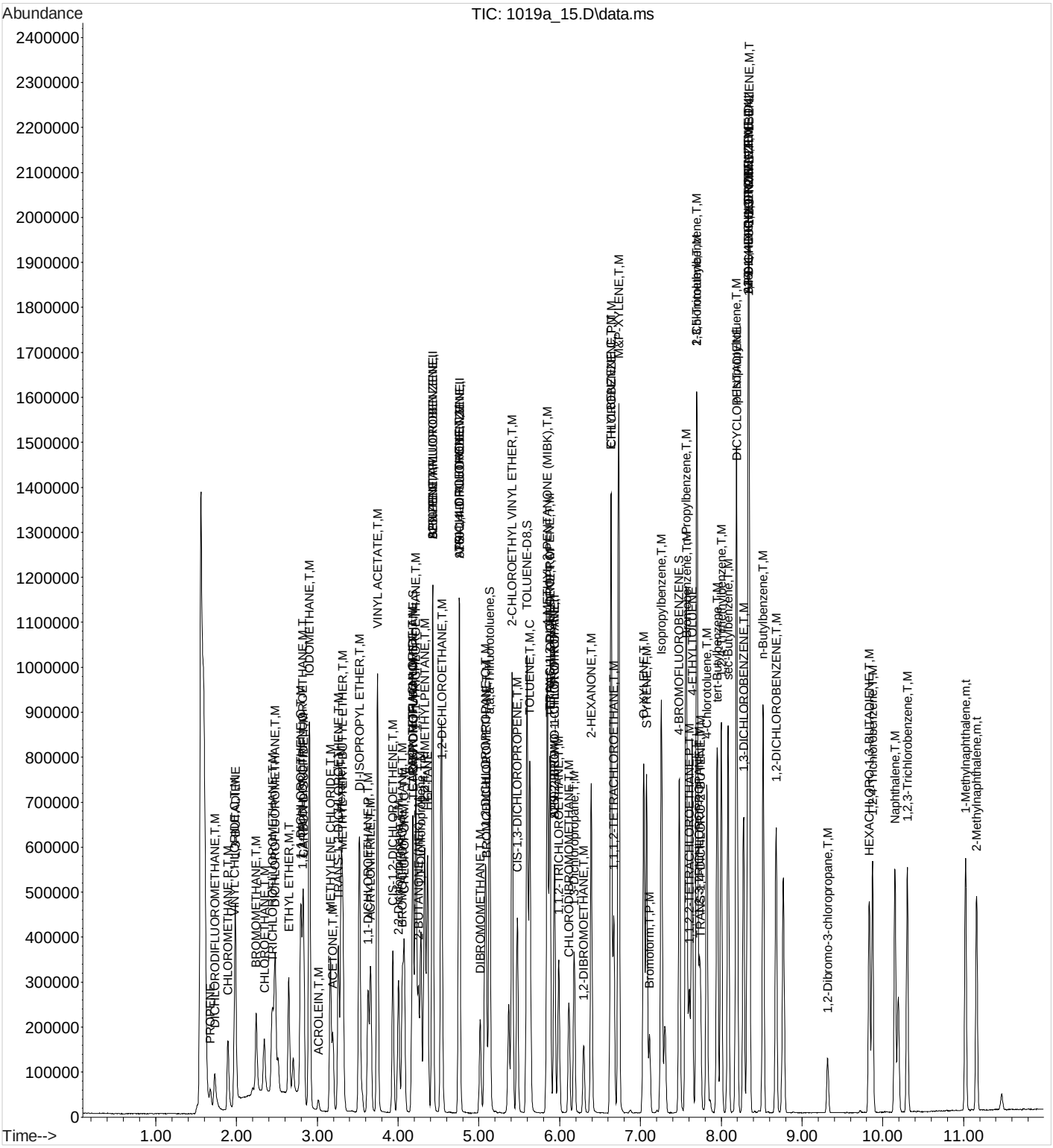
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38) HEPTANE	4.364	43	206486	25.1439235 ppb	#	100
39) BENZENE	4.428	78	411716	24.6842573 ppb		99
40) 1,2-DICHLOROETHANE	4.544	62	174882	25.1788531 ppb		99
42) TRICHLOROETHENE	4.756	130	99018	25.4731625 ppb		98
43) 1,2-DICHLOROPROPANE	5.078	62	83850	25.2453626 ppb		99
44) DIBROMOMETHANE	5.017	93	68038	23.8964301 ppb		99
45) BROMODICHLOROMETHANE	5.091	83	162999	25.2505504 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.412	63	331813	133.8413658 ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.477	75	184846	25.2714937 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.846	43	604772	114.7499351 ppb		100
51) TOLUENE	5.631	91	411600	24.5231937 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.878	75	174096	25.0464794 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.988	97	82218	24.1110044 ppb		99
55) TETRACHLOROETHENE	5.882	164	69363	24.4378077 ppb		98
56) 1,3-Dichloropropane	6.181	76	156042	24.1022497 ppb		99
57) 2-HEXANONE	6.390	58	210901	110.9368947 ppb		98
58) CHLORODIBROMOMETHANE	6.116	129	103310	24.0715213 ppb		99
59) 1,2-DIBROMOETHANE	6.296	107	87246	23.9034796 ppb		99
60) CHLOROBENZENE	6.637	112	254759	23.9430852 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.669	133	97080	23.4334227 ppb		100
62) ETHYLBENZENE	6.634	106	139007	23.8435442 ppb		100
63) M&P-XYLENE	6.731	106	342153	48.1204176 ppb		99
64) O-XYLENE	7.039	106	173476	24.2525452 ppb		100
65) STYRENE	7.075	104	297479	24.7891564 ppb		99
66) Bromoform	7.113	173	66653	25.0020690 ppb		99
67) Isopropylbenzene	7.258	105	461739	24.7689426 ppb		99
69) Bromobenzene	7.573	77	236602	23.9639203 ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.605	83	121744	23.2407286 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.727	110	35191	22.6347749 ppb		98
72) TRANS-1,4-DICHLORO-2-B...	7.743	53	43003	22.4668727 ppb		98
73) n-Propylbenzene	7.563	91	578357	24.2894856 ppb		100
74) 4-ETHYLTOLUENE	7.640	105	464253	24.1063319 ppb		100
75) 2-Chlorotoluene	7.698	126	108499	24.4342517 ppb		99
76) 4-Chlorotoluene	7.821	91	370240	24.6053463 ppb		100
77) 1,3,5-Trimethylbenzene	7.698	105	407118	24.5123263 ppb		100
78) tert-Butylbenzene	7.949	119	330885	24.6918230 ppb		100
79) 1,2,4-Trimethylbenzene	8.001	105	414341	24.6800347 ppb		100
80) sec-Butylbenzene	8.084	105	522446	24.8283457 ppb		99
81) 1,3-DICHLOROBENZENE	8.277	146	216071	24.2228343 ppb		100
82) p-Isopropyltoluene	8.187	119	432439	24.3300558 ppb		100
83) DICYCLOPENTADIENE	8.194	66	563038	24.3075399 ppb		100
85) 1,4-DICHLOROBENZENE	8.341	146	221796	24.4110841 ppb		96
86) 1,2,3-TRIMETHYLBENZENE	8.345	105	441682	25.0466824 ppb		100
87) 1,2-DICHLOROBENZENE	8.679	146	206543	25.4423702 ppb		99
88) n-Butylbenzene	8.518	91	445707	24.6940934 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.319	157	22582	23.4996851 ppb		96
90) 1,2,4-Trichlorobenzene	9.872	180	137627	24.7779729 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.833	225	72932	25.9522173 ppb		99
92) Naphthalene	10.152	128	351786	25.4971646 ppb		100
93) 1,2,3-Trichlorobenzene	10.303	180	131508	25.2957391 ppb		100
94) 1-Methylnaphthalene	11.026	142	224635	26.6300173 ppb		99
95) 2-Methylnaphthalene	11.161	142	189361	27.1527987 ppb		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 15.D
Acq On : 20 Oct 2015 6:32 am
Operator : 591
Sample : SSCV VMS 25 ppb 15J05157
Misc : water IS/SURR 15H19728
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 20 09:57:47 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:57:36 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 03.D
Acq On : 20 Oct 2015 2:20 am
Operator : 591
Sample : STD VMS .25 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:40:26 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.425	168	270012	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	463257	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	86646	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.332	152	239132	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.43
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.76
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.94
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.33
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.184	111	166979	39.9671700	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.92%				
46) a,a,a-Trifluorotoluene	5.132	146	250565	41.9228400	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.81%				
50) TOLUENE-D8	5.595	98	574939	41.2111336	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.03%				
68) 4-BROMOFLUOROBENZENE	7.483	95	246789	41.1868150	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.97%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.934	TIC	-2924886m	1.8640735	ppm		
3) PROPENE	1.669	41	998	0.5814269	ppb	#	64
4) DICHLORODIFLUOROMETHANE	1.731	85	1345	0.2981748	ppb	#	44
5) CHLOROMETHANE	1.895	50	2673	0.3827362	ppb	#	84
6) VINYL CHLORIDE	1.978	62	1610	0.2455412	ppb	#	52
7) 1,3-BUTADIENE	1.988	39	2615	0.3717934	ppb		98
8) BROMOMETHANE	2.245	94	982	0.2388212	ppb	#	26
9) CHLOROETHANE	2.341	64	1159	0.2676719	ppb	#	44
10) TRICHLOROFLUOROMETHANE	2.441	101	2569	0.2988671	ppb	#	80
11) DICHLOROFLUOROMETHANE	2.480	67	2225	0.2102642	ppb	#	62
12) ETHYL ETHER	2.647	59	1562	0.2952570	ppb	#	63
14) 1,1-DICHLOROETHENE	2.795	61	2260	0.2524486	ppb	#	87
15) 1,1,2-TRICHLOROTRIFLUO...	2.824	101	1002	0.2349190	ppb	#	73
16) ACETONE	3.190	43	4795	2.4697866	ppb		94
17) IODOMETHANE	2.901	142	7261	1.1122413	ppb		96
18) CARBON DISULFIDE	2.830	76	3907	0.2631790	ppb	#	63
19) METHYLENE CHLORIDE	3.161	84	2390	0.4075871	ppb		82
20) ACRYLONITRILE	3.657	53	2244	1.2551261	ppb	#	80
21) n-Hexane	3.290	56	1929	0.4117570	ppb	#	53
22) TRANS-1,2-DICHLOROETHENE	3.258	96	1162	0.2633107	ppb	#	82
23) METHYL TERT-BUTYL ETHER	3.316	73	3477	0.2459709	ppb	#	11
24) 1,1-DICHLOROETHANE	3.628	63	2229	0.2422478	ppb	#	58
25) VINYL ACETATE	3.743	43	13666	1.2708002	ppb		100
26) DI-ISOPROPYL ETHER	3.521	45	4935	0.2529198	ppb		92
27) 2,2-Dichloropropane	4.007	77	1779	0.2777984	ppb	#	60
28) CIS-1,2-DICHLOROETHENE	3.933	96	1267	0.2536084	ppb		98
29) 2-BUTANONE (MEK)	4.255	43	5085	1.8827407	ppb		95
30) BROMOCHLOROMETHANE	4.052	130	676	0.2389137	ppb		99
31) TETRAHYDROFURAN	4.187	42	608	0.3007806	ppb	#	58
32) CHLOROFORM	4.075	83	2103	0.2366096	ppb	#	82
34) 1,1,1-TRICHLOROETHANE	4.213	97	1461	0.2133144	ppb	#	78
35) CARBON TETRACHLORIDE	4.177	117	2265	0.3218279	ppb		86
36) 1,1-Dichloropropene	4.280	75	1365	0.2259924	ppb	#	52
37) 2,2,4-TRIMETHYLPENTANE	4.329	57	6437	0.2812075	ppb		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 03.D
Acq On : 20 Oct 2015 2:20 am
Operator : 591
Sample : STD VMS .25 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:40:26 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

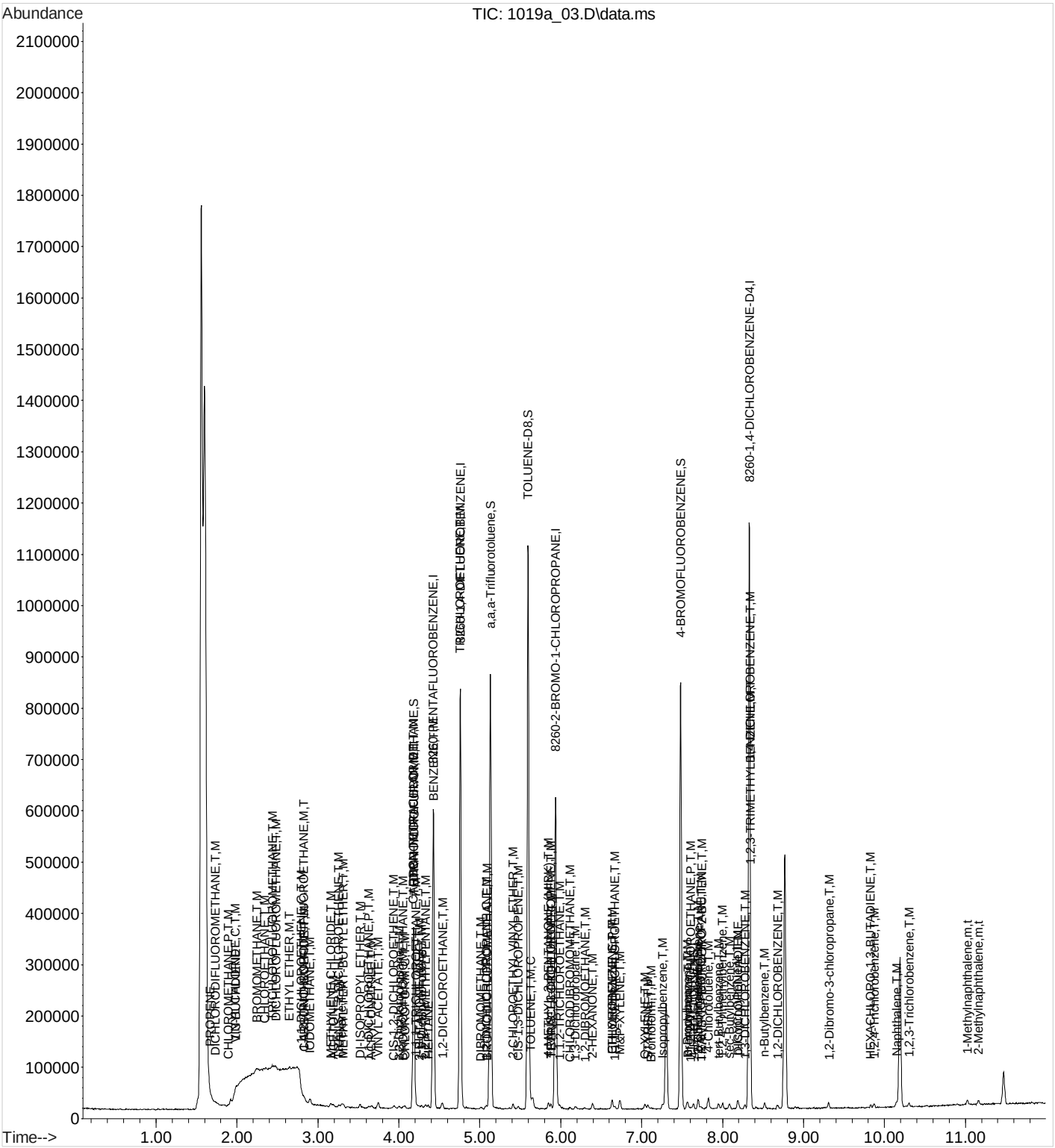
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	HEPTANE	4.364	43	2280	0.2517744 ppb	#	99
39)	BENZENE	4.431	78	4998	0.2719543 ppb	#	1
40)	1,2-DICHLOROETHANE	4.544	62	1796	0.2346828 ppb	#	80
42)	TRICHLOROETHENE	4.756	130	981	0.2328475 ppb	#	89
43)	1,2-DICHLOROPROPANE	5.078	62	851	0.2363970 ppb	#	66
44)	DIBROMOMETHANE	5.010	93	919	0.2978042 ppb	#	43
45)	BROMODICHLOROMETHANE	5.094	83	1708	0.2441224 ppb	#	86
47)	2-CHLOROETHYL VINYL ETHER	5.412	63	3043	1.1324858 ppb	#	75
48)	CIS-1,3-DICHLOROPROPENE	5.476	75	1771	0.2233949 ppb	#	80
49)	4-METHYL-2-PENTANONE (...	5.846	43	7119	1.2462743 ppb		93
51)	TOLUENE	5.631	91	5036	0.2768352 ppb		92
52)	TRANS-1,3-DICHLOROPROPENE	5.878	75	1880	0.2495454 ppb	#	79
54)	1,1,2-TRICHLOROETHANE	5.988	97	806	0.2221526 ppb	#	50
55)	TETRACHLOROETHENE	5.882	164	787	0.2606016 ppb	#	89
56)	1,3-Dichloropropane	6.181	76	1673	0.2428734 ppb	#	73
57)	2-HEXANONE	6.390	58	3605	1.7158384 ppb	#	72
58)	CHLORODIBROMOMETHANE	6.113	129	1073	0.2349789 ppb	#	83
59)	1,2-DIBROMOETHANE	6.300	107	1019	0.2623963 ppb		84
60)	CHLOROBENZENE	6.637	112	2982	0.2634063 ppb		96
61)	1,1,1,2-TETRACHLOROETHANE	6.666	133	1381	0.3133052 ppb	#	96
62)	ETHYLBENZENE	6.637	106	1751	0.2822853 ppb		77
63)	M&P-XYLENE	6.730	106	4021	0.5315095 ppb		98
64)	O-XYLENE	7.039	106	2204	0.2895992 ppb		73
65)	STYRENE	7.074	104	3073	0.2406835 ppb	#	81
66)	Bromoform	7.116	173	538	0.1896734 ppb	#	27
67)	Isopropylbenzene	7.258	105	4575	0.2306587 ppb	#	90
69)	Bromobenzene	7.573	77	2746	0.2614014 ppb		96
70)	1,1,2,2-TETRACHLOROETHANE	7.605	83	1407	0.2524435 ppb	#	94
71)	1,2,3-TRICHLOROPROPANE	7.734	110	576	0.3231202 ppb	#	23
72)	TRANS-1,4-DICHLORO-2-B...	7.740	53	517	0.2538647 ppb	#	28
73)	n-Propylbenzene	7.563	91	6546	0.2583844 ppb	#	95
74)	4-ETHYLTOLUENE	7.640	105	5394	0.2632421 ppb		94
75)	2-Chlorotoluene	7.698	126	1158	0.2480032 ppb		87
76)	4-Chlorotoluene	7.824	91	4497	0.2808904 ppb	#	87
77)	1,3,5-Trimethylbenzene	7.698	105	4596	0.2600831 ppb		97
78)	tert-Butylbenzene	7.949	119	3768	0.2642743 ppb		95
79)	1,2,4-Trimethylbenzene	7.997	105	4511	0.2525391 ppb		95
80)	sec-Butylbenzene	8.084	105	5518	0.2464654 ppb		98
81)	1,3-DICHLOROBENZENE	8.277	146	2431	0.2561423 ppb		97
82)	p-Isopropyltoluene	8.184	119	5283	0.2793616 ppb		98
83)	DICYCLOPENTADIENE	8.193	66	6068	0.2462163 ppb		99
85)	1,4-DICHLOROBENZENE	8.341	146	3072	0.3025394 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.344	105	5125	0.2600529 ppb		92
87)	1,2-DICHLOROBENZENE	8.679	146	2216	0.2442554 ppb		96
88)	n-Butylbenzene	8.518	91	5415	0.2684537 ppb		93
89)	1,2-Dibromo-3-chloropr...	9.322	157	179m	0.1666787 ppb		
90)	1,2,4-Trichlorobenzene	9.872	180	1771	0.2853041 ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	9.830	225	706	0.2247959 ppb	#	19
92)	Naphthalene	10.151	128	5138	0.3137553 ppb		99
93)	1,2,3-Trichlorobenzene	10.303	180	1786	0.3074001 ppb	#	78
94)	1-Methylnaphthalene	11.026	142	3269	0.3349788 ppb	#	82
95)	2-Methylnaphthalene	11.161	142	2628	0.3268292 ppb	#	84

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 03.D
Acq On : 20 Oct 2015 2:20 am
Operator : 591
Sample : STD VMS .25 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:40:26 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 03.D
Acq On    : 20 Oct 2015   2:20 am
Operator  : 591
Sample    : STD VMS .25 ppb 15J05152
Misc      : water IS/SURR 15H19728
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Oct 20 09:38:18 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration
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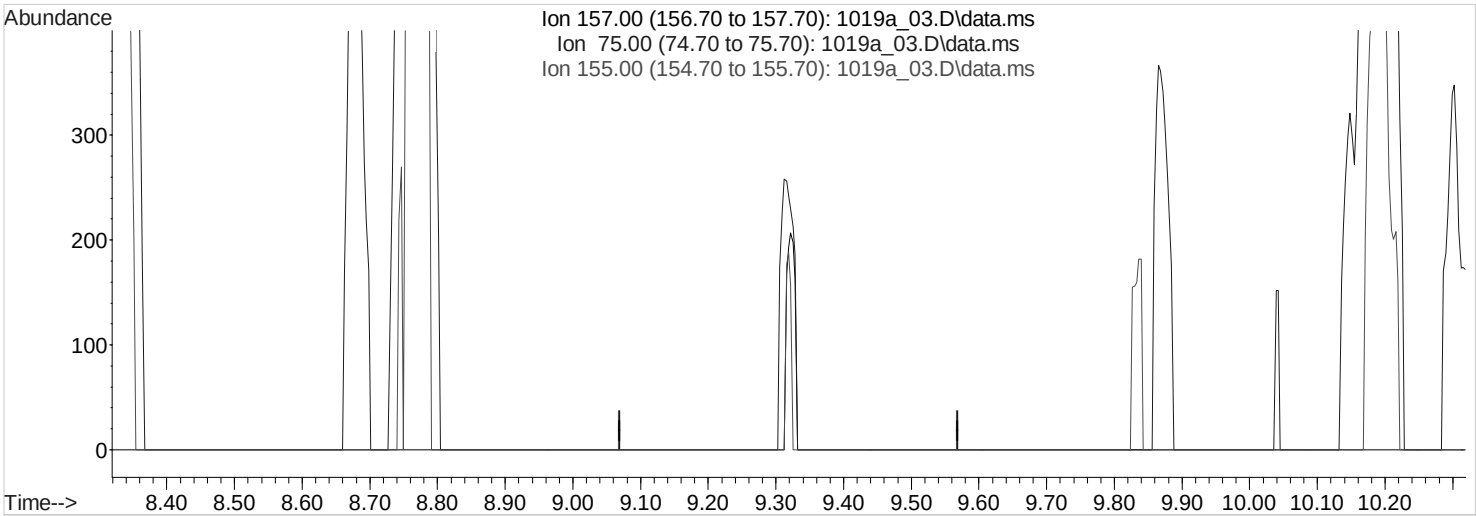

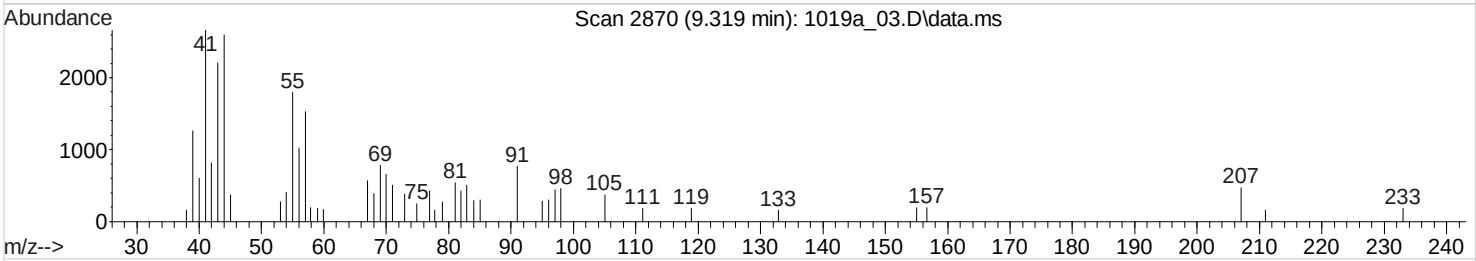

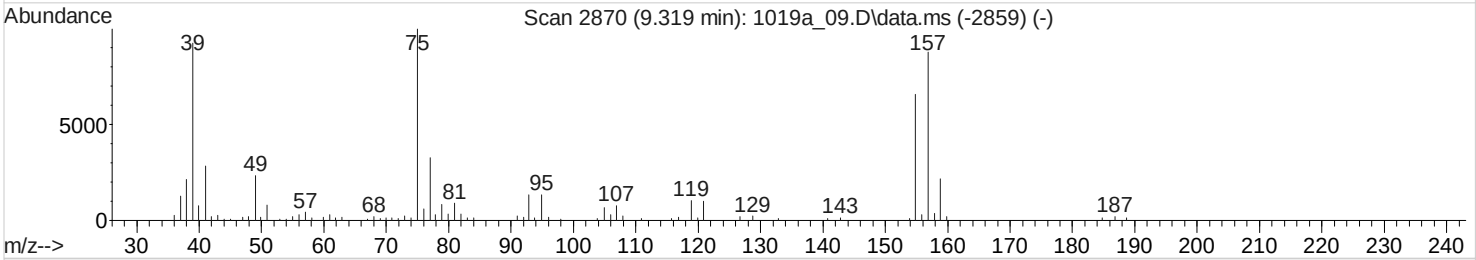

TIC: 1019a_03.D\data.ms

(89) 1,2-Dibromo-3-chloropropane (T,M)

9.319min (-9.319) 0.0000000 ppb

Qvalue = 0

response 0

Ion	Exp%	Act%
157.00	100	0.00
75.00	117.10	0.00#
155.00	76.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 03.D
Acq On    : 20 Oct 2015   2:20 am
Operator  : 591
Sample    : STD VMS .25 ppb 15J05152
Misc      : water IS/SURR 15H19728
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Oct 20 09:38:18 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration
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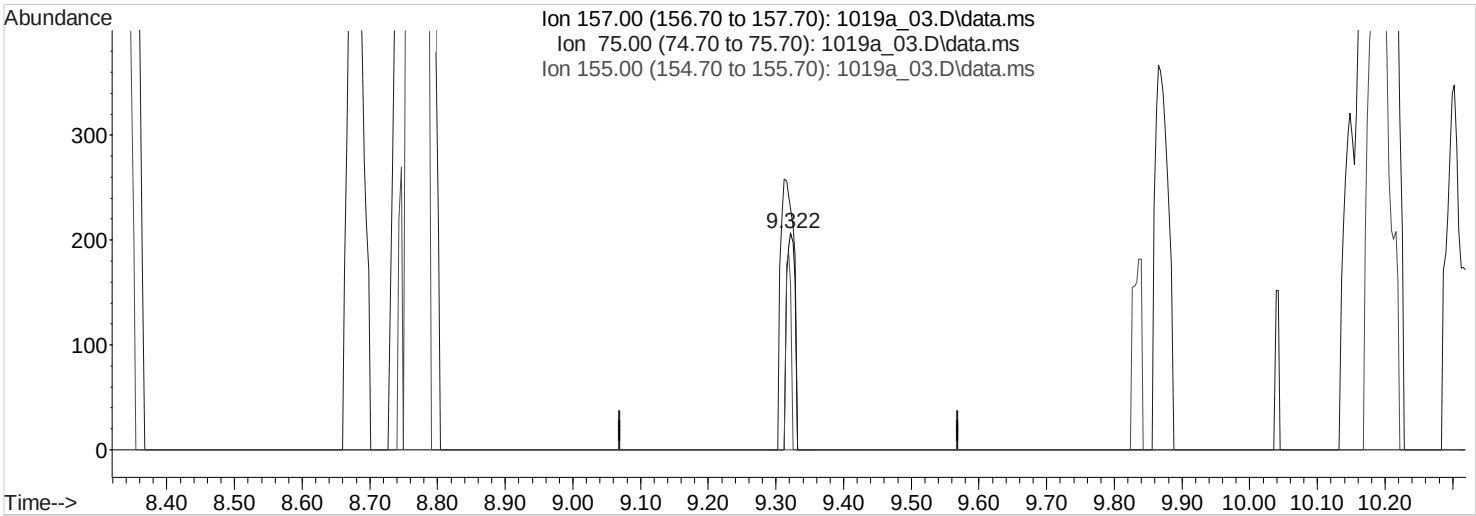
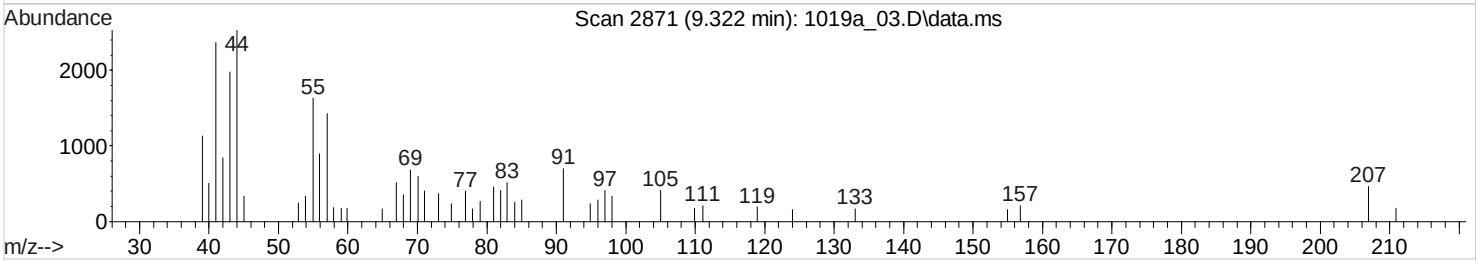
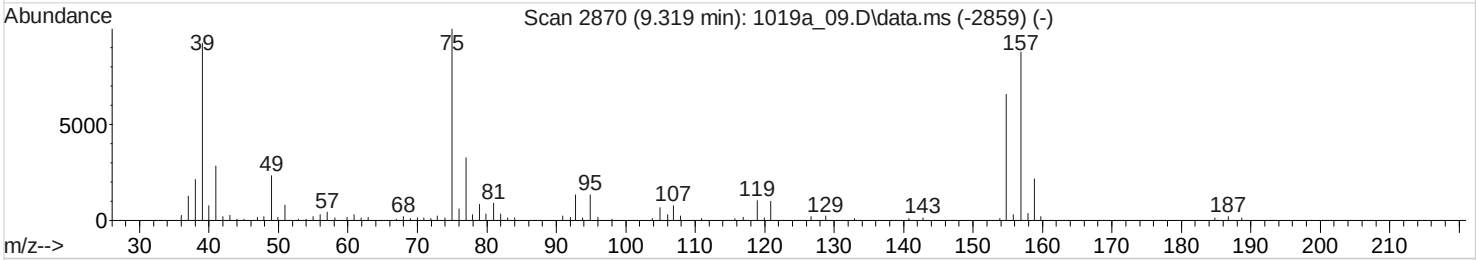






TIC: 1019a_03.D\data.ms

(89) 1,2-Dibromo-3-chloropropane (T,M)

9.322min (+0.003) 0.1666787 ppb m

response 179

Ion	Exp%	Act%
157.00	100	100
75.00	117.10	0.00#
155.00	76.30	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 04.D
Acq On : 20 Oct 2015 2:41 am
Operator : 591
Sample : STD VMS .5 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:41:55 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.428	168	265349	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	459912	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	84602	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.328	152	228433	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.43
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.76
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.94
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.33
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.184	111	165984	40.4271735	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 101.07%				
46) a,a,a-Trifluorotoluene	5.132	146	247327	41.6820498	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.21%				
50) TOLUENE-D8	5.599	98	567410	40.9672702	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.42%				
68) 4-BROMOFLUOROBENZENE	7.483	95	239570	40.9480035	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.37%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.934	TIC	-3124196m	2.0260866	ppm		
3) PROPENE	1.679	41	1554	0.9212579	ppb	#	64
4) DICHLORODIFLUOROMETHANE	1.734	85	1954	0.4407971	ppb		98
5) CHLOROMETHANE	1.895	50	4239	0.6176317	ppb	#	91
6) VINYL CHLORIDE	1.978	62	3416	0.5301295	ppb	#	77
7) 1,3-BUTADIENE	1.988	39	5054	0.7311910	ppb		93
8) BROMOMETHANE	2.245	94	2168	0.5365204	ppb	#	88
9) CHLOROETHANE	2.345	64	2380	0.5593219	ppb	#	89
10) TRICHLOROFLUOROMETHANE	2.451	101	4970	0.5883503	ppb	#	96
11) DICHLOROFLUOROMETHANE	2.480	67	5269	0.5066746	ppb	#	66
12) ETHYL ETHER	2.650	59	3041	0.5849263	ppb		89
13) ACROLEIN	3.023	56	540	4.0654896	ppb	#	13
14) 1,1-DICHLOROETHENE	2.795	61	5148	0.5851519	ppb	#	67
15) 1,1,2-TRICHLOROTRIFLUO...	2.817	101	2575	0.6143181	ppb	#	69
16) ACETONE	3.193	43	6375	3.3413089	ppb		97
17) IODOMETHANE	2.904	142	16258	2.5341675	ppb		98
18) CARBON DISULFIDE	2.830	76	8082	0.5539778	ppb	#	62
19) METHYLENE CHLORIDE	3.161	84	5077	0.8810393	ppb	#	64
20) ACRYLONITRILE	3.660	53	4649	2.6459990	ppb		97
21) n-Hexane	3.296	56	2565	0.5571367	ppb		97
22) TRANS-1,2-DICHLOROETHENE	3.261	96	2371	0.5467131	ppb		94
23) METHYL TERT-BUTYL ETHER	3.319	73	7302	0.5256377	ppb		100
24) 1,1-DICHLOROETHANE	3.631	63	4819	0.5329327	ppb	#	84
25) VINYL ACETATE	3.747	43	28013	2.6507031	ppb		99
26) DI-ISOPROPYL ETHER	3.521	45	10096	0.5265149	ppb		99
27) 2,2-Dichloropropane	4.004	77	3880	0.6165256	ppb	#	60
28) CIS-1,2-DICHLOROETHENE	3.936	96	2713	0.5525892	ppb		97
29) 2-BUTANONE (MEK)	4.255	43	8131	3.0634382	ppb		100
30) BROMOCHLOROMETHANE	4.055	130	1471	0.5290206	ppb		99
31) TETRAHYDROFURAN	4.193	42	1268	0.6383093	ppb	#	73
32) CHLOROFORM	4.078	83	4814	0.5511436	ppb	#	95
34) 1,1,1-TRICHLOROETHANE	4.222	97	3579	0.5317374	ppb	#	89
35) CARBON TETRACHLORIDE	4.177	117	4801	0.6941491	ppb	#	63
36) 1,1-Dichloropropene	4.280	75	3223	0.5429840	ppb	#	70

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 04.D
Acq On : 20 Oct 2015 2:41 am
Operator : 591
Sample : STD VMS .5 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:41:55 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.328	57	13026	0.5790554 ppb		99
38)	HEPTANE	4.364	43	4374	0.4914972 ppb	#	94
39)	BENZENE	4.428	78	9958	0.5513627 ppb	#	34
40)	1,2-DICHLOROETHANE	4.544	62	3764	0.5004839 ppb	#	80
42)	TRICHLOROETHENE	4.756	130	2297	0.5491751 ppb		96
43)	1,2-DICHLOROPROPANE	5.074	62	1952	0.5461846 ppb	#	95
44)	DIBROMOMETHANE	5.017	93	1737	0.5669731 ppb	#	74
45)	BROMODICHLOROMETHANE	5.091	83	3487	0.5020176 ppb	#	89
47)	2-CHLOROETHYL VINYL ETHER	5.412	63	6734	2.5243594 ppb	#	92
48)	CIS-1,3-DICHLOROPROPENE	5.476	75	4077	0.5180154 ppb	#	95
49)	4-METHYL-2-PENTANONE (...	5.849	43	15576	2.7466152 ppb		95
51)	TOLUENE	5.631	91	9732	0.5388711 ppb		90
52)	TRANS-1,3-DICHLOROPROPENE	5.878	75	3687	0.4929605 ppb	#	88
54)	1,1,2-TRICHLOROETHANE	5.991	97	1994	0.5628716 ppb		95
55)	TETRACHLOROETHENE	5.881	164	1525	0.5171780 ppb		95
56)	1,3-Dichloropropane	6.181	76	3417	0.5080388 ppb	#	83
57)	2-HEXANONE	6.393	58	5879	2.8657774 ppb		92
58)	CHLORODIBROMOMETHANE	6.116	129	2391	0.5362614 ppb		94
59)	1,2-DIBROMOETHANE	6.299	107	2040	0.5379991 ppb		100
60)	CHLOROBENZENE	6.640	112	5584	0.5051633 ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.672	133	2410	0.5599623 ppb	#	93
62)	ETHYLBENZENE	6.634	106	3124	0.5157996 ppb		100
63)	M&P-XYLENE	6.730	106	7693	1.0414551 ppb		99
64)	O-XYLENE	7.042	106	3787	0.5096230 ppb		97
65)	STYRENE	7.078	104	6335	0.5081573 ppb		92
66)	Bromoform	7.113	173	1489	0.5376340 ppb	#	90
67)	Isopropylbenzene	7.258	105	9958	0.5141843 ppb		99
69)	Bromobenzene	7.573	77	5404	0.5268544 ppb		96
70)	1,1,2,2-TETRACHLOROETHANE	7.605	83	2952	0.5424433 ppb	#	87
71)	1,2,3-TRICHLOROPROPANE	7.734	110	1180	0.6779404 ppb	#	23
72)	TRANS-1,4-DICHLORO-2-B...	7.746	53	977	0.4913311 ppb	#	53
73)	n-Propylbenzene	7.563	91	13303	0.5377838 ppb	#	96
74)	4-ETHYLTOLUENE	7.640	105	10702	0.5349056 ppb		96
75)	2-Chlorotoluene	7.698	126	2320	0.5088674 ppb		95
76)	4-Chlorotoluene	7.820	91	8015	0.5127262 ppb		98
77)	1,3,5-Trimethylbenzene	7.698	105	8575	0.4969746 ppb		95
78)	tert-Butylbenzene	7.949	119	7481	0.5373677 ppb		97
79)	1,2,4-Trimethylbenzene	8.000	105	9202	0.5276013 ppb		95
80)	sec-Butylbenzene	8.084	105	11089	0.5072646 ppb		98
81)	1,3-DICHLOROBENZENE	8.277	146	4845	0.5228271 ppb		98
82)	p-Isopropyltoluene	8.187	119	9623	0.5211522 ppb		99
83)	DICYCLOPENTADIENE	8.193	66	12559	0.5219083 ppb		100
85)	1,4-DICHLOROBENZENE	8.344	146	5284	0.5447565 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.344	105	10710	0.5689003 ppb		99
87)	1,2-DICHLOROBENZENE	8.679	146	4530	0.5226988 ppb	#	91
88)	n-Butylbenzene	8.518	91	10508	0.5453432 ppb		97
89)	1,2-Dibromo-3-chloropr...	9.319	157	507	0.4942126 ppb	#	51
90)	1,2,4-Trichlorobenzene	9.872	180	3463	0.5840108 ppb		97
91)	HEXACHLORO-1,3-BUTADIENE	9.830	225	1568	0.5226472 ppb		96
92)	Naphthalene	10.151	128	8895	0.5686195 ppb		96
93)	1,2,3-Trichlorobenzene	10.303	180	3051	0.5497226 ppb		95
94)	1-Methylnaphthalene	11.026	142	5665	0.6076886 ppb	#	93
95)	2-Methylnaphthalene	11.161	142	4527	0.5893656 ppb		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 04.D
Acq On : 20 Oct 2015 2:41 am
Operator : 591
Sample : STD VMS .5 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:41:55 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

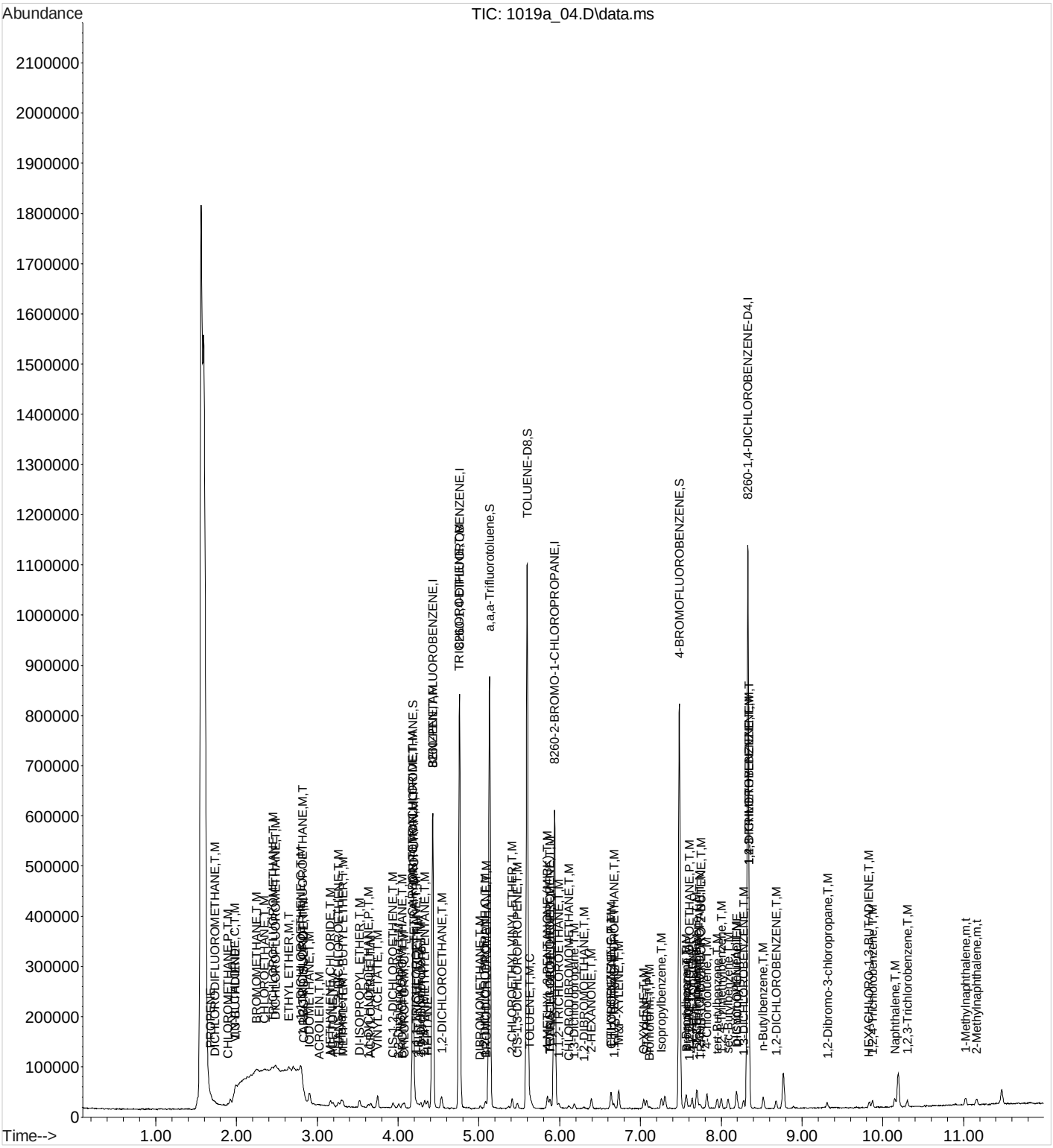
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 04.D
Acq On : 20 Oct 2015 2:41 am
Operator : 591
Sample : STD VMS .5 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:41:55 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 05.D
Acq On : 20 Oct 2015 3:02 am
Operator : 591
Sample : STD VMS 1 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:43:17 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.428	168	266004	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	462750	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	85304	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.332	152	226800	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.43
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.76
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.94
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.33
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.184	111	169316	41.1371727	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 102.84%				
46) a,a,a-Trifluorotoluene	5.132	146	254390	42.6094460	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.52%				
50) TOLUENE-D8	5.595	98	587845	42.1823901	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.46%				
68) 4-BROMOFLUOROBENZENE	7.483	95	244995	41.5306524	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.83%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.934	TIC	-2721651m	1.7606840	ppm		
3) PROPENE	1.676	41	1858	1.0987659	ppb		90
4) DICHLORODIFLUOROMETHANE	1.734	85	4278	0.9626851	ppb		100
5) CHLOROMETHANE	1.895	50	7093	1.0309211	ppb		99
6) VINYL CHLORIDE	1.978	62	6805	1.0534685	ppb	#	87
7) 1,3-BUTADIENE	1.988	39	7985	1.1523909	ppb		100
8) BROMOMETHANE	2.245	94	3905	0.9640005	ppb		86
9) CHLOROETHANE	2.345	64	4670	1.0947906	ppb		95
10) TRICHLOROFLUOROMETHANE	2.451	101	8328	0.9834438	ppb	#	89
11) DICHLOROFLUOROMETHANE	2.483	67	10976	1.0528690	ppb		98
12) ETHYL ETHER	2.647	59	5303	1.0175030	ppb		95
13) ACROLEIN	3.010	56	800	6.0081168	ppb		88
14) 1,1-DICHLOROETHENE	2.795	61	9071	1.0285243	ppb	#	89
15) 1,1,2-TRICHLOROTRIFLUO...	2.824	101	3947	0.9393176	ppb	#	89
16) ACETONE	3.193	43	10548	5.5148772	ppb	#	81
17) IODOMETHANE	2.901	142	31223	4.8548087	ppb		99
18) CARBON DISULFIDE	2.830	76	14362	0.9820141	ppb	#	71
19) METHYLENE CHLORIDE	3.161	84	6006	1.0396873	ppb		92
20) ACRYLONITRILE	3.660	53	8879	5.0410786	ppb		95
21) n-Hexane	3.296	56	4401	0.9535754	ppb		93
22) TRANS-1,2-DICHLOROETHENE	3.261	96	4518	1.0392103	ppb		93
23) METHYL TERT-BUTYL ETHER	3.316	73	13728	0.9857827	ppb		97
24) 1,1-DICHLOROETHANE	3.628	63	9162	1.0107297	ppb		90
25) VINYL ACETATE	3.743	43	56433	5.3267694	ppb		99
26) DI-ISOPROPYL ETHER	3.521	45	19605	1.0198998	ppb		98
27) 2,2-Dichloropropane	4.004	77	7300	1.1571018	ppb	#	91
28) CIS-1,2-DICHLOROETHENE	3.936	96	5002	1.0163086	ppb		97
29) 2-BUTANONE (MEK)	4.251	43	13528	5.0842634	ppb		99
30) BROMOCHLOROMETHANE	4.055	130	2904	1.0418036	ppb		92
31) TETRAHYDROFURAN	4.190	42	2494	1.2523844	ppb	#	80
32) CHLOROFORM	4.078	83	8874	1.0134618	ppb		97
34) 1,1,1-TRICHLOROETHANE	4.219	97	6844	1.0143195	ppb		98
35) CARBON TETRACHLORIDE	4.177	117	7164	1.0332512	ppb		94
36) 1,1-Dichloropropene	4.283	75	6083	1.0222893	ppb	#	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 05.D
Acq On : 20 Oct 2015 3:02 am
Operator : 591
Sample : STD VMS 1 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:43:17 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.329	57	20185	0.8950908 ppb		95
38)	HEPTANE	4.364	43	9081	1.0179002 ppb	#	97
39)	BENZENE	4.428	78	18810	1.0389230 ppb	#	65
40)	1,2-DICHLOROETHANE	4.544	62	7736	1.0260919 ppb		99
42)	TRICHLOROETHENE	4.756	130	4434	1.0535953 ppb		94
43)	1,2-DICHLOROPROPANE	5.074	62	3551	0.9875035 ppb	#	92
44)	DIBROMOMETHANE	5.017	93	3088	1.0017704 ppb		88
45)	BROMODICHLOROMETHANE	5.091	83	7001	1.0017409 ppb		98
47)	2-CHLOROETHYL VINYL ETHER	5.412	63	13419	4.9994997 ppb		97
48)	CIS-1,3-DICHLOROPROPENE	5.476	75	8063	1.0181856 ppb	#	98
49)	4-METHYL-2-PENTANONE (...	5.849	43	28802	5.0476920 ppb		94
51)	TOLUENE	5.631	91	18193	1.0011875 ppb		94
52)	TRANS-1,3-DICHLOROPROPENE	5.878	75	7473	0.9930299 ppb	#	87
54)	1,1,2-TRICHLOROETHANE	5.988	97	3691	1.0333310 ppb		92
55)	TETRACHLOROETHENE	5.881	164	2877	0.9676566 ppb		97
56)	1,3-Dichloropropane	6.181	76	6983	1.0296868 ppb		93
57)	2-HEXANONE	6.393	58	11034	5.3343709 ppb		97
58)	CHLORODIBROMOMETHANE	6.113	129	4744	1.0552440 ppb		96
59)	1,2-DIBROMOETHANE	6.296	107	4038	1.0561581 ppb		98
60)	CHLOROBENZENE	6.637	112	11158	1.0011150 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.669	133	4183	0.9639197 ppb	#	98
62)	ETHYLBENZENE	6.634	106	5932	0.9713647 ppb		98
63)	M&P-XYLENE	6.730	106	14245	1.9125752 ppb		100
64)	O-XYLENE	7.039	106	7596	1.0137945 ppb		93
65)	STYRENE	7.074	104	12613	1.0034165 ppb		99
66)	Bromoform	7.113	173	2589	0.9271187 ppb		96
67)	Isopropylbenzene	7.258	105	19186	0.9825222 ppb		100
69)	Bromobenzene	7.573	77	10152	0.9816080 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.605	83	5920	1.0788745 ppb		89
71)	1,2,3-TRICHLOROPROPANE	7.727	110	1938	1.1042681 ppb	#	80
72)	TRANS-1,4-DICHLORO-2-B...	7.743	53	2191	1.0927814 ppb	#	73
73)	n-Propylbenzene	7.563	91	24375	0.9772687 ppb		97
74)	4-ETHYLTOLUENE	7.640	105	19574	0.9702933 ppb		98
75)	2-Chlorotoluene	7.701	126	4737	1.0304603 ppb		89
76)	4-Chlorotoluene	7.820	91	15360	0.9745057 ppb		99
77)	1,3,5-Trimethylbenzene	7.698	105	16878	0.9701352 ppb		99
78)	tert-Butylbenzene	7.949	119	14124	1.0061919 ppb		98
79)	1,2,4-Trimethylbenzene	8.000	105	17598	1.0006869 ppb		100
80)	sec-Butylbenzene	8.084	105	21195	0.9615831 ppb		99
81)	1,3-DICHLOROBENZENE	8.277	146	9609	1.0283802 ppb		96
82)	p-Isopropyltoluene	8.187	119	18071	0.9706161 ppb		95
83)	DICYCLOPENTADIENE	8.193	66	23760	0.9792572 ppb		98
85)	1,4-DICHLOROBENZENE	8.341	146	9648	1.0018268 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.344	105	17823	0.9535497 ppb		96
87)	1,2-DICHLOROBENZENE	8.679	146	8746	1.0164326 ppb		95
88)	n-Butylbenzene	8.518	91	19820	1.0360228 ppb		100
89)	1,2-Dibromo-3-chloropr...	9.322	157	1102	1.0819402 ppb		95
90)	1,2,4-Trichlorobenzene	9.875	180	6064	1.0300145 ppb		95
91)	HEXACHLORO-1,3-BUTADIENE	9.833	225	3175	1.0659138 ppb		99
92)	Naphthalene	10.151	128	16698	1.0751177 ppb		100
93)	1,2,3-Trichlorobenzene	10.303	180	5556	1.0082760 ppb		97
94)	1-Methylnaphthalene	11.026	142	10016	1.0821596 ppb		100
95)	2-Methylnaphthalene	11.161	142	7944	1.0416680 ppb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 05.D
Acq On : 20 Oct 2015 3:02 am
Operator : 591
Sample : STD VMS 1 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:43:17 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

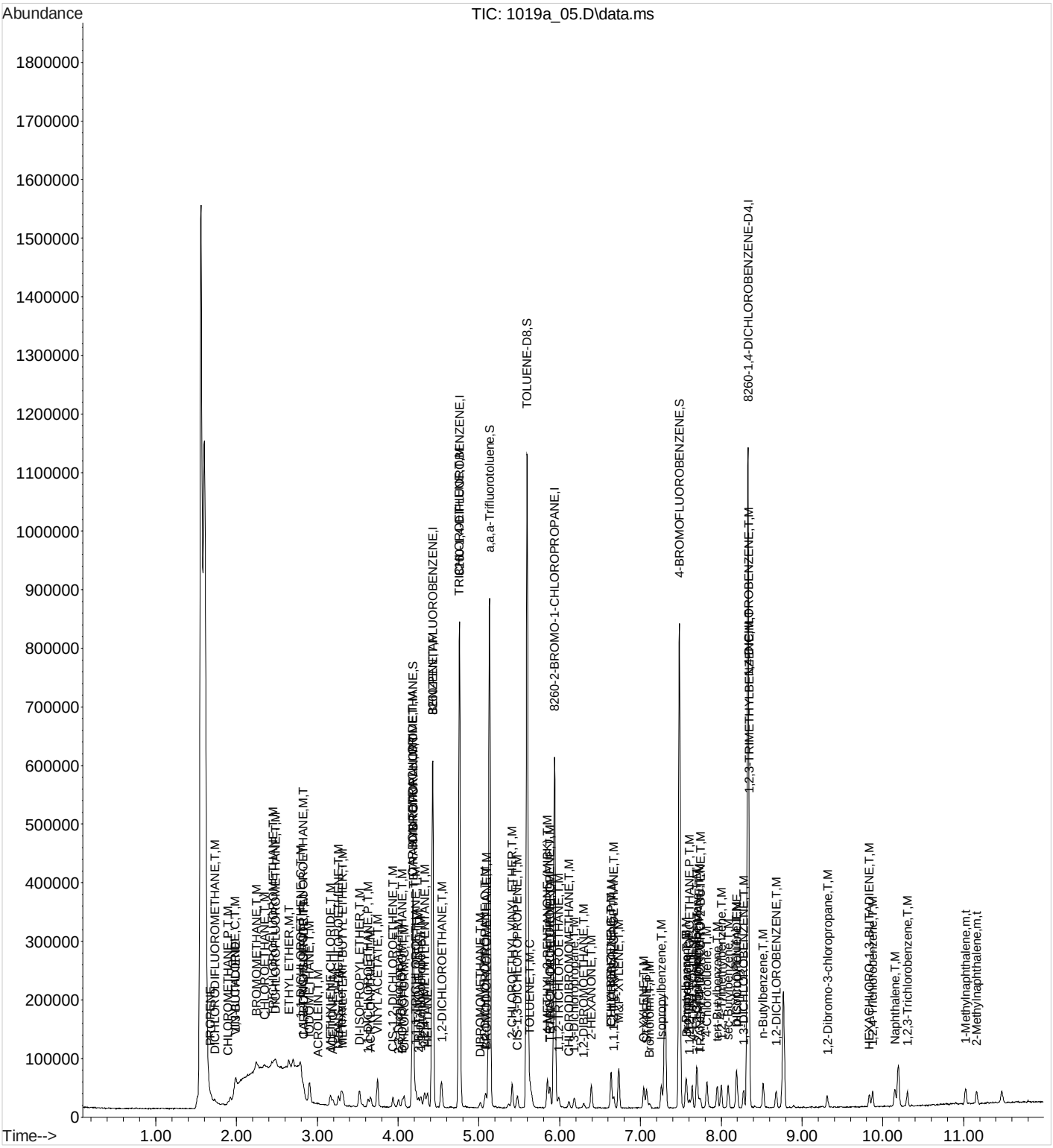
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 05.D
Acq On : 20 Oct 2015 3:02 am
Operator : 591
Sample : STD VMS 1 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:43:17 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 06.D
Acq On : 20 Oct 2015 3:23 am
Operator : 591
Sample : STD VMS 2 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 09:44:26 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.428	168	264402	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	458996	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	85336	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.332	152	224821	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.43
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.76
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.94
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.33
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.184	111	172549	42.1766730	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 105.44%				
46) a,a,a-Trifluorotoluene	5.132	146	254608	42.9947496	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 107.49%				
50) TOLUENE-D8	5.595	98	586939	42.4618439	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 106.15%				
68) 4-BROMOFLUOROBENZENE	7.483	95	247024	41.8588986	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.65%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.934	TIC	-2518276m	1.6389882	ppm		
3) PROPENE	1.673	41	3307	1.9675107	ppb		93
4) DICHLORODIFLUOROMETHANE	1.731	85	7635	1.7285262	ppb		91
5) CHLOROMETHANE	1.891	50	13435	1.9645205	ppb		100
6) VINYL CHLORIDE	1.975	62	13055	2.0332638	ppb		96
7) 1,3-BUTADIENE	1.988	39	13875	2.0145652	ppb		99
8) BROMOMETHANE	2.245	94	8767	2.1773621	ppb	#	96
9) CHLOROETHANE	2.345	64	8257	1.9474212	ppb	#	87
10) TRICHLOROFLUOROMETHANE	2.444	101	16467	1.9563509	ppb	#	97
11) DICHLOROFLUOROMETHANE	2.480	67	21481	2.0730423	ppb		98
12) ETHYL ETHER	2.647	59	10122	1.9539067	ppb		91
13) ACROLEIN	3.010	56	2824	21.3371547	ppb	#	63
14) 1,1-DICHLOROETHENE	2.795	61	18116	2.0665462	ppb		94
15) 1,1,2-TRICHLOROTRIFLUO...	2.817	101	8138	1.9484374	ppb	#	90
16) ACETONE	3.190	43	18557	9.7610586	ppb	#	90
17) IODOMETHANE	2.901	142	64198	10.0425135	ppb		99
18) CARBON DISULFIDE	2.830	76	28680	1.9729014	ppb	#	69
19) METHYLENE CHLORIDE	3.161	84	10443	1.8187211	ppb		98
20) ACRYLONITRILE	3.660	53	17234	9.8439395	ppb		96
21) n-Hexane	3.293	56	8818	1.9221938	ppb		93
22) TRANS-1,2-DICHLOROETHENE	3.261	96	8213	1.9005638	ppb		96
23) METHYL TERT-BUTYL ETHER	3.316	73	28871	2.0857353	ppb		94
24) 1,1-DICHLOROETHANE	3.628	63	18541	2.0577913	ppb		95
25) VINYL ACETATE	3.743	43	117354	11.1442818	ppb		99
26) DI-ISOPROPYL ETHER	3.522	45	38550	2.0176158	ppb		94
27) 2,2-Dichloropropane	4.007	77	12084	1.9270051	ppb		99
28) CIS-1,2-DICHLOROETHENE	3.936	96	10093	2.0631253	ppb		97
29) 2-BUTANONE (MEK)	4.251	43	26116	9.8747142	ppb		96
30) BROMOCHLOROMETHANE	4.052	130	5722	2.0651924	ppb		98
31) TETRAHYDROFURAN	4.190	42	4512	2.2794692	ppb		96
32) CHLOROFORM	4.075	83	17834	2.0490858	ppb		99
34) 1,1,1-TRICHLOROETHANE	4.219	97	13576	2.0242308	ppb		96
35) CARBON TETRACHLORIDE	4.177	117	13526	1.9626513	ppb		99
36) 1,1-Dichloropropene	4.280	75	12008	2.0302528	ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 06.D
Acq On : 20 Oct 2015 3:23 am
Operator : 591
Sample : STD VMS 2 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 09:44:26 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.329	57	42095	1.8779857 ppb		94
38)	HEPTANE	4.364	43	17529	1.9767516 ppb	#	98
39)	BENZENE	4.431	78	35378	1.9658540 ppb	#	80
40)	1,2-DICHLOROETHANE	4.544	62	15357	2.0492719 ppb		100
42)	TRICHLOROETHENE	4.756	130	8076	1.9346926 ppb		97
43)	1,2-DICHLOROPROPANE	5.078	62	7187	2.0149912 ppb		92
44)	DIBROMOMETHANE	5.017	93	6241	2.0411862 ppb		96
45)	BROMODICHLOROMETHANE	5.094	83	14163	2.0430929 ppb		96
47)	2-CHLOROETHYL VINYL ETHER	5.412	63	26455	9.9369175 ppb		96
48)	CIS-1,3-DICHLOROPROPENE	5.476	75	16040	2.0420773 ppb	#	100
49)	4-METHYL-2-PENTANONE (...	5.849	43	58884	10.4041123 ppb		99
51)	TOLUENE	5.631	91	35642	1.9774736 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.878	75	14464	1.9377300 ppb		98
54)	1,1,2-TRICHLOROETHANE	5.991	97	7074	1.9796919 ppb		96
55)	TETRACHLOROETHENE	5.882	164	5655	1.9013021 ppb		97
56)	1,3-Dichloropropane	6.181	76	13473	1.9859327 ppb		94
57)	2-HEXANONE	6.393	58	21897	10.5821025 ppb		96
58)	CHLORODIBROMOMETHANE	6.116	129	8776	1.9513804 ppb		99
59)	1,2-DIBROMOETHANE	6.296	107	7578	1.9813188 ppb		97
60)	CHLOROBENZENE	6.637	112	21859	1.9604917 ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.669	133	8714	2.0072787 ppb	#	98
62)	ETHYLBENZENE	6.634	106	11989	1.9624620 ppb		100
63)	M&P-XYLENE	6.730	106	29060	3.9002172 ppb		98
64)	O-XYLENE	7.042	106	14898	1.9876048 ppb		99
65)	STYRENE	7.074	104	25662	2.0407530 ppb		98
66)	Bromoform	7.113	173	5729	2.0507807 ppb		98
67)	Isopropylbenzene	7.258	105	38424	1.9669695 ppb		99
69)	Bromobenzene	7.573	77	21230	2.0519823 ppb		95
70)	1,1,2,2-TETRACHLOROETHANE	7.605	83	11083	2.0190341 ppb		94
71)	1,2,3-TRICHLOROPROPANE	7.730	110	3711	2.1137267 ppb	#	83
72)	TRANS-1,4-DICHLORO-2-B...	7.746	53	4623	2.3048991 ppb		94
73)	n-Propylbenzene	7.563	91	48646	1.9496363 ppb		99
74)	4-ETHYLTOLUENE	7.640	105	39254	1.9451114 ppb		100
75)	2-Chlorotoluene	7.698	126	9053	1.9686001 ppb		98
76)	4-Chlorotoluene	7.824	91	31115	1.9733317 ppb		99
77)	1,3,5-Trimethylbenzene	7.698	105	33528	1.9264424 ppb		100
78)	tert-Butylbenzene	7.949	119	26907	1.9161324 ppb		97
79)	1,2,4-Trimethylbenzene	8.000	105	34596	1.9665179 ppb		99
80)	sec-Butylbenzene	8.087	105	44417	2.0143723 ppb		98
81)	1,3-DICHLOROBENZENE	8.277	146	18902	2.0221827 ppb		98
82)	p-Isopropyltoluene	8.187	119	35039	1.8812829 ppb		100
83)	DICYCLOPENTADIENE	8.193	66	47742	1.9669262 ppb		100
85)	1,4-DICHLOROBENZENE	8.344	146	18807	1.9700673 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.344	105	37128	2.0038733 ppb		100
87)	1,2-DICHLOROBENZENE	8.679	146	17757	2.0818281 ppb		99
88)	n-Butylbenzene	8.521	91	36751	1.9379429 ppb		97
89)	1,2-Dibromo-3-chloropr...	9.319	157	2104	2.0838841 ppb		96
90)	1,2,4-Trichlorobenzene	9.875	180	11998	2.0558867 ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.833	225	6444	2.1824287 ppb		99
92)	Naphthalene	10.151	128	32357	2.1016770 ppb		96
93)	1,2,3-Trichlorobenzene	10.303	180	11688	2.1397527 ppb		94
94)	1-Methylnaphthalene	11.026	142	18538	2.0205334 ppb		98
95)	2-Methylnaphthalene	11.161	142	16009	2.1176807 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 06.D
Acq On : 20 Oct 2015 3:23 am
Operator : 591
Sample : STD VMS 2 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 09:44:26 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

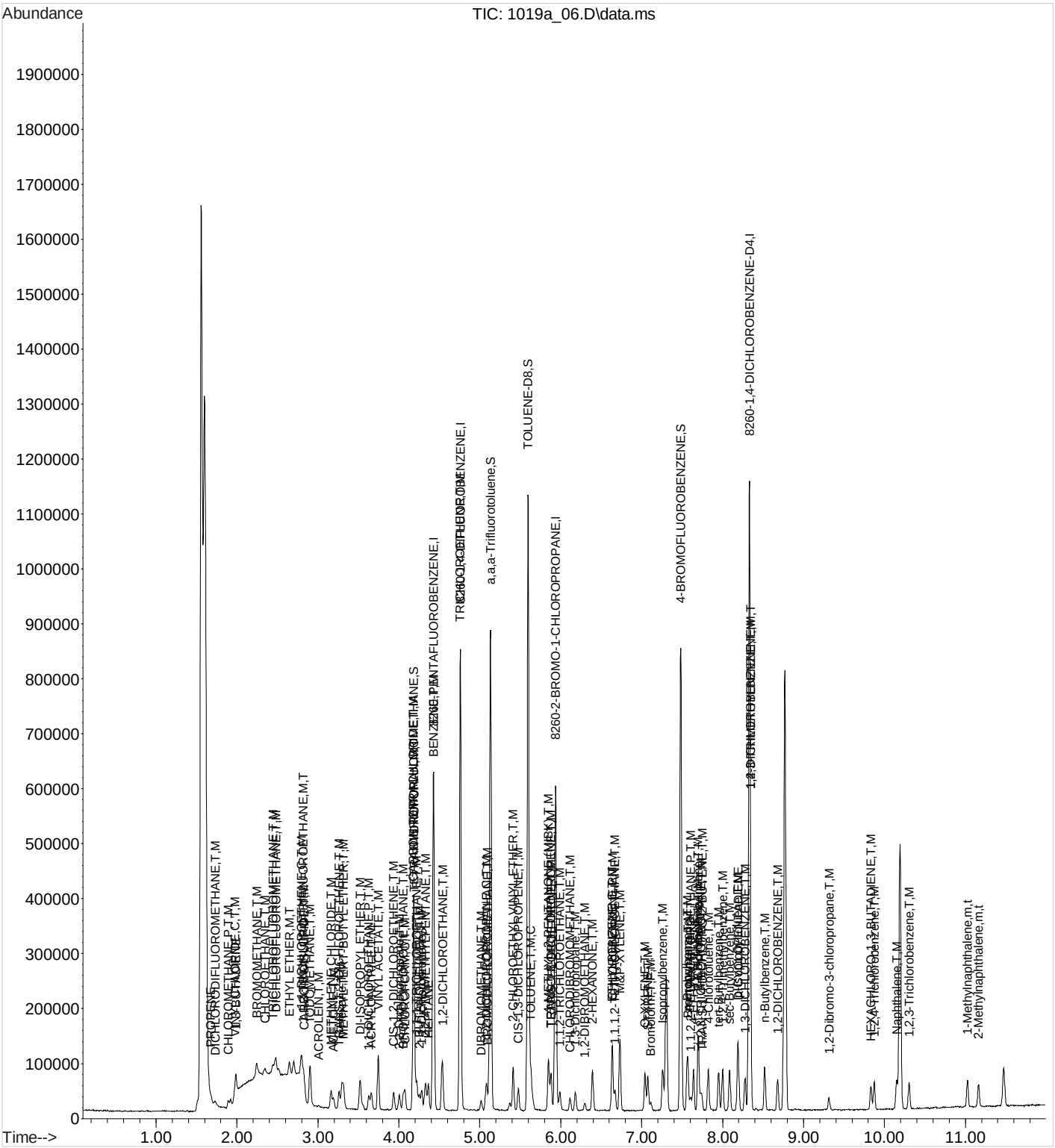
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 06.D
Acq On : 20 Oct 2015 3:23 am
Operator : 591
Sample : STD VMS 2 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 09:44:26 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 07.D
Acq On : 20 Oct 2015 3:45 am
Operator : 591
Sample : STD VMS 5 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 09:46:14 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.428	168	238507	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.760	114	411403	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	76922	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.332	152	205021	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.43
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.76
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.94
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.33
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.184	111	160388	43.4605631	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 108.65%			
46) a,a,a-Trifluorotoluene	5.133	146	233985	44.0831726	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 110.21%			
50) TOLUENE-D8	5.596	98	539879	43.5756389	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 108.94%			
68) 4-BROMOFLUOROBENZENE	7.483	95	226637	42.6050593	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 106.51%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.934	TIC	-2147343m	1.5493072	ppm	
3) PROPENE	1.679	41	6819	4.4974590	ppb	96
4) DICHLORODIFLUOROMETHANE	1.734	85	22740	5.7071724	ppb	100
5) CHLOROMETHANE	1.898	50	30375	4.9237817	ppb	100
6) VINYL CHLORIDE	1.978	62	31306	5.4051536	ppb	95
7) 1,3-BUTADIENE	1.991	39	30425	4.8971401	ppb	98
8) BROMOMETHANE	2.245	94	19222	5.2922680	ppb	99
9) CHLOROETHANE	2.348	64	19746	5.1627411	ppb	98
10) TRICHLOROFLUOROMETHANE	2.441	101	39025	5.1397121	ppb	100
11) DICHLOROFLUOROMETHANE	2.483	67	50589	5.4121941	ppb	100
12) ETHYL ETHER	2.647	59	23797	5.0924093	ppb	98
13) ACROLEIN	3.014	56	3487	29.2070281	ppb	87
14) 1,1-DICHLOROETHENE	2.795	61	42244	5.3420930	ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.821	101	19879	5.2762689	ppb	97
16) ACETONE	3.194	43	47686	27.8063288	ppb	99
17) IODOMETHANE	2.904	142	149518	25.9285368	ppb	99
18) CARBON DISULFIDE	2.830	76	67395	5.1394603	ppb	97
19) METHYLENE CHLORIDE	3.162	84	22469	4.3379863	ppb	99
20) ACRYLONITRILE	3.660	53	52120	33.0028054	ppb	99
21) n-Hexane	3.297	56	20463	4.9449283	ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.261	96	20738	5.3199936	ppb	98
23) METHYL TERT-BUTYL ETHER	3.316	73	66966	5.3630930	ppb	98
24) 1,1-DICHLOROETHANE	3.631	63	42183	5.1900225	ppb	97
25) VINYL ACETATE	3.744	43	279377	29.4109087	ppb	100
26) DI-ISOPROPYL ETHER	3.522	45	86556	5.0219787	ppb	98
27) 2,2-Dichloropropane	4.007	77	29078	5.1404398	ppb	97
28) CIS-1,2-DICHLOROETHENE	3.936	96	22204	5.0315310	ppb	98
29) 2-BUTANONE (MEK)	4.252	43	73199	30.6822094	ppb	98
30) BROMOCHLOROMETHANE	4.055	130	13031	5.2137957	ppb	98
31) TETRAHYDROFURAN	4.187	42	11250	6.3005834	ppb	98
32) CHLOROFORM	4.075	83	40196	5.1198569	ppb	100
34) 1,1,1-TRICHLOROETHANE	4.219	97	32282	5.3359560	ppb	97
35) CARBON TETRACHLORIDE	4.181	117	29917	4.8123300	ppb	99
36) 1,1-Dichloropropene	4.280	75	28699	5.3791024	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 07.D
Acq On : 20 Oct 2015 3:45 am
Operator : 591
Sample : STD VMS 5 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 09:46:14 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.329	57	106568	5.2705045 ppb		100
38)	HEPTANE	4.364	43	42250	5.2818405 ppb	#	98
39)	BENZENE	4.432	78	82319	5.0708607 ppb		92
40)	1,2-DICHLOROETHANE	4.544	62	35365	5.2315512 ppb		100
42)	TRICHLOROETHENE	4.756	130	19393	5.1832495 ppb		99
43)	1,2-DICHLOROPROPANE	5.075	62	16619	5.1984256 ppb		99
44)	DIBROMOMETHANE	5.017	93	14506	5.2931910 ppb		97
45)	BROMODICHLOROMETHANE	5.091	83	32506	5.2316399 ppb		93
47)	2-CHLOROETHYL VINYL ETHER	5.412	63	65359	27.3899200 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.477	75	36435	5.1752106 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.846	43	158361	31.2174490 ppb		100
51)	TOLUENE	5.631	91	82300	5.0943631 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.878	75	34431	5.1463099 ppb		98
54)	1,1,2-TRICHLOROETHANE	5.991	97	17283	5.3657865 ppb		97
55)	TETRACHLOROETHENE	5.885	164	13817	5.1536391 ppb		98
56)	1,3-Dichloropropane	6.181	76	32423	5.3019440 ppb		100
57)	2-HEXANONE	6.393	58	57211	30.6724592 ppb		99
58)	CHLORODIBROMOMETHANE	6.116	129	20888	5.1525700 ppb		99
59)	1,2-DIBROMOETHANE	6.300	107	18263	5.2972880 ppb		100
60)	CHLOROBENZENE	6.637	112	49868	4.9617901 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.669	133	19019	4.8602600 ppb	#	99
62)	ETHYLBENZENE	6.634	106	27367	4.9696660 ppb		100
63)	M&P-XYLENE	6.731	106	66957	9.9694429 ppb		99
64)	O-XYLENE	7.042	106	33153	4.9068934 ppb		99
65)	STYRENE	7.075	104	55947	4.9358102 ppb		98
66)	Bromoform	7.113	173	13270	5.2697867 ppb		95
67)	Isopropylbenzene	7.258	105	92383	5.2464898 ppb		98
69)	Bromobenzene	7.573	77	46116	4.9448936 ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	7.605	83	27250	5.5072469 ppb		95
71)	1,2,3-TRICHLOROPROPANE	7.727	110	8227	5.1985365 ppb		94
72)	TRANS-1,4-DICHLORO-2-B...	7.743	53	10708	5.9226777 ppb		95
73)	n-Propylbenzene	7.563	91	113453	5.0443379 ppb		99
74)	4-ETHYLTOLUENE	7.640	105	91340	5.0211511 ppb		100
75)	2-Chlorotoluene	7.698	126	20945	5.0527412 ppb		99
76)	4-Chlorotoluene	7.821	91	70836	4.9838624 ppb		99
77)	1,3,5-Trimethylbenzene	7.698	105	79061	5.0395574 ppb		100
78)	tert-Butylbenzene	7.949	119	63197	4.9927337 ppb		99
79)	1,2,4-Trimethylbenzene	8.001	105	79985	5.0438513 ppb		100
80)	sec-Butylbenzene	8.084	105	103212	5.1928100 ppb		100
81)	1,3-DICHLOROBENZENE	8.277	146	41395	4.9129487 ppb		99
82)	p-Isopropyltoluene	8.187	119	83669	4.9836633 ppb		99
83)	DICYCLOPENTADIENE	8.194	66	110991	5.0729074 ppb		98
85)	1,4-DICHLOROBENZENE	8.341	146	41733	4.7937974 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.345	105	83875	4.9640913 ppb		99
87)	1,2-DICHLOROBENZENE	8.679	146	39658	5.0985257 ppb		99
88)	n-Butylbenzene	8.518	91	90981	5.2609122 ppb		99
89)	1,2-Dibromo-3-chloropr...	9.319	157	6082	6.6056076 ppb		99
90)	1,2,4-Trichlorobenzene	9.872	180	26785	5.0329255 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.833	225	14432	5.3598123 ppb		100
92)	Naphthalene	10.152	128	78425	5.5858695 ppb		99
93)	1,2,3-Trichlorobenzene	10.303	180	25925	5.2045200 ppb		98
94)	1-Methylnaphthalene	11.026	142	45935	5.4901652 ppb		98
95)	2-Methylnaphthalene	11.161	142	39968	5.7975863 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 07.D
Acq On : 20 Oct 2015 3:45 am
Operator : 591
Sample : STD VMS 5 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 09:46:14 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

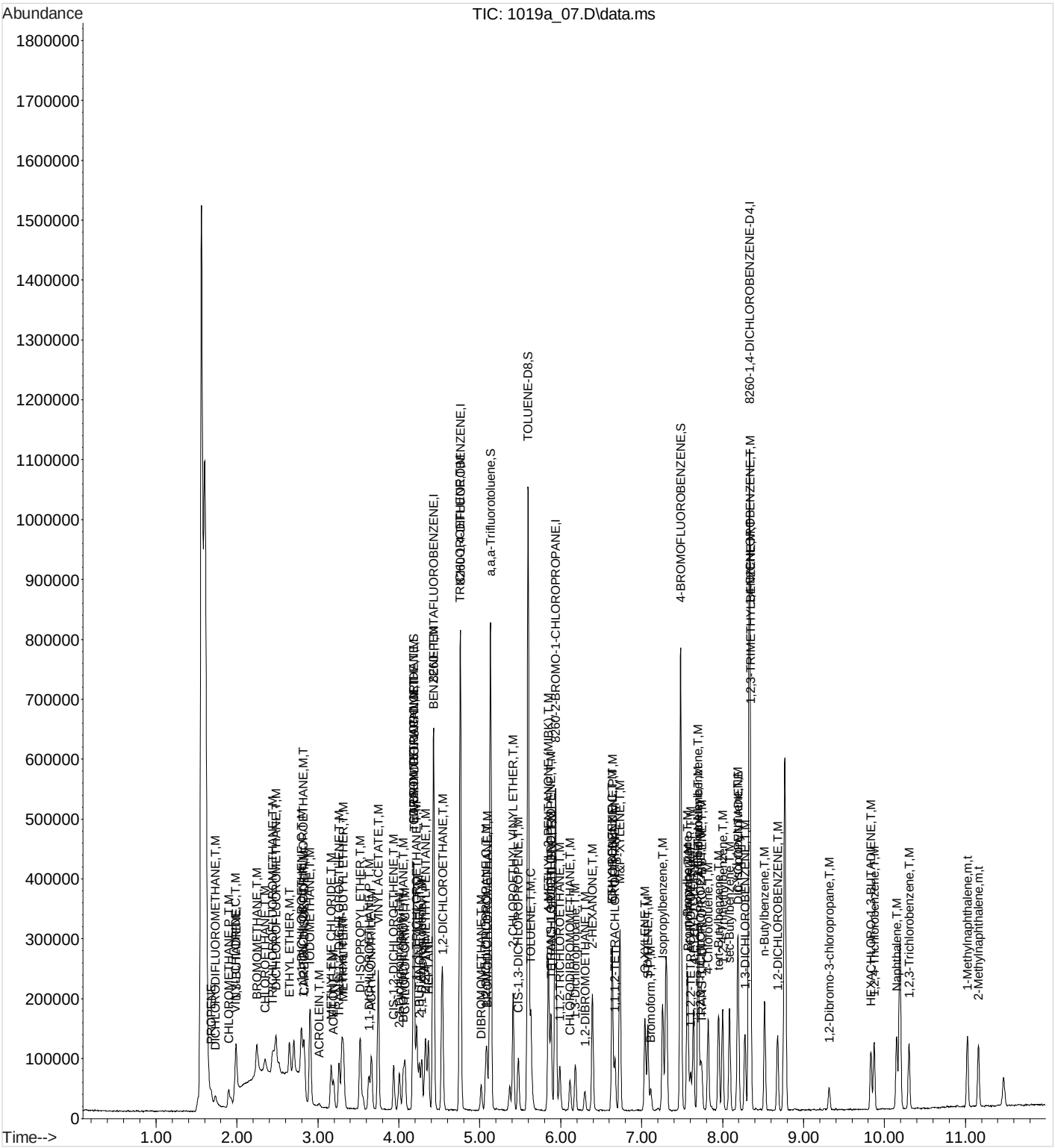
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 07.D
Acq On : 20 Oct 2015 3:45 am
Operator : 591
Sample : STD VMS 5 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 09:46:14 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 08.D
Acq On : 20 Oct 2015 4:05 am
Operator : 591
Sample : STD VMS 10 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 09:47:27 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.428	168	256896	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	441287	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	83752	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.332	152	222197	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.43
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.76
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.94
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.33
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.184	111	175796	44.2258567	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 110.56%			
46) a,a,a-Trifluorotoluene	5.132	146	255945	44.9549786	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 112.39%			
50) TOLUENE-D8	5.599	98	594841	44.7604603	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 111.90%			
68) 4-BROMOFLUOROBENZENE	7.483	95	250484	43.2479705	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 108.12%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.934	TIC	-1716283m	1.1496582	ppm	
3) PROPENE	1.676	41	12142	7.4349925	ppb	96
4) DICHLORODIFLUOROMETHANE	1.731	85	44198	10.2985702	ppb	98
5) CHLOROMETHANE	1.891	50	61450	9.2480077	ppb	99
6) VINYL CHLORIDE	1.975	62	64047	10.2665148	ppb	99
7) 1,3-BUTADIENE	1.985	39	61004	9.1162041	ppb	96
8) BROMOMETHANE	2.242	94	39631	10.1302946	ppb	99
9) CHLOROETHANE	2.342	64	40606	9.8567834	ppb	100
10) TRICHLOROFLUOROMETHANE	2.444	101	80292	9.8177495	ppb	99
11) DICHLOROFLUOROMETHANE	2.477	67	106261	10.5544342	ppb	99
12) ETHYL ETHER	2.647	59	48676	9.6707412	ppb	97
13) ACROLEIN	3.014	56	4864	37.8244633	ppb	91
14) 1,1-DICHLOROETHENE	2.795	61	85918	10.0872864	ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.817	101	44230	10.8991621	ppb	98
16) ACETONE	3.190	43	66201	35.8394302	ppb	96
17) IODOMETHANE	2.901	142	316094	50.8914201	ppb	100
18) CARBON DISULFIDE	2.827	76	154515	10.9396713	ppb #	93
19) METHYLENE CHLORIDE	3.161	84	47131	8.4480189	ppb	98
20) ACRYLONITRILE	3.660	53	79255	46.5925961	ppb	99
21) n-Hexane	3.296	56	40408	9.0657103	ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.261	96	42365	10.0900947	ppb	99
23) METHYL TERT-BUTYL ETHER	3.316	73	134197	9.9780935	ppb	96
24) 1,1-DICHLOROETHANE	3.628	63	89298	10.2004023	ppb	100
25) VINYL ACETATE	3.743	43	491433	48.0314720	ppb	100
26) DI-ISOPROPYL ETHER	3.522	45	187587	10.1047184	ppb	100
27) 2,2-Dichloropropane	4.004	77	61667	10.1212082	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.936	96	48968	10.3020840	ppb	94
29) 2-BUTANONE (MEK)	4.251	43	107889	41.9858004	ppb	100
30) BROMOCHLOROMETHANE	4.052	130	26427	9.8167543	ppb	94
31) TETRAHYDROFURAN	4.187	42	15412	8.0136622	ppb	99
32) CHLOROFORM	4.075	83	87170	10.3082707	ppb	98
34) 1,1,1-TRICHLOROETHANE	4.219	97	66336	10.1799320	ppb	98
35) CARBON TETRACHLORIDE	4.177	117	61274	9.1507646	ppb	100
36) 1,1-Dichloropropene	4.280	75	57638	10.0298800	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 08.D
Acq On : 20 Oct 2015 4:05 am
Operator : 591
Sample : STD VMS 10 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 09:47:27 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.329	57	204467	9.3884174 ppb		92
38)	HEPTANE	4.364	43	84793	9.8415241 ppb	#	98
39)	BENZENE	4.431	78	174515	9.9806342 ppb		98
40)	1,2-DICHLOROETHANE	4.544	62	72836	10.0033782 ppb		97
42)	TRICHLOROETHENE	4.756	130	41039	10.2258686 ppb		98
43)	1,2-DICHLOROPROPANE	5.075	62	34751	10.1339924 ppb		98
44)	DIBROMOMETHANE	5.017	93	28271	9.6173934 ppb		99
45)	BROMODICHLOROMETHANE	5.091	83	69001	10.3532337 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.412	63	122421	47.8285933 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.476	75	76971	10.1925466 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.849	43	252028	46.3174124 ppb		100
51)	TOLUENE	5.631	91	171275	9.8839459 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.878	75	69852	9.7335545 ppb		99
54)	1,1,2-TRICHLOROETHANE	5.991	97	34259	9.7688698 ppb		98
55)	TETRACHLOROETHENE	5.882	164	28359	9.7150834 ppb		100
56)	1,3-Dichloropropane	6.181	76	64724	9.7208148 ppb		99
57)	2-HEXANONE	6.393	58	88296	43.4775907 ppb		99
58)	CHLORODIBROMOMETHANE	6.116	129	43161	9.7785379 ppb		100
59)	1,2-DIBROMOETHANE	6.296	107	35622	9.4897582 ppb		100
60)	CHLOROBENZENE	6.637	112	104503	9.5499386 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.669	133	40170	9.4282054 ppb	#	100
62)	ETHYLBENZENE	6.634	106	56833	9.4788569 ppb		99
63)	M&P-XYLENE	6.730	106	142514	19.4889218 ppb		98
64)	O-XYLENE	7.042	106	70311	9.5578992 ppb		99
65)	STYRENE	7.074	104	121208	9.8212850 ppb		99
66)	Bromoform	7.113	173	26931	9.8226795 ppb		98
67)	Isopropylbenzene	7.258	105	188519	9.8330282 ppb		99
69)	Bromobenzene	7.573	77	98209	9.6719043 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.605	83	50547	9.3825050 ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.730	110	14752	8.5614216 ppb		98
72)	TRANS-1,4-DICHLORO-2-B...	7.743	53	17562	8.9215249 ppb		96
73)	n-Propylbenzene	7.563	91	239522	9.7811288 ppb		100
74)	4-ETHYLTOLUENE	7.640	105	193134	9.7511625 ppb		99
75)	2-Chlorotoluene	7.698	126	44033	9.7561922 ppb		99
76)	4-Chlorotoluene	7.820	91	152741	9.8701334 ppb		100
77)	1,3,5-Trimethylbenzene	7.698	105	168227	9.8487513 ppb		98
78)	tert-Butylbenzene	7.949	119	135089	9.8020589 ppb		100
79)	1,2,4-Trimethylbenzene	8.000	105	172431	9.9867562 ppb		100
80)	sec-Butylbenzene	8.084	105	216809	10.0185514 ppb		99
81)	1,3-DICHLOROBENZENE	8.277	146	90020	9.8127047 ppb		99
82)	p-Isopropyltoluene	8.187	119	179261	9.8067547 ppb		100
83)	DICYCLOPENTADIENE	8.193	66	238057	9.9932213 ppb		100
85)	1,4-DICHLOROBENZENE	8.341	146	92495	9.8034398 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.345	105	184032	10.0498766 ppb		98
87)	1,2-DICHLOROBENZENE	8.679	146	85920	10.1922068 ppb		99
88)	n-Butylbenzene	8.518	91	187622	10.0104653 ppb		100
89)	1,2-Dibromo-3-chloropr...	9.319	157	9714	9.7347457 ppb		98
90)	1,2,4-Trichlorobenzene	9.872	180	58605	10.1607011 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.833	225	30752	10.5379609 ppb		99
92)	Naphthalene	10.152	128	145393	9.5552029 ppb		100
93)	1,2,3-Trichlorobenzene	10.303	180	54725	10.1369626 ppb		98
94)	1-Methylnaphthalene	11.026	142	88326	9.7407054 ppb		100
95)	2-Methylnaphthalene	11.161	142	73597	9.8504273 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 08.D
Acq On : 20 Oct 2015 4:05 am
Operator : 591
Sample : STD VMS 10 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 09:47:27 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

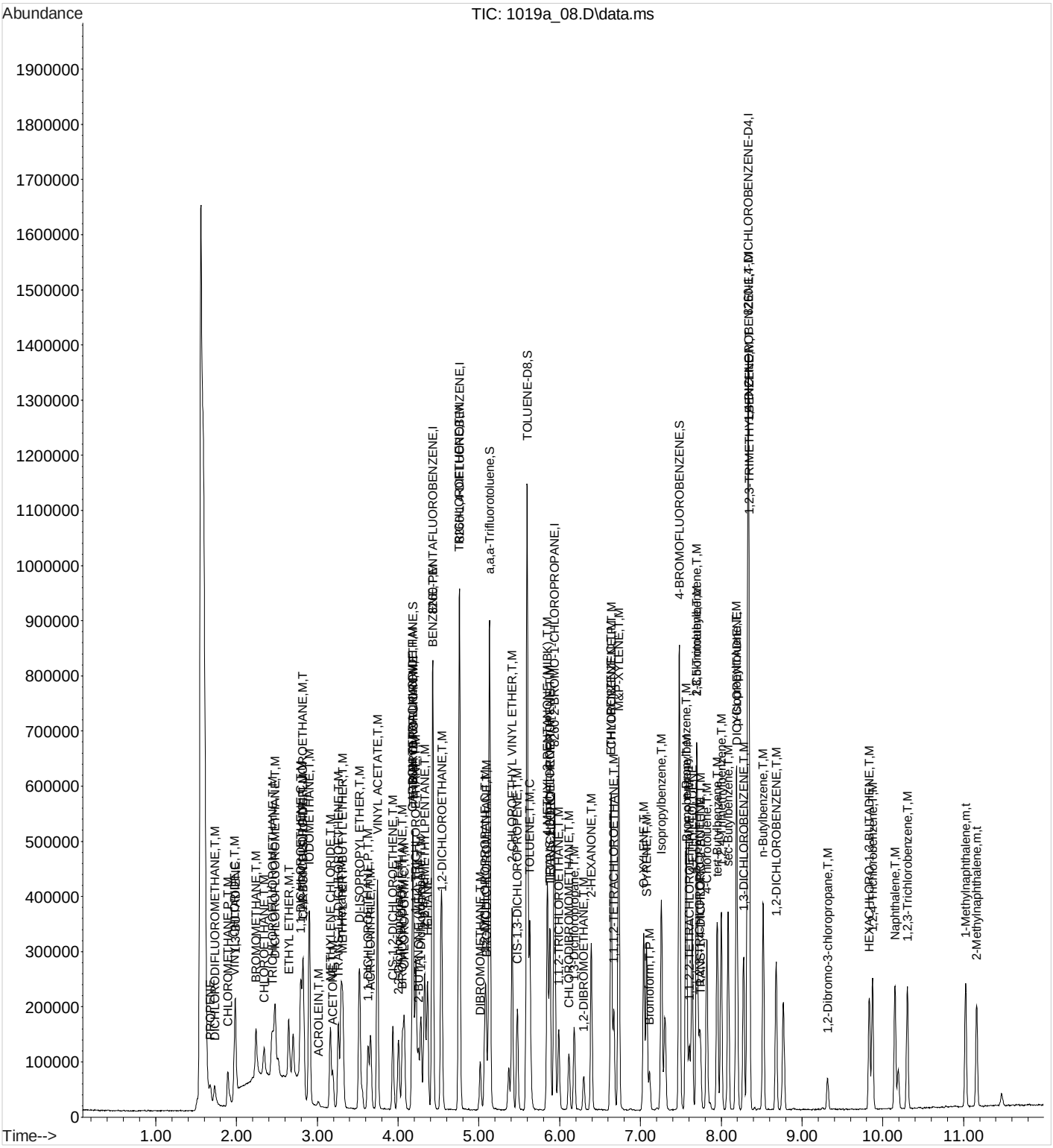
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 08.D
Acq On : 20 Oct 2015 4:05 am
Operator : 591
Sample : STD VMS 10 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 09:47:27 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 09.D
Acq On : 20 Oct 2015 4:26 am
Operator : 591
Sample : MSTD VMS 25 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 20 09:37:41 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.425	168	267265	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	466891	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	87217	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.332	152	237369	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.43
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.76
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.94
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.33
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.184	111	186004	44.9784828 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 112.45%		
46) a,a,a-Trifluorotoluene	5.132	146	272310	45.2064462 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 113.02%		
50) TOLUENE-D8	5.595	98	632109	44.9563718 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 112.39%		
68) 4-BROMOFLUOROBENZENE	7.483	95	270295	44.8144217 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 112.04%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.934	TIC	2437275m	Below Cal	
3) PROPENE	1.679	41	27689	16.2971939 ppb	100
4) DICHLORODIFLUOROMETHANE	1.731	85	113537	25.4288655 ppb	100
5) CHLOROMETHANE	1.895	50	150557	21.7792289 ppb	100
6) VINYL CHLORIDE	1.978	62	158970	24.4937158 ppb	100
7) 1,3-BUTADIENE	1.988	39	145515	20.9015620 ppb	100
8) BROMOMETHANE	2.242	94	98362	24.1673844 ppb	100
9) CHLOROETHANE	2.345	64	102058	23.8126269 ppb	100
10) TRICHLOROFLUOROMETHANE	2.441	101	202450	23.7942875 ppb	100
11) DICHLOROFLUOROMETHANE	2.480	67	263737	25.1795157 ppb	100
12) ETHYL ETHER	2.644	59	123470	23.5787935 ppb	100
13) ACROLEIN	3.013	56	11646	87.0504954 ppb	100
14) 1,1-DICHLOROETHENE	2.792	61	211938	23.9174172 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.821	101	99679	23.6099517 ppb	100
16) ACETONE	3.190	43	166421	86.6004058 ppb	100
17) IODOMETHANE	2.901	142	800029	123.8081690 ppb	100
18) CARBON DISULFIDE	2.827	76	346040	23.5491472 ppb	100
19) METHYLENE CHLORIDE	3.161	84	116174	20.0157753 ppb	100
20) ACRYLONITRILE	3.660	53	199746	112.8713147 ppb	100
21) n-Hexane	3.293	56	104173	22.4649215 ppb	100
22) TRANS-1,2-DICHLOROETHENE	3.261	96	106337	24.3437616 ppb	100
23) METHYL TERT-BUTYL ETHER	3.316	73	337045	24.0883972 ppb	100
24) 1,1-DICHLOROETHANE	3.628	63	226440	24.8624525 ppb	100
25) VINYL ACETATE	3.743	43	1233465	115.8787134 ppb	100
26) DI-ISOPROPYL ETHER	3.522	45	476865	24.6906304 ppb	100
27) 2,2-Dichloropropane	4.004	77	151031	23.8265349 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.933	96	117888	23.8395237 ppb	100
29) 2-BUTANONE (MEK)	4.251	43	267328	99.9965396 ppb	100
30) BROMOCHLOROMETHANE	4.052	130	68780	24.5582536 ppb	100
31) TETRAHYDROFURAN	4.184	42	38412	19.1979211 ppb	100
32) CHLOROFORM	4.075	83	216160	24.5702375 ppb	100
34) 1,1,1-TRICHLOROETHANE	4.219	97	172706	25.4752394 ppb	100
35) CARBON TETRACHLORIDE	4.177	117	157955	22.6740856 ppb	100
36) 1,1-Dichloropropene	4.280	75	149399	24.9890519 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 09.D
Acq On : 20 Oct 2015 4:26 am
Operator : 591
Sample : MSTD VMS 25 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 20 09:37:41 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.329	57	570979	25.2002328 ppb		100
38) HEPTANE	4.364	43	223050	24.8839799 ppb	#	100
39) BENZENE	4.428	78	438031	24.0793899 ppb		100
40) 1,2-DICHLOROETHANE	4.544	62	186350	24.6005747 ppb		100
42) TRICHLOROETHENE	4.756	130	105534	24.8542961 ppb		100
43) 1,2-DICHLOROPROPANE	5.074	62	89423	24.6472310 ppb		100
44) DIBROMOMETHANE	5.017	93	71595	23.0199584 ppb		100
45) BROMODICHLOROMETHANE	5.091	83	174727	24.7791431 ppb		100
47) 2-CHLOROETHYL VINYL ETHER	5.412	63	326033	120.3923458 ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.476	75	197265	24.6894403 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.846	43	645903	112.1936891 ppb		100
51) TOLUENE	5.631	91	441517	24.0818278 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.878	75	185159	24.3861408 ppb		100
54) 1,1,2-TRICHLOROETHANE	5.991	97	87645	23.9988719 ppb		100
55) TETRACHLOROETHENE	5.882	164	74614	24.5453929 ppb		100
56) 1,3-Dichloropropane	6.181	76	168301	24.2726984 ppb		100
57) 2-HEXANONE	6.390	58	220070	104.0589228 ppb		100
58) CHLORODIBROMOMETHANE	6.116	129	112589	24.4947171 ppb		100
59) 1,2-DIBROMOETHANE	6.296	107	92037	23.5447100 ppb		100
60) CHLOROBENZENE	6.637	112	276360	24.2516364 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.669	133	104533	23.5599662 ppb		100
62) ETHYLBENZENE	6.634	106	150493	24.1027019 ppb		100
63) M&P-XYLENE	6.730	106	370700	48.6795899 ppb		100
64) O-XYLENE	7.042	106	184526	24.0874475 ppb		100
65) STYRENE	7.074	104	317547	24.7080850 ppb		100
66) Bromoform	7.113	173	70470	24.6817420 ppb		100
67) Isopropylbenzene	7.258	105	501232	25.1052753 ppb		100
69) Bromobenzene	7.573	77	255182	24.1326371 ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.605	83	130463	23.2543830 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.727	110	37422	20.8552797 ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.743	53	46919	22.8880033 ppb		100
73) n-Propylbenzene	7.563	91	629638	24.6904236 ppb		100
74) 4-ETHYLTOLUENE	7.640	105	512531	24.8491674 ppb		100
75) 2-Chlorotoluene	7.698	126	116878	24.8673144 ppb		100
76) 4-Chlorotoluene	7.820	91	396722	24.6177138 ppb		100
77) 1,3,5-Trimethylbenzene	7.698	105	441777	24.8360552 ppb		100
78) tert-Butylbenzene	7.949	119	357051	24.8783526 ppb		100
79) 1,2,4-Trimethylbenzene	8.000	105	445209	24.7609373 ppb		100
80) sec-Butylbenzene	8.084	105	572533	25.4051749 ppb		100
81) 1,3-DICHLOROBENZENE	8.277	146	234900	24.5882026 ppb		100
82) p-Isopropyltoluene	8.187	119	472794	24.8373637 ppb		100
83) DICYCLOPENTADIENE	8.193	66	624949	25.1920301 ppb		100
85) 1,4-DICHLOROBENZENE	8.341	146	236091	23.4236113 ppb		100
86) 1,2,3-TRIMETHYLBENZENE	8.344	105	472360	24.1465277 ppb		100
87) 1,2-DICHLOROBENZENE	8.679	146	217985	24.2055392 ppb		100
88) n-Butylbenzene	8.518	91	489800	24.4626486 ppb		100
89) 1,2-Dibromo-3-chloropr...	9.319	157	24285	22.7813162 ppb		100
90) 1,2,4-Trichlorobenzene	9.872	180	144821	23.5036189 ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.833	225	77910	24.9914016 ppb		100
92) Naphthalene	10.151	128	353222	21.7299313 ppb		100
93) 1,2,3-Trichlorobenzene	10.303	180	133191	23.0946372 ppb		100
94) 1-Methylnaphthalene	11.026	142	211276	21.8105292 ppb		100
95) 2-Methylnaphthalene	11.161	142	176005	22.0512979 ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 09.D
Acq On : 20 Oct 2015 4:26 am
Operator : 591
Sample : MSTD VMS 25 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 20 09:37:41 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

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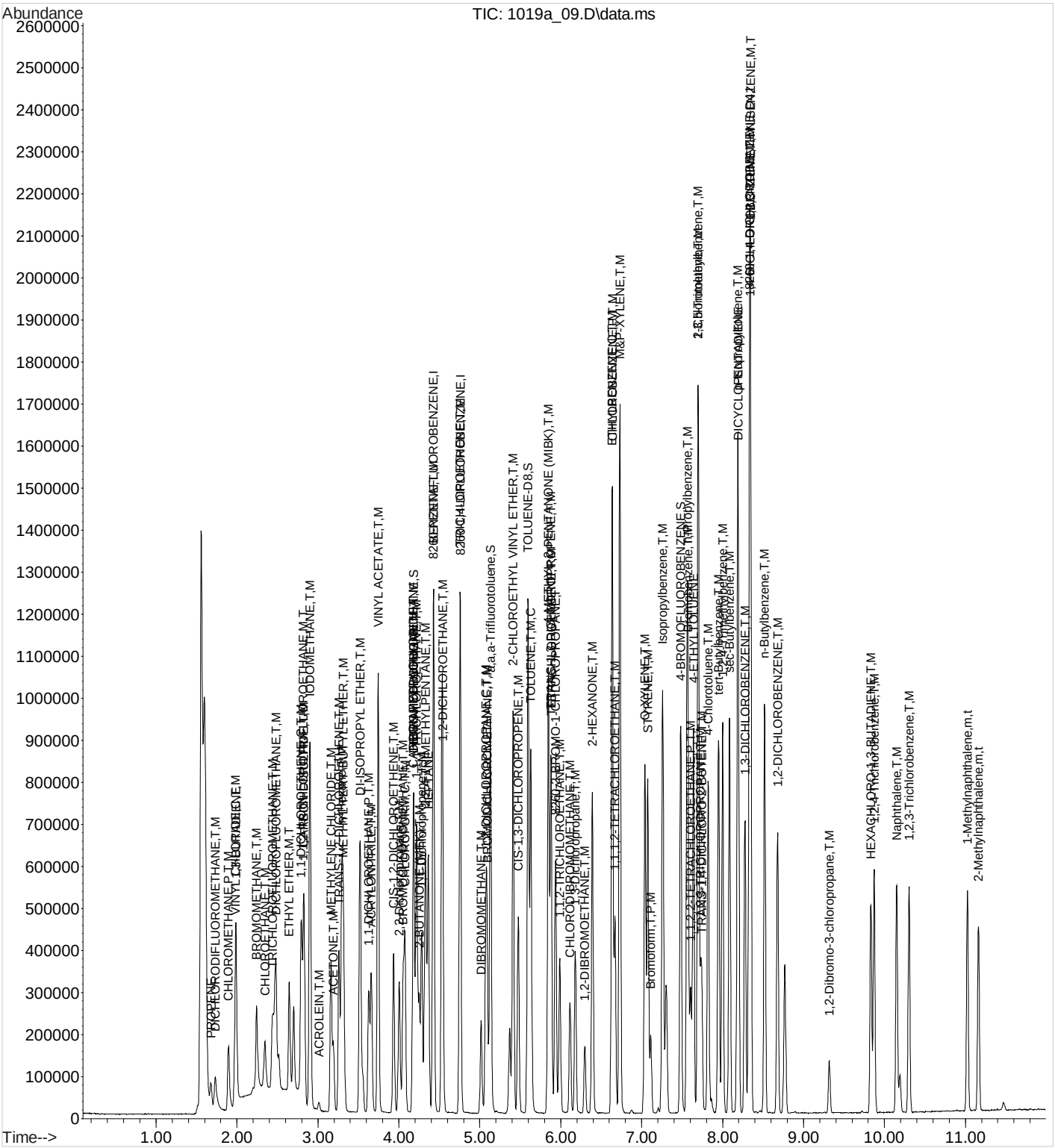
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 10.D
Acq On : 20 Oct 2015 4:47 am
Operator : 591
Sample : STD VMS 40 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 20 09:48:47 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.428	168	265731	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	459312	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	85784	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.332	152	234316	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.43
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.76
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.94
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.33
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.184	111	191395	46.5492806 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 116.37%		
46) a,a,a-Trifluorotoluene	5.132	146	272418	45.9706122 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 114.93%		
50) TOLUENE-D8	5.599	98	637857	46.1137368 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 115.28%#		
68) 4-BROMOFLUOROBENZENE	7.483	95	273293	46.0684016 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 115.17%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.934	TIC	9065416m	Below Cal	
3) PROPENE	1.679	41	44904	26.5821716 ppb	95
4) DICHLORODIFLUOROMETHANE	1.734	85	180822	40.7324662 ppb	97
5) CHLOROMETHANE	1.895	50	242842	35.3317553 ppb	99
6) VINYL CHLORIDE	1.978	62	254354	39.4164892 ppb	99
7) 1,3-BUTADIENE	1.988	39	227857	32.9179834 ppb	99
8) BROMOMETHANE	2.242	94	159502	39.4156143 ppb	100
9) CHLOROETHANE	2.345	64	163471	38.3619646 ppb	100
10) TRICHLOROFLUOROMETHANE	2.444	101	320398	37.8742976 ppb	100
11) DICHLOROFLUOROMETHANE	2.480	67	417675	40.1064903 ppb	99
12) ETHYL ETHER	2.647	59	196905	37.8195836 ppb	99
13) ACROLEIN	3.013	56	16974	127.6081834 ppb	99
14) 1,1-DICHLOROETHENE	2.795	61	333648	37.8698723 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.817	101	158800	37.8304747 ppb	99
16) ACETONE	3.194	43	299084	156.5326175 ppb	99
17) IODOMETHANE	2.901	142	1293965	201.4030149 ppb	100
18) CARBON DISULFIDE	2.830	76	548639	37.5522033 ppb	99
19) METHYLENE CHLORIDE	3.161	84	183906	31.8683252 ppb	100
20) ACRYLONITRILE	3.660	53	333149	189.3406542 ppb	100
21) n-Hexane	3.296	56	160885	34.8951570 ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.261	96	165523	38.1119788 ppb	98
23) METHYL TERT-BUTYL ETHER	3.316	73	547181	39.3324401 ppb	96
24) 1,1-DICHLOROETHANE	3.628	63	354511	39.1489756 ppb	100
25) VINYL ACETATE	3.743	43	2086067	197.1083188 ppb	100
26) DI-ISOPROPYL ETHER	3.521	45	755646	39.3509285 ppb	98
27) 2,2-Dichloropropane	4.007	77	239898	38.0646012 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.936	96	191825	39.0151291 ppb	97
29) 2-BUTANONE (MEK)	4.251	43	450954	169.6573318 ppb	98
30) BROMOCHLOROMETHANE	4.052	130	109380	39.2801461 ppb	99
31) TETRAHYDROFURAN	4.187	42	64727	32.5366345 ppb	99
32) CHLOROFORM	4.075	83	342467	39.1518798 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.219	97	270514	40.1328924 ppb	100
35) CARBON TETRACHLORIDE	4.181	117	243767	35.1942070 ppb	99
36) 1,1-Dichloropropene	4.284	75	231648	38.9700093 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 10.D
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Sample : STD VMS 40 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 20 09:48:47 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.329	57	865422	38.4160065 ppb		98
38)	HEPTANE	4.364	43	342792	38.4634432 ppb	#	99
39)	BENZENE	4.431	78	691903	38.2547803 ppb		100
40)	1,2-DICHLOROETHANE	4.544	62	296881	39.4183215 ppb		99
42)	TRICHLOROETHENE	4.756	130	163749	39.2008457 ppb		99
43)	1,2-DICHLOROPROPANE	5.078	62	141699	39.7002641 ppb		99
44)	DIBROMOMETHANE	5.017	93	115915	37.8851657 ppb		98
45)	BROMODICHLOROMETHANE	5.091	83	274290	39.5406631 ppb		100
47)	2-CHLOROETHYL VINYL ETHER	5.412	63	525241	197.1531164 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.476	75	314074	39.9577389 ppb		100
49)	4-METHYL-2-PENTANONE (...	5.846	43	1088662	192.2214731 ppb		99
51)	TOLUENE	5.631	91	695821	38.5786706 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.878	75	297314	39.8035053 ppb		99
54)	1,1,2-TRICHLOROETHANE	5.991	97	139506	38.8375138 ppb		99
55)	TETRACHLOROETHENE	5.882	164	116493	38.9622784 ppb		100
56)	1,3-Dichloropropane	6.181	76	268985	39.4415775 ppb		99
57)	2-HEXANONE	6.390	58	354278	170.3168114 ppb		99
58)	CHLORODIBROMOMETHANE	6.116	129	176271	38.9899058 ppb		99
59)	1,2-DIBROMOETHANE	6.300	107	147652	38.4029933 ppb		100
60)	CHLOROBENZENE	6.637	112	436995	38.9885589 ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.669	133	164924	37.7920072 ppb		100
62)	ETHYLBENZENE	6.634	106	235728	38.3844615 ppb		100
63)	M&P-XYLENE	6.730	106	586194	78.2637305 ppb		100
64)	O-XYLENE	7.042	106	290339	38.5330549 ppb		99
65)	STYRENE	7.074	104	499645	39.5264190 ppb		99
66)	Bromoform	7.113	173	114610	40.8120961 ppb		99
67)	Isopropylbenzene	7.258	105	788456	40.1511983 ppb		99
69)	Bromobenzene	7.573	77	404189	38.8627999 ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	7.605	83	213191	38.6350233 ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.727	110	62031	35.1473559 ppb		97
72)	TRANS-1,4-DICHLORO-2-B...	7.743	53	72676	36.0449998 ppb		97
73)	n-Propylbenzene	7.563	91	980536	39.0927304 ppb		100
74)	4-ETHYLTOLUENE	7.640	105	795616	39.2184172 ppb		100
75)	2-Chlorotoluene	7.698	126	184860	39.9883895 ppb		99
76)	4-Chlorotoluene	7.820	91	621053	39.1818510 ppb		99
77)	1,3,5-Trimethylbenzene	7.698	105	697299	39.8559723 ppb		100
78)	tert-Butylbenzene	7.949	119	555597	39.3591861 ppb		100
79)	1,2,4-Trimethylbenzene	8.000	105	705358	39.8848160 ppb		99
80)	sec-Butylbenzene	8.087	105	884759	39.9154937 ppb		99
81)	1,3-DICHLOROBENZENE	8.277	146	368286	39.1943825 ppb		99
82)	p-Isopropyltoluene	8.187	119	733687	39.1867472 ppb		100
83)	DICYCLOPENTADIENE	8.193	66	985869	40.4047712 ppb		99
85)	1,4-DICHLOROBENZENE	8.341	146	375689	37.7593888 ppb	#	68
86)	1,2,3-TRIMETHYLBENZENE	8.344	105	753550	39.0225551 ppb		100
87)	1,2-DICHLOROBENZENE	8.679	146	350185	39.3919741 ppb		100
88)	n-Butylbenzene	8.518	91	753915	38.1442548 ppb		100
89)	1,2-Dibromo-3-chloropr...	9.319	157	39761	37.7850550 ppb		97
90)	1,2,4-Trichlorobenzene	9.872	180	231453	38.0529267 ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	9.833	225	121882	39.6058225 ppb		100
92)	Naphthalene	10.151	128	592146	36.9029821 ppb		100
93)	1,2,3-Trichlorobenzene	10.303	180	217026	38.1215092 ppb		98
94)	1-Methylnaphthalene	11.026	142	353843	37.0040024 ppb		99
95)	2-Methylnaphthalene	11.161	142	294408	37.3663616 ppb		99

Quantitation Report (QT Reviewed)

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Acq On : 20 Oct 2015 4:47 am
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Misc : water IS/SURR 15H19728
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 20 09:48:47 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
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QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

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Quant Time: Oct 20 09:48:47 2015
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QLast Update : Tue Oct 20 09:37:17 2015
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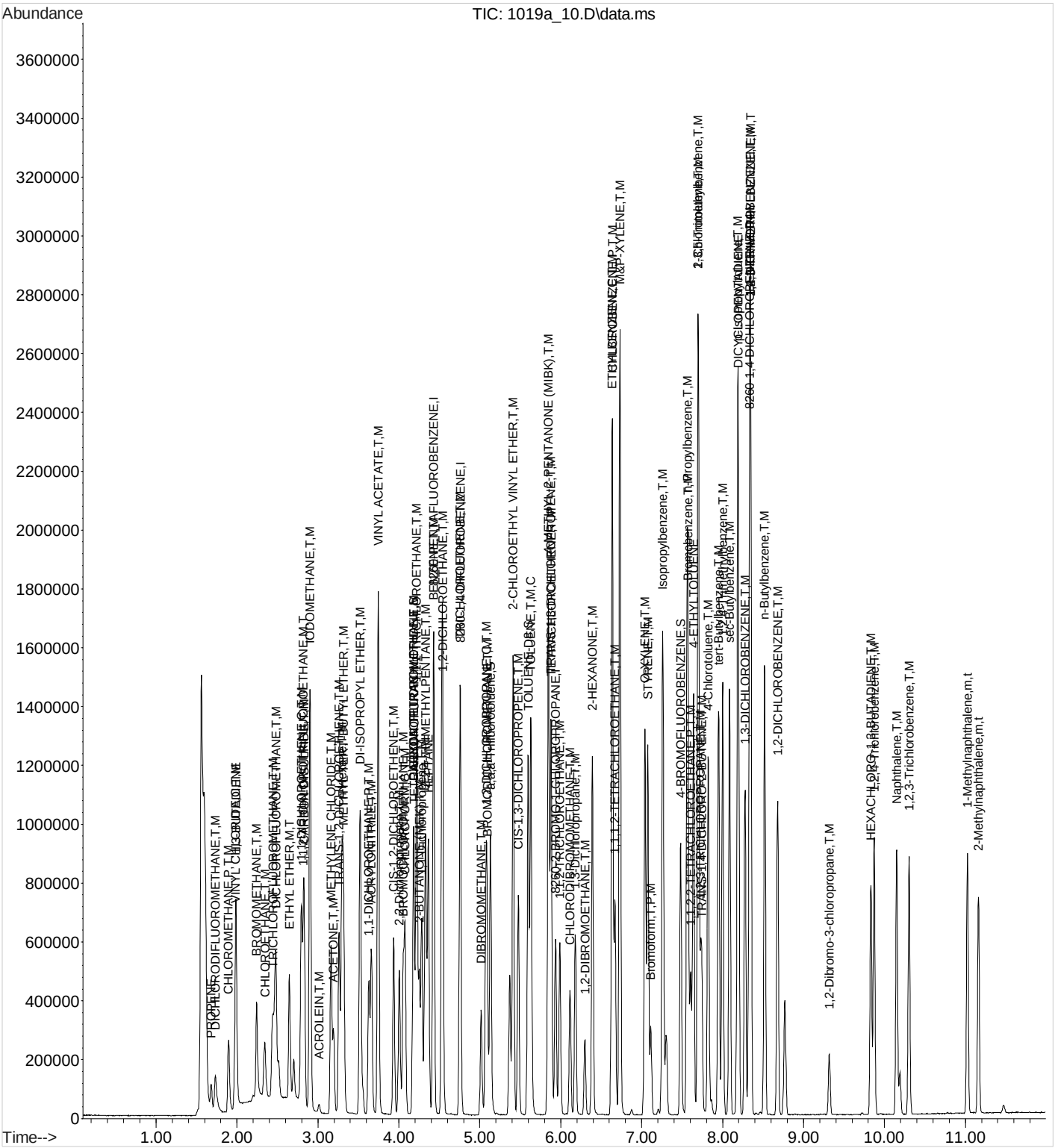

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 11.D
Acq On : 20 Oct 2015 5:08 am
Operator : 591
Sample : STD VMS 75 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 20 09:50:01 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.428	168	277945	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.760	114	486992	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	90573	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.332	152	242975	40.0000000 ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.43
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.76
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.94
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.33
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.184	111	197628	45.9530368 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 114.88%		
46) a,a,a-Trifluorotoluene	5.133	146	280019	44.5674671 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 111.42%		
50) TOLUENE-D8	5.596	98	670041	45.6871780 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 114.22%		
68) 4-BROMOFLUOROBENZENE	7.480	95	291970	46.6144330 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 116.54%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.934	TIC	28251575m	Below Cal	
3) PROPENE	1.683	41	78840	44.6205993 ppb	98
4) DICHLORODIFLUOROMETHANE	1.731	85	331090	71.3048149 ppb	96
5) CHLOROMETHANE	1.898	50	455726	63.3911420 ppb	100
6) VINYL CHLORIDE	1.982	62	472709	70.0352357 ppb	100
7) 1,3-BUTADIENE	1.988	39	426842	58.9550957 ppb	99
8) BROMOMETHANE	2.242	94	300384	70.9679595 ppb	100
9) CHLOROETHANE	2.342	64	309171	69.3652935 ppb	99
10) TRICHLOROFLUOROMETHANE	2.441	101	606528	68.5470866 ppb	100
11) DICHLOROFLUOROMETHANE	2.480	67	785989	72.1565901 ppb	99
12) ETHYL ETHER	2.647	59	382473	70.2334717 ppb	99
13) ACROLEIN	3.014	56	31564	226.8661595 ppb	100
14) 1,1-DICHLOROETHENE	2.792	61	645250	70.0191258 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.817	101	314665	71.6676375 ppb	99
16) ACETONE	3.194	43	583823	292.1300434 ppb	98
17) IODOMETHANE	2.901	142	2492721	370.9372659 ppb	100
18) CARBON DISULFIDE	2.827	76	1073511	70.2487502 ppb	98
19) METHYLENE CHLORIDE	3.162	84	349694	57.9341819 ppb	99
20) ACRYLONITRILE	3.660	53	671956	365.1148959 ppb	99
21) n-Hexane	3.293	56	316954	65.7247881 ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.261	96	320019	70.4469621 ppb	100
23) METHYL TERT-BUTYL ETHER	3.316	73	1068825	73.4530512 ppb	97
24) 1,1-DICHLOROETHANE	3.628	63	678025	71.5846245 ppb	100
25) VINYL ACETATE	3.744	43	3908740	353.0992865 ppb	100
26) DI-ISOPROPYL ETHER	3.522	45	1459260	72.6528459 ppb	98
27) 2,2-Dichloropropane	4.004	77	434729	65.9472401 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.936	96	366139	71.1962613 ppb	97
29) 2-BUTANONE (MEK)	4.252	43	900500	323.8974004 ppb	97
30) BROMOCHLOROMETHANE	4.052	130	210409	72.2408495 ppb	99
31) TETRAHYDROFURAN	4.184	42	134118	64.4551427 ppb	97
32) CHLOROFORM	4.075	83	653584	71.4362515 ppb	100
34) 1,1,1-TRICHLOROETHANE	4.219	97	516348	73.2380159 ppb	99
35) CARBON TETRACHLORIDE	4.178	117	472954	65.2827635 ppb	99
36) 1,1-Dichloropropene	4.280	75	447679	72.0032391 ppb	99

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Operator : 591
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Misc : water IS/SURR 15H19728
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 20 09:50:01 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.329	57	1696618	72.0031856 ppb		98
38)	HEPTANE	4.364	43	691842	74.2177459 ppb	#	99
39)	BENZENE	4.428	78	1334813	70.5576783 ppb		99
40)	1,2-DICHLOROETHANE	4.544	62	585745	74.3545704 ppb		99
42)	TRICHLOROETHENE	4.756	130	320437	72.3511439 ppb		99
43)	1,2-DICHLOROPROPANE	5.075	62	275818	72.8845002 ppb		98
44)	DIBROMOMETHANE	5.017	93	227611	70.1630990 ppb		99
45)	BROMODICHLOROMETHANE	5.091	83	539403	73.3387149 ppb		100
47)	2-CHLOROETHYL VINYL ETHER	5.412	63	1103627	390.7089040 ppb		100
48)	CIS-1,3-DICHLOROPROPENE	5.477	75	625633	75.0714030 ppb		100
49)	4-METHYL-2-PENTANONE (...	5.846	43	2223337	370.2542885 ppb		100
51)	TOLUENE	5.631	91	1377044	72.0084577 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.878	75	610610	77.1002591 ppb		99
54)	1,1,2-TRICHLOROETHANE	5.991	97	282774	74.5599400 ppb		100
55)	TETRACHLOROETHENE	5.882	164	233906	74.0957705 ppb		99
56)	1,3-Dichloropropane	6.181	76	539972	74.9902833 ppb		99
57)	2-HEXANONE	6.390	58	732440	333.4977649 ppb		98
58)	CHLORODIBROMOMETHANE	6.116	129	356634	74.7139336 ppb		100
59)	1,2-DIBROMOETHANE	6.296	107	298943	73.6413380 ppb		99
60)	CHLOROBENZENE	6.637	112	878562	74.2404628 ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.669	133	323387	70.1853059 ppb		100
62)	ETHYLBENZENE	6.634	106	472006	72.7946295 ppb		100
63)	M&P-XYLENE	6.731	106	1169477	147.8830507 ppb		99
64)	O-XYLENE	7.042	106	573536	72.0935294 ppb		99
65)	STYRENE	7.075	104	993570	74.4443830 ppb		99
66)	Bromoform	7.113	173	235263	79.3464606 ppb		100
67)	Isopropylbenzene	7.258	105	1547737	74.6493025 ppb		100
69)	Bromobenzene	7.573	77	805104	73.3177487 ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	7.605	83	425536	73.0392255 ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.727	110	122598	65.7922595 ppb		100
72)	TRANS-1,4-DICHLORO-2-B...	7.743	53	153934	72.3096244 ppb		97
73)	n-Propylbenzene	7.563	91	1937752	73.1708661 ppb		100
74)	4-ETHYLTOLUENE	7.640	105	1575048	73.5339487 ppb		100
75)	2-Chlorotoluene	7.698	126	367663	75.3266116 ppb		98
76)	4-Chlorotoluene	7.821	91	1208250	72.1972455 ppb		99
77)	1,3,5-Trimethylbenzene	7.698	105	1368463	74.0823866 ppb		100
78)	tert-Butylbenzene	7.949	119	1080474	72.4950039 ppb		100
79)	1,2,4-Trimethylbenzene	8.001	105	1355801	72.6108442 ppb		99
80)	sec-Butylbenzene	8.084	105	1729310	73.8919128 ppb		99
81)	1,3-DICHLOROBENZENE	8.277	146	722865	72.8623802 ppb		100
82)	p-Isopropyltoluene	8.187	119	1435444	72.6143051 ppb		100
83)	DICYCLOPENTADIENE	8.193	66	1894273	73.5298280 ppb		100
85)	1,4-DICHLOROBENZENE	8.341	146	737187	71.4520180 ppb	#	44
86)	1,2,3-TRIMETHYLBENZENE	8.345	105	1463608	73.0918168 ppb		100
87)	1,2-DICHLOROBENZENE	8.679	146	679224	73.6823694 ppb		99
88)	n-Butylbenzene	8.518	91	1470588	71.7526793 ppb		100
89)	1,2-Dibromo-3-chloropr...	9.319	157	78906	72.3124610 ppb		99
90)	1,2,4-Trichlorobenzene	9.872	180	436893	69.2692828 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.833	225	226618	71.0156753 ppb		99
92)	Naphthalene	10.152	128	1141702	68.6160604 ppb		100
93)	1,2,3-Trichlorobenzene	10.303	180	405569	68.7010581 ppb		99
94)	1-Methylnaphthalene	11.026	142	653972	65.9534625 ppb		99
95)	2-Methylnaphthalene	11.161	142	541701	66.3026973 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 11.D
Acq On : 20 Oct 2015 5:08 am
Operator : 591
Sample : STD VMS 75 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 20 09:50:01 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

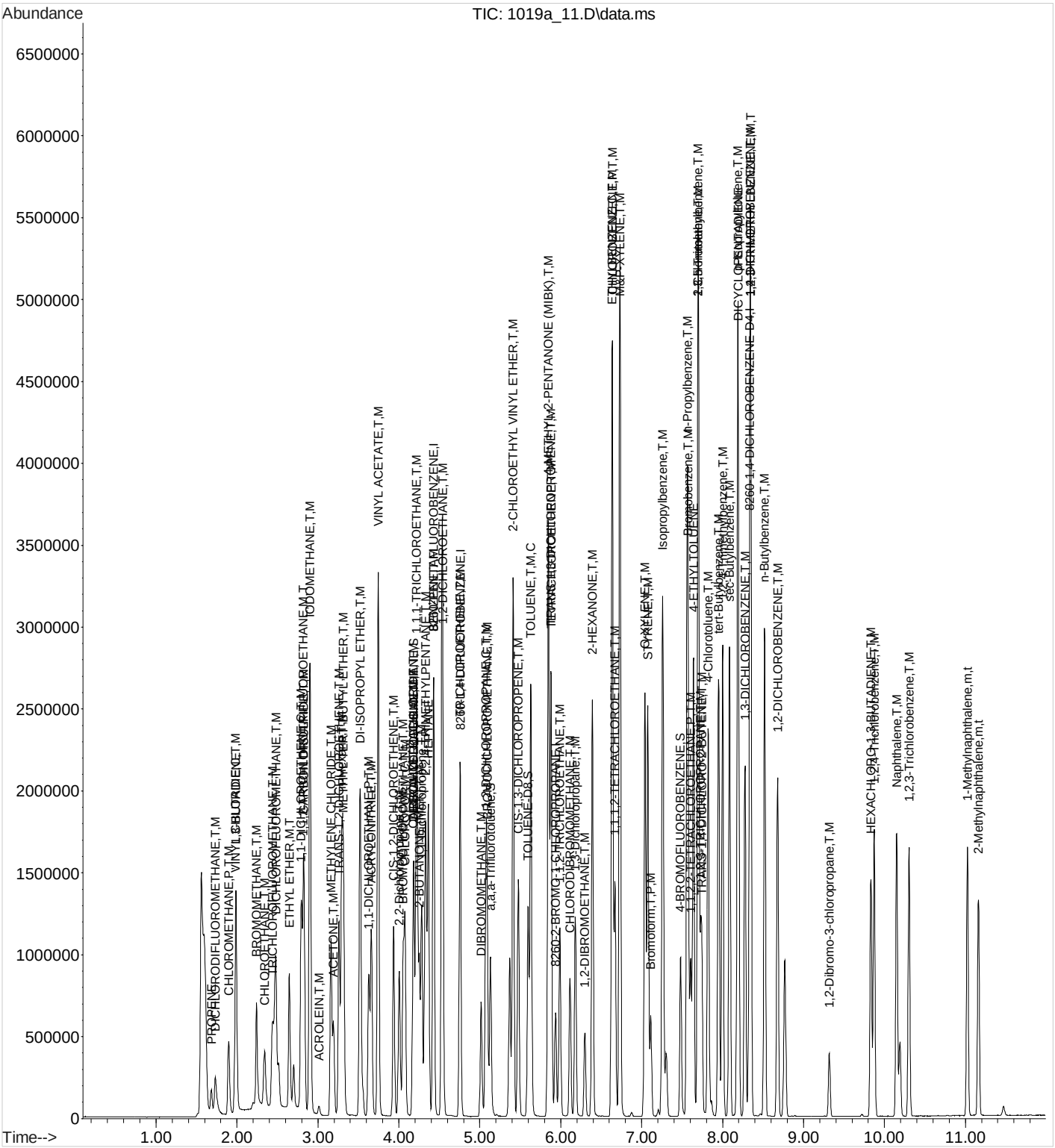
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 11.D
Acq On : 20 Oct 2015 5:08 am
Operator : 591
Sample : STD VMS 75 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 20 09:50:01 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 12.D
Acq On : 20 Oct 2015 5:29 am
Operator : 591
Sample : STD VMS 100 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 20 09:51:13 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.425	168	275377	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.760	114	486971	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	89257	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.332	152	244095	40.0000000 ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.43
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.76
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.94
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.33
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.184	111	199100	46.7270327 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 116.82%		
46) a,a,a-Trifluorotoluene	5.133	146	282810	45.0136202 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 112.53%		
50) TOLUENE-D8	5.596	98	673818	45.9466965 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 114.87%		
68) 4-BROMOFLUOROBENZENE	7.483	95	295133	47.8141473 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 119.54%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.934	TIC	40960076m	Below Cal	
3) PROPENE	1.679	41	104096	59.4639872 ppb	97
4) DICHLORODIFLUOROMETHANE	1.731	85	441409	95.9500440 ppb	98
5) CHLOROMETHANE	1.895	50	605337	84.9871354 ppb	100
6) VINYL CHLORIDE	1.978	62	625108	93.4779075 ppb	100
7) 1,3-BUTADIENE	1.985	39	556209	77.5395749 ppb	99
8) BROMOMETHANE	2.239	94	397115	94.6963011 ppb	100
9) CHLOROETHANE	2.338	64	411811	93.2551064 ppb	99
10) TRICHLOROFLUOROMETHANE	2.438	101	795631	90.7571907 ppb	100
11) DICHLOROFLUOROMETHANE	2.477	67	1036497	96.0414668 ppb	99
12) ETHYL ETHER	2.644	59	489942	90.8069787 ppb	99
13) ACROLEIN	3.014	56	39617	287.4024536 ppb	97
14) 1,1-DICHLOROETHENE	2.792	61	804843	88.1517714 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.818	101	387814	89.1516394 ppb	99
16) ACETONE	3.191	43	752200	379.8914801 ppb	97
17) IODOMETHANE	2.898	142	3366452	505.6271925 ppb	100
18) CARBON DISULFIDE	2.827	76	1371045	90.5555378 ppb	98
19) METHYLENE CHLORIDE	3.162	84	464481	77.6686672 ppb	99
20) ACRYLONITRILE	3.660	53	834879	457.8713337 ppb	100
21) n-Hexane	3.293	56	417906	87.4667049 ppb	100
22) TRANS-1,2-DICHLOROETHENE	3.258	96	426669	94.8001004 ppb	99
23) METHYL TERT-BUTYL ETHER	3.313	73	1372985	95.2357994 ppb	98
24) 1,1-DICHLOROETHANE	3.628	63	894361	95.3055294 ppb	99
25) VINYL ACETATE	3.744	43	5005147	456.3605506 ppb	99
26) DI-ISOPROPYL ETHER	3.522	45	1927016	96.8359182 ppb	98
27) 2,2-Dichloropropane	4.004	77	571491	87.5021269 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.933	96	478225	93.8587303 ppb	98
29) 2-BUTANONE (MEK)	4.252	43	1171801	425.4110936 ppb	99
30) BROMOCHLOROMETHANE	4.052	130	276340	95.7620615 ppb	99
31) TETRAHYDROFURAN	4.184	42	164839	79.9579551 ppb	97
32) CHLOROFORM	4.075	83	868117	95.7693871 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.219	97	679787	97.3191098 ppb	100
35) CARBON TETRACHLORIDE	4.178	117	623583	86.8770561 ppb	99
36) 1,1-Dichloropropene	4.281	75	594711	96.5433766 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 12.D
Acq On : 20 Oct 2015 5:29 am
Operator : 591
Sample : STD VMS 100 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 20 09:51:13 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.329	57	2248648	96.3208528 ppb		98
38)	HEPTANE	4.364	43	910831	98.6210999 ppb	#	99
39)	BENZENE	4.428	78	1768907	94.3756719 ppb		99
40)	1,2-DICHLOROETHANE	4.544	62	764145	97.9052669 ppb		99
42)	TRICHLOROETHENE	4.756	130	426626	96.3316041 ppb		99
43)	1,2-DICHLOROPROPANE	5.075	62	367714	97.1720731 ppb		99
44)	DIBROMOMETHANE	5.017	93	291712	89.9266757 ppb		100
45)	BROMODICHLOROMETHANE	5.091	83	712111	96.8247447 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.412	63	1420693	502.9791242 ppb		100
48)	CIS-1,3-DICHLOROPROPENE	5.477	75	818650	98.2362732 ppb		100
49)	4-METHYL-2-PENTANONE (...	5.846	43	2753959	458.6390196 ppb		100
51)	TOLUENE	5.631	91	1832715	95.8405625 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.879	75	796485	100.5745862 ppb		100
54)	1,1,2-TRICHLOROETHANE	5.991	97	364791	97.6037843 ppb		99
55)	TETRACHLOROETHENE	5.882	164	314003	100.9351239 ppb		99
56)	1,3-Dichloropropane	6.181	76	698756	98.4726831 ppb		99
57)	2-HEXANONE	6.390	58	906694	418.9267404 ppb		98
58)	CHLORODIBROMOMETHANE	6.116	129	461492	98.1068883 ppb		99
59)	1,2-DIBROMOETHANE	6.297	107	382376	95.5829379 ppb		99
60)	CHLOROBENZENE	6.637	112	1175362	100.7851087 ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.669	133	428677	94.4083244 ppb		100
62)	ETHYLBENZENE	6.634	106	637470	99.7626643 ppb		99
63)	M&P-XYLENE	6.731	106	1562297	200.4687960 ppb		99
64)	O-XYLENE	7.042	106	763257	97.3560326 ppb		100
65)	STYRENE	7.075	104	1331848	101.2615556 ppb		100
66)	Bromoform	7.113	173	301946	103.3379105 ppb		99
67)	Isopropylbenzene	7.258	105	2055673	100.6095225 ppb		100
69)	Bromobenzene	7.573	77	1073429	99.1943481 ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	7.605	83	540906	94.2102418 ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.727	110	153687	83.6922063 ppb		99
72)	TRANS-1,4-DICHLORO-2-B...	7.743	53	195293	93.0903569 ppb		96
73)	n-Propylbenzene	7.563	91	2604875	99.8121375 ppb		99
74)	4-ETHYLTOLUENE	7.641	105	2089963	99.0123023 ppb		100
75)	2-Chlorotoluene	7.698	126	496903	103.3062486 ppb		96
76)	4-Chlorotoluene	7.821	91	1623459	98.4377360 ppb		99
77)	1,3,5-Trimethylbenzene	7.698	105	1843045	101.2451695 ppb		100
78)	tert-Butylbenzene	7.949	119	1433623	97.6079482 ppb		100
79)	1,2,4-Trimethylbenzene	8.001	105	1815420	98.6595474 ppb		99
80)	sec-Butylbenzene	8.087	105	2280198	98.8673933 ppb		99
81)	1,3-DICHLOROBENZENE	8.277	146	965256	98.7290900 ppb		99
82)	p-Isopropyltoluene	8.187	119	1927993	98.9686967 ppb		99
83)	DICYCLOPENTADIENE	8.194	66	2506537	98.7305526 ppb		100
85)	1,4-DICHLOROBENZENE	8.341	146	999725	96.4539662 ppb	#	36
86)	1,2,3-TRIMETHYLBENZENE	8.345	105	1962641	97.5635415 ppb		99
87)	1,2-DICHLOROBENZENE	8.679	146	903305	97.5411073 ppb		99
88)	n-Butylbenzene	8.518	91	1959934	95.1899851 ppb		99
89)	1,2-Dibromo-3-chloropr...	9.319	157	97459	88.9053247 ppb		98
90)	1,2,4-Trichlorobenzene	9.872	180	580340	91.5905817 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.833	225	299759	93.5049834 ppb		99
92)	Naphthalene	10.152	128	1456618	87.1407708 ppb		100
93)	1,2,3-Trichlorobenzene	10.303	180	533575	89.9698205 ppb		99
94)	1-Methylnaphthalene	11.026	142	850836	85.4135968 ppb		99
95)	2-Methylnaphthalene	11.161	142	688736	83.9125754 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 12.D
Acq On : 20 Oct 2015 5:29 am
Operator : 591
Sample : STD VMS 100 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 20 09:51:13 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

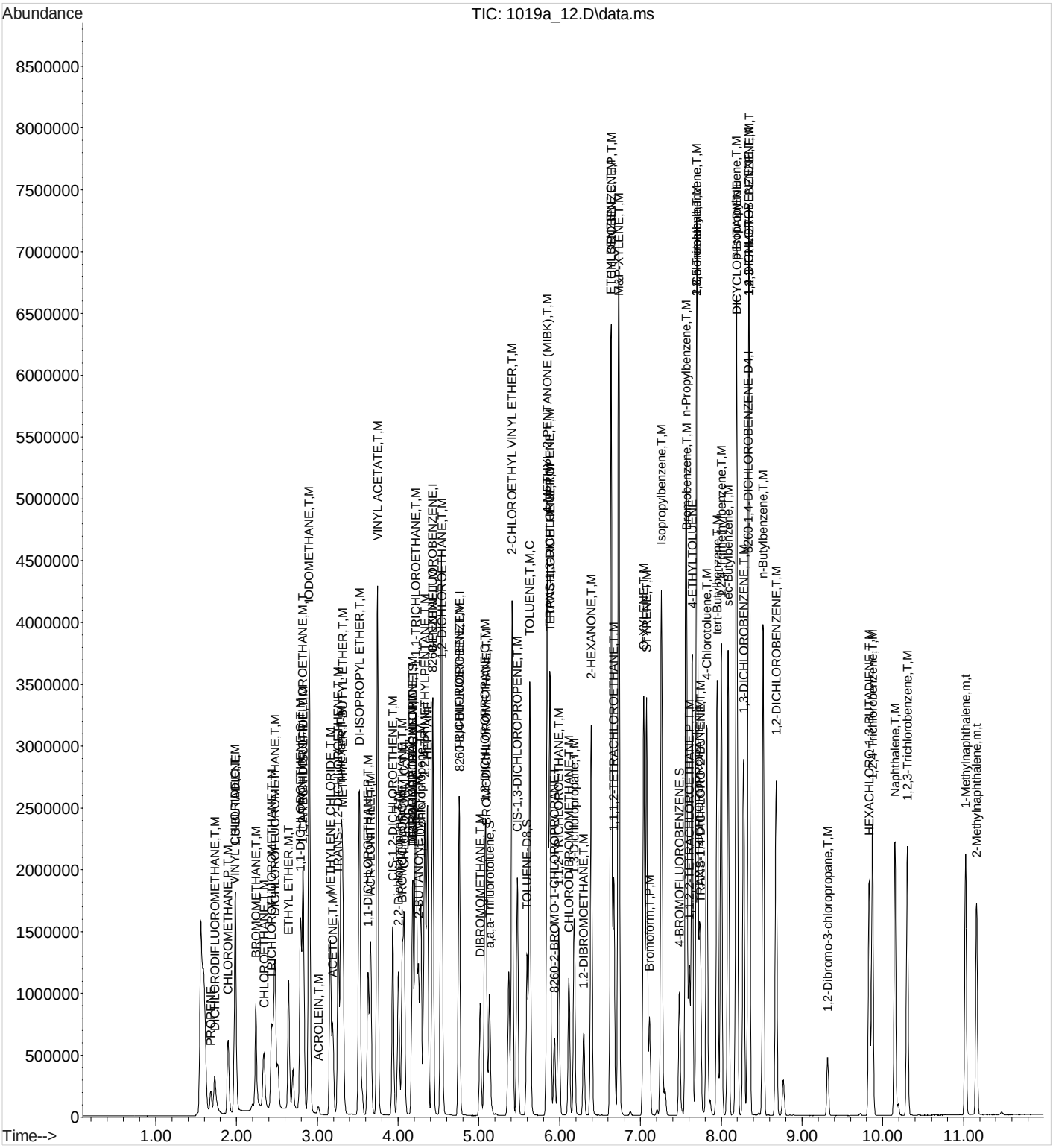
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 12.D
Acq On : 20 Oct 2015 5:29 am
Operator : 591
Sample : STD VMS 100 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 20 09:51:13 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 13.D
Acq On : 20 Oct 2015 5:50 am
Operator : 591
Sample : STD VMS 200 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 09:52:26 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.425	168	275601	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	496544	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	90784	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.332	152	252865	40.0000000 ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.43
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.76
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.94
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.33
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.181	111	209807	49.1998515 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 123.00%#		
46) a,a,a-Trifluorotoluene	5.132	146	285677	44.5933211 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 111.48%		
50) TOLUENE-D8	5.595	98	691866	46.2678195 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 115.67%#		
68) 4-BROMOFLUOROBENZENE	7.483	95	300870	47.9237177 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 119.81%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.934	TIC	97758037m	Below Cal	
3) PROPENE	1.682	41	210324	120.0482111 ppb	98
4) DICHLORODIFLUOROMETHANE	1.727	85	904042	196.3538753 ppb	96
5) CHLOROMETHANE	1.894	50	1228243	172.3007405 ppb	100
6) VINYL CHLORIDE	1.981	62	1266320	189.2100789 ppb	99
7) 1,3-BUTADIENE	1.985	39	1118852	155.8493236 ppb	98
8) BROMOMETHANE	2.235	94	841260	200.4443590 ppb	100
9) CHLOROETHANE	2.335	64	844104	190.9930273 ppb	99
10) TRICHLOROFLUOROMETHANE	2.435	101	1643024	187.2665159 ppb	100
11) DICHLOROFLUOROMETHANE	2.473	67	2129898	197.1952348 ppb	99
12) ETHYL ETHER	2.644	59	1009724	186.9924664 ppb	99
13) ACROLEIN	3.010	56	82701	599.4687138 ppb	97
14) 1,1-DICHLOROETHENE	2.788	61	1758824	192.4815605 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.814	101	901834	207.1473256 ppb	99
16) ACETONE	3.190	43	1516480	765.2613628 ppb	98
17) IODOMETHANE	2.898	142	7119538	1068.4561010 ppb	99
18) CARBON DISULFIDE	2.824	76	3109417	205.2055719 ppb	96
19) METHYLENE CHLORIDE	3.158	84	957199	159.9289224 ppb	99
20) ACRYLONITRILE	3.656	53	1740693	953.8695278 ppb	100
21) n-Hexane	3.293	56	866932	181.2992754 ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.258	96	880145	195.3974126 ppb	99
23) METHYL TERT-BUTYL ETHER	3.312	73	2848700	197.4367665 ppb	99
24) 1,1-DICHLOROETHANE	3.628	63	1853437	197.3467365 ppb	99
25) VINYL ACETATE	3.743	43	9214263	839.4575464 ppb	97
26) DI-ISOPROPYL ETHER	3.518	45	3916493	196.6506491 ppb	100
27) 2,2-Dichloropropane	4.004	77	1092671	167.1650592 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.933	96	998619	195.8344529 ppb	97
29) 2-BUTANONE (MEK)	4.251	43	2298530	833.7810080 ppb	99
30) BROMOCHLOROMETHANE	4.052	130	578939	200.4607798 ppb	99
31) TETRAHYDROFURAN	4.184	42	340990	165.2685533 ppb	97
32) CHLOROFORM	4.074	83	1790253	197.3375502 ppb	100
34) 1,1,1-TRICHLOROETHANE	4.219	97	1397630	199.9237374 ppb	100
35) CARBON TETRACHLORIDE	4.177	117	1302021	181.2490310 ppb	98
36) 1,1-Dichloropropene	4.280	75	1226252	198.9038166 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 13.D
Acq On : 20 Oct 2015 5:50 am
Operator : 591
Sample : STD VMS 200 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 09:52:26 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.332	57	4665270	199.6744519 ppb		97
38)	HEPTANE	4.364	43	1888432	204.3055972 ppb	#	99
39)	BENZENE	4.428	78	3643392	194.2262082 ppb		99
40)	1,2-DICHLOROETHANE	4.541	62	1598186	204.5994573 ppb		99
42)	TRICHLOROETHENE	4.753	130	892220	197.5780921 ppb		99
43)	1,2-DICHLOROPROPANE	5.074	62	765573	198.4098698 ppb		99
44)	DIBROMOMETHANE	5.017	93	614823	185.8787360 ppb		99
45)	BROMODICHLOROMETHANE	5.090	83	1482981	197.7514213 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.412	63	3000338	1041.7542064 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.476	75	1711412	201.4065292 ppb		100
49)	4-METHYL-2-PENTANONE (...	5.849	43	5608730	916.0589549 ppb		98
51)	TOLUENE	5.631	91	3788423	194.2934880 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.878	75	1691076	209.4204747 ppb		100
54)	1,1,2-TRICHLOROETHANE	5.991	97	768920	202.2724200 ppb		99
55)	TETRACHLOROETHENE	5.881	164	664174	209.9052812 ppb		100
56)	1,3-Dichloropropane	6.180	76	1466217	203.1521597 ppb		99
57)	2-HEXANONE	6.389	58	1867292	848.2474232 ppb		95
58)	CHLORODIBROMOMETHANE	6.116	129	972648	203.2937346 ppb		99
59)	1,2-DIBROMOETHANE	6.299	107	797170	195.9176971 ppb		100
60)	CHLOROBENZENE	6.637	112	2526117	212.9664325 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.672	133	902737	195.4673934 ppb		100
62)	ETHYLBENZENE	6.637	106	1368603	210.5807883 ppb		95
63)	M&P-XYLENE	6.730	106	3337627	421.0696650 ppb		93
64)	O-XYLENE	7.042	106	1620248	203.1919682 ppb		97
65)	STYRENE	7.078	104	2799761	209.2877761 ppb		99
66)	Bromoform	7.113	173	640983	215.6800017 ppb		100
67)	Isopropylbenzene	7.258	105	4326669	208.1956733 ppb		99
69)	Bromobenzene	7.573	77	2268524	206.1056767 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.605	83	1127341	193.0476828 ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.730	110	324096	173.5219926 ppb		99
72)	TRANS-1,4-DICHLORO-2-B...	7.746	53	413220	193.6566091 ppb		96
73)	n-Propylbenzene	7.563	91	5378713	202.6318978 ppb		99
74)	4-ETHYLTOLUENE	7.640	105	4336880	202.0044509 ppb		99
75)	2-Chlorotoluene	7.698	126	1064204	217.5268300 ppb		94
76)	4-Chlorotoluene	7.824	91	3337320	198.9532851 ppb		99
77)	1,3,5-Trimethylbenzene	7.698	105	3886406	209.9034188 ppb		98
78)	tert-Butylbenzene	7.952	119	2997817	200.6727091 ppb		100
79)	1,2,4-Trimethylbenzene	8.000	105	3746692	200.1902712 ppb		97
80)	sec-Butylbenzene	8.087	105	4702947	200.4857822 ppb		98
81)	1,3-DICHLOROBENZENE	8.277	146	1997303	200.8535676 ppb		99
82)	p-Isopropyltoluene	8.187	119	4044229	204.1085085 ppb		99
83)	DICYCLOPENTADIENE	8.193	66	5211861	201.8381441 ppb		99
85)	1,4-DICHLOROBENZENE	8.344	146	2096334	195.2406202 ppb	#	26
86)	1,2,3-TRIMETHYLBENZENE	8.348	105	4072322	195.4154793 ppb		98
87)	1,2-DICHLOROBENZENE	8.682	146	1861990	194.0889336 ppb		99
88)	n-Butylbenzene	8.521	91	3995269	187.3121720 ppb		98
89)	1,2-Dibromo-3-chloropr...	9.319	157	200773	176.7996057 ppb		98
90)	1,2,4-Trichlorobenzene	9.875	180	1154175	175.8369480 ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	9.833	225	598381	180.1816185 ppb		99
92)	Naphthalene	10.151	128	2878064	166.2058609 ppb		99
93)	1,2,3-Trichlorobenzene	10.306	180	1039100	169.1332087 ppb		99
94)	1-Methylnaphthalene	11.026	142	1546117	149.8282376 ppb		99
95)	2-Methylnaphthalene	11.161	142	1240559	145.9022041 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 13.D
Acq On : 20 Oct 2015 5:50 am
Operator : 591
Sample : STD VMS 200 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 09:52:26 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration

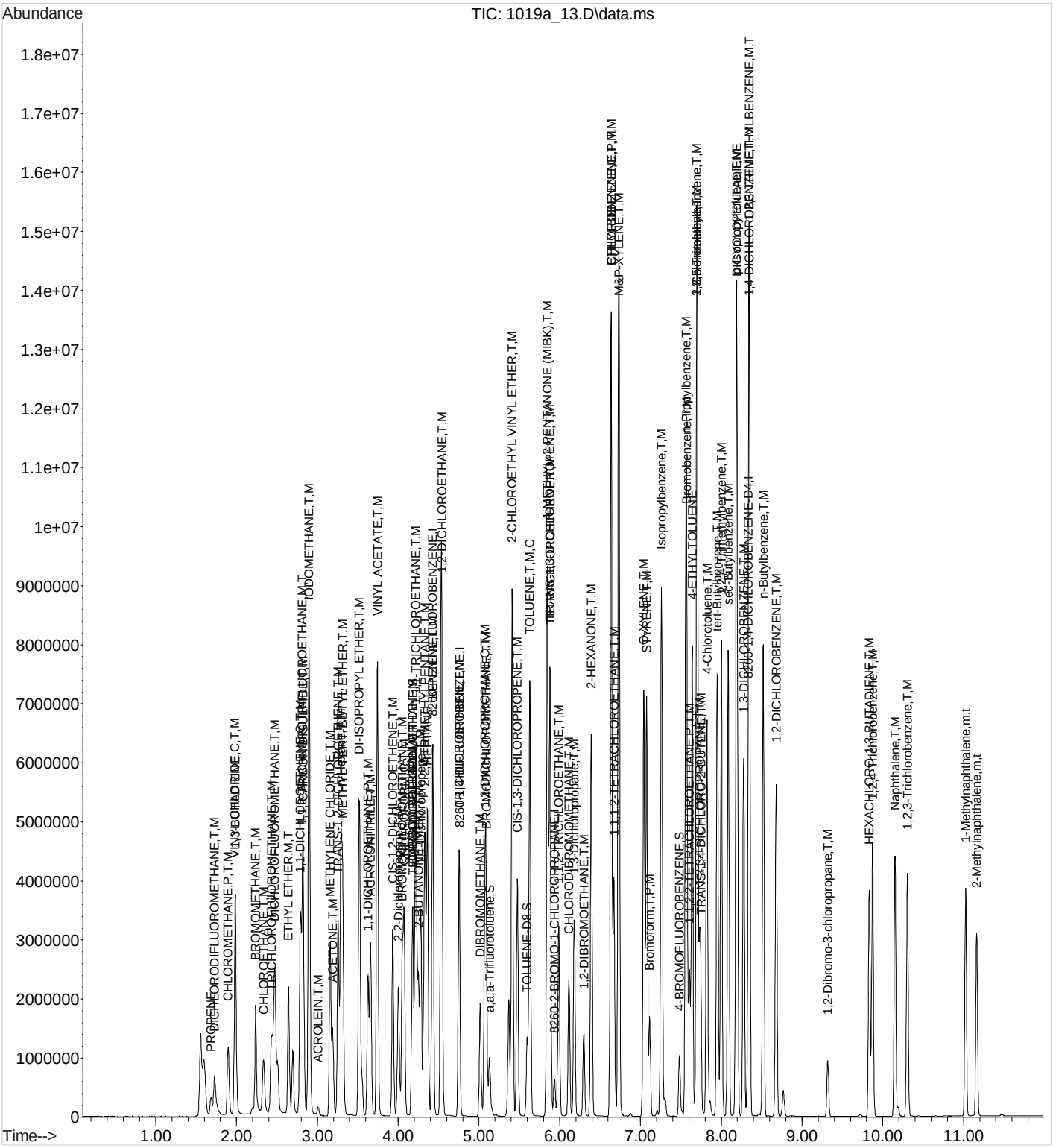
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101915a\
Data File : 1019a 13.D
Acq On : 20 Oct 2015 5:50 am
Operator : 591
Sample : STD VMS 200 ppb 15J05152
Misc : water IS/SURR 15H19728
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 09:52:26 2015
Quant Method : C:\msdchem\1\methods\V835J19O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Tue Oct 20 09:37:17 2015
Response via : Initial Calibration



Instrument: VOCMS35
Method: V835J21O

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1019a_03.D	.25	10/20/2015 2:20:00 AM
1019a_04.D	.5	10/20/2015 2:41:00 AM
1019a_05.D	1	10/20/2015 3:02:00 AM
1019a_06.D	2	10/20/2015 3:23:00 AM
1019a_07.D	5.0	10/20/2015 3:45:00 AM
1019a_08.D	10	10/20/2015 4:05:00 AM
1019a_09.D	25	10/20/2015 4:26:00 AM
1019a_10.D	40	10/20/2015 4:47:00 AM
1019a_11.D	75	10/20/2015 5:08:00 AM
1019a_12.D	100	10/20/2015 5:29:00 AM
1019a_13.D	200	10/20/2015 5:50:00 AM
1020a_04.D	1A	10/21/2015 12:53:00 AM
1020a_05.D	2.5A	10/21/2015 1:13:00 AM
1020a_06.D	5A	10/21/2015 1:34:00 AM
1020a_07.D	7.5A	10/21/2015 1:55:00 AM
1020a_08.D	10A	10/21/2015 2:16:00 AM
1020a_09.D	12A	10/21/2015 2:37:00 AM
1020a_10.D	15A	10/21/2015 2:58:00 AM
1020a_11.D	17A	10/21/2015 3:19:00 AM
1020a_12.D	20A	10/21/2015 3:40:00 AM

Mint Miner 2.6.4 Directory Scan: z:\102015a

21 Oct 2015 15:11

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\102015a\1020a_01.D					
Original Path: 1020a_01.D					
0	Scanned		189	VOCMS35	INSTBLK (water IS/SURR 15H19728)
Scan File Path: z:\102015a\1020a_02.D					
Original Path: C:\msdchem\1\data\102015a\1020a_02.D\data.ms					
0	Scanned		189	VOCMS35	INSTBLK (water IS/SURR 15H19728)
Scan File Path: z:\102015a\1020a_03.D					
Original Path: z:\102015a\1020a_03.D					
0	No Audit				
Scan File Path: z:\102015a\1020a_04A.D					
Original Path: C:\msdchem\1\data\102015a\1020a_04.D					
57	Scanned	D(32), DS(2), DC(3), DK(1), DB(3), MZ(4)	189	VOCMS35	STD VMS 1a ppb 15H20824 (water IS/SURR 15
Scan File Path: z:\102015a\1020a_04.D					
Original Path: C:\msdchem\1\data\102015a\1020a_04.D					
57	Scanned	D(32), DS(2), DC(3), DK(1), DB(3), MZ(4)	189	VOCMS35	STD VMS 1a ppb 15H20824 (water IS/SURR 15
Scan File Path: z:\102015a\1020a_05.D					
Original Path: C:\msdchem\1\data\102015a\1020a_05.D					
61	Scanned	D(34), DS(2), DC(3), DK(2), DB(3), DP(1), MZ(4)	189	VOCMS35	STD VMS 2.5a ppb 15H20824 (water IS/SURR 1
Scan File Path: z:\102015a\1020a_06.D					
Original Path: C:\msdchem\1\data\102015a\1020a_06.D					
64	Scanned	D(37), DS(2), DC(3), DK(2), DB(3), DP(1), MZ(4)	189	VOCMS35	STD VMS 5a ppb 15H20824 (water IS/SURR 15
Scan File Path: z:\102015a\1020a_07.D					
Original Path: C:\msdchem\1\data\102015a\1020a_07.D					
66	Scanned	D(39), DS(2), DC(3), DK(2), DB(3), DP(1), MZ(4)	189	VOCMS35	STD VMS 7.5a ppb 15H20824 (water IS/SURR 1
Scan File Path: z:\102015a\1020a_08.D					
Original Path: C:\msdchem\1\data\102015a\1020a_08.D\data.ms					
192	Scanned	D(123), DS(6), DC(9), DK(6), DB(9), DP(3)	189	VOCMS35	MSTD VMS 10a ppb 15H20824 (water IS/SURR
Scan File Path: z:\102015a\1020a_09.D					
Original Path: C:\msdchem\1\data\102015a\1020a_09.D					
66	Scanned	D(41), DS(2), DC(3), DK(2), DB(3), DP(2), ENR(1)	189	VOCMS35	STD VMS 12.5a ppb 15H20824 (water IS/SURR

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\102015a\1020a_10.D					
Original Path: C:\msdchem\1\data\102015a\1020a_10.D					
65	Scanned	D(40), DS(2), DC(3), DK(2), DB(3), DP(2), ENR(1)	189	VOCMS35	STD VMS 15a ppb 15H20824 (water IS/SURR 1
Scan File Path: z:\102015a\1020a_11.D					
Original Path: C:\msdchem\1\data\102015a\1020a_11.D					
65	Scanned	D(40), DS(2), DC(3), DK(2), DB(3), DP(2), ENR(1)	189	VOCMS35	STD VMS 17.5a ppb 15H20824 (water IS/SURR
Scan File Path: z:\102015a\1020a_12.D					
Original Path: C:\msdchem\1\data\102015a\1020a_12.D					
64	Scanned	D(40), DS(2), DC(3), DK(2), DB(3), DP(1), ENR(1)	189	VOCMS35	STD VMS 20a ppb 15H20824 (water IS/SURR 1
Scan File Path: z:\102015a\1020a_13.D					
Original Path: C:\msdchem\1\data\102015a\1020a_13.D\data.ms					
0	Scanned		189	VOCMS35	INSTBLK (water IS/SURR 15H19728)
Scan File Path: z:\102015a\1020a_14.D					
Original Path: C:\msdchem\1\data\102015a\1020a_14.D\data.ms					
0	Scanned		189	VOCMS35	SSCV VMS 10a ppb 15H19752 (water IS/SURR

D	=	Deletion of any analyte	DB	=	Deletion of a common contaminant
DC	=	Deletion of a CCC	DK	=	Deletion of a spike compound
DP	=	Deletion of an SPCC	DS	=	Deletion of a surrogate
ENR	=	Quant report set to not reviewed (Disables MZ code)	MZ	=	Manual integrated but indicator missing from either the quant report or audit file

ScanSummary.rpt

Total Files Scanned	15	Beginning Analyzed Date	10/20/2015 11:50:00PM
Methods	0	Ending Analyzed Date	10/21/2015 4:22:00AM
Samples	14	Analyzed Range	4 hours, 32 minutes
Tunes	1	Greatest Time Between Tunes	N/A
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 0
Operators 1 Intruments 1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS35
Computer Name : VOCCOMPAY

Released By : Amy Green
Date Released : 10/21/2015 2:45:05 PM

Run ID : 101915a
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1019a_01	INSTBLK	V835J19O						1	1	10/20/15 0138	"water IS/SURR 15H19728"
2	1019a_01	INSTBLK	V835J19O							1	10/20/15 0138	
3	1019a_03	STD VMS .25 PPB 15J05152	V835J19O						1	1	10/20/15 0220	"water IS/SURR 15H19728"
4	1019a_04	STD VMS .5 PPB 15J05152	V835J19O						1	1	10/20/15 0241	"water IS/SURR 15H19728"
5	1019a_05	STD VMS 1 PPB 15J05152	V835J19O						1	1	10/20/15 0302	"water IS/SURR 15H19728"
6	1019a_05 A	RL VMS 1 PPB 15J05152	V835J19O						1	1	10/20/15 0302	"water IS/SURR 15H19728"
7	1019a_06	STD VMS 2 PPB 15J05152	V835J19O						1	1	10/20/15 0323	"water IS/SURR 15H19728"
8	1019a_06 A	RL VMS 2 PPB 15J05152	V835J19O						1	1	10/20/15 0323	"water IS/SURR 15H19728"
9	1019a_07	STD VMS 5 PPB 15J05152	V835J19O						1	1	10/20/15 0345	"water IS/SURR 15H19728"
10	1019a_07 A	RL VMS 5.0 PPB 15J05152	V835J19O						1	1	10/20/15 0345	"water IS/SURR 15H19728"
11	1019a_08	STD VMS 10 PPB 15J05152	V835J19O						1	1	10/20/15 0405	"water IS/SURR 15H19728"
12	1019a_09	MSTD VMS 25 PPB 15J05152	V835J19O						1	1	10/20/15 0426	"water IS/SURR 15H19728"
13	1019a_10	STD VMS 40 PPB 15J05152	V835J19O						1	1	10/20/15 0447	"water IS/SURR 15H19728"
14	1019a_11	STD VMS 75 PPB 15J05152	V835J19O						1	1	10/20/15 0508	"water IS/SURR 15H19728"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS35
Computer Name : VOCCOMPAY
Released By : Amy Green
Date Released : 10/21/2015 2:45:05 PM
Run ID : 101915a
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
15	1019a_12	STD VMS 100 PPB 15J05152	V835J19O						1	1	10/20/15 0529	"water IS/SURR 15H19728"
16	1019a_13	STD VMS 200 PPB 15J05152	V835J19O						1	1	10/20/15 0550	"water IS/SURR 15H19728"
17	1019a_15	SSCV VMS 25 PPB 15J05157	V835J19O						1	1	10/20/15 0632	"water IS/SURR 15H19728"
18	1020a_01	INSTBLK	V835J21O						1	1	10/20/15 2350	"water IS/SURR 15H19728"
19	1020a_01	INSTBLK	V835J21O							1	10/20/15 2350	
20	1020a_02	INSTBLK	V835J21O						1	1	10/21/15 0011	"water IS/SURR 15H19728"
21	1020a_04	STD VMS 1A PPB 15H20824	V835J21O						1	1	10/21/15 0053	"water IS/SURR 15H19728"
22	1020a_04 A	RL VMS 1A PPB 15H20824	V835J21O						1	1	10/21/15 0053	"water IS/SURR 15H19728"
23	1020a_05	STD VMS 2.5A PPB 15H20824	V835J21O						1	1	10/21/15 0113	"water IS/SURR 15H19728"
24	1020a_06	STD VMS 5A PPB 15H20824	V835J21O						1	1	10/21/15 0134	"water IS/SURR 15H19728"
25	1020a_07	STD VMS 7.5A PPB 15H20824	V835J21O						1	1	10/21/15 0155	"water IS/SURR 15H19728"
26	1020a_08	MSTD VMS 10A PPB 15H20824	V835J21O						1	1	10/21/15 0216	"water IS/SURR 15H19728"
27	1020a_09	STD VMS 12.5A PPB 15H20824	V835J21O						1	1	10/21/15 0237	"water IS/SURR 15H19728"
28	1020a_10	STD VMS 15A PPB 15H20824	V835J21O						1	1	10/21/15 0258	"water IS/SURR 15H19728"
29	1020a_11	STD VMS 17.5A PPB 15H20824	V835J21O						1	1	10/21/15 0319	"water IS/SURR 15H19728"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

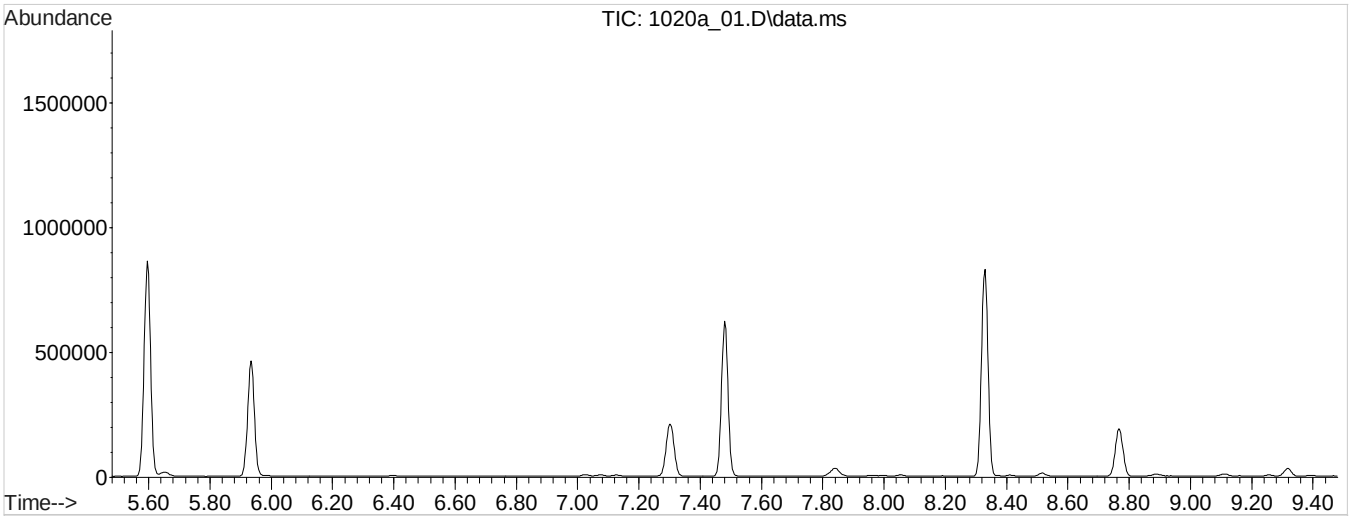
Instrument ID : VOCMS35
Computer Name : VOCCOMPAY
Released By : Amy Green
Date Released : 10/21/2015 2:45:05 PM
Run ID : 101915a
Signature : _____

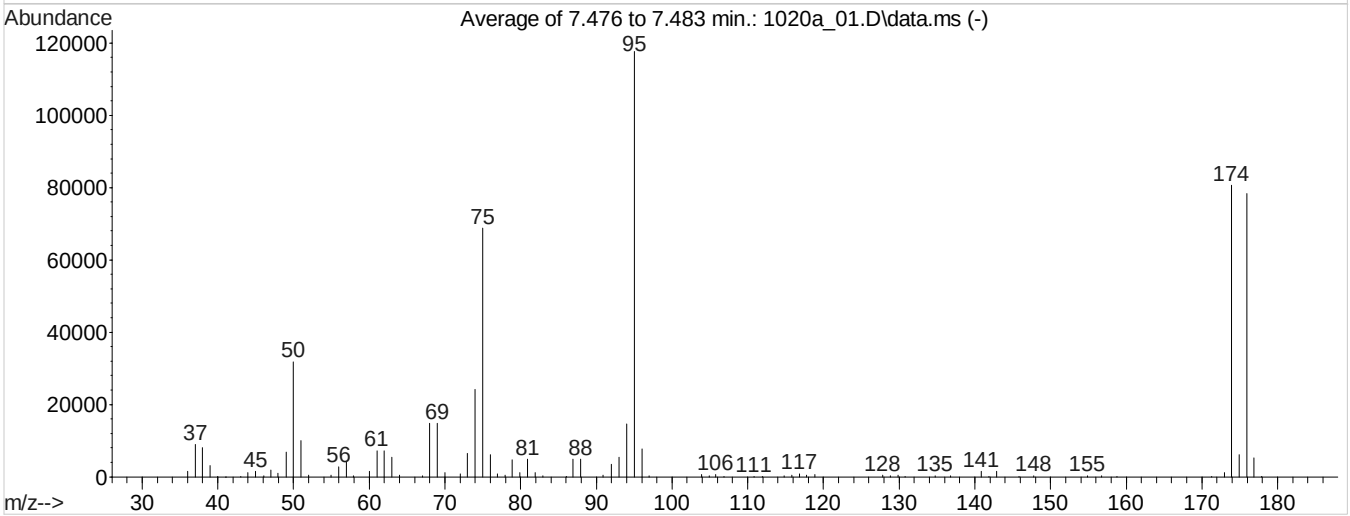
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
30	1020a_12	STD VMS 20A PPB 15H20824	V835J21O						1	1	10/21/15 0340	"water IS/SURR 15H19728"
31	1020a_13	INSTBLK	V835J21O						1	1	10/21/15 0401	"water IS/SURR 15H19728"
32	1020a_14	SSCV VMS 10A PPB 15H19752	V835J21O						1	1	10/21/15 0422	"water IS/SURR 15H19728"

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 01.D
Acq On : 20 Oct 2015 11:50 pm
Operator : 189
Sample : INSTBLK
Misc : water IS/SURR 15H19728
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V835J21O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
Last Update : Wed Oct 21 14:34:58 2015





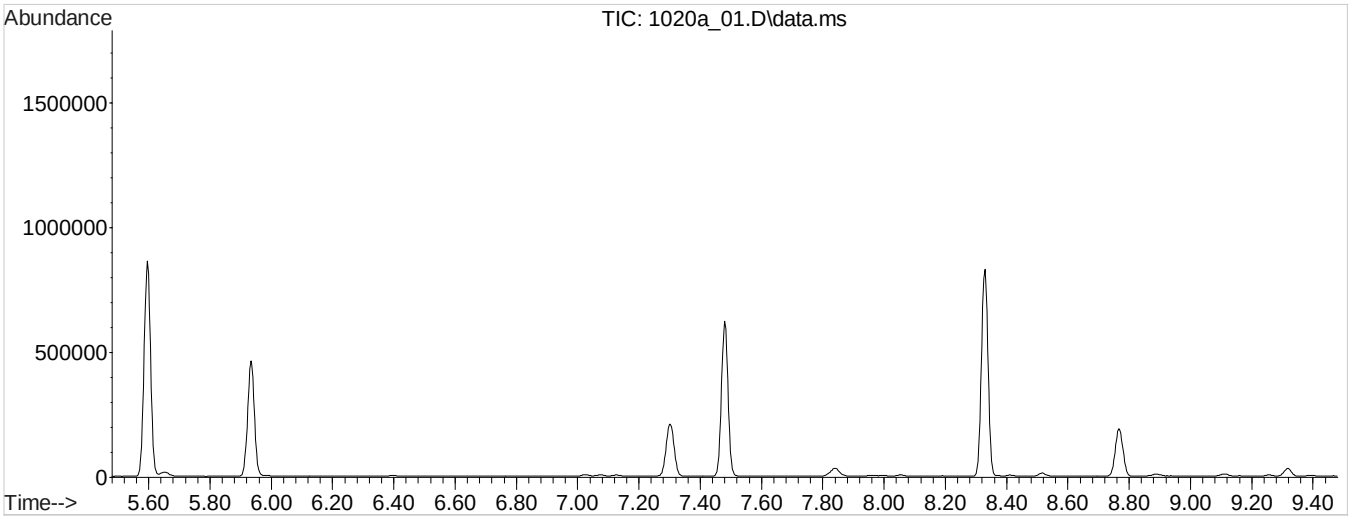
AutoFind: Scans 2297, 2298, 2299; Background Corrected with Scan 2284

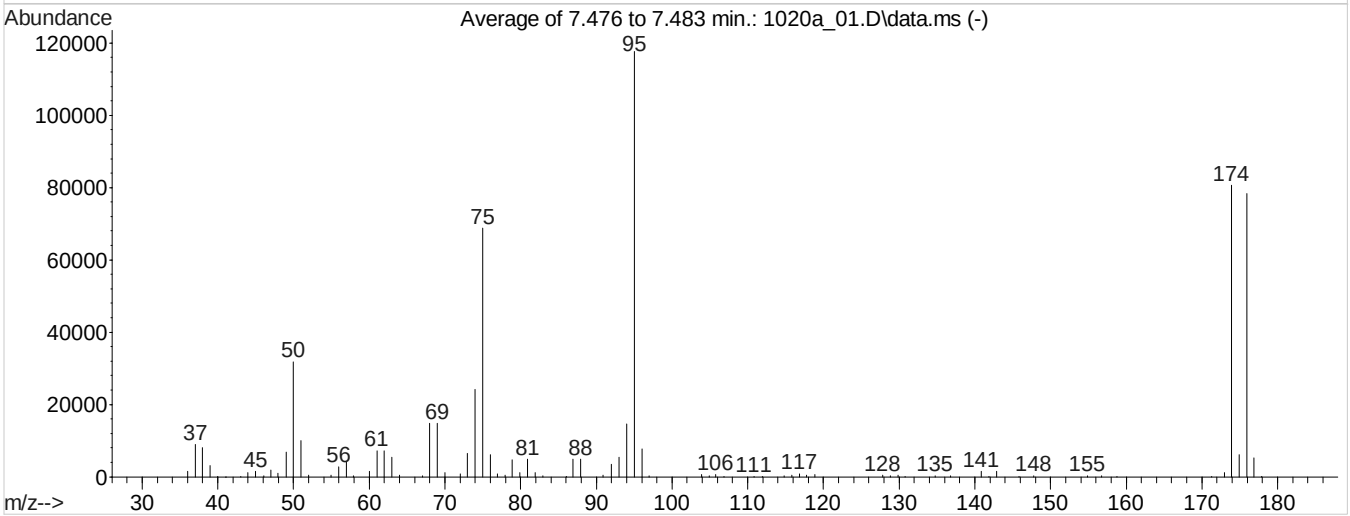
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.1	31845	PASS
75	95	30	60	58.5	68811	PASS
95	95	100	100	100.0	117707	PASS
96	95	5	9	6.6	7749	PASS
173	174	0.00	2	1.5	1225	PASS
174	95	50	150	68.5	80675	PASS
175	174	5	9	7.6	6149	PASS
176	174	95	101	97.2	78400	PASS
177	176	5	9	6.6	5185	PASS

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 01.D
Acq On : 20 Oct 2015 11:50 pm
Operator : 189
Sample : INSTBLK
Misc : water IS/SURR 15H19728
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V835J21O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
Last Update : Wed Oct 21 14:34:58 2015





AutoFind: Scans 2297, 2298, 2299; Background Corrected with Scan 2284

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.1	31845	PASS
75	95	30	60	58.5	68811	PASS
95	95	100	100	100.0	117707	PASS
96	95	5	9	6.6	7749	PASS
173	174	0.00	2	1.5	1225	PASS
174	95	50	150	68.5	80675	PASS
175	174	5	9	7.6	6149	PASS
176	174	95	101	97.2	78400	PASS
177	176	5	9	6.6	5185	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 6200	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: SM 20th	Released On	: 10/21/2015 2:45:05 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE			0.279	0.25	0.229	0.189	0.166	0.169	0.151	0.151	0.153										0.193021	24.88	0.998	0
DICHLORODIFLUOROMETHANE	0.797	0.589	0.643	0.578	0.763	0.688	0.68	0.68	0.635	0.641	0.656										0.668234	9.84	0.098	1
CHLOROMETHANE		1.278	1.067	1.016	1.019	0.957	0.901	0.914	0.874	0.879	0.891										0.979677	12.7	0.127	1
VINYL CHLORIDE	0.954	1.03	1.023	0.988	1.05	0.997	0.952	0.957	0.907	0.908	0.919										0.971356	5.15	0.052	1
1,3-BUTADIENE			1.201	1.05	1.021	0.95	0.871	0.857	0.819	0.808	0.812										0.932018	14.5	0.145	1
BROMOMETHANE	0.582	0.654	0.587	0.663	0.645	0.617	0.589	0.6	0.576	0.577	0.61										0.609138	5.21	0.052	1
CHLOROETHANE	0.687	0.718	0.702	0.625	0.662	0.632	0.611	0.615	0.593	0.598	0.613										0.641442	6.79	0.068	1
TRICHLOROFLUOROMETHANE	1.522	1.498	1.252	1.246	1.309	1.25	1.212	1.206	1.164	1.156	1.192										1.273395	9.82	0.098	1
DICHLOROFLUOROMETHANE	1.318	1.589	1.651	1.625	1.697	1.655	1.579	1.572	1.508	1.506	1.546										1.567623	6.53	0.065	1
ETHYL ETHER	0.926	0.917	0.797	0.766	0.798	0.758	0.739	0.741	0.734	0.712	0.733										0.783644	9.32	0.093	1
ACROLEIN					0.023	0.015	0.014	0.013	0.012	0.012	0.012										0.014412	28.83	0.998	0
1,1-DICHLOROETHENE	1.339	1.552	1.364	1.37	1.417	1.338	1.269	1.256	1.238	1.169	1.276										1.32621	7.77	0.078	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.594	0.776	0.594	0.616	0.667	0.689	0.597	0.598	0.604	0.563	0.654										0.631868	9.62	0.096	1
ACETONE	0.568	0.384	0.317	0.281	0.32	0.206	0.199	0.225	0.224	0.219	0.22										0.287611	38.38	0.997	0
IODOMETHANE	0.861	0.98	0.939	0.971	1.003	0.984	0.958	0.974	0.957	0.978	1.033										0.967107	4.47	0.045	1
CARBON DISULFIDE	2.315	2.437	2.16	2.169	2.261	2.406	2.072	2.065	2.06	1.992	2.256										2.199222	6.73	0.067	1
METHYLENE CHLORIDE			0.903	0.79	0.754	0.734	0.695	0.692	0.671	0.675	0.695										0.734274	10.15	0.101	1
ACRYLONITRILE	0.266	0.28	0.267	0.261	0.35	0.247	0.239	0.251	0.258	0.243	0.253										0.264858	11.53	0.115	1
n-Hexane		0.773	0.662	0.667	0.686	0.629	0.624	0.605	0.608	0.607	0.629										0.649109	7.97	0.08	1
TRANS-1,2-DICHLOROETHENE	0.689	0.715	0.679	0.621	0.696	0.66	0.637	0.623	0.614	0.62	0.639										0.653754	5.44	0.054	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 6200	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: SM 20th	Released On	: 10/21/2015 2:45:05 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.06	2.201	2.064	2.184	2.246	2.09	2.018	2.059	2.051	1.994	2.067										2.094102	3.83	0.038	1
,1-DICHLOROETHANE	1.321	1.453	1.378	1.402	1.415	1.39	1.356	1.334	1.301	1.299	1.345										1.363098	3.61	0.036	1
VINYL ACETATE	1.62	1.689	1.697	1.775	1.874	1.53	1.477	1.57	1.5	1.454	1.337										1.59311	9.81	0.098	1
DI-ISOPROPYL ETHER	2.924	3.044	2.948	2.916	2.903	2.921	2.855	2.844	2.8	2.799	2.842										2.890555	2.5	0.025	1
2,2-Dichloropropane	1.054	1.17	1.098	0.914	0.975	0.96	0.904	0.903	0.834	0.83	0.793										0.948677	12.46	0.125	1
CIS-1,2-DICHLOROETHENE	0.751	0.818	0.752	0.763	0.745	0.762	0.706	0.722	0.703	0.695	0.725										0.740099	4.8	0.048	1
-BUTANONE (MEK)			0.407	0.395	0.491	0.336	0.32	0.339	0.346	0.34	0.334										0.367562	14.89	0.149	1
BROMOCHLOROMETHANE	0.401	0.443	0.437	0.433	0.437	0.411	0.412	0.412	0.404	0.401	0.42										0.419163	3.76	0.038	1
TETRAHYDROFURAN	0.36	0.382	0.375	0.341	0.377	0.24	0.23	0.244	0.257	0.239	0.247										0.299454	22.07	0.996	0
CHLOROFORM	1.246	1.451	1.334	1.349	1.348	1.357	1.294	1.289	1.254	1.261	1.299										1.316691	4.54	0.045	1
DIBROMOFLUOROMETHANE	0.618	0.626	0.621	0.622	0.626	0.622	0.619	0.626	0.605	0.603	0.621										0.618921	1.28	0.013	1
1,1,1-TRICHLOROETHANE	0.866	1.079	1.029	1.027	1.083	1.033	1.034	1.018	0.991	0.987	1.014										1.014628	5.69	0.057	1
CARBON TETRACHLORIDE			1.077	1.023	1.003	0.954	0.946	0.917	0.908	0.906	0.945										0.964343	6.07	0.061	1
1,1-Dichloropropene	0.809	0.972	0.915	0.908	0.963	0.897	0.894	0.872	0.859	0.864	0.89										0.894777	5.16	0.052	1
2,2,4-TRIMETHYLPENTANE	3.814	3.927	3.035	3.184	3.575	3.184	3.418	3.257	3.256	3.266	3.386										3.391044	8.16	0.082	1
HEPTANE	1.351	1.319	1.366	1.326	1.417	1.32	1.335	1.29	1.328	1.323	1.37										1.340449	2.55	0.025	1
BENZENE	2.962	3.002	2.829	2.676	2.761	2.717	2.622	2.604	2.561	2.569	2.644										2.722517	5.57	0.056	1
1,2-DICHLOROETHANE	1.064	1.135	1.163	1.162	1.186	1.134	1.116	1.117	1.124	1.11	1.16										1.13371	2.95	0.029	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.339	0.4	0.383	0.352	0.377	0.372	0.362	0.357	0.351	0.35	0.359										0.363777	4.83	0.048	1
,2-DICHLOROPROPANE	0.294	0.34	0.307	0.313	0.323	0.315	0.306	0.309	0.302	0.302	0.308										0.310832	3.92	0.039	1
DIBROMOMETHANE	0.317	0.302	0.267	0.272	0.282	0.256	0.245	0.252	0.249	0.24	0.248										0.266454	9.39	0.094	1

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Method	: V835J21O	Review Protocol	: SM 20th	Released On	: 10/21/2015 2:45:05 PM

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Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.59	0.607	0.605	0.617	0.632	0.625	0.599	0.597	0.591	0.585	0.597										0.604113	2.5	0.025	1
a,a,a-Trifluorotoluene	0.541	0.538	0.536	0.528	0.529	0.527	0.518	0.516	0.489	0.484	0.47										0.516069	4.68	0.047	1
-CHLOROETHYL VINYL ETHER	0.21	0.234	0.232	0.231	0.254	0.222	0.223	0.229	0.242	0.233	0.242										0.23201	5.01	0.05	1
CIS-1,3-DICHLOROPROPENE	0.612	0.709	0.697	0.699	0.709	0.698	0.676	0.684	0.685	0.672	0.689										0.684515	3.94	0.039	1
4-METHYL-2-PENTANONE (MIBK)	0.492	0.542	0.498	0.513	0.616	0.457	0.443	0.474	0.487	0.452	0.452										0.493223	10.24	0.102	1
TOLUENE-D8	1.241	1.234	1.239	1.218	1.221	1.225	1.203	1.208	1.171	1.153	1.137										1.204607	2.94	0.029	1
TOLUENE	1.739	1.693	1.573	1.553	1.6	1.553	1.513	1.515	1.508	1.505	1.526										1.570733	4.99	0.05	1
TRANS-1,3-DICHLOROPROPENE	0.649	0.641	0.646	0.63	0.67	0.633	0.635	0.647	0.669	0.654	0.681										0.650498	2.54	0.025	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.488	1.886	1.731	1.658	1.797	1.636	1.608	1.626	1.665	1.635	1.694										1.674924	6.21	0.062	1
TETRACHLOROETHENE	1.453	1.442	1.349	1.325	1.437	1.354	1.369	1.358	1.377	1.407	1.463										1.394149	3.45	0.035	1
1,3-Dichloropropane	3.089	3.231	3.274	3.158	3.372	3.091	3.087	3.136	3.18	3.131	3.23										3.180003	2.82	0.028	1
2-HEXANONE		1.112	1.035	1.026	1.19	0.843	0.807	0.826	0.863	0.813	0.823										0.933783	15.31	0.153	1
CHLORODIBROMOMETHANE	1.981	2.261	2.225	2.057	2.172	2.061	2.065	2.055	2.1	2.068	2.143										2.108057	3.95	0.04	1
1,2-DIBROMOETHANE	1.882	1.929	1.893	1.776	1.899	1.701	1.688	1.721	1.76	1.714	1.756										1.792784	5.03	0.05	1
CHLOROBENZENE	5.507	5.28	5.232	5.123	5.186	4.991	5.07	5.094	5.173	5.267	5.565										5.226284	3.37	0.034	1
1,1,1,2-TETRACHLOROETHANE	2.55	2.279	1.961	2.042	1.978	1.919	1.918	1.923	1.904	1.921	1.989										2.034874	9.9	0.099	1
ETHYLBENZENE	3.233	2.954	2.782	2.81	2.846	2.714	2.761	2.748	2.779	2.857	3.015										2.863581	5.31	0.053	1
M&P-XYLENE	3.713	3.637	3.34	3.405	3.482	3.403	3.4	3.417	3.443	3.501	3.676										3.492485	3.61	0.036	1
O-XYLENE	4.07	3.581	3.562	3.492	3.448	3.358	3.385	3.385	3.377	3.42	3.569										3.513384	5.76	0.058	1
STYRENE	5.675	5.99	5.914	6.014	5.819	5.789	5.825	5.824	5.851	5.969	6.168										5.8943 8	2.28	0.023	1
Bromoform	0.993	1.408	1.214	1.343	1.38	1.286	1.293	1.336	1.385	1.353	1.412										1.309445	9.18	0.092	1

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Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.448	9.416	8.997	9.005	9.608	9.004	9.195	9.191	9.114	9.212	9.532										9.156566	3.44	0.034	1
4-BROMOFLUOROBENZENE	2.848	2.832	2.802	2.757	2.741	2.719	2.755	2.77	2.743	2.755	2.705										2.766171	1.61	0.016	1
Bromobenzene	5.071	5.11	4.76	4.976	4.796	4.69	4.681	4.712	4.741	4.811	4.998										4.84958	3.27	0.033	1
1,1,2,2-TETRACHLOROETHANE	2.598	2.791	2.776	2.597	2.834	2.414	2.393	2.485	2.506	2.424	2.484										2.573009	6.25	0.062	1
1,2,3-TRICHLOROPROPANE			0.909	0.87	0.856	0.705	0.687	0.723	0.722	0.689	0.714										0.763658	11.5	0.115	1
TRANS-1,4-DICHLORO-2-BUTENE	0.955	0.924	1.027	1.083	1.114	0.839	0.861	0.847	0.906	0.875	0.91										0.940155	10.1	0.101	1
n-Propylbenzene	12.09	12.58	11.43	11.4	11.8	11.44	11.55	11.43	11.41	11.67	11.85										11.69557	3.16	0.032	1
4-ETHYLTOLUENE	9.96	10.12	9.18	9.2	9.5	9.22	9.4	9.27	9.27	9.37	9.55										9.45948	3.31	0.033	1
2-Chlorotoluene	2.138	2.194	2.221	2.122	2.178	2.103	2.144	2.155	2.165	2.227	2.344										2.181073	3.05	0.031	1
4-Chlorotoluene	8.304	7.579	7.202	7.292	7.367	7.295	7.278	7.24	7.115	7.275	7.352										7.390901	4.39	0.044	1
1,3,5-Trimethylbenzene	8.487	8.109	7.914	7.858	8.222	8.035	8.104	8.129	8.058	8.259	8.562										8.157918	2.65	0.026	1
tert-Butylbenzene	6.958	7.074	6.623	6.306	6.573	6.452	6.55	6.477	6.362	6.425	6.604										6.582146	3.61	0.036	1
1,2,4-Trimethylbenzene	8.33	8.701	8.252	8.108	8.319	8.235	8.167	8.222	7.984	8.136	8.254										8.246235	2.19	0.022	1
sec-Butylbenzene	10.19	10.49	9.940001	10.41	10.73	10.35	10.5	10.31	10.18	10.22	10.36										10.33564	2.01	0.02	1
1,3-DICHLOROBENZENE	4.489	4.581	4.506	4.43	4.305	4.299	4.309	4.293	4.257	4.326	4.4										4.381422	2.44	0.024	1
p-Isopropyltoluene	9.756	9.1	8.474	8.212	8.702	8.562	8.673	8.553	8.453	8.64	8.91										8.730222	4.73	0.047	1
DICYCLOPENTADIENE	11.21	11.88	11.14	11.19	11.54	11.37	11.46	11.49	11.15	11.23	11.48										11.37733	1.96	0.02	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.055	1.851	1.702	1.673	1.628	1.665	1.591	1.603	1.618	1.638	1.658										1.698484	8.1	0.081	1
1,2,3-TRIMETHYLBENZENE	3.429	3.751	3.143	3.303	3.273	3.313	3.184	3.216	3.213	3.216	3.221										3.29651	5.14	0.051	1
1,2-DICHLOROBENZENE	1.483	1.586	1.543	1.58	1.547	1.547	1.469	1.494	1.491	1.48	1.473										1.517567	2.88	0.029	1
n-Butylbenzene	3.623	3.68	3.496	3.269	3.55	3.378	3.302	3.218	3.228	3.212	3.16										3.374048	5.43	0.054	1

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1,2-Dibromo-3-chloropropane		0.178	0.194	0.187	0.237	0.175	0.164	0.17	0.173	0.16	0.159										0.179637	12.93	0.129	1
1,2,4-Trichlorobenzene	1.185	1.213	1.069	1.067	1.045	1.055	0.976	0.988	0.959	0.951	0.913										1.038324	9.14	0.091	1
HEXACHLORO-1,3-BUTADIENE	0.472	0.549	0.56	0.573	0.563	0.554	0.525	0.52	0.497	0.491	0.473										0.525338	7.06	0.071	1
Naphthalene				2.878	3.06	2.617	2.381	2.527	2.506	2.387	2.276										2.57918	10.35	0.103	1
1,2,3-Trichlorobenzene	1.195	1.068	0.98	1.04	1.012	0.985	0.898	0.926	0.89	0.874	0.822										0.971851	10.88	0.109	1
1-Methylnaphthalene		1.984	1.766	1.649	1.792	1.59	1.424	1.51	1.435	1.394	1.223										1.576888	14.34	0.143	1
2-Methylnaphthalene		1.585	1.401	1.424	1.56	1.325	1.186	1.256	1.189	1.129	0.981										1.30368	14.76	0.148	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL																					0	0	0	1
Bromoethane												0.676	0.64	0.634	0.603	0.628	0.619	0.606	0.595	0.595	0.621733	4.21	0.042	1
2-PROPANOL												0.062	0.057	0.056	0.058	0.065	0.05	0.052	0.05	0.052	0.05585	9.73	0.097	1
Methyl Acetate												0.573	0.606	0.59	0.613	0.602	0.569	0.566	0.561	0.582	0.584783	3.26	0.033	1
ACETONITRILE												0.088	0.091	0.091	0.091	0.094	0.088	0.085	0.086	0.087	0.089296	3.33	0.033	1
ALLYL CHLORIDE												0.391	0.367	0.361	0.351	0.363	0.366	0.357	0.352	0.355	0.362766	3.35	0.034	1
tert-BUTYL ALCOHOL												0.096	0.105	0.103	0.106	0.104	0.09	0.088	0.088	0.093	0.097106	7.73	0.077	1
chloroprene												1.439	1.37	1.339	1.307	1.364	1.379	1.304	1.305	1.281	1.34323	3.72	0.037	1
ETHYL TERT-BUTYL ETHER												2.781	2.827	2.65	2.631	2.706	2.705	2.612	2.569	2.624	2.678372	3.14	0.031	1
PROPIONITRILE												0.096	0.103	0.101	0.105	0.107	0.099	0.1	0.1	0.105	0.101837	3.4	0.034	1
Ethyl Acetate												0.722	0.774	0.735	0.785	0.777	0.743	0.727	0.72	0.749	0.747966	3.37	0.034	1
METHACRYLONITRILE												0.277	0.292	0.283	0.297	0.301	0.292	0.29	0.291	0.304	0.291872	2.87	0.029	1
Cyclohexane												2.296	2.03	1.975	1.904	1.937	1.994	1.87	1.866	1.86	1.970232	6.93	0.069	1
tert-butyl formate												0.779	0.849	0.803	0.808	0.814	0.79	0.795	0.787	0.791	0.801675	2.62	0.026	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 6200	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: SM 20th	Released On	: 10/21/2015 2:45:05 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.047	0.056	0.053	0.057	0.058	0.053	0.053	0.054	0.056	0.054186	5.89	0.059	1
Amyl Alcohol												0.072	0.078	0.071	0.078	0.075	0.066	0.069	0.067	0.07	0.071893	6.26	0.063	1
TERT-AMYL METHYL ETHER												2.98	2.959	2.84	2.9	3.013	2.955	2.929	2.955	2.99	2.946814	1.76	0.018	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.013	0.014	0.013	0.014	0.014	0.012	0.012	0.013	0.013	0.013066	5.11	0.051	1
Methyl Cyclohexane												1.661	1.188	1.058	0.965	0.988	0.96	0.913	0.932	0.909	1.063826	22.61	0.999	0
2-nitropropane												0.149	0.169	0.157	0.171	0.166	0.156	0.155	0.157	0.164	0.160254	4.63	0.046	1
METHYL METHACRYLATE												0.453	0.468	0.448	0.476	0.462	0.454	0.442	0.448	0.461	0.456895	2.35	0.024	1
1,4-DIOXANE												0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.004	0.003785	6.05	0.06	1
n-octane												0.385	0.35	0.353	0.348	0.359	0.358	0.331	0.338	0.333	0.350669	4.72	0.047	1
3,3-DIMETHYL-1-BUTANOL												0.064	0.065	0.059	0.064	0.063	0.054	0.055	0.056	0.058	0.059722	7.59	0.076	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.536	2.665	2.441	2.614	2.566	2.53	2.455	2.478	2.508	2.532618	2.91	0.029	1
CIS-1,4-DICHLORO-2-BUTENE												0.789	0.839	0.79	0.857	0.845	0.812	0.816	0.816	0.84	0.822878	2.93	0.029	1
Cyclohexanone												0.205	0.165	0.157	0.163	0.168	0.15	0.144	0.15	0.154	0.161726	11.16	0.112	1
PENTACHLOROETHANE												1.232	1.448	1.374	1.394	1.264	1.238	1.403	1.36	1.247	1.328916	6.27	0.063	1
Hexachloroethane												1.743	1.751	1.686	1.62	1.737	1.698	1.672	1.704	1.632	1.693786	2.76	0.028	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 601-602	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: EPA	Released On	: 10/21/2015 2:42:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE			0.279	0.25	0.229	0.189	0.166	0.169	0.151	0.151	0.153										0.193021	24.88	0.998	0
DICHLORODIFLUOROMETHANE	0.797	0.589	0.643	0.578	0.763	0.688	0.68	0.68	0.635	0.641	0.656										0.668234	9.84	0.098	1
CHLOROMETHANE		1.278	1.067	1.016	1.019	0.957	0.901	0.914	0.874	0.879	0.891										0.979677	12.7	0.127	1
VINYL CHLORIDE	0.954	1.03	1.023	0.988	1.05	0.997	0.952	0.957	0.907	0.908	0.919										0.971356	5.15	0.052	1
1,3-BUTADIENE			1.201	1.05	1.021	0.95	0.871	0.857	0.819	0.808	0.812										0.932018	14.5	0.145	1
BROMOMETHANE	0.582	0.654	0.587	0.663	0.645	0.617	0.589	0.6	0.576	0.577	0.61										0.609138	5.21	0.052	1
CHLOROETHANE	0.687	0.718	0.702	0.625	0.662	0.632	0.611	0.615	0.593	0.598	0.613										0.641442	6.79	0.068	1
TRICHLOROFLUOROMETHANE	1.522	1.498	1.252	1.246	1.309	1.25	1.212	1.206	1.164	1.156	1.192										1.273395	9.82	0.098	1
DICHLOROFLUOROMETHANE	1.318	1.589	1.651	1.625	1.697	1.655	1.579	1.572	1.508	1.506	1.546										1.567623	6.53	0.065	1
ETHYL ETHER	0.926	0.917	0.797	0.766	0.798	0.758	0.739	0.741	0.734	0.712	0.733										0.783644	9.32	0.093	1
ACROLEIN					0.023	0.015	0.014	0.013	0.012	0.012	0.012										0.014412	28.83	0.998	0
1,1-DICHLOROETHENE	1.339	1.552	1.364	1.37	1.417	1.338	1.269	1.256	1.238	1.169	1.276										1.32621	7.77	0.078	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.594	0.776	0.594	0.616	0.667	0.689	0.597	0.598	0.604	0.563	0.654										0.631868	9.62	0.096	1
ACETONE	0.568	0.384	0.317	0.281	0.32	0.206	0.199	0.225	0.224	0.219	0.22										0.287611	38.38	0.997	0
IODOMETHANE	0.861	0.98	0.939	0.971	1.003	0.984	0.958	0.974	0.957	0.978	1.033										0.967107	4.47	0.045	1
CARBON DISULFIDE	2.315	2.437	2.16	2.169	2.261	2.406	2.072	2.065	2.06	1.992	2.256										2.199222	6.73	0.067	1
METHYLENE CHLORIDE			0.903	0.79	0.754	0.734	0.695	0.692	0.671	0.675	0.695										0.734274	10.15	0.101	1
ACRYLONITRILE	0.266	0.28	0.267	0.261	0.35	0.247	0.239	0.251	0.258	0.243	0.253										0.264858	11.53	0.115	1
n-Hexane		0.773	0.662	0.667	0.686	0.629	0.624	0.605	0.608	0.607	0.629										0.649109	7.97	0.08	1
TRANS-1,2-DICHLOROETHENE	0.689	0.715	0.679	0.621	0.696	0.66	0.637	0.623	0.614	0.62	0.639										0.653754	5.44	0.054	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 601-602	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: EPA	Released On	: 10/21/2015 2:42:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.06	2.201	2.064	2.184	2.246	2.09	2.018	2.059	2.051	1.994	2.067										2.094102	3.83	0.038	1
,1-DICHLOROETHANE	1.321	1.453	1.378	1.402	1.415	1.39	1.356	1.334	1.301	1.299	1.345										1.363098	3.61	0.036	1
VINYL ACETATE	1.62	1.689	1.697	1.775	1.874	1.53	1.477	1.57	1.5	1.454	1.337										1.59311	9.81	0.098	1
DI-ISOPROPYL ETHER	2.924	3.044	2.948	2.916	2.903	2.921	2.855	2.844	2.8	2.799	2.842										2.890555	2.5	0.025	1
2,2-Dichloropropane	1.054	1.17	1.098	0.914	0.975	0.96	0.904	0.903	0.834	0.83	0.793										0.948677	12.46	0.125	1
CIS-1,2-DICHLOROETHENE	0.751	0.818	0.752	0.763	0.745	0.762	0.706	0.722	0.703	0.695	0.725										0.740099	4.8	0.048	1
-BUTANONE (MEK)			0.407	0.395	0.491	0.336	0.32	0.339	0.346	0.34	0.334										0.367562	14.89	0.149	1
BROMOCHLOROMETHANE	0.401	0.443	0.437	0.433	0.437	0.411	0.412	0.412	0.404	0.401	0.42										0.419163	3.76	0.038	1
TETRAHYDROFURAN	0.36	0.382	0.375	0.341	0.377	0.24	0.23	0.244	0.257	0.239	0.247										0.299454	22.07	0.996	0
CHLOROFORM	1.246	1.451	1.334	1.349	1.348	1.357	1.294	1.289	1.254	1.261	1.299										1.316691	4.54	0.045	1
DIBROMOFLUOROMETHANE	0.618	0.626	0.621	0.622	0.626	0.622	0.619	0.626	0.605	0.603	0.621										0.618921	1.28	0.013	1
1,1,1-TRICHLOROETHANE	0.866	1.079	1.029	1.027	1.083	1.033	1.034	1.018	0.991	0.987	1.014										1.014628	5.69	0.057	1
CARBON TETRACHLORIDE			1.077	1.023	1.003	0.954	0.946	0.917	0.908	0.906	0.945										0.964343	6.07	0.061	1
1,1-Dichloropropene	0.809	0.972	0.915	0.908	0.963	0.897	0.894	0.872	0.859	0.864	0.89										0.894777	5.16	0.052	1
2,2,4-TRIMETHYLPENTANE	3.814	3.927	3.035	3.184	3.575	3.184	3.418	3.257	3.256	3.266	3.386										3.391044	8.16	0.082	1
HEPTANE	1.351	1.319	1.366	1.326	1.417	1.32	1.335	1.29	1.328	1.323	1.37										1.340449	2.55	0.025	1
BENZENE	2.962	3.002	2.829	2.676	2.761	2.717	2.622	2.604	2.561	2.569	2.644										2.722517	5.57	0.056	1
1,2-DICHLOROETHANE	1.064	1.135	1.163	1.162	1.186	1.134	1.116	1.117	1.124	1.11	1.16										1.13371	2.95	0.029	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.339	0.4	0.383	0.352	0.377	0.372	0.362	0.357	0.351	0.35	0.359										0.363777	4.83	0.048	1
,2-DICHLOROPROPANE	0.294	0.34	0.307	0.313	0.323	0.315	0.306	0.309	0.302	0.302	0.308										0.310832	3.92	0.039	1
DIBROMOMETHANE	0.317	0.302	0.267	0.272	0.282	0.256	0.245	0.252	0.249	0.24	0.248										0.266454	9.39	0.094	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 601-602	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: EPA	Released On	: 10/21/2015 2:42:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.59	0.607	0.605	0.617	0.632	0.625	0.599	0.597	0.591	0.585	0.597										0.604113	2.5	0.025	1
a,a,a-Trifluorotoluene	0.541	0.538	0.536	0.528	0.529	0.527	0.518	0.516	0.489	0.484	0.47										0.516069	4.68	0.047	1
-CHLOROETHYL VINYL ETHER	0.21	0.234	0.232	0.231	0.254	0.222	0.223	0.229	0.242	0.233	0.242										0.23201	5.01	0.05	1
CIS-1,3-DICHLOROPROPENE	0.612	0.709	0.697	0.699	0.709	0.698	0.676	0.684	0.685	0.672	0.689										0.684515	3.94	0.039	1
4-METHYL-2-PENTANONE (MIBK)	0.492	0.542	0.498	0.513	0.616	0.457	0.443	0.474	0.487	0.452	0.452										0.493223	10.24	0.102	1
TOLUENE-D8	1.241	1.234	1.239	1.218	1.221	1.225	1.203	1.208	1.171	1.153	1.137										1.204607	2.94	0.029	1
TOLUENE	1.739	1.693	1.573	1.553	1.6	1.553	1.513	1.515	1.508	1.505	1.526										1.570733	4.99	0.05	1
TRANS-1,3-DICHLOROPROPENE	0.649	0.641	0.646	0.63	0.67	0.633	0.635	0.647	0.669	0.654	0.681										0.650498	2.54	0.025	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.488	1.886	1.731	1.658	1.797	1.636	1.608	1.626	1.665	1.635	1.694										1.674924	6.21	0.062	1
TETRACHLOROETHENE	1.453	1.442	1.349	1.325	1.437	1.354	1.369	1.358	1.377	1.407	1.463										1.394149	3.45	0.035	1
1,3-Dichloropropane	3.089	3.231	3.274	3.158	3.372	3.091	3.087	3.136	3.18	3.131	3.23										3.180003	2.82	0.028	1
2-HEXANONE		1.112	1.035	1.026	1.19	0.843	0.807	0.826	0.863	0.813	0.823										0.933783	15.31	0.153	1
CHLORODIBROMOMETHANE	1.981	2.261	2.225	2.057	2.172	2.061	2.065	2.055	2.1	2.068	2.143										2.108057	3.95	0.04	1
1,2-DIBROMOETHANE	1.882	1.929	1.893	1.776	1.899	1.701	1.688	1.721	1.76	1.714	1.756										1.792784	5.03	0.05	1
CHLOROBENZENE	5.507	5.28	5.232	5.123	5.186	4.991	5.07	5.094	5.173	5.267	5.565										5.226284	3.37	0.034	1
1,1,1,2-TETRACHLOROETHANE	2.55	2.279	1.961	2.042	1.978	1.919	1.918	1.923	1.904	1.921	1.989										2.034874	9.9	0.099	1
ETHYLBENZENE	3.233	2.954	2.782	2.81	2.846	2.714	2.761	2.748	2.779	2.857	3.015										2.863581	5.31	0.053	1
M&P-XYLENE	3.713	3.637	3.34	3.405	3.482	3.403	3.4	3.417	3.443	3.501	3.676										3.492485	3.61	0.036	1
O-XYLENE	4.07	3.581	3.562	3.492	3.448	3.358	3.385	3.385	3.377	3.42	3.569										3.513384	5.76	0.058	1
STYRENE	5.675	5.99	5.914	6.014	5.819	5.789	5.825	5.824	5.851	5.969	6.168										5.8943 8	2.28	0.023	1
Bromoform	0.993	1.408	1.214	1.343	1.38	1.286	1.293	1.336	1.385	1.353	1.412										1.309445	9.18	0.092	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 601-602	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: EPA	Released On	: 10/21/2015 2:42:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.448	9.416	8.997	9.005	9.608	9.004	9.195	9.191	9.114	9.212	9.532										9.156566	3.44	0.034	1
4-BROMOFLUOROBENZENE	2.848	2.832	2.802	2.757	2.741	2.719	2.755	2.77	2.743	2.755	2.705										2.766171	1.61	0.016	1
Bromobenzene	5.071	5.11	4.76	4.976	4.796	4.69	4.681	4.712	4.741	4.811	4.998										4.84958	3.27	0.033	1
1,1,2,2-TETRACHLOROETHANE	2.598	2.791	2.776	2.597	2.834	2.414	2.393	2.485	2.506	2.424	2.484										2.573009	6.25	0.062	1
1,2,3-TRICHLOROPROPANE			0.909	0.87	0.856	0.705	0.687	0.723	0.722	0.689	0.714										0.763658	11.5	0.115	1
TRANS-1,4-DICHLORO-2-BUTENE	0.955	0.924	1.027	1.083	1.114	0.839	0.861	0.847	0.906	0.875	0.91										0.940155	10.1	0.101	1
n-Propylbenzene	12.09	12.58	11.43	11.4	11.8	11.44	11.55	11.43	11.41	11.67	11.85										11.69557	3.16	0.032	1
4-ETHYLTOLUENE	9.96	10.12	9.18	9.2	9.5	9.22	9.4	9.27	9.27	9.37	9.55										9.45948	3.31	0.033	1
2-Chlorotoluene	2.138	2.194	2.221	2.122	2.178	2.103	2.144	2.155	2.165	2.227	2.344										2.181073	3.05	0.031	1
4-Chlorotoluene	8.304	7.579	7.202	7.292	7.367	7.295	7.278	7.24	7.115	7.275	7.352										7.390901	4.39	0.044	1
1,3,5-Trimethylbenzene	8.487	8.109	7.914	7.858	8.222	8.035	8.104	8.129	8.058	8.259	8.562										8.157918	2.65	0.026	1
tert-Butylbenzene	6.958	7.074	6.623	6.306	6.573	6.452	6.55	6.477	6.362	6.425	6.604										6.582146	3.61	0.036	1
1,2,4-Trimethylbenzene	8.33	8.701	8.252	8.108	8.319	8.235	8.167	8.222	7.984	8.136	8.254										8.246235	2.19	0.022	1
sec-Butylbenzene	10.19	10.49	9.940001	10.41	10.73	10.35	10.5	10.31	10.18	10.22	10.36										10.33564	2.01	0.02	1
1,3-DICHLOROBENZENE	4.489	4.581	4.506	4.43	4.305	4.299	4.309	4.293	4.257	4.326	4.4										4.381422	2.44	0.024	1
p-Isopropyltoluene	9.756	9.1	8.474	8.212	8.702	8.562	8.673	8.553	8.453	8.64	8.91										8.730222	4.73	0.047	1
DICYCLOPENTADIENE	11.21	11.88	11.14	11.19	11.54	11.37	11.46	11.49	11.15	11.23	11.48										11.37733	1.96	0.02	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.055	1.851	1.702	1.673	1.628	1.665	1.591	1.603	1.618	1.638	1.658										1.698484	8.1	0.081	1
1,2,3-TRIMETHYLBENZENE	3.429	3.751	3.143	3.303	3.273	3.313	3.184	3.216	3.213	3.216	3.221										3.29651	5.14	0.051	1
1,2-DICHLOROBENZENE	1.483	1.586	1.543	1.58	1.547	1.547	1.469	1.494	1.491	1.48	1.473										1.517567	2.88	0.029	1
n-Butylbenzene	3.623	3.68	3.496	3.269	3.55	3.378	3.302	3.218	3.228	3.212	3.16										3.374048	5.43	0.054	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 601-602	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: EPA	Released On	: 10/21/2015 2:42:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane		0.178	0.194	0.187	0.237	0.175	0.164	0.17	0.173	0.16	0.159										0.179637	12.93	0.129	1
1,2,4-Trichlorobenzene	1.185	1.213	1.069	1.067	1.045	1.055	0.976	0.988	0.959	0.951	0.913										1.038324	9.14	0.091	1
HEXACHLORO-1,3-BUTADIENE	0.472	0.549	0.56	0.573	0.563	0.554	0.525	0.52	0.497	0.491	0.473										0.525338	7.06	0.071	1
Naphthalene				2.878	3.06	2.617	2.381	2.527	2.506	2.387	2.276										2.57918	10.35	0.103	1
1,2,3-Trichlorobenzene	1.195	1.068	0.98	1.04	1.012	0.985	0.898	0.926	0.89	0.874	0.822										0.971851	10.88	0.109	1
1-Methylnaphthalene		1.984	1.766	1.649	1.792	1.59	1.424	1.51	1.435	1.394	1.223										1.576888	14.34	0.143	1
2-Methylnaphthalene		1.585	1.401	1.424	1.56	1.325	1.186	1.256	1.189	1.129	0.981										1.30368	14.76	0.148	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL																					0	0	0	1
Bromoethane												0.676	0.64	0.634	0.603	0.628	0.619	0.606	0.595	0.595	0.621733	4.21	0.042	1
2-PROPANOL												0.062	0.057	0.056	0.058	0.065	0.05	0.052	0.05	0.052	0.05585	9.73	0.097	1
Methyl Acetate												0.573	0.606	0.59	0.613	0.602	0.569	0.566	0.561	0.582	0.584783	3.26	0.033	1
ACETONITRILE												0.088	0.091	0.091	0.091	0.094	0.088	0.085	0.086	0.087	0.089296	3.33	0.033	1
ALLYL CHLORIDE												0.391	0.367	0.361	0.351	0.363	0.366	0.357	0.352	0.355	0.362766	3.35	0.034	1
tert-BUTYL ALCOHOL												0.096	0.105	0.103	0.106	0.104	0.09	0.088	0.088	0.093	0.097106	7.73	0.077	1
chloroprene												1.439	1.37	1.339	1.307	1.364	1.379	1.304	1.305	1.281	1.34323	3.72	0.037	1
ETHYL TERT-BUTYL ETHER												2.781	2.827	2.65	2.631	2.706	2.705	2.612	2.569	2.624	2.678372	3.14	0.031	1
PROPIONITRILE												0.096	0.103	0.101	0.105	0.107	0.099	0.1	0.1	0.105	0.101837	3.4	0.034	1
Ethyl Acetate												0.722	0.774	0.735	0.785	0.777	0.743	0.727	0.72	0.749	0.747966	3.37	0.034	1
METHACRYLONITRILE												0.277	0.292	0.283	0.297	0.301	0.292	0.29	0.291	0.304	0.291872	2.87	0.029	1
Cyclohexane												2.296	2.03	1.975	1.904	1.937	1.994	1.87	1.866	1.86	1.970232	6.93	0.069	1
tert-butyl formate												0.779	0.849	0.803	0.808	0.814	0.79	0.795	0.787	0.791	0.801675	2.62	0.026	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 601-602	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: EPA	Released On	: 10/21/2015 2:42:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.047	0.056	0.053	0.057	0.058	0.053	0.053	0.054	0.056	0.054186	5.89	0.059	1
I-Amyl Alcohol												0.072	0.078	0.071	0.078	0.075	0.066	0.069	0.067	0.07	0.071893	6.26	0.063	1
TERT-AMYL METHYL ETHER												2.98	2.959	2.84	2.9	3.013	2.955	2.929	2.955	2.99	2.946814	1.76	0.018	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.013	0.014	0.013	0.014	0.014	0.012	0.012	0.013	0.013	0.013066	5.11	0.051	1
Methyl Cyclohexane												1.661	1.188	1.058	0.965	0.988	0.96	0.913	0.932	0.909	1.063826	22.61	0.999	0
2-nitropropane												0.149	0.169	0.157	0.171	0.166	0.156	0.155	0.157	0.164	0.160254	4.63	0.046	1
METHYL METHACRYLATE												0.453	0.468	0.448	0.476	0.462	0.454	0.442	0.448	0.461	0.456895	2.35	0.024	1
1,4-DIOXANE												0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.004	0.003785	6.05	0.06	1
n-octane												0.385	0.35	0.353	0.348	0.359	0.358	0.331	0.338	0.333	0.350669	4.72	0.047	1
3,3-DIMETHYL-1-BUTANOL												0.064	0.065	0.059	0.064	0.063	0.054	0.055	0.056	0.058	0.059722	7.59	0.076	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.536	2.665	2.441	2.614	2.566	2.53	2.455	2.478	2.508	2.532618	2.91	0.029	1
CIS-1,4-DICHLORO-2-BUTENE												0.789	0.839	0.79	0.857	0.845	0.812	0.816	0.816	0.84	0.822878	2.93	0.029	1
Cyclohexanone												0.205	0.165	0.157	0.163	0.168	0.15	0.144	0.15	0.154	0.161726	11.16	0.112	1
PENTACHLOROETHANE												1.232	1.448	1.374	1.394	1.264	1.238	1.403	1.36	1.247	1.328916	6.27	0.063	1
Hexachloroethane												1.743	1.751	1.686	1.62	1.737	1.698	1.672	1.704	1.632	1.693786	2.76	0.028	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 624	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: EPA	Released On	: 10/21/2015 2:43:09 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE			0.279	0.25	0.229	0.189	0.166	0.169	0.151	0.151	0.153										0.193021	24.88	0.998	0
DICHLORODIFLUOROMETHANE	0.797	0.589	0.643	0.578	0.763	0.688	0.68	0.68	0.635	0.641	0.656										0.668234	9.84	0.098	1
CHLOROMETHANE		1.278	1.067	1.016	1.019	0.957	0.901	0.914	0.874	0.879	0.891										0.979677	12.7	0.127	1
VINYL CHLORIDE	0.954	1.03	1.023	0.988	1.05	0.997	0.952	0.957	0.907	0.908	0.919										0.971356	5.15	0.052	1
1,3-BUTADIENE			1.201	1.05	1.021	0.95	0.871	0.857	0.819	0.808	0.812										0.932018	14.5	0.145	1
BROMOMETHANE	0.582	0.654	0.587	0.663	0.645	0.617	0.589	0.6	0.576	0.577	0.61										0.609138	5.21	0.052	1
CHLOROETHANE	0.687	0.718	0.702	0.625	0.662	0.632	0.611	0.615	0.593	0.598	0.613										0.641442	6.79	0.068	1
TRICHLOROFLUOROMETHANE	1.522	1.498	1.252	1.246	1.309	1.25	1.212	1.206	1.164	1.156	1.192										1.273395	9.82	0.098	1
DICHLOROFLUOROMETHANE	1.318	1.589	1.651	1.625	1.697	1.655	1.579	1.572	1.508	1.506	1.546										1.567623	6.53	0.065	1
ETHYL ETHER	0.926	0.917	0.797	0.766	0.798	0.758	0.739	0.741	0.734	0.712	0.733										0.783644	9.32	0.093	1
ACROLEIN					0.023	0.015	0.014	0.013	0.012	0.012	0.012										0.014412	28.83	0.998	0
1,1-DICHLOROETHENE	1.339	1.552	1.364	1.37	1.417	1.338	1.269	1.256	1.238	1.169	1.276										1.32621	7.77	0.078	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.594	0.776	0.594	0.616	0.667	0.689	0.597	0.598	0.604	0.563	0.654										0.631868	9.62	0.096	1
ACETONE	0.568	0.384	0.317	0.281	0.32	0.206	0.199	0.225	0.224	0.219	0.22										0.287611	38.38	0.997	0
IODOMETHANE	0.861	0.98	0.939	0.971	1.003	0.984	0.958	0.974	0.957	0.978	1.033										0.967107	4.47	0.045	1
CARBON DISULFIDE	2.315	2.437	2.16	2.169	2.261	2.406	2.072	2.065	2.06	1.992	2.256										2.199222	6.73	0.067	1
METHYLENE CHLORIDE			0.903	0.79	0.754	0.734	0.695	0.692	0.671	0.675	0.695										0.734274	10.15	0.101	1
ACRYLONITRILE	0.266	0.28	0.267	0.261	0.35	0.247	0.239	0.251	0.258	0.243	0.253										0.264858	11.53	0.115	1
n-Hexane		0.773	0.662	0.667	0.686	0.629	0.624	0.605	0.608	0.607	0.629										0.649109	7.97	0.08	1
TRANS-1,2-DICHLOROETHENE	0.689	0.715	0.679	0.621	0.696	0.66	0.637	0.623	0.614	0.62	0.639										0.653754	5.44	0.054	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 624	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: EPA	Released On	: 10/21/2015 2:43:09 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.06	2.201	2.064	2.184	2.246	2.09	2.018	2.059	2.051	1.994	2.067										2.094102	3.83	0.038	1
,1-DICHLOROETHANE	1.321	1.453	1.378	1.402	1.415	1.39	1.356	1.334	1.301	1.299	1.345										1.363098	3.61	0.036	1
VINYL ACETATE	1.62	1.689	1.697	1.775	1.874	1.53	1.477	1.57	1.5	1.454	1.337										1.59311	9.81	0.098	1
DI-ISOPROPYL ETHER	2.924	3.044	2.948	2.916	2.903	2.921	2.855	2.844	2.8	2.799	2.842										2.890555	2.5	0.025	1
2,2-Dichloropropane	1.054	1.17	1.098	0.914	0.975	0.96	0.904	0.903	0.834	0.83	0.793										0.948677	12.46	0.125	1
CIS-1,2-DICHLOROETHENE	0.751	0.818	0.752	0.763	0.745	0.762	0.706	0.722	0.703	0.695	0.725										0.740099	4.8	0.048	1
-BUTANONE (MEK)			0.407	0.395	0.491	0.336	0.32	0.339	0.346	0.34	0.334										0.367562	14.89	0.149	1
BROMOCHLOROMETHANE	0.401	0.443	0.437	0.433	0.437	0.411	0.412	0.412	0.404	0.401	0.42										0.419163	3.76	0.038	1
TETRAHYDROFURAN	0.36	0.382	0.375	0.341	0.377	0.24	0.23	0.244	0.257	0.239	0.247										0.299454	22.07	0.996	0
CHLOROFORM	1.246	1.451	1.334	1.349	1.348	1.357	1.294	1.289	1.254	1.261	1.299										1.316691	4.54	0.045	1
DIBROMOFLUOROMETHANE	0.618	0.626	0.621	0.622	0.626	0.622	0.619	0.626	0.605	0.603	0.621										0.618921	1.28	0.013	1
1,1,1-TRICHLOROETHANE	0.866	1.079	1.029	1.027	1.083	1.033	1.034	1.018	0.991	0.987	1.014										1.014628	5.69	0.057	1
CARBON TETRACHLORIDE			1.077	1.023	1.003	0.954	0.946	0.917	0.908	0.906	0.945										0.964343	6.07	0.061	1
1,1-Dichloropropene	0.809	0.972	0.915	0.908	0.963	0.897	0.894	0.872	0.859	0.864	0.89										0.894777	5.16	0.052	1
2,2,4-TRIMETHYLPENTANE	3.814	3.927	3.035	3.184	3.575	3.184	3.418	3.257	3.256	3.266	3.386										3.391044	8.16	0.082	1
HEPTANE	1.351	1.319	1.366	1.326	1.417	1.32	1.335	1.29	1.328	1.323	1.37										1.340449	2.55	0.025	1
BENZENE	2.962	3.002	2.829	2.676	2.761	2.717	2.622	2.604	2.561	2.569	2.644										2.722517	5.57	0.056	1
1,2-DICHLOROETHANE	1.064	1.135	1.163	1.162	1.186	1.134	1.116	1.117	1.124	1.11	1.16										1.13371	2.95	0.029	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.339	0.4	0.383	0.352	0.377	0.372	0.362	0.357	0.351	0.35	0.359										0.363777	4.83	0.048	1
,2-DICHLOROPROPANE	0.294	0.34	0.307	0.313	0.323	0.315	0.306	0.309	0.302	0.302	0.308										0.310832	3.92	0.039	1
DIBROMOMETHANE	0.317	0.302	0.267	0.272	0.282	0.256	0.245	0.252	0.249	0.24	0.248										0.266454	9.39	0.094	1

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INITIAL CALIBRATION SUMMARY

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Method	: V835J21O	Review Protocol	: EPA	Released On	: 10/21/2015 2:43:09 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.59	0.607	0.605	0.617	0.632	0.625	0.599	0.597	0.591	0.585	0.597										0.604113	2.5	0.025	1
a,a,a-Trifluorotoluene	0.541	0.538	0.536	0.528	0.529	0.527	0.518	0.516	0.489	0.484	0.47										0.516069	4.68	0.047	1
-CHLOROETHYL VINYL ETHER	0.21	0.234	0.232	0.231	0.254	0.222	0.223	0.229	0.242	0.233	0.242										0.23201	5.01	0.05	1
CIS-1,3-DICHLOROPROPENE	0.612	0.709	0.697	0.699	0.709	0.698	0.676	0.684	0.685	0.672	0.689										0.684515	3.94	0.039	1
4-METHYL-2-PENTANONE (MIBK)	0.492	0.542	0.498	0.513	0.616	0.457	0.443	0.474	0.487	0.452	0.452										0.493223	10.24	0.102	1
TOLUENE-D8	1.241	1.234	1.239	1.218	1.221	1.225	1.203	1.208	1.171	1.153	1.137										1.204607	2.94	0.029	1
TOLUENE	1.739	1.693	1.573	1.553	1.6	1.553	1.513	1.515	1.508	1.505	1.526										1.570733	4.99	0.05	1
TRANS-1,3-DICHLOROPROPENE	0.649	0.641	0.646	0.63	0.67	0.633	0.635	0.647	0.669	0.654	0.681										0.650498	2.54	0.025	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.488	1.886	1.731	1.658	1.797	1.636	1.608	1.626	1.665	1.635	1.694										1.674924	6.21	0.062	1
TETRACHLOROETHENE	1.453	1.442	1.349	1.325	1.437	1.354	1.369	1.358	1.377	1.407	1.463										1.394149	3.45	0.035	1
1,3-Dichloropropane	3.089	3.231	3.274	3.158	3.372	3.091	3.087	3.136	3.18	3.131	3.23										3.180003	2.82	0.028	1
2-HEXANONE		1.112	1.035	1.026	1.19	0.843	0.807	0.826	0.863	0.813	0.823										0.933783	15.31	0.153	1
CHLORODIBROMOMETHANE	1.981	2.261	2.225	2.057	2.172	2.061	2.065	2.055	2.1	2.068	2.143										2.108057	3.95	0.04	1
1,2-DIBROMOETHANE	1.882	1.929	1.893	1.776	1.899	1.701	1.688	1.721	1.76	1.714	1.756										1.792784	5.03	0.05	1
CHLOROBENZENE	5.507	5.28	5.232	5.123	5.186	4.991	5.07	5.094	5.173	5.267	5.565										5.226284	3.37	0.034	1
1,1,1,2-TETRACHLOROETHANE	2.55	2.279	1.961	2.042	1.978	1.919	1.918	1.923	1.904	1.921	1.989										2.034874	9.9	0.099	1
ETHYLBENZENE	3.233	2.954	2.782	2.81	2.846	2.714	2.761	2.748	2.779	2.857	3.015										2.863581	5.31	0.053	1
M&P-XYLENE	3.713	3.637	3.34	3.405	3.482	3.403	3.4	3.417	3.443	3.501	3.676										3.492485	3.61	0.036	1
O-XYLENE	4.07	3.581	3.562	3.492	3.448	3.358	3.385	3.385	3.377	3.42	3.569										3.513384	5.76	0.058	1
STYRENE	5.675	5.99	5.914	6.014	5.819	5.789	5.825	5.824	5.851	5.969	6.168										5.8943 8	2.28	0.023	1
Bromoform	0.993	1.408	1.214	1.343	1.38	1.286	1.293	1.336	1.385	1.353	1.412										1.309445	9.18	0.092	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 624	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: EPA	Released On	: 10/21/2015 2:43:09 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.448	9.416	8.997	9.005	9.608	9.004	9.195	9.191	9.114	9.212	9.532										9.156566	3.44	0.034	1
4-BROMOFLUOROBENZENE	2.848	2.832	2.802	2.757	2.741	2.719	2.755	2.77	2.743	2.755	2.705										2.766171	1.61	0.016	1
Bromobenzene	5.071	5.11	4.76	4.976	4.796	4.69	4.681	4.712	4.741	4.811	4.998										4.84958	3.27	0.033	1
1,1,2,2-TETRACHLOROETHANE	2.598	2.791	2.776	2.597	2.834	2.414	2.393	2.485	2.506	2.424	2.484										2.573009	6.25	0.062	1
1,2,3-TRICHLOROPROPANE			0.909	0.87	0.856	0.705	0.687	0.723	0.722	0.689	0.714										0.763658	11.5	0.115	1
TRANS-1,4-DICHLORO-2-BUTENE	0.955	0.924	1.027	1.083	1.114	0.839	0.861	0.847	0.906	0.875	0.91										0.940155	10.1	0.101	1
n-Propylbenzene	12.09	12.58	11.43	11.4	11.8	11.44	11.55	11.43	11.41	11.67	11.85										11.69557	3.16	0.032	1
4-ETHYLTOLUENE	9.96	10.12	9.18	9.2	9.5	9.22	9.4	9.27	9.27	9.37	9.55										9.45948	3.31	0.033	1
2-Chlorotoluene	2.138	2.194	2.221	2.122	2.178	2.103	2.144	2.155	2.165	2.227	2.344										2.181073	3.05	0.031	1
4-Chlorotoluene	8.304	7.579	7.202	7.292	7.367	7.295	7.278	7.24	7.115	7.275	7.352										7.390901	4.39	0.044	1
1,3,5-Trimethylbenzene	8.487	8.109	7.914	7.858	8.222	8.035	8.104	8.129	8.058	8.259	8.562										8.157918	2.65	0.026	1
tert-Butylbenzene	6.958	7.074	6.623	6.306	6.573	6.452	6.55	6.477	6.362	6.425	6.604										6.582146	3.61	0.036	1
1,2,4-Trimethylbenzene	8.33	8.701	8.252	8.108	8.319	8.235	8.167	8.222	7.984	8.136	8.254										8.246235	2.19	0.022	1
sec-Butylbenzene	10.19	10.49	9.940001	10.41	10.73	10.35	10.5	10.31	10.18	10.22	10.36										10.33564	2.01	0.02	1
1,3-DICHLOROBENZENE	4.489	4.581	4.506	4.43	4.305	4.299	4.309	4.293	4.257	4.326	4.4										4.381422	2.44	0.024	1
p-Isopropyltoluene	9.756	9.1	8.474	8.212	8.702	8.562	8.673	8.553	8.453	8.64	8.91										8.730222	4.73	0.047	1
DICYCLOPENTADIENE	11.21	11.88	11.14	11.19	11.54	11.37	11.46	11.49	11.15	11.23	11.48										11.37733	1.96	0.02	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.055	1.851	1.702	1.673	1.628	1.665	1.591	1.603	1.618	1.638	1.658										1.698484	8.1	0.081	1
1,2,3-TRIMETHYLBENZENE	3.429	3.751	3.143	3.303	3.273	3.313	3.184	3.216	3.213	3.216	3.221										3.29651	5.14	0.051	1
1,2-DICHLOROBENZENE	1.483	1.586	1.543	1.58	1.547	1.547	1.469	1.494	1.491	1.48	1.473										1.517567	2.88	0.029	1
n-Butylbenzene	3.623	3.68	3.496	3.269	3.55	3.378	3.302	3.218	3.228	3.212	3.16										3.374048	5.43	0.054	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 624	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: EPA	Released On	: 10/21/2015 2:43:09 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane		0.178	0.194	0.187	0.237	0.175	0.164	0.17	0.173	0.16	0.159										0.179637	12.93	0.129	1
1,2,4-Trichlorobenzene	1.185	1.213	1.069	1.067	1.045	1.055	0.976	0.988	0.959	0.951	0.913										1.038324	9.14	0.091	1
HEXACHLORO-1,3-BUTADIENE	0.472	0.549	0.56	0.573	0.563	0.554	0.525	0.52	0.497	0.491	0.473										0.525338	7.06	0.071	1
Naphthalene				2.878	3.06	2.617	2.381	2.527	2.506	2.387	2.276										2.57918	10.35	0.103	1
1,2,3-Trichlorobenzene	1.195	1.068	0.98	1.04	1.012	0.985	0.898	0.926	0.89	0.874	0.822										0.971851	10.88	0.109	1
1-Methylnaphthalene		1.984	1.766	1.649	1.792	1.59	1.424	1.51	1.435	1.394	1.223										1.576888	14.34	0.143	1
2-Methylnaphthalene		1.585	1.401	1.424	1.56	1.325	1.186	1.256	1.189	1.129	0.981										1.30368	14.76	0.148	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL																					0	0	0	1
Bromoethane												0.676	0.64	0.634	0.603	0.628	0.619	0.606	0.595	0.595	0.621733	4.21	0.042	1
2-PROPANOL												0.062	0.057	0.056	0.058	0.065	0.05	0.052	0.05	0.052	0.05585	9.73	0.097	1
Methyl Acetate												0.573	0.606	0.59	0.613	0.602	0.569	0.566	0.561	0.582	0.584783	3.26	0.033	1
ACETONITRILE												0.088	0.091	0.091	0.091	0.094	0.088	0.085	0.086	0.087	0.089296	3.33	0.033	1
ALLYL CHLORIDE												0.391	0.367	0.361	0.351	0.363	0.366	0.357	0.352	0.355	0.362766	3.35	0.034	1
tert-BUTYL ALCOHOL												0.096	0.105	0.103	0.106	0.104	0.09	0.088	0.088	0.093	0.097106	7.73	0.077	1
chloroprene												1.439	1.37	1.339	1.307	1.364	1.379	1.304	1.305	1.281	1.34323	3.72	0.037	1
ETHYL TERT-BUTYL ETHER												2.781	2.827	2.65	2.631	2.706	2.705	2.612	2.569	2.624	2.678372	3.14	0.031	1
PROPIONITRILE												0.096	0.103	0.101	0.105	0.107	0.099	0.1	0.1	0.105	0.101837	3.4	0.034	1
Ethyl Acetate												0.722	0.774	0.735	0.785	0.777	0.743	0.727	0.72	0.749	0.747966	3.37	0.034	1
METHACRYLONITRILE												0.277	0.292	0.283	0.297	0.301	0.292	0.29	0.291	0.304	0.291872	2.87	0.029	1
Cyclohexane												2.296	2.03	1.975	1.904	1.937	1.994	1.87	1.866	1.86	1.970232	6.93	0.069	1
tert-butyl formate												0.779	0.849	0.803	0.808	0.814	0.79	0.795	0.787	0.791	0.801675	2.62	0.026	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 624	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: EPA	Released On	: 10/21/2015 2:43:09 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.047	0.056	0.053	0.057	0.058	0.053	0.053	0.054	0.056	0.054186	5.89	0.059	1
I-Amyl Alcohol												0.072	0.078	0.071	0.078	0.075	0.066	0.069	0.067	0.07	0.071893	6.26	0.063	1
TERT-AMYL METHYL ETHER												2.98	2.959	2.84	2.9	3.013	2.955	2.929	2.955	2.99	2.946814	1.76	0.018	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.013	0.014	0.013	0.014	0.014	0.012	0.012	0.013	0.013	0.013066	5.11	0.051	1
Methyl Cyclohexane												1.661	1.188	1.058	0.965	0.988	0.96	0.913	0.932	0.909	1.063826	22.61	0.999	0
2-nitropropane												0.149	0.169	0.157	0.171	0.166	0.156	0.155	0.157	0.164	0.160254	4.63	0.046	1
METHYL METHACRYLATE												0.453	0.468	0.448	0.476	0.462	0.454	0.442	0.448	0.461	0.456895	2.35	0.024	1
1,4-DIOXANE												0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.004	0.003785	6.05	0.06	1
n-octane												0.385	0.35	0.353	0.348	0.359	0.358	0.331	0.338	0.333	0.350669	4.72	0.047	1
3,3-DIMETHYL-1-BUTANOL												0.064	0.065	0.059	0.064	0.063	0.054	0.055	0.056	0.058	0.059722	7.59	0.076	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.536	2.665	2.441	2.614	2.566	2.53	2.455	2.478	2.508	2.532618	2.91	0.029	1
CIS-1,4-DICHLORO-2-BUTENE												0.789	0.839	0.79	0.857	0.845	0.812	0.816	0.816	0.84	0.822878	2.93	0.029	1
Cyclohexanone												0.205	0.165	0.157	0.163	0.168	0.15	0.144	0.15	0.154	0.161726	11.16	0.112	1
PENTACHLOROETHANE												1.232	1.448	1.374	1.394	1.264	1.238	1.403	1.36	1.247	1.328916	6.27	0.063	1
Hexachloroethane												1.743	1.751	1.686	1.62	1.737	1.698	1.672	1.704	1.632	1.693786	2.76	0.028	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260SC	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: SC	Released On	: 10/21/2015 2:43:37 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE			0.279	0.25	0.229	0.189	0.166	0.169	0.151	0.151	0.153										0.193021	24.88	0.998	0
DICHLORODIFLUOROMETHANE	0.797	0.589	0.643	0.578	0.763	0.688	0.68	0.68	0.635	0.641	0.656										0.668234	9.84	0.098	1
CHLOROMETHANE		1.278	1.067	1.016	1.019	0.957	0.901	0.914	0.874	0.879	0.891										0.979677	12.7	0.127	1
VINYL CHLORIDE	0.954	1.03	1.023	0.988	1.05	0.997	0.952	0.957	0.907	0.908	0.919										0.971356	5.15	0.052	1
1,3-BUTADIENE			1.201	1.05	1.021	0.95	0.871	0.857	0.819	0.808	0.812										0.932018	14.5	0.145	1
BROMOMETHANE	0.582	0.654	0.587	0.663	0.645	0.617	0.589	0.6	0.576	0.577	0.61										0.609138	5.21	0.052	1
CHLOROETHANE	0.687	0.718	0.702	0.625	0.662	0.632	0.611	0.615	0.593	0.598	0.613										0.641442	6.79	0.068	1
TRICHLOROFLUOROMETHANE	1.522	1.498	1.252	1.246	1.309	1.25	1.212	1.206	1.164	1.156	1.192										1.273395	9.82	0.098	1
DICHLOROFLUOROMETHANE	1.318	1.589	1.651	1.625	1.697	1.655	1.579	1.572	1.508	1.506	1.546										1.567623	6.53	0.065	1
ETHYL ETHER	0.926	0.917	0.797	0.766	0.798	0.758	0.739	0.741	0.734	0.712	0.733										0.783644	9.32	0.093	1
ACROLEIN					0.023	0.015	0.014	0.013	0.012	0.012	0.012										0.014412	28.83	0.998	0
1,1-DICHLOROETHENE	1.339	1.552	1.364	1.37	1.417	1.338	1.269	1.256	1.238	1.169	1.276										1.32621	7.77	0.078	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.594	0.776	0.594	0.616	0.667	0.689	0.597	0.598	0.604	0.563	0.654										0.631868	9.62	0.096	1
ACETONE	0.568	0.384	0.317	0.281	0.32	0.206	0.199	0.225	0.224	0.219	0.22										0.287611	38.38	0.997	0
IODOMETHANE	0.861	0.98	0.939	0.971	1.003	0.984	0.958	0.974	0.957	0.978	1.033										0.967107	4.47	0.045	1
CARBON DISULFIDE	2.315	2.437	2.16	2.169	2.261	2.406	2.072	2.065	2.06	1.992	2.256										2.199222	6.73	0.067	1
METHYLENE CHLORIDE			0.903	0.79	0.754	0.734	0.695	0.692	0.671	0.675	0.695										0.734274	10.15	0.101	1
ACRYLONITRILE	0.266	0.28	0.267	0.261	0.35	0.247	0.239	0.251	0.258	0.243	0.253										0.264858	11.53	0.115	1
n-Hexane		0.773	0.662	0.667	0.686	0.629	0.624	0.605	0.608	0.607	0.629										0.649109	7.97	0.08	1
TRANS-1,2-DICHLOROETHENE	0.689	0.715	0.679	0.621	0.696	0.66	0.637	0.623	0.614	0.62	0.639										0.653754	5.44	0.054	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260SC	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: SC	Released On	: 10/21/2015 2:43:37 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.06	2.201	2.064	2.184	2.246	2.09	2.018	2.059	2.051	1.994	2.067										2.094102	3.83	0.038	1
,1-DICHLOROETHANE	1.321	1.453	1.378	1.402	1.415	1.39	1.356	1.334	1.301	1.299	1.345										1.363098	3.61	0.036	1
VINYL ACETATE	1.62	1.689	1.697	1.775	1.874	1.53	1.477	1.57	1.5	1.454	1.337										1.59311	9.81	0.098	1
DI-ISOPROPYL ETHER	2.924	3.044	2.948	2.916	2.903	2.921	2.855	2.844	2.8	2.799	2.842										2.890555	2.5	0.025	1
2,2-Dichloropropane	1.054	1.17	1.098	0.914	0.975	0.96	0.904	0.903	0.834	0.83	0.793										0.948677	12.46	0.125	1
CIS-1,2-DICHLOROETHENE	0.751	0.818	0.752	0.763	0.745	0.762	0.706	0.722	0.703	0.695	0.725										0.740099	4.8	0.048	1
-BUTANONE (MEK)			0.407	0.395	0.491	0.336	0.32	0.339	0.346	0.34	0.334										0.367562	14.89	0.149	1
BROMOCHLOROMETHANE	0.401	0.443	0.437	0.433	0.437	0.411	0.412	0.412	0.404	0.401	0.42										0.419163	3.76	0.038	1
TETRAHYDROFURAN	0.36	0.382	0.375	0.341	0.377	0.24	0.23	0.244	0.257	0.239	0.247										0.299454	22.07	0.996	0
CHLOROFORM	1.246	1.451	1.334	1.349	1.348	1.357	1.294	1.289	1.254	1.261	1.299										1.316691	4.54	0.045	1
DIBROMOFLUOROMETHANE	0.618	0.626	0.621	0.622	0.626	0.622	0.619	0.626	0.605	0.603	0.621										0.618921	1.28	0.013	1
1,1,1-TRICHLOROETHANE	0.866	1.079	1.029	1.027	1.083	1.033	1.034	1.018	0.991	0.987	1.014										1.014628	5.69	0.057	1
CARBON TETRACHLORIDE			1.077	1.023	1.003	0.954	0.946	0.917	0.908	0.906	0.945										0.964343	6.07	0.061	1
1,1-Dichloropropene	0.809	0.972	0.915	0.908	0.963	0.897	0.894	0.872	0.859	0.864	0.89										0.894777	5.16	0.052	1
2,2,4-TRIMETHYLPENTANE	3.814	3.927	3.035	3.184	3.575	3.184	3.418	3.257	3.256	3.266	3.386										3.391044	8.16	0.082	1
HEPTANE	1.351	1.319	1.366	1.326	1.417	1.32	1.335	1.29	1.328	1.323	1.37										1.340449	2.55	0.025	1
BENZENE	2.962	3.002	2.829	2.676	2.761	2.717	2.622	2.604	2.561	2.569	2.644										2.722517	5.57	0.056	1
1,2-DICHLOROETHANE	1.064	1.135	1.163	1.162	1.186	1.134	1.116	1.117	1.124	1.11	1.16										1.13371	2.95	0.029	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.339	0.4	0.383	0.352	0.377	0.372	0.362	0.357	0.351	0.35	0.359										0.363777	4.83	0.048	1
,2-DICHLOROPROPANE	0.294	0.34	0.307	0.313	0.323	0.315	0.306	0.309	0.302	0.302	0.308										0.310832	3.92	0.039	1
DIBROMOMETHANE	0.317	0.302	0.267	0.272	0.282	0.256	0.245	0.252	0.249	0.24	0.248										0.266454	9.39	0.094	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260SC	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: SC	Released On	: 10/21/2015 2:43:37 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.59	0.607	0.605	0.617	0.632	0.625	0.599	0.597	0.591	0.585	0.597										0.604113	2.5	0.025	1
a,a,a-Trifluorotoluene	0.541	0.538	0.536	0.528	0.529	0.527	0.518	0.516	0.489	0.484	0.47										0.516069	4.68	0.047	1
-CHLOROETHYL VINYL ETHER	0.21	0.234	0.232	0.231	0.254	0.222	0.223	0.229	0.242	0.233	0.242										0.23201	5.01	0.05	1
CIS-1,3-DICHLOROPROPENE	0.612	0.709	0.697	0.699	0.709	0.698	0.676	0.684	0.685	0.672	0.689										0.684515	3.94	0.039	1
4-METHYL-2-PENTANONE (MIBK)	0.492	0.542	0.498	0.513	0.616	0.457	0.443	0.474	0.487	0.452	0.452										0.493223	10.24	0.102	1
TOLUENE-D8	1.241	1.234	1.239	1.218	1.221	1.225	1.203	1.208	1.171	1.153	1.137										1.204607	2.94	0.029	1
TOLUENE	1.739	1.693	1.573	1.553	1.6	1.553	1.513	1.515	1.508	1.505	1.526										1.570733	4.99	0.05	1
TRANS-1,3-DICHLOROPROPENE	0.649	0.641	0.646	0.63	0.67	0.633	0.635	0.647	0.669	0.654	0.681										0.650498	2.54	0.025	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.488	1.886	1.731	1.658	1.797	1.636	1.608	1.626	1.665	1.635	1.694										1.674924	6.21	0.062	1
TETRACHLOROETHENE	1.453	1.442	1.349	1.325	1.437	1.354	1.369	1.358	1.377	1.407	1.463										1.394149	3.45	0.035	1
1,3-Dichloropropane	3.089	3.231	3.274	3.158	3.372	3.091	3.087	3.136	3.18	3.131	3.23										3.180003	2.82	0.028	1
2-HEXANONE		1.112	1.035	1.026	1.19	0.843	0.807	0.826	0.863	0.813	0.823										0.933783	15.31	0.153	1
CHLORODIBROMOMETHANE	1.981	2.261	2.225	2.057	2.172	2.061	2.065	2.055	2.1	2.068	2.143										2.108057	3.95	0.04	1
1,2-DIBROMOETHANE	1.882	1.929	1.893	1.776	1.899	1.701	1.688	1.721	1.76	1.714	1.756										1.792784	5.03	0.05	1
CHLOROBENZENE	5.507	5.28	5.232	5.123	5.186	4.991	5.07	5.094	5.173	5.267	5.565										5.226284	3.37	0.034	1
1,1,1,2-TETRACHLOROETHANE	2.55	2.279	1.961	2.042	1.978	1.919	1.918	1.923	1.904	1.921	1.989										2.034874	9.9	0.099	1
ETHYLBENZENE	3.233	2.954	2.782	2.81	2.846	2.714	2.761	2.748	2.779	2.857	3.015										2.863581	5.31	0.053	1
M&P-XYLENE	3.713	3.637	3.34	3.405	3.482	3.403	3.4	3.417	3.443	3.501	3.676										3.492485	3.61	0.036	1
O-XYLENE	4.07	3.581	3.562	3.492	3.448	3.358	3.385	3.385	3.377	3.42	3.569										3.513384	5.76	0.058	1
STYRENE	5.675	5.99	5.914	6.014	5.819	5.789	5.825	5.824	5.851	5.969	6.168										5.8943 8	2.28	0.023	1
Bromoform	0.993	1.408	1.214	1.343	1.38	1.286	1.293	1.336	1.385	1.353	1.412										1.309445	9.18	0.092	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260SC	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: SC	Released On	: 10/21/2015 2:43:37 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.448	9.416	8.997	9.005	9.608	9.004	9.195	9.191	9.114	9.212	9.532										9.156566	3.44	0.034	1
4-BROMOFLUOROBENZENE	2.848	2.832	2.802	2.757	2.741	2.719	2.755	2.77	2.743	2.755	2.705										2.766171	1.61	0.016	1
Bromobenzene	5.071	5.11	4.76	4.976	4.796	4.69	4.681	4.712	4.741	4.811	4.998										4.84958	3.27	0.033	1
1,1,2,2-TETRACHLOROETHANE	2.598	2.791	2.776	2.597	2.834	2.414	2.393	2.485	2.506	2.424	2.484										2.573009	6.25	0.062	1
1,2,3-TRICHLOROPROPANE			0.909	0.87	0.856	0.705	0.687	0.723	0.722	0.689	0.714										0.763658	11.5	0.115	1
TRANS-1,4-DICHLORO-2-BUTENE	0.955	0.924	1.027	1.083	1.114	0.839	0.861	0.847	0.906	0.875	0.91										0.940155	10.1	0.101	1
n-Propylbenzene	12.09	12.58	11.43	11.4	11.8	11.44	11.55	11.43	11.41	11.67	11.85										11.69557	3.16	0.032	1
4-ETHYLTOLUENE	9.96	10.12	9.18	9.2	9.5	9.22	9.4	9.27	9.27	9.37	9.55										9.45948	3.31	0.033	1
2-Chlorotoluene	2.138	2.194	2.221	2.122	2.178	2.103	2.144	2.155	2.165	2.227	2.344										2.181073	3.05	0.031	1
4-Chlorotoluene	8.304	7.579	7.202	7.292	7.367	7.295	7.278	7.24	7.115	7.275	7.352										7.390901	4.39	0.044	1
1,3,5-Trimethylbenzene	8.487	8.109	7.914	7.858	8.222	8.035	8.104	8.129	8.058	8.259	8.562										8.157918	2.65	0.026	1
tert-Butylbenzene	6.958	7.074	6.623	6.306	6.573	6.452	6.55	6.477	6.362	6.425	6.604										6.582146	3.61	0.036	1
1,2,4-Trimethylbenzene	8.33	8.701	8.252	8.108	8.319	8.235	8.167	8.222	7.984	8.136	8.254										8.246235	2.19	0.022	1
sec-Butylbenzene	10.19	10.49	9.940001	10.41	10.73	10.35	10.5	10.31	10.18	10.22	10.36										10.33564	2.01	0.02	1
1,3-DICHLOROBENZENE	4.489	4.581	4.506	4.43	4.305	4.299	4.309	4.293	4.257	4.326	4.4										4.381422	2.44	0.024	1
p-Isopropyltoluene	9.756	9.1	8.474	8.212	8.702	8.562	8.673	8.553	8.453	8.64	8.91										8.730222	4.73	0.047	1
DICYCLOPENTADIENE	11.21	11.88	11.14	11.19	11.54	11.37	11.46	11.49	11.15	11.23	11.48										11.37733	1.96	0.02	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.055	1.851	1.702	1.673	1.628	1.665	1.591	1.603	1.618	1.638	1.658										1.698484	8.1	0.081	1
1,2,3-TRIMETHYLBENZENE	3.429	3.751	3.143	3.303	3.273	3.313	3.184	3.216	3.213	3.216	3.221										3.29651	5.14	0.051	1
1,2-DICHLOROBENZENE	1.483	1.586	1.543	1.58	1.547	1.547	1.469	1.494	1.491	1.48	1.473										1.517567	2.88	0.029	1
sec-Butylbenzene	3.623	3.68	3.496	3.269	3.55	3.378	3.302	3.218	3.228	3.212	3.16										3.374048	5.43	0.054	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260SC	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: SC	Released On	: 10/21/2015 2:43:37 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane		0.178	0.194	0.187	0.237	0.175	0.164	0.17	0.173	0.16	0.159										0.179637	12.93	0.129	1
1,2,4-Trichlorobenzene	1.185	1.213	1.069	1.067	1.045	1.055	0.976	0.988	0.959	0.951	0.913										1.038324	9.14	0.091	1
HEXACHLORO-1,3-BUTADIENE	0.472	0.549	0.56	0.573	0.563	0.554	0.525	0.52	0.497	0.491	0.473										0.525338	7.06	0.071	1
Naphthalene				2.878	3.06	2.617	2.381	2.527	2.506	2.387	2.276										2.57918	10.35	0.103	1
1,2,3-Trichlorobenzene	1.195	1.068	0.98	1.04	1.012	0.985	0.898	0.926	0.89	0.874	0.822										0.971851	10.88	0.109	1
1-Methylnaphthalene		1.984	1.766	1.649	1.792	1.59	1.424	1.51	1.435	1.394	1.223										1.576888	14.34	0.143	1
2-Methylnaphthalene		1.585	1.401	1.424	1.56	1.325	1.186	1.256	1.189	1.129	0.981										1.30368	14.76	0.148	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL																					0	0	0	1
Bromoethane												0.676	0.64	0.634	0.603	0.628	0.619	0.606	0.595	0.595	0.621733	4.21	0.042	1
2-PROPANOL												0.062	0.057	0.056	0.058	0.065	0.05	0.052	0.05	0.052	0.05585	9.73	0.097	1
Methyl Acetate												0.573	0.606	0.59	0.613	0.602	0.569	0.566	0.561	0.582	0.584783	3.26	0.033	1
ACETONITRILE												0.088	0.091	0.091	0.091	0.094	0.088	0.085	0.086	0.087	0.089296	3.33	0.033	1
ALLYL CHLORIDE												0.391	0.367	0.361	0.351	0.363	0.366	0.357	0.352	0.355	0.362766	3.35	0.034	1
tert-BUTYL ALCOHOL												0.096	0.105	0.103	0.106	0.104	0.09	0.088	0.088	0.093	0.097106	7.73	0.077	1
chloroprene												1.439	1.37	1.339	1.307	1.364	1.379	1.304	1.305	1.281	1.34323	3.72	0.037	1
ETHYL TERT-BUTYL ETHER												2.781	2.827	2.65	2.631	2.706	2.705	2.612	2.569	2.624	2.678372	3.14	0.031	1
PROPIONITRILE												0.096	0.103	0.101	0.105	0.107	0.099	0.1	0.1	0.105	0.101837	3.4	0.034	1
Ethyl Acetate												0.722	0.774	0.735	0.785	0.777	0.743	0.727	0.72	0.749	0.747966	3.37	0.034	1
METHACRYLONITRILE												0.277	0.292	0.283	0.297	0.301	0.292	0.29	0.291	0.304	0.291872	2.87	0.029	1
Cyclohexane												2.296	2.03	1.975	1.904	1.937	1.994	1.87	1.866	1.86	1.970232	6.93	0.069	1
tert-butyl formate												0.779	0.849	0.803	0.808	0.814	0.79	0.795	0.787	0.791	0.801675	2.62	0.026	1

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INITIAL CALIBRATION SUMMARY

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Method	: V835J21O	Review Protocol	: SC	Released On	: 10/21/2015 2:43:37 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.047	0.056	0.053	0.057	0.058	0.053	0.053	0.054	0.056	0.054186	5.89	0.059	1
I-Amyl Alcohol												0.072	0.078	0.071	0.078	0.075	0.066	0.069	0.067	0.07	0.071893	6.26	0.063	1
TERT-AMYL METHYL ETHER												2.98	2.959	2.84	2.9	3.013	2.955	2.929	2.955	2.99	2.946814	1.76	0.018	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.013	0.014	0.013	0.014	0.014	0.012	0.012	0.013	0.013	0.013066	5.11	0.051	1
Methyl Cyclohexane												1.661	1.188	1.058	0.965	0.988	0.96	0.913	0.932	0.909	1.063826	22.61	0.999	0
2-nitropropane												0.149	0.169	0.157	0.171	0.166	0.156	0.155	0.157	0.164	0.160254	4.63	0.046	1
METHYL METHACRYLATE												0.453	0.468	0.448	0.476	0.462	0.454	0.442	0.448	0.461	0.456895	2.35	0.024	1
1,4-DIOXANE												0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.004	0.003785	6.05	0.06	1
n-octane												0.385	0.35	0.353	0.348	0.359	0.358	0.331	0.338	0.333	0.350669	4.72	0.047	1
3,3-DIMETHYL-1-BUTANOL												0.064	0.065	0.059	0.064	0.063	0.054	0.055	0.056	0.058	0.059722	7.59	0.076	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.536	2.665	2.441	2.614	2.566	2.53	2.455	2.478	2.508	2.532618	2.91	0.029	1
CIS-1,4-DICHLORO-2-BUTENE												0.789	0.839	0.79	0.857	0.845	0.812	0.816	0.816	0.84	0.822878	2.93	0.029	1
Cyclohexanone												0.205	0.165	0.157	0.163	0.168	0.15	0.144	0.15	0.154	0.161726	11.16	0.112	1
PENTACHLOROETHANE												1.232	1.448	1.374	1.394	1.264	1.238	1.403	1.36	1.247	1.328916	6.27	0.063	1
Hexachloroethane												1.743	1.751	1.686	1.62	1.737	1.698	1.672	1.704	1.632	1.693786	2.76	0.028	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260B	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: SW846	Released On	: 10/21/2015 2:44:06 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE			0.279	0.25	0.229	0.189	0.166	0.169	0.151	0.151	0.153										0.193021	24.88	0.998	0
DICHLORODIFLUOROMETHANE	0.797	0.589	0.643	0.578	0.763	0.688	0.68	0.68	0.635	0.641	0.656										0.668234	9.84	0.098	1
CHLOROMETHANE		1.278	1.067	1.016	1.019	0.957	0.901	0.914	0.874	0.879	0.891										0.979677	12.7	0.127	1
VINYL CHLORIDE	0.954	1.03	1.023	0.988	1.05	0.997	0.952	0.957	0.907	0.908	0.919										0.971356	5.15	0.052	1
1,3-BUTADIENE			1.201	1.05	1.021	0.95	0.871	0.857	0.819	0.808	0.812										0.932018	14.5	0.145	1
BROMOMETHANE	0.582	0.654	0.587	0.663	0.645	0.617	0.589	0.6	0.576	0.577	0.61										0.609138	5.21	0.052	1
CHLOROETHANE	0.687	0.718	0.702	0.625	0.662	0.632	0.611	0.615	0.593	0.598	0.613										0.641442	6.79	0.068	1
TRICHLOROFLUOROMETHANE	1.522	1.498	1.252	1.246	1.309	1.25	1.212	1.206	1.164	1.156	1.192										1.273395	9.82	0.098	1
DICHLOROFLUOROMETHANE	1.318	1.589	1.651	1.625	1.697	1.655	1.579	1.572	1.508	1.506	1.546										1.567623	6.53	0.065	1
ETHYL ETHER	0.926	0.917	0.797	0.766	0.798	0.758	0.739	0.741	0.734	0.712	0.733										0.783644	9.32	0.093	1
ACROLEIN					0.023	0.015	0.014	0.013	0.012	0.012	0.012										0.014412	28.83	0.998	0
1,1-DICHLOROETHENE	1.339	1.552	1.364	1.37	1.417	1.338	1.269	1.256	1.238	1.169	1.276										1.32621	7.77	0.078	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.594	0.776	0.594	0.616	0.667	0.689	0.597	0.598	0.604	0.563	0.654										0.631868	9.62	0.096	1
ACETONE	0.568	0.384	0.317	0.281	0.32	0.206	0.199	0.225	0.224	0.219	0.22										0.287611	38.38	0.997	0
IODOMETHANE	0.861	0.98	0.939	0.971	1.003	0.984	0.958	0.974	0.957	0.978	1.033										0.967107	4.47	0.045	1
CARBON DISULFIDE	2.315	2.437	2.16	2.169	2.261	2.406	2.072	2.065	2.06	1.992	2.256										2.199222	6.73	0.067	1
METHYLENE CHLORIDE			0.903	0.79	0.754	0.734	0.695	0.692	0.671	0.675	0.695										0.734274	10.15	0.101	1
ACRYLONITRILE	0.266	0.28	0.267	0.261	0.35	0.247	0.239	0.251	0.258	0.243	0.253										0.264858	11.53	0.115	1
n-Hexane		0.773	0.662	0.667	0.686	0.629	0.624	0.605	0.608	0.607	0.629										0.649109	7.97	0.08	1
TRANS-1,2-DICHLOROETHENE	0.689	0.715	0.679	0.621	0.696	0.66	0.637	0.623	0.614	0.62	0.639										0.653754	5.44	0.054	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260B	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: SW846	Released On	: 10/21/2015 2:44:06 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.06	2.201	2.064	2.184	2.246	2.09	2.018	2.059	2.051	1.994	2.067										2.094102	3.83	0.038	1
,1-DICHLOROETHANE	1.321	1.453	1.378	1.402	1.415	1.39	1.356	1.334	1.301	1.299	1.345										1.363098	3.61	0.036	1
VINYL ACETATE	1.62	1.689	1.697	1.775	1.874	1.53	1.477	1.57	1.5	1.454	1.337										1.59311	9.81	0.098	1
DI-ISOPROPYL ETHER	2.924	3.044	2.948	2.916	2.903	2.921	2.855	2.844	2.8	2.799	2.842										2.890555	2.5	0.025	1
2,2-Dichloropropane	1.054	1.17	1.098	0.914	0.975	0.96	0.904	0.903	0.834	0.83	0.793										0.948677	12.46	0.125	1
CIS-1,2-DICHLOROETHENE	0.751	0.818	0.752	0.763	0.745	0.762	0.706	0.722	0.703	0.695	0.725										0.740099	4.8	0.048	1
-BUTANONE (MEK)			0.407	0.395	0.491	0.336	0.32	0.339	0.346	0.34	0.334										0.367562	14.89	0.149	1
BROMOCHLOROMETHANE	0.401	0.443	0.437	0.433	0.437	0.411	0.412	0.412	0.404	0.401	0.42										0.419163	3.76	0.038	1
TETRAHYDROFURAN	0.36	0.382	0.375	0.341	0.377	0.24	0.23	0.244	0.257	0.239	0.247										0.299454	22.07	0.996	0
CHLOROFORM	1.246	1.451	1.334	1.349	1.348	1.357	1.294	1.289	1.254	1.261	1.299										1.316691	4.54	0.045	1
DIBROMOFLUOROMETHANE	0.618	0.626	0.621	0.622	0.626	0.622	0.619	0.626	0.605	0.603	0.621										0.618921	1.28	0.013	1
1,1,1-TRICHLOROETHANE	0.866	1.079	1.029	1.027	1.083	1.033	1.034	1.018	0.991	0.987	1.014										1.014628	5.69	0.057	1
CARBON TETRACHLORIDE			1.077	1.023	1.003	0.954	0.946	0.917	0.908	0.906	0.945										0.964343	6.07	0.061	1
1,1-Dichloropropene	0.809	0.972	0.915	0.908	0.963	0.897	0.894	0.872	0.859	0.864	0.89										0.894777	5.16	0.052	1
2,2,4-TRIMETHYLPENTANE	3.814	3.927	3.035	3.184	3.575	3.184	3.418	3.257	3.256	3.266	3.386										3.391044	8.16	0.082	1
HEPTANE	1.351	1.319	1.366	1.326	1.417	1.32	1.335	1.29	1.328	1.323	1.37										1.340449	2.55	0.025	1
BENZENE	2.962	3.002	2.829	2.676	2.761	2.717	2.622	2.604	2.561	2.569	2.644										2.722517	5.57	0.056	1
1,2-DICHLOROETHANE	1.064	1.135	1.163	1.162	1.186	1.134	1.116	1.117	1.124	1.11	1.16										1.13371	2.95	0.029	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.339	0.4	0.383	0.352	0.377	0.372	0.362	0.357	0.351	0.35	0.359										0.363777	4.83	0.048	1
,2-DICHLOROPROPANE	0.294	0.34	0.307	0.313	0.323	0.315	0.306	0.309	0.302	0.302	0.308										0.310832	3.92	0.039	1
DIBROMOMETHANE	0.317	0.302	0.267	0.272	0.282	0.256	0.245	0.252	0.249	0.24	0.248										0.266454	9.39	0.094	1

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Method	: V835J21O	Review Protocol	: SW846	Released On	: 10/21/2015 2:44:06 PM

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Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.59	0.607	0.605	0.617	0.632	0.625	0.599	0.597	0.591	0.585	0.597										0.604113	2.5	0.025	1
a,a,a-Trifluorotoluene	0.541	0.538	0.536	0.528	0.529	0.527	0.518	0.516	0.489	0.484	0.47										0.516069	4.68	0.047	1
-CHLOROETHYL VINYL ETHER	0.21	0.234	0.232	0.231	0.254	0.222	0.223	0.229	0.242	0.233	0.242										0.23201	5.01	0.05	1
CIS-1,3-DICHLOROPROPENE	0.612	0.709	0.697	0.699	0.709	0.698	0.676	0.684	0.685	0.672	0.689										0.684515	3.94	0.039	1
4-METHYL-2-PENTANONE (MIBK)	0.492	0.542	0.498	0.513	0.616	0.457	0.443	0.474	0.487	0.452	0.452										0.493223	10.24	0.102	1
TOLUENE-D8	1.241	1.234	1.239	1.218	1.221	1.225	1.203	1.208	1.171	1.153	1.137										1.204607	2.94	0.029	1
TOLUENE	1.739	1.693	1.573	1.553	1.6	1.553	1.513	1.515	1.508	1.505	1.526										1.570733	4.99	0.05	1
TRANS-1,3-DICHLOROPROPENE	0.649	0.641	0.646	0.63	0.67	0.633	0.635	0.647	0.669	0.654	0.681										0.650498	2.54	0.025	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.488	1.886	1.731	1.658	1.797	1.636	1.608	1.626	1.665	1.635	1.694										1.674924	6.21	0.062	1
TETRACHLOROETHENE	1.453	1.442	1.349	1.325	1.437	1.354	1.369	1.358	1.377	1.407	1.463										1.394149	3.45	0.035	1
1,3-Dichloropropane	3.089	3.231	3.274	3.158	3.372	3.091	3.087	3.136	3.18	3.131	3.23										3.180003	2.82	0.028	1
2-HEXANONE		1.112	1.035	1.026	1.19	0.843	0.807	0.826	0.863	0.813	0.823										0.933783	15.31	0.153	1
CHLORODIBROMOMETHANE	1.981	2.261	2.225	2.057	2.172	2.061	2.065	2.055	2.1	2.068	2.143										2.108057	3.95	0.04	1
1,2-DIBROMOETHANE	1.882	1.929	1.893	1.776	1.899	1.701	1.688	1.721	1.76	1.714	1.756										1.792784	5.03	0.05	1
CHLOROBENZENE	5.507	5.28	5.232	5.123	5.186	4.991	5.07	5.094	5.173	5.267	5.565										5.226284	3.37	0.034	1
1,1,1,2-TETRACHLOROETHANE	2.55	2.279	1.961	2.042	1.978	1.919	1.918	1.923	1.904	1.921	1.989										2.034874	9.9	0.099	1
ETHYLBENZENE	3.233	2.954	2.782	2.81	2.846	2.714	2.761	2.748	2.779	2.857	3.015										2.863581	5.31	0.053	1
M&P-XYLENE	3.713	3.637	3.34	3.405	3.482	3.403	3.4	3.417	3.443	3.501	3.676										3.492485	3.61	0.036	1
O-XYLENE	4.07	3.581	3.562	3.492	3.448	3.358	3.385	3.385	3.377	3.42	3.569										3.513384	5.76	0.058	1
STYRENE	5.675	5.99	5.914	6.014	5.819	5.789	5.825	5.824	5.851	5.969	6.168										5.8943 8	2.28	0.023	1
Bromoform	0.993	1.408	1.214	1.343	1.38	1.286	1.293	1.336	1.385	1.353	1.412										1.309445	9.18	0.092	1

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Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.448	9.416	8.997	9.005	9.608	9.004	9.195	9.191	9.114	9.212	9.532										9.156566	3.44	0.034	1
4-BROMOFLUOROBENZENE	2.848	2.832	2.802	2.757	2.741	2.719	2.755	2.77	2.743	2.755	2.705										2.766171	1.61	0.016	1
Bromobenzene	5.071	5.11	4.76	4.976	4.796	4.69	4.681	4.712	4.741	4.811	4.998										4.84958	3.27	0.033	1
1,1,2,2-TETRACHLOROETHANE	2.598	2.791	2.776	2.597	2.834	2.414	2.393	2.485	2.506	2.424	2.484										2.573009	6.25	0.062	1
1,2,3-TRICHLOROPROPANE			0.909	0.87	0.856	0.705	0.687	0.723	0.722	0.689	0.714										0.763658	11.5	0.115	1
TRANS-1,4-DICHLORO-2-BUTENE	0.955	0.924	1.027	1.083	1.114	0.839	0.861	0.847	0.906	0.875	0.91										0.940155	10.1	0.101	1
n-Propylbenzene	12.09	12.58	11.43	11.4	11.8	11.44	11.55	11.43	11.41	11.67	11.85										11.69557	3.16	0.032	1
4-ETHYLTOLUENE	9.96	10.12	9.18	9.2	9.5	9.22	9.4	9.27	9.27	9.37	9.55										9.45948	3.31	0.033	1
2-Chlorotoluene	2.138	2.194	2.221	2.122	2.178	2.103	2.144	2.155	2.165	2.227	2.344										2.181073	3.05	0.031	1
4-Chlorotoluene	8.304	7.579	7.202	7.292	7.367	7.295	7.278	7.24	7.115	7.275	7.352										7.390901	4.39	0.044	1
1,3,5-Trimethylbenzene	8.487	8.109	7.914	7.858	8.222	8.035	8.104	8.129	8.058	8.259	8.562										8.157918	2.65	0.026	1
tert-Butylbenzene	6.958	7.074	6.623	6.306	6.573	6.452	6.55	6.477	6.362	6.425	6.604										6.582146	3.61	0.036	1
1,2,4-Trimethylbenzene	8.33	8.701	8.252	8.108	8.319	8.235	8.167	8.222	7.984	8.136	8.254										8.246235	2.19	0.022	1
sec-Butylbenzene	10.19	10.49	9.940001	10.41	10.73	10.35	10.5	10.31	10.18	10.22	10.36										10.33564	2.01	0.02	1
1,3-DICHLOROBENZENE	4.489	4.581	4.506	4.43	4.305	4.299	4.309	4.293	4.257	4.326	4.4										4.381422	2.44	0.024	1
p-Isopropyltoluene	9.756	9.1	8.474	8.212	8.702	8.562	8.673	8.553	8.453	8.64	8.91										8.730222	4.73	0.047	1
DICYCLOPENTADIENE	11.21	11.88	11.14	11.19	11.54	11.37	11.46	11.49	11.15	11.23	11.48										11.37733	1.96	0.02	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.055	1.851	1.702	1.673	1.628	1.665	1.591	1.603	1.618	1.638	1.658										1.698484	8.1	0.081	1
1,2,3-TRIMETHYLBENZENE	3.429	3.751	3.143	3.303	3.273	3.313	3.184	3.216	3.213	3.216	3.221										3.29651	5.14	0.051	1
1,2-DICHLOROBENZENE	1.483	1.586	1.543	1.58	1.547	1.547	1.469	1.494	1.491	1.48	1.473										1.517567	2.88	0.029	1
n-Butylbenzene	3.623	3.68	3.496	3.269	3.55	3.378	3.302	3.218	3.228	3.212	3.16										3.374048	5.43	0.054	1

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Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane		0.178	0.194	0.187	0.237	0.175	0.164	0.17	0.173	0.16	0.159										0.179637	12.93	0.129	1
1,2,4-Trichlorobenzene	1.185	1.213	1.069	1.067	1.045	1.055	0.976	0.988	0.959	0.951	0.913										1.038324	9.14	0.091	1
HEXACHLORO-1,3-BUTADIENE	0.472	0.549	0.56	0.573	0.563	0.554	0.525	0.52	0.497	0.491	0.473										0.525338	7.06	0.071	1
Naphthalene				2.878	3.06	2.617	2.381	2.527	2.506	2.387	2.276										2.57918	10.35	0.103	1
1,2,3-Trichlorobenzene	1.195	1.068	0.98	1.04	1.012	0.985	0.898	0.926	0.89	0.874	0.822										0.971851	10.88	0.109	1
1-Methylnaphthalene		1.984	1.766	1.649	1.792	1.59	1.424	1.51	1.435	1.394	1.223										1.576888	14.34	0.143	1
2-Methylnaphthalene		1.585	1.401	1.424	1.56	1.325	1.186	1.256	1.189	1.129	0.981										1.30368	14.76	0.148	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL																					0	0	0	1
Bromoethane												0.676	0.64	0.634	0.603	0.628	0.619	0.606	0.595	0.595	0.621733	4.21	0.042	1
2-PROPANOL												0.062	0.057	0.056	0.058	0.065	0.05	0.052	0.05	0.052	0.05585	9.73	0.097	1
Methyl Acetate												0.573	0.606	0.59	0.613	0.602	0.569	0.566	0.561	0.582	0.584783	3.26	0.033	1
ACETONITRILE												0.088	0.091	0.091	0.091	0.094	0.088	0.085	0.086	0.087	0.089296	3.33	0.033	1
ALLYL CHLORIDE												0.391	0.367	0.361	0.351	0.363	0.366	0.357	0.352	0.355	0.362766	3.35	0.034	1
tert-BUTYL ALCOHOL												0.096	0.105	0.103	0.106	0.104	0.09	0.088	0.088	0.093	0.097106	7.73	0.077	1
chloroprene												1.439	1.37	1.339	1.307	1.364	1.379	1.304	1.305	1.281	1.34323	3.72	0.037	1
ETHYL TERT-BUTYL ETHER												2.781	2.827	2.65	2.631	2.706	2.705	2.612	2.569	2.624	2.678372	3.14	0.031	1
PROPIONITRILE												0.096	0.103	0.101	0.105	0.107	0.099	0.1	0.1	0.105	0.101837	3.4	0.034	1
Ethyl Acetate												0.722	0.774	0.735	0.785	0.777	0.743	0.727	0.72	0.749	0.747966	3.37	0.034	1
METHACRYLONITRILE												0.277	0.292	0.283	0.297	0.301	0.292	0.29	0.291	0.304	0.291872	2.87	0.029	1
Cyclohexane												2.296	2.03	1.975	1.904	1.937	1.994	1.87	1.866	1.86	1.970232	6.93	0.069	1
tert-butyl formate												0.779	0.849	0.803	0.808	0.814	0.79	0.795	0.787	0.791	0.801675	2.62	0.026	1

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Method	: V835J21O	Review Protocol	: SW846	Released On	: 10/21/2015 2:44:06 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.047	0.056	0.053	0.057	0.058	0.053	0.053	0.054	0.056	0.054186	5.89	0.059	1
Amyl Alcohol												0.072	0.078	0.071	0.078	0.075	0.066	0.069	0.067	0.07	0.071893	6.26	0.063	1
TERT-AMYL METHYL ETHER												2.98	2.959	2.84	2.9	3.013	2.955	2.929	2.955	2.99	2.946814	1.76	0.018	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.013	0.014	0.013	0.014	0.014	0.012	0.012	0.013	0.013	0.013066	5.11	0.051	1
Methyl Cyclohexane												1.661	1.188	1.058	0.965	0.988	0.96	0.913	0.932	0.909	1.063826	22.61	0.999	0
-nitropropane												0.149	0.169	0.157	0.171	0.166	0.156	0.155	0.157	0.164	0.160254	4.63	0.046	1
METHYL METHACRYLATE												0.453	0.468	0.448	0.476	0.462	0.454	0.442	0.448	0.461	0.456895	2.35	0.024	1
1,4-DIOXANE												0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.004	0.003785	6.05	0.06	1
n-octane												0.385	0.35	0.353	0.348	0.359	0.358	0.331	0.338	0.333	0.350669	4.72	0.047	1
3,3-DIMETHYL-1-BUTANOL												0.064	0.065	0.059	0.064	0.063	0.054	0.055	0.056	0.058	0.059722	7.59	0.076	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.536	2.665	2.441	2.614	2.566	2.53	2.455	2.478	2.508	2.532618	2.91	0.029	1
CIS-1,4-DICHLORO-2-BUTENE												0.789	0.839	0.79	0.857	0.845	0.812	0.816	0.816	0.84	0.822878	2.93	0.029	1
Cyclohexanone												0.205	0.165	0.157	0.163	0.168	0.15	0.144	0.15	0.154	0.161726	11.16	0.112	1
PENTACHLOROETHANE												1.232	1.448	1.374	1.394	1.264	1.238	1.403	1.36	1.247	1.328916	6.27	0.063	1
Hexachloroethane												1.743	1.751	1.686	1.62	1.737	1.698	1.672	1.704	1.632	1.693786	2.76	0.028	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260C	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: SW846	Released On	: 10/21/2015 2:44:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
8260-PENTAFLUOROBENZENE																									
TPH (GC/MS) LOW FRACTION																					0	0	0	1	
PROPENE			0.279	0.25	0.229	0.189	0.166	0.169	0.151	0.151	0.153										0.193021	24.88	0.998	0	
DICHLORODIFLUOROMETHANE	0.797	0.589	0.643	0.578	0.763	0.688	0.68	0.68	0.635	0.641	0.656										0.668234	9.84	0.098	1	0.1
CHLOROMETHANE		1.278	1.067	1.016	1.019	0.957	0.901	0.914	0.874	0.879	0.891										0.979677	12.7	0.127	1	0.1
VINYL CHLORIDE	0.954	1.03	1.023	0.988	1.05	0.997	0.952	0.957	0.907	0.908	0.919										0.971356	5.15	0.052	1	0.1
1,3-BUTADIENE			1.201	1.05	1.021	0.95	0.871	0.857	0.819	0.808	0.812										0.932018	14.5	0.145	1	
BROMOMETHANE	0.582	0.654	0.587	0.663	0.645	0.617	0.589	0.6	0.576	0.577	0.61										0.609138	5.21	0.052	1	0.1
CHLOROETHANE	0.687	0.718	0.702	0.625	0.662	0.632	0.611	0.615	0.593	0.598	0.613										0.641442	6.79	0.068	1	0.1
TRICHLOROFLUOROMETHANE	1.522	1.498	1.252	1.246	1.309	1.25	1.212	1.206	1.164	1.156	1.192										1.273395	9.82	0.098	1	0.1
DICHLOROFLUOROMETHANE	1.318	1.589	1.651	1.625	1.697	1.655	1.579	1.572	1.508	1.506	1.546										1.567623	6.53	0.065	1	
ETHYL ETHER	0.926	0.917	0.797	0.766	0.798	0.758	0.739	0.741	0.734	0.712	0.733										0.783644	9.32	0.093	1	
ACROLEIN					0.023	0.015	0.014	0.013	0.012	0.012	0.012										0.014412	28.83	0.998	0	
1,1-DICHLOROETHENE	1.339	1.552	1.364	1.37	1.417	1.338	1.269	1.256	1.238	1.169	1.276										1.32621	7.77	0.078	1	0.1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.594	0.776	0.594	0.616	0.667	0.689	0.597	0.598	0.604	0.563	0.654										0.631868	9.62	0.096	1	0.1
ACETONE	0.568	0.384	0.317	0.281	0.32	0.206	0.199	0.225	0.224	0.219	0.22										0.287611	38.38	0.997	0	0.1
IODOMETHANE	0.861	0.98	0.939	0.971	1.003	0.984	0.958	0.974	0.957	0.978	1.033										0.967107	4.47	0.045	1	
CARBON DISULFIDE	2.315	2.437	2.16	2.169	2.261	2.406	2.072	2.065	2.06	1.992	2.256										2.199922	6.73	0.067	1	0.1
METHYLENE CHLORIDE			0.903	0.79	0.754	0.734	0.695	0.692	0.671	0.675	0.695										0.734274	10.15	0.101	1	0.1
ACRYLONITRILE	0.266	0.28	0.267	0.261	0.35	0.247	0.239	0.251	0.258	0.243	0.253										0.264858	11.53	0.115	1	
n-Hexane		0.773	0.662	0.667	0.686	0.629	0.624	0.605	0.608	0.607	0.629										0.649109	7.97	0.08	1	
TRANS-1,2-DICHLOROETHENE	0.689	0.715	0.679	0.621	0.696	0.66	0.637	0.623	0.614	0.62	0.639										0.653754	5.44	0.054	1	0.1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260C	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: SW846	Released On	: 10/21/2015 2:44:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
METHYL TERT-BUTYL ETHER	2.06	2.201	2.064	2.184	2.246	2.09	2.018	2.059	2.051	1.994	2.067										2.094102	3.83	0.038	1	0.1
,1-DICHLOROETHANE	1.321	1.453	1.378	1.402	1.415	1.39	1.356	1.334	1.301	1.299	1.345										1.363098	3.61	0.036	1	0.2
VINYL ACETATE	1.62	1.689	1.697	1.775	1.874	1.53	1.477	1.57	1.5	1.454	1.337										1.59311	9.81	0.098	1	
DI-ISOPROPYL ETHER	2.924	3.044	2.948	2.916	2.903	2.921	2.855	2.844	2.8	2.799	2.842										2.890555	2.5	0.025	1	
2,2-Dichloropropane	1.054	1.17	1.098	0.914	0.975	0.96	0.904	0.903	0.834	0.83	0.793										0.948677	12.46	0.125	1	
CIS-1,2-DICHLOROETHENE	0.751	0.818	0.752	0.763	0.745	0.762	0.706	0.722	0.703	0.695	0.725										0.740099	4.8	0.048	1	0.1
-BUTANONE (MEK)			0.407	0.395	0.491	0.336	0.32	0.339	0.346	0.34	0.334										0.367562	14.89	0.149	1	0.1
BROMOCHLOROMETHANE	0.401	0.443	0.437	0.433	0.437	0.411	0.412	0.412	0.404	0.401	0.42										0.419163	3.76	0.038	1	
TETRAHYDROFURAN	0.36	0.382	0.375	0.341	0.377	0.24	0.23	0.244	0.257	0.239	0.247										0.299454	22.07	0.996	0	
CHLOROFORM	1.246	1.451	1.334	1.349	1.348	1.357	1.294	1.289	1.254	1.261	1.299										1.316691	4.54	0.045	1	0.2
DIBROMOFLUOROMETHANE	0.618	0.626	0.621	0.622	0.626	0.622	0.619	0.626	0.605	0.603	0.621										0.618921	1.28	0.013	1	
1,1,1-TRICHLOROETHANE	0.866	1.079	1.029	1.027	1.083	1.033	1.034	1.018	0.991	0.987	1.014										1.014628	5.69	0.057	1	0.1
CARBON TETRACHLORIDE			1.077	1.023	1.003	0.954	0.946	0.917	0.908	0.906	0.945										0.964343	6.07	0.061	1	0.1
1,1-Dichloropropene	0.809	0.972	0.915	0.908	0.963	0.897	0.894	0.872	0.859	0.864	0.89										0.894777	5.16	0.052	1	
2,2,4-TRIMETHYLPENTANE	3.814	3.927	3.035	3.184	3.575	3.184	3.418	3.257	3.256	3.266	3.386										3.391044	8.16	0.082	1	
HEPTANE	1.351	1.319	1.366	1.326	1.417	1.32	1.335	1.29	1.328	1.323	1.37										1.340449	2.55	0.025	1	
BENZENE	2.962	3.002	2.829	2.676	2.761	2.717	2.622	2.604	2.561	2.569	2.644										2.722517	5.57	0.056	1	0.5
1,2-DICHLOROETHANE	1.064	1.135	1.163	1.162	1.186	1.134	1.116	1.117	1.124	1.11	1.16										1.13371	2.95	0.029	1	0.1
8260-1,4-DIFLUOROBENZENE																									
TRICHLOROETHENE	0.339	0.4	0.383	0.352	0.377	0.372	0.362	0.357	0.351	0.35	0.359										0.363777	4.83	0.048	1	0.2
,2-DICHLOROPROPANE	0.294	0.34	0.307	0.313	0.323	0.315	0.306	0.309	0.302	0.302	0.308										0.310832	3.92	0.039	1	0.1
DIBROMOMETHANE	0.317	0.302	0.267	0.272	0.282	0.256	0.245	0.252	0.249	0.24	0.248										0.266454	9.39	0.094	1	

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260C	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: SW846	Released On	: 10/21/2015 2:44:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
BROMODICHLOROMETHANE	0.59	0.607	0.605	0.617	0.632	0.625	0.599	0.597	0.591	0.585	0.597										0.604113	2.5	0.025	1	0.2
a,a,a-Trifluorotoluene	0.541	0.538	0.536	0.528	0.529	0.527	0.518	0.516	0.489	0.484	0.47										0.516069	4.68	0.047	1	
-CHLOROETHYL VINYL ETHER	0.21	0.234	0.232	0.231	0.254	0.222	0.223	0.229	0.242	0.233	0.242										0.23201	5.01	0.05	1	
CIS-1,3-DICHLOROPROPENE	0.612	0.709	0.697	0.699	0.709	0.698	0.676	0.684	0.685	0.672	0.689										0.684515	3.94	0.039	1	0.2
-METHYL-2-PENTANONE (MIBK)	0.492	0.542	0.498	0.513	0.616	0.457	0.443	0.474	0.487	0.452	0.452										0.493223	10.24	0.102	1	0.1
TOLUENE-D8	1.241	1.234	1.239	1.218	1.221	1.225	1.203	1.208	1.171	1.153	1.137										1.204607	2.94	0.029	1	
TOLUENE	1.739	1.693	1.573	1.553	1.6	1.553	1.513	1.515	1.508	1.505	1.526										1.570733	4.99	0.05	1	0.4
TRANS-1,3-DICHLOROPROPENE	0.649	0.641	0.646	0.63	0.67	0.633	0.635	0.647	0.669	0.654	0.681										0.650498	2.54	0.025	1	0.1
8260-2-BROMO-1 -CHLOROPROPANE																									
1,1,2-TRICHLOROETHANE	1.488	1.886	1.731	1.658	1.797	1.636	1.608	1.626	1.665	1.635	1.694										1.674924	6.21	0.062	1	0.1
TETRACHLOROETHENE	1.453	1.442	1.349	1.325	1.437	1.354	1.369	1.358	1.377	1.407	1.463										1.394149	3.45	0.035	1	0.2
1,3-Dichloropropane	3.089	3.231	3.274	3.158	3.372	3.091	3.087	3.136	3.18	3.131	3.23										3.180003	2.82	0.028	1	
2-HEXANONE		1.112	1.035	1.026	1.19	0.843	0.807	0.826	0.863	0.813	0.823										0.933783	15.31	0.153	1	0.1
CHLORODIBROMOMETHANE	1.981	2.261	2.225	2.057	2.172	2.061	2.065	2.055	2.1	2.068	2.143										2.108057	3.95	0.04	1	0.1
1,2-DIBROMOETHANE	1.882	1.929	1.893	1.776	1.899	1.701	1.688	1.721	1.76	1.714	1.756										1.792784	5.03	0.05	1	0.1
CHLOROBENZENE	5.507	5.28	5.232	5.123	5.186	4.991	5.07	5.094	5.173	5.267	5.565										5.226284	3.37	0.034	1	0.5
1,1,1,2-TETRACHLOROETHANE	2.55	2.279	1.961	2.042	1.978	1.919	1.918	1.923	1.904	1.921	1.989										2.034874	9.9	0.099	1	
ETHYLBENZENE	3.233	2.954	2.782	2.81	2.846	2.714	2.761	2.748	2.779	2.857	3.015										2.863581	5.31	0.053	1	0.1
M&P-XYLENE	3.713	3.637	3.34	3.405	3.482	3.403	3.4	3.417	3.443	3.501	3.676										3.492485	3.61	0.036	1	0.1
O-XYLENE	4.07	3.581	3.562	3.492	3.448	3.358	3.385	3.385	3.377	3.42	3.569										3.513384	5.76	0.058	1	0.3
STYRENE	5.675	5.99	5.914	6.014	5.819	5.789	5.825	5.824	5.851	5.969	6.168										5.8943 8	2.28	0.023	1	0.3
Bromoform	0.993	1.408	1.214	1.343	1.38	1.286	1.293	1.336	1.385	1.353	1.412										1.309445	9.18	0.092	1	0.1

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INITIAL CALIBRATION SUMMARY

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Method	: V835J21O	Review Protocol	: SW846	Released On	: 10/21/2015 2:44:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
Isopropylbenzene	8.448	9.416	8.997	9.005	9.608	9.004	9.195	9.191	9.114	9.212	9.532										9.156566	3.44	0.034	1	0.1
4-BROMOFLUOROBENZENE	2.848	2.832	2.802	2.757	2.741	2.719	2.755	2.77	2.743	2.755	2.705										2.766171	1.61	0.016	1	
Bromobenzene	5.071	5.11	4.76	4.976	4.796	4.69	4.681	4.712	4.741	4.811	4.998										4.84958	3.27	0.033	1	
1,1,2,2-TETRACHLOROETHANE	2.598	2.791	2.776	2.597	2.834	2.414	2.393	2.485	2.506	2.424	2.484										2.573009	6.25	0.062	1	0.3
1,2,3-TRICHLOROPROPANE			0.909	0.87	0.856	0.705	0.687	0.723	0.722	0.689	0.714										0.763658	11.5	0.115	1	
TRANS-1,4-DICHLORO-2-BUTENE	0.955	0.924	1.027	1.083	1.114	0.839	0.861	0.847	0.906	0.875	0.91										0.940155	10.1	0.101	1	
n-Propylbenzene	12.09	12.58	11.43	11.4	11.8	11.44	11.55	11.43	11.41	11.67	11.85										11.69557	3.16	0.032	1	
4-ETHYLTOLUENE	9.96	10.12	9.18	9.2	9.5	9.22	9.4	9.27	9.27	9.37	9.55										9.45948	3.31	0.033	1	
2-Chlorotoluene	2.138	2.194	2.221	2.122	2.178	2.103	2.144	2.155	2.165	2.227	2.344										2.181073	3.05	0.031	1	
4-Chlorotoluene	8.304	7.579	7.202	7.292	7.367	7.295	7.278	7.24	7.115	7.275	7.352										7.390901	4.39	0.044	1	
1,3,5-Trimethylbenzene	8.487	8.109	7.914	7.858	8.222	8.035	8.104	8.129	8.058	8.259	8.562										8.157918	2.65	0.026	1	
tert-Butylbenzene	6.958	7.074	6.623	6.306	6.573	6.452	6.55	6.477	6.362	6.425	6.604										6.582146	3.61	0.036	1	
1,2,4-Trimethylbenzene	8.33	8.701	8.252	8.108	8.319	8.235	8.167	8.222	7.984	8.136	8.254										8.246235	2.19	0.022	1	
sec-Butylbenzene	10.19	10.49	9.940001	10.41	10.73	10.35	10.5	10.31	10.18	10.22	10.36										10.33564	2.01	0.02	1	
1,3-DICHLOROBENZENE	4.489	4.581	4.506	4.43	4.305	4.299	4.309	4.293	4.257	4.326	4.4										4.381422	2.44	0.024	1	0.6
p-Isopropyltoluene	9.756	9.1	8.474	8.212	8.702	8.562	8.673	8.553	8.453	8.64	8.91										8.730222	4.73	0.047	1	
DICYCLOPENTADIENE	11.21	11.88	11.14	11.19	11.54	11.37	11.46	11.49	11.15	11.23	11.48										11.37733	1.96	0.02	1	
8260-1,4-DICHLOROBENZENE-D4																									
1,4-DICHLOROBENZENE	2.055	1.851	1.702	1.673	1.628	1.665	1.591	1.603	1.618	1.638	1.658										1.698484	8.1	0.081	1	
1,2,3-TRIMETHYLBENZENE	3.429	3.751	3.143	3.303	3.273	3.313	3.184	3.216	3.213	3.216	3.221										3.29651	5.14	0.051	1	
1,2-DICHLOROBENZENE	1.483	1.586	1.543	1.58	1.547	1.547	1.469	1.494	1.491	1.48	1.473										1.517567	2.88	0.029	1	0.4
n-Butylbenzene	3.623	3.68	3.496	3.269	3.55	3.378	3.302	3.218	3.228	3.212	3.16										3.374048	5.43	0.054	1	

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260C	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: SW846	Released On	: 10/21/2015 2:44:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
1,2-Dibromo-3-chloropropane		0.178	0.194	0.187	0.237	0.175	0.164	0.17	0.173	0.16	0.159										0.179637	12.93	0.129	1	0.05
1,2,4-Trichlorobenzene	1.185	1.213	1.069	1.067	1.045	1.055	0.976	0.988	0.959	0.951	0.913										1.038324	9.14	0.091	1	0.2
HEXACHLORO-1,3-BUTADIENE	0.472	0.549	0.56	0.573	0.563	0.554	0.525	0.52	0.497	0.491	0.473										0.525338	7.06	0.071	1	
Naphthalene				2.878	3.06	2.617	2.381	2.527	2.506	2.387	2.276										2.57918	10.35	0.103	1	
1,2,3-Trichlorobenzene	1.195	1.068	0.98	1.04	1.012	0.985	0.898	0.926	0.89	0.874	0.822										0.971851	10.88	0.109	1	
1-Methylnaphthalene		1.984	1.766	1.649	1.792	1.59	1.424	1.51	1.435	1.394	1.223										1.576888	14.34	0.143	1	
2-Methylnaphthalene		1.585	1.401	1.424	1.56	1.325	1.186	1.256	1.189	1.129	0.981										1.30368	14.76	0.148	1	
AP9-PENTAFLUOROBENZENE																									
ETHANOL																					0	0	0	1	
Bromoethane												0.676	0.64	0.634	0.603	0.628	0.619	0.606	0.595	0.595	0.621733	4.21	0.042	1	
2-PROPANOL												0.062	0.057	0.056	0.058	0.065	0.05	0.052	0.05	0.052	0.05585	9.73	0.097	1	
Methyl Acetate												0.573	0.606	0.59	0.613	0.602	0.569	0.566	0.561	0.582	0.584783	3.26	0.033	1	0.1
ACETONITRILE												0.088	0.091	0.091	0.091	0.094	0.088	0.085	0.086	0.087	0.089296	3.33	0.033	1	
ALLYL CHLORIDE												0.391	0.367	0.361	0.351	0.363	0.366	0.357	0.352	0.355	0.362766	3.35	0.034	1	
tert-BUTYL ALCOHOL												0.096	0.105	0.103	0.106	0.104	0.09	0.088	0.088	0.093	0.097106	7.73	0.077	1	
chloroprene												1.439	1.37	1.339	1.307	1.364	1.379	1.304	1.305	1.281	1.34323	3.72	0.037	1	
ETHYL TERT-BUTYL ETHER												2.781	2.827	2.65	2.631	2.706	2.705	2.612	2.569	2.624	2.678372	3.14	0.031	1	
PROPIONITRILE												0.096	0.103	0.101	0.105	0.107	0.099	0.1	0.1	0.105	0.101837	3.4	0.034	1	
Ethyl Acetate												0.722	0.774	0.735	0.785	0.777	0.743	0.727	0.72	0.749	0.747966	3.37	0.034	1	
METHACRYLONITRILE												0.277	0.292	0.283	0.297	0.301	0.292	0.29	0.291	0.304	0.291872	2.87	0.029	1	
Cyclohexane												2.296	2.03	1.975	1.904	1.937	1.994	1.87	1.866	1.86	1.970232	6.93	0.069	1	0.1
tert-butyl formate												0.779	0.849	0.803	0.808	0.814	0.79	0.795	0.787	0.791	0.801675	2.62	0.026	1	

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS35	Review Method	: 8260C	Released By	: Amy Green
Method	: V835J21O	Review Protocol	: SW846	Released On	: 10/21/2015 2:44:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V835J21O -- ICal Updated Time: Wed Oct 21 14:34:58 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
ISOBUTANOL												0.047	0.056	0.053	0.057	0.058	0.053	0.053	0.054	0.056	0.054186	5.89	0.059	1	
I-Amyl Alcohol												0.072	0.078	0.071	0.078	0.075	0.066	0.069	0.067	0.07	0.071893	6.26	0.063	1	
TERT-AMYL METHYL ETHER												2.98	2.959	2.84	2.9	3.013	2.955	2.929	2.955	2.99	2.946814	1.76	0.018	1	
AP9-1,4-DIFLUOROBENZENE																									
N-BUTANOL												0.013	0.014	0.013	0.014	0.014	0.012	0.012	0.013	0.013	0.013066	5.11	0.051	1	
Methyl Cyclohexane												1.661	1.188	1.058	0.965	0.988	0.96	0.913	0.932	0.909	1.063826	22.61	0.999	0	0.1
2-nitropropane												0.149	0.169	0.157	0.171	0.166	0.156	0.155	0.157	0.164	0.160254	4.63	0.046	1	
METHYL METHACRYLATE												0.453	0.468	0.448	0.476	0.462	0.454	0.442	0.448	0.461	0.456895	2.35	0.024	1	
1,4-DIOXANE												0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.004	0.003785	6.05	0.06	1	
n-octane												0.385	0.35	0.353	0.348	0.359	0.358	0.331	0.338	0.333	0.350669	4.72	0.047	1	
3,3-DIMETHYL-1-BUTANOL												0.064	0.065	0.059	0.064	0.063	0.054	0.055	0.056	0.058	0.059722	7.59	0.076	1	
AP9-2-BROMO-1 -CHLOROPROPANE																									
ETHYL METHACRYLATE												2.536	2.665	2.441	2.614	2.566	2.53	2.455	2.478	2.508	2.532618	2.91	0.029	1	
CIS-1,4-DICHLORO-2-BUTENE												0.789	0.839	0.79	0.857	0.845	0.812	0.816	0.816	0.84	0.822878	2.93	0.029	1	
Cyclohexanone												0.205	0.165	0.157	0.163	0.168	0.15	0.144	0.15	0.154	0.161726	11.16	0.112	1	
PENTACHLOROETHANE												1.232	1.448	1.374	1.394	1.264	1.238	1.403	1.36	1.247	1.328916	6.27	0.063	1	
Hexachloroethane												1.743	1.751	1.686	1.62	1.737	1.698	1.672	1.704	1.632	1.693786	2.76	0.028	1	
AP9-1,4-DICHLOROBENZENE-D4																									

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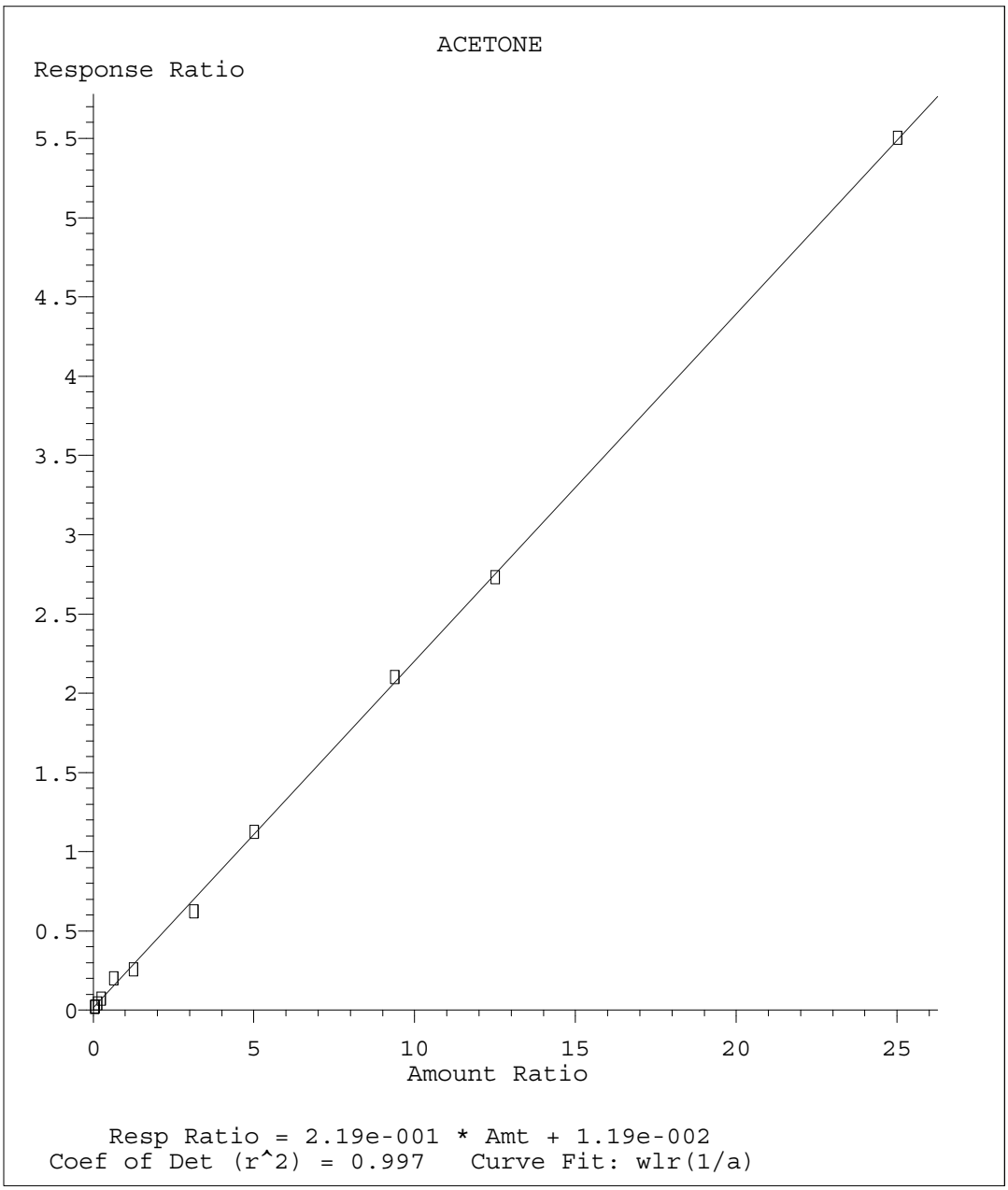
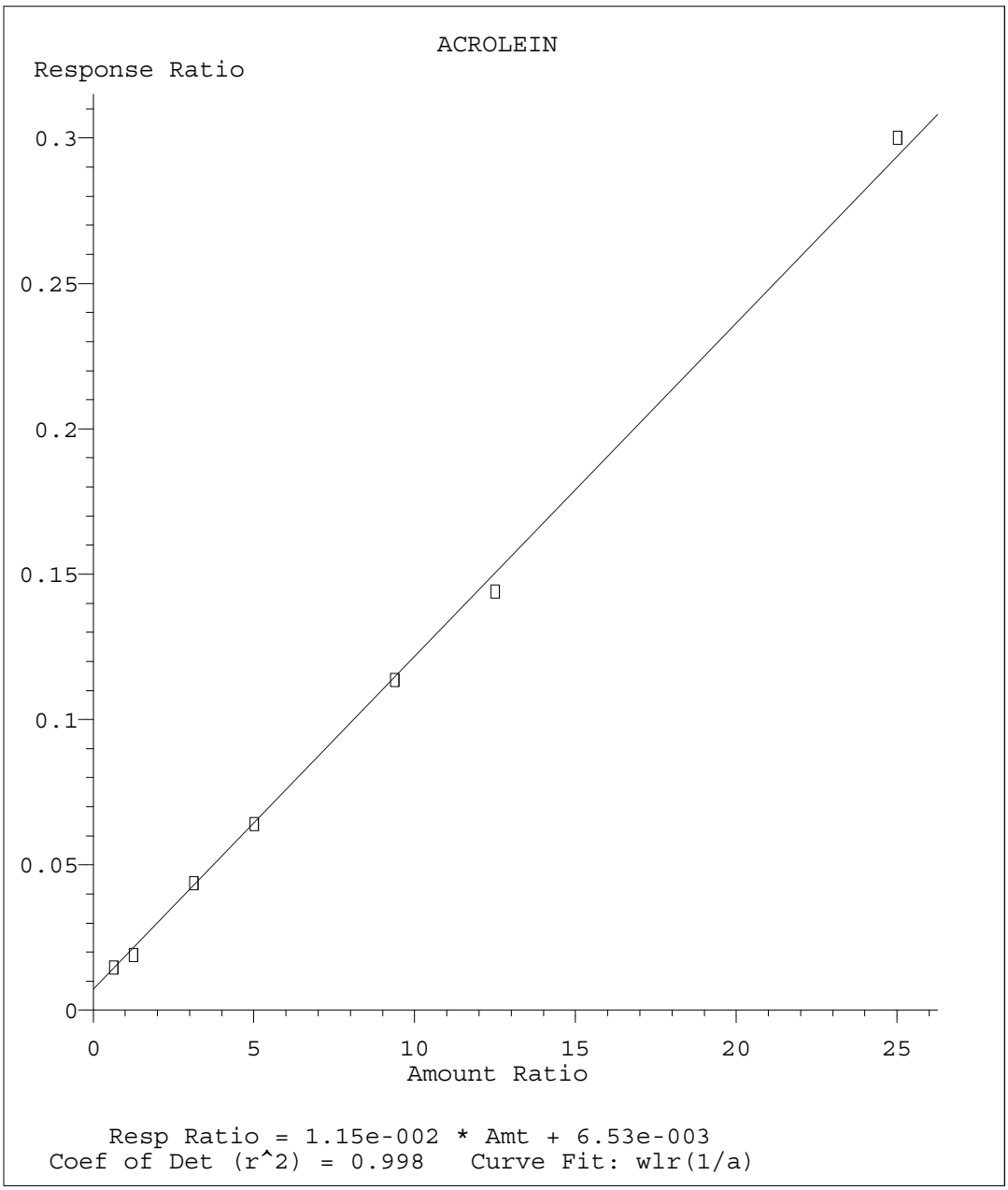
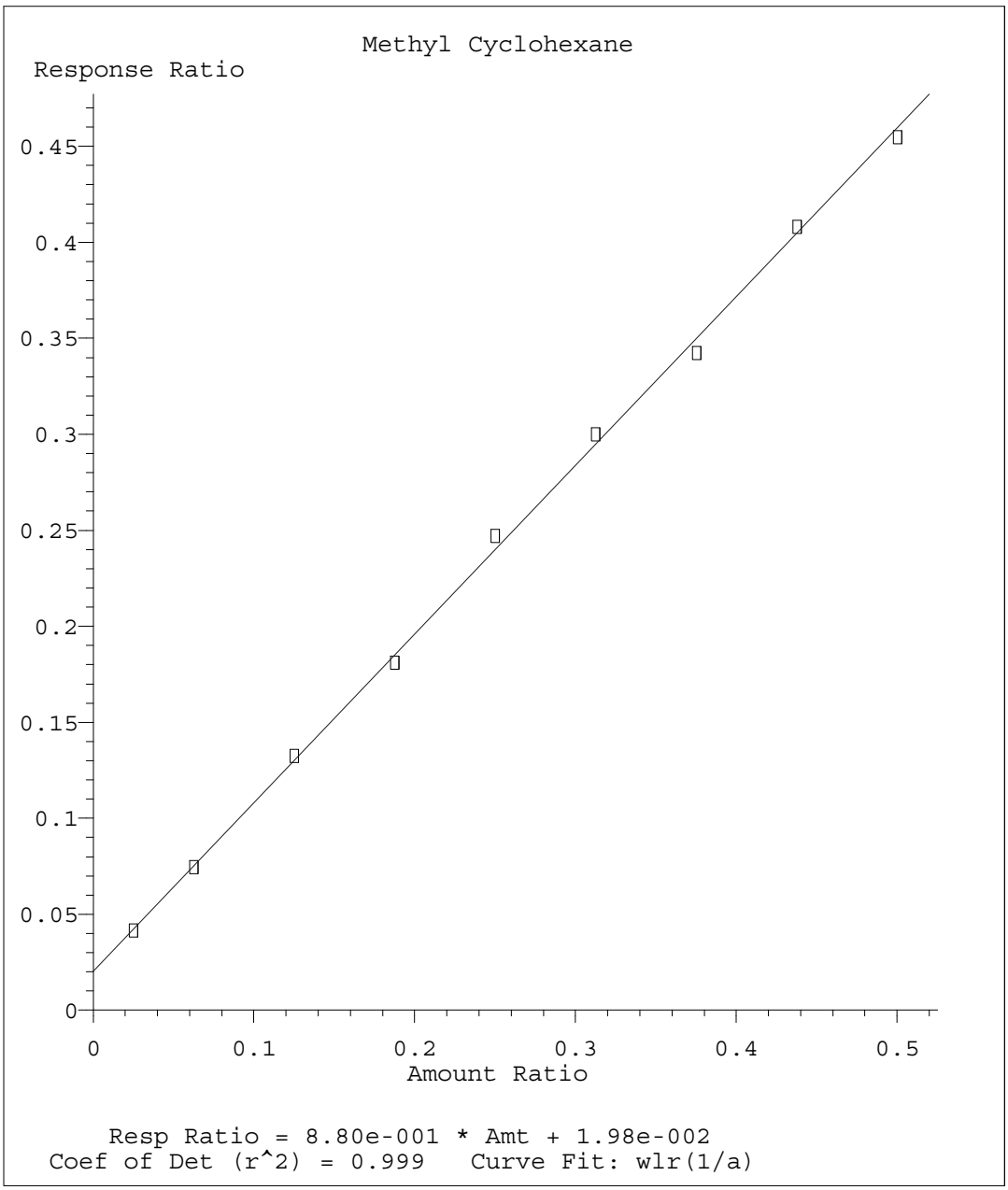


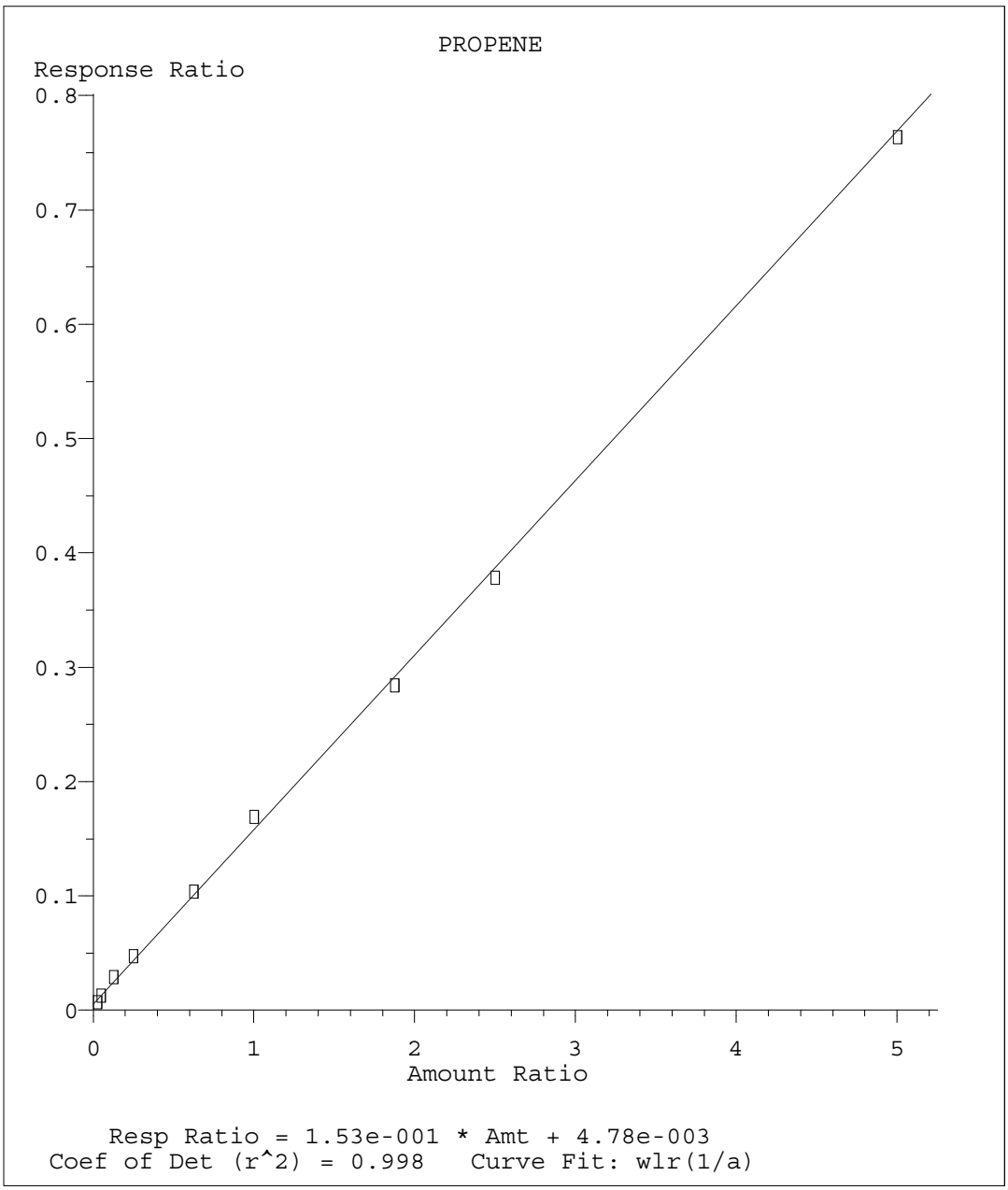
Method Name: C:\msdchem\1\methods\V835J21O.M



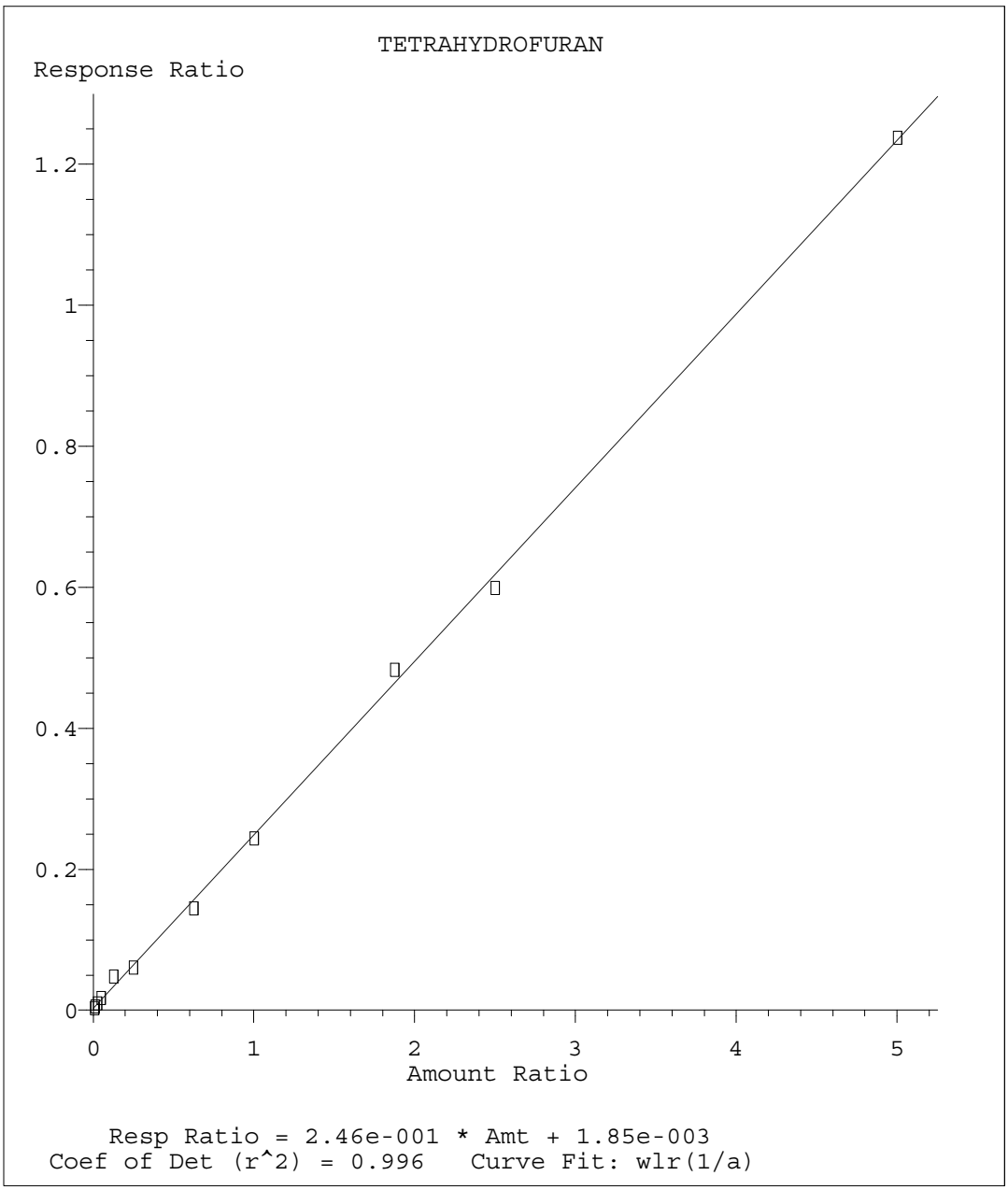
Method Name: C:\msdchem\1\methods\V835J21O.M



Method Name: C:\msdchem\1\methods\V835J21O.M



Method Name: C:\msdchem\1\methods\V835J21O.M



Method Name: C:\msdchem\1\methods\V835J21O.M

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 04A.D
Acq On : 21 Oct 2015 12:53 am
Operator : 189
Sample : RL VMS 1a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 14:36:59 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.425	168	180879	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	317070	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	59456	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.332	152	153044	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.425	168	180879	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	317070	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	59456	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.332	152	153044	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.184	111	112764	40.2908966	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 100.73%				
46) a,a,a-Trifluorotoluene	5.132	146	167794	41.0179125	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.54%				
50) TOLUENE-D8	5.595	98	400872	41.9822154	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.96%				
68) 4-BROMOFLUOROBENZENE	7.483	95	160751	39.0965940	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 97.74%				
Target Compounds							Qvalue
3) PROPENE	1.669	41	781	Below Cal	#		11
7) 1,3-BUTADIENE	1.978	39	1344	0.3188944	ppb		87
13) ACROLEIN	2.968	56	538	Below Cal	#		13
16) ACETONE	3.193	43	2036	Below Cal	#		51
19) METHYLENE CHLORIDE	3.161	84	1916	0.5770445	ppb		92
20) ACRYLONITRILE	3.611	53	32542	27.1708781	ppb	#	52
29) 2-BUTANONE (MEK)	4.251	43	508	0.3056360	ppb	#	51
31) TETRAHYDROFURAN	4.123	42	2697	2.1204516	ppb	#	30
37) 2,2,4-TRIMETHYLPENTANE	4.335	57	27450	1.7901141	ppb	#	1
38) HEPTANE	4.335	43	7996	1.3191500	ppb	#	28
43) 1,2-DICHLOROPROPANE	5.129	62	4514	1.8320647	ppb	#	57
49) 4-METHYL-2-PENTANONE (...	5.782	43	5889	1.5062707	ppb	#	41
52) TRANS-1,3-DICHLOROPROPENE	5.936	75	3700	0.7175635	ppb	#	1
55) TETRACHLOROETHENE	5.878	164	1358	0.6553222	ppb		94
72) TRANS-1,4-DICHLORO-2-B...	7.843	53	2476	1.7718023	ppb	#	28
78) tert-Butylbenzene	7.978	119	9026	0.9225548	ppb	#	27
98) Bromoethane	2.968	108	3058	1.0876909	ppb		96
99) 2-PROPANOL	3.084	45	1413	5.5948585	ppb	#	54
100) Methyl Acetate	3.255	43	51839	19.6034971	ppb	#	98
101) ACETONITRILE	3.480	41	19950	49.4064984	ppb		99
102) ALLYL CHLORIDE	3.097	76	8850	5.3949623	ppb		92
103) tert-BUTYL ALCOHOL	3.345	59	2179	4.9623198	ppb	#	60
104) chloroprene	3.611	53	32542	5.3575448	ppb		100
105) ETHYL TERT-BUTYL ETHER	3.734	59	12576	1.0383495	ppb		94
106) PROPIONITRILE	4.438	54	21761	47.2547126	ppb	#	81
107) Ethyl Acetate	4.123	43	32628	9.6467413	ppb		97
108) METHACRYLONITRILE	4.447	67	62610	47.4375867	ppb		97
109) Cyclohexane	4.065	56	10384	1.1655186	ppb		94
110) tert-butyl formate	4.335	59	35213	9.7135132	ppb		98
111) ISOBUTANOL	4.470	43	21426	87.4433567	ppb	#	99
112) t-Amyl Alcohol	4.544	59	1634	5.0261639	ppb		97
113) TERT-AMYL METHYL ETHER	4.464	73	13476	1.0113001	ppb	#	78
115) N-BUTANOL	4.872	56	20187	194.9143404	ppb		99
116) Methyl Cyclohexane	4.759	83	13169	0.9877164	ppb	#	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 04A.D
Acq On : 21 Oct 2015 12:53 am
Operator : 189
Sample : RL VMS 1a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 14:36:59 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

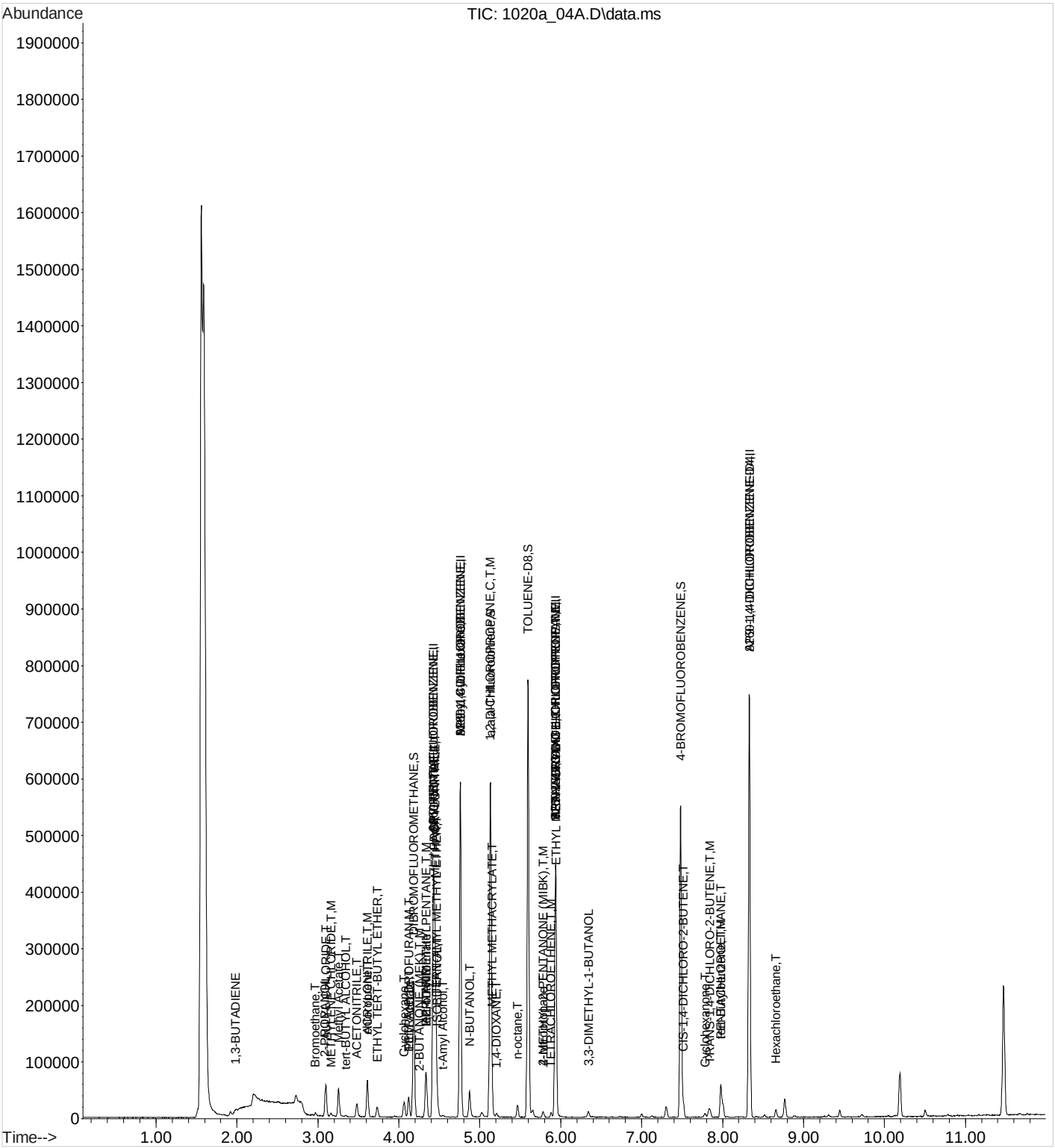
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
117) 2-nitropropane	5.782	43	5889	4.6359358 ppb		86
118) METHYL METHACRYLATE	5.152	41	17956	4.9578990 ppb	#	1
119) 1,4-DIOXANE	5.206	88	3125	104.1598492 ppb		94
120) n-octane	5.467	85	3054	1.0986925 ppb		84
121) 3,3-DIMETHYL-1-BUTANOL	6.341	57	5106	10.7857239 ppb		90
123) ETHYL METHACRYLATE	5.943	69	18846	5.0062641 ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.512	53	5866	4.7959092 ppb	#	39
125) Cyclohexanone	7.782	55	3049	12.6835977 ppb		93
126) PENTACHLOROETHANE	7.978	117	9155	4.6347365 ppb		95
127) Hexachloroethane	8.656	117	2591	1.0291367 ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 04A.D
Acq On : 21 Oct 2015 12:53 am
Operator : 189
Sample : RL VMS 1a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 14:36:59 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 14.D
Acq On : 21 Oct 2015 4:22 am
Operator : 189
Sample : SSCV VMS 10a ppb 15H19752
Misc : water IS/SURR 15H19728
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 21 14:35:49 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.428	168	173533	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	307612	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	58240	40.0000000	ppb	#	0.00
84) 8260-1,4-DICHLOROBENZE...	8.332	152	143933	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.428	168	173533	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	307612	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	58240	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	8.332	152	143933	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.184	111	107376	39.9898481	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.97%				
46) a,a,a-Trifluorotoluene	5.132	146	159569	40.2066167	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 100.52%				
50) TOLUENE-D8	5.595	98	386831	41.7573356	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.39%				
68) 4-BROMOFLUOROBENZENE	7.483	95	154466	38.3523926	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 95.88%				
Target Compounds							Qvalue
3) PROPENE	1.666	41	1138	0.4659213	ppb	#	65
7) 1,3-BUTADIENE	1.978	39	5121	1.2665094	ppb		93
16) ACETONE	3.190	43	1865	Below Cal		94	
19) METHYLENE CHLORIDE	3.161	84	2119	0.6651978	ppb		93
20) ACRYLONITRILE	3.611	53	275535	239.7961906	ppb	#	52
24) 1,1-DICHLOROETHANE	3.611	63	4533	0.7665431	ppb	#	44
25) VINYL ACETATE	3.730	43	15596	2.2565525	ppb	#	78
29) 2-BUTANONE (MEK)	4.335	43	75544	47.3747479	ppb	#	51
31) TETRAHYDROFURAN	4.120	42	21992	20.2725073	ppb	#	42
32) CHLOROFORM	4.065	83	3919	0.6860714	ppb	#	54
37) 2,2,4-TRIMETHYLPENTANE	4.335	57	265522	18.0486591	ppb	#	1
38) HEPTANE	4.335	43	74774	12.8581381	ppb	#	28
42) TRICHLOROETHENE	4.756	130	3623	1.2950592	ppb	#	76
43) 1,2-DICHLOROPROPANE	5.132	62	4281	1.7909207	ppb	#	55
49) 4-METHYL-2-PENTANONE (...	5.782	43	63135	16.6449901	ppb	#	41
52) TRANS-1,3-DICHLOROPROPENE	5.936	75	3437	0.6870526	ppb	#	1
55) TETRACHLOROETHENE	5.881	164	9141	4.5032199	ppb		98
57) 2-HEXANONE	6.338	58	1803	1.3261363	ppb	#	1
61) 1,1,1,2-TETRACHLOROETHANE	6.669	133	1194	0.4030003	ppb	#	84
69) Bromobenzene	7.515	77	18319	2.5943961	ppb	#	31
72) TRANS-1,4-DICHLORO-2-B...	7.746	53	2246	1.6407737	ppb	#	79
73) n-Propylbenzene	7.515	91	8233	0.4834766	ppb	#	68
78) tert-Butylbenzene	7.978	119	93386	9.7443510	ppb	#	27
98) Bromoethane	2.972	108	25962	9.6252552	ppb		98
99) 2-PROPANOL	3.078	45	12037	49.6788212	ppb		99
100) Methyl Acetate	3.251	43	497513	196.1044484	ppb	#	100
101) ACETONITRILE	3.480	41	193388	499.2025221	ppb		99
102) ALLYL CHLORIDE	3.097	76	75936	48.2501797	ppb		99
103) tert-BUTYL ALCOHOL	3.345	59	21379	50.7482395	ppb		98
104) chloroprene	3.611	53	275535	47.2829336	ppb		99
105) ETHYL TERT-BUTYL ETHER	3.730	59	114000	9.8109699	ppb		100
106) PROPIONITRILE	4.438	54	217759	492.8882491	ppb	#	91
107) Ethyl Acetate	4.120	43	332097	102.3437217	ppb		99
108) METHACRYLONITRILE	4.447	67	629292	496.9780042	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 14.D
Acq On : 21 Oct 2015 4:22 am
Operator : 189
Sample : SSCV VMS 10a ppb 15H19752
Misc : water IS/SURR 15H19728
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 21 14:35:49 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

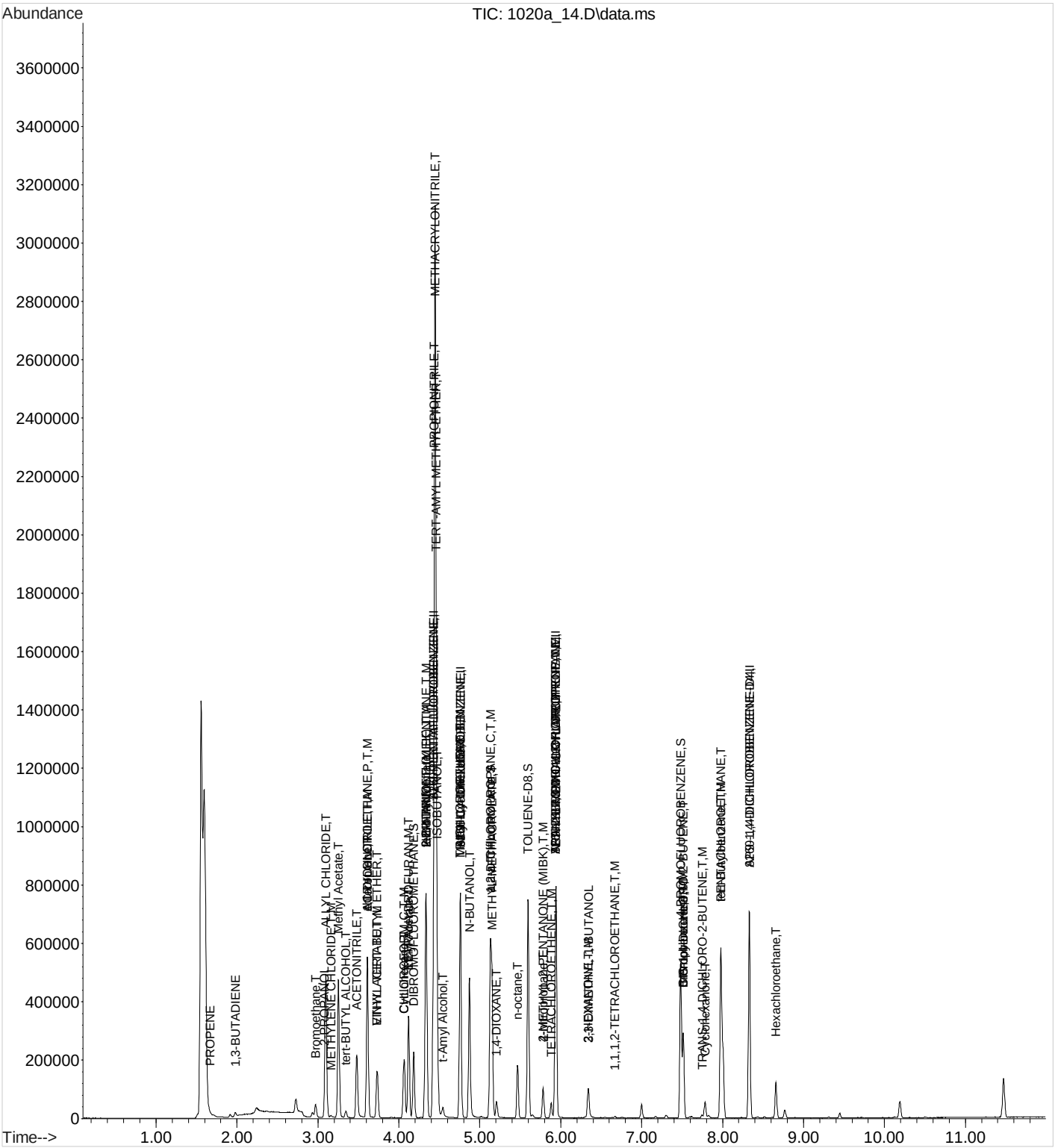
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
109) Cyclohexane	4.065	56	80124	9.3739626	ppb		100
110) tert-butyl formate	4.335	59	345967	99.4750247	ppb		99
111) ISOBUTANOL	4.470	43	239118	1017.1946402	ppb	#	100
112) t-Amyl Alcohol	4.544	59	14357	46.0314192	ppb		86
113) TERT-AMYL METHYL ETHER	4.460	73	125670	9.8300730	ppb	#	98
115) N-BUTANOL	4.872	56	203696	2027.2457077	ppb		99
116) Methyl Cyclohexane	4.763	83	71236	9.6245028	ppb		99
117) 2-nitropropane	5.782	43	63135	51.2292409	ppb		97
118) METHYL METHACRYLATE	5.152	41	178140	50.6992347	ppb		100
119) 1,4-DIOXANE	5.206	88	29212	1003.6065613	ppb		98
120) n-octane	5.467	85	26130	9.6894342	ppb		96
121) 3,3-DIMETHYL-1-BUTANOL	6.341	57	43610	94.9525113	ppb		95
123) ETHYL METHACRYLATE	5.943	69	183045	49.6394271	ppb		100
124) CIS-1,4-DICHLORO-2-BUTENE	7.515	53	60391	50.4052114	ppb		99
125) Cyclohexanone	7.782	55	21314	90.5157841	ppb		98
126) PENTACHLOROETHANE	7.978	117	98521	50.9178235	ppb		99
127) Hexachloroethane	8.656	117	24300	9.8534032	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 14.D
Acq On : 21 Oct 2015 4:22 am
Operator : 189
Sample : SSCV VMS 10a ppb 15H19752
Misc : water IS/SURR 15H19728
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 21 14:35:49 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 04.D
Acq On : 21 Oct 2015 12:53 am
Operator : 189
Sample : STD VMS 1a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 14:24:07 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:22:15 2015
Response via : Initial Calibration

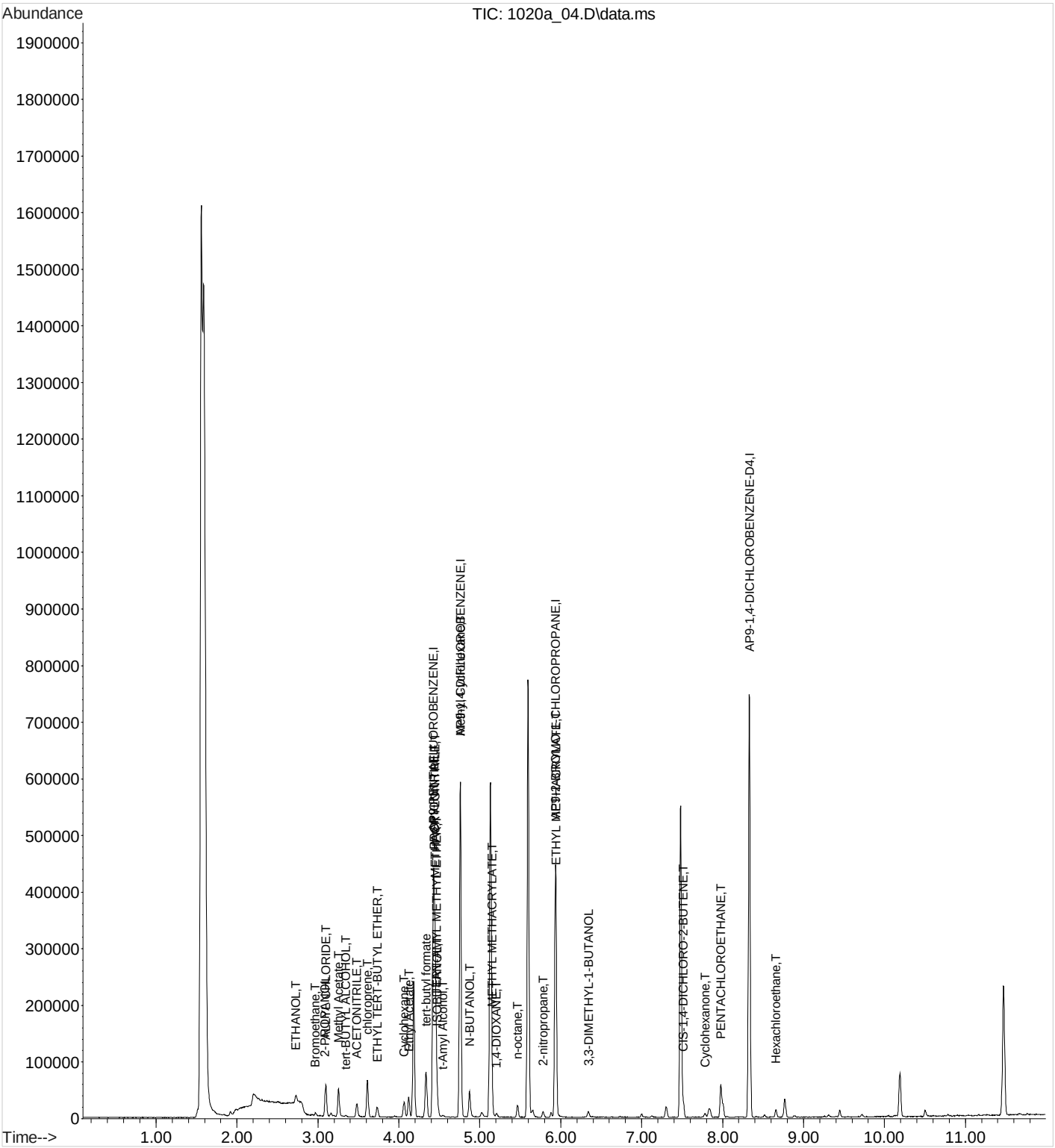
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.42
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.76
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.94
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.33
96) AP9-PENTAFLUOROBENZENE	4.425	168	180879	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	317070	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	59456	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.332	152	153044	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery	= 0.00%#		
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery	= 0.00%#		
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery	= 0.00%#		
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery	= 0.00%#		
Target Compounds						Qvalue
97) ETHANOL	2.727	45	14288	235.4385616	ppb #	91
98) Bromoethane	2.968	108	3058	1.0773160	ppb	96
99) 2-PROPANOL	3.084	45	1413	4.8017382	ppb #	54
100) Methyl Acetate	3.255	43	51839	19.0383996	ppb #	98
101) ACETONITRILE	3.480	41	19950	46.6977340	ppb	99
102) ALLYL CHLORIDE	3.097	76	8850	5.3853553	ppb	92
103) tert-BUTYL ALCOHOL	3.345	59	2179	4.6318959	ppb #	60
104) chloroprene	3.611	53	32542	5.2755143	ppb	100
105) ETHYL TERT-BUTYL ETHER	3.734	59	12576	1.0277449	ppb	94
106) PROPIONITRILE	4.438	54	21761	45.0100175	ppb #	81
107) Ethyl Acetate	4.123	43	32628	9.2806124	ppb	97
108) METHACRYLONITRILE	4.447	67	62610	45.9818579	ppb	97
109) Cyclohexane	4.065	56	10384	1.1852895	ppb	94
110) tert-butyl formate	4.335	59	35213	9.5713027	ppb	98
111) ISOBUTANOL	4.470	43	21426	81.0704294	ppb #	99
112) t-Amyl Alcohol	4.544	59	1634	4.7982813	ppb	97
113) TERT-AMYL METHYL ETHER	4.464	73	13476	0.9892485	ppb #	78
115) N-BUTANOL	4.872	56	20187	180.5986210	ppb	99
116) Methyl Cyclohexane	4.759	83	13169	1.6814645	ppb #	80
117) 2-nitropropane	5.782	43	5889	4.4853218	ppb	86
118) METHYL METHACRYLATE	5.152	41	17956	4.9063467	ppb #	1
119) 1,4-DIOXANE	5.206	88	3125	96.7406524	ppb	94
120) n-octane	5.467	85	3054	1.0732885	ppb	84
121) 3,3-DIMETHYL-1-BUTANOL	6.341	57	5106	10.1486332	ppb	90
123) ETHYL METHACRYLATE	5.943	69	18846	4.9406044	ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.512	53	5866	4.6691676	ppb #	39
125) Cyclohexanone	7.782	55	3049	12.2254418	ppb	93
126) PENTACHLOROETHANE	7.978	117	9155	4.8711726	ppb	95
127) Hexachloroethane	8.656	117	2591	1.0033368	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 04.D
Acq On : 21 Oct 2015 12:53 am
Operator : 189
Sample : STD VMS 1a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 14:24:07 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:22:15 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 05.D
Acq On : 21 Oct 2015 1:13 am
Operator : 189
Sample : STD VMS 2.5a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 14:25:02 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:22:15 2015
Response via : Initial Calibration

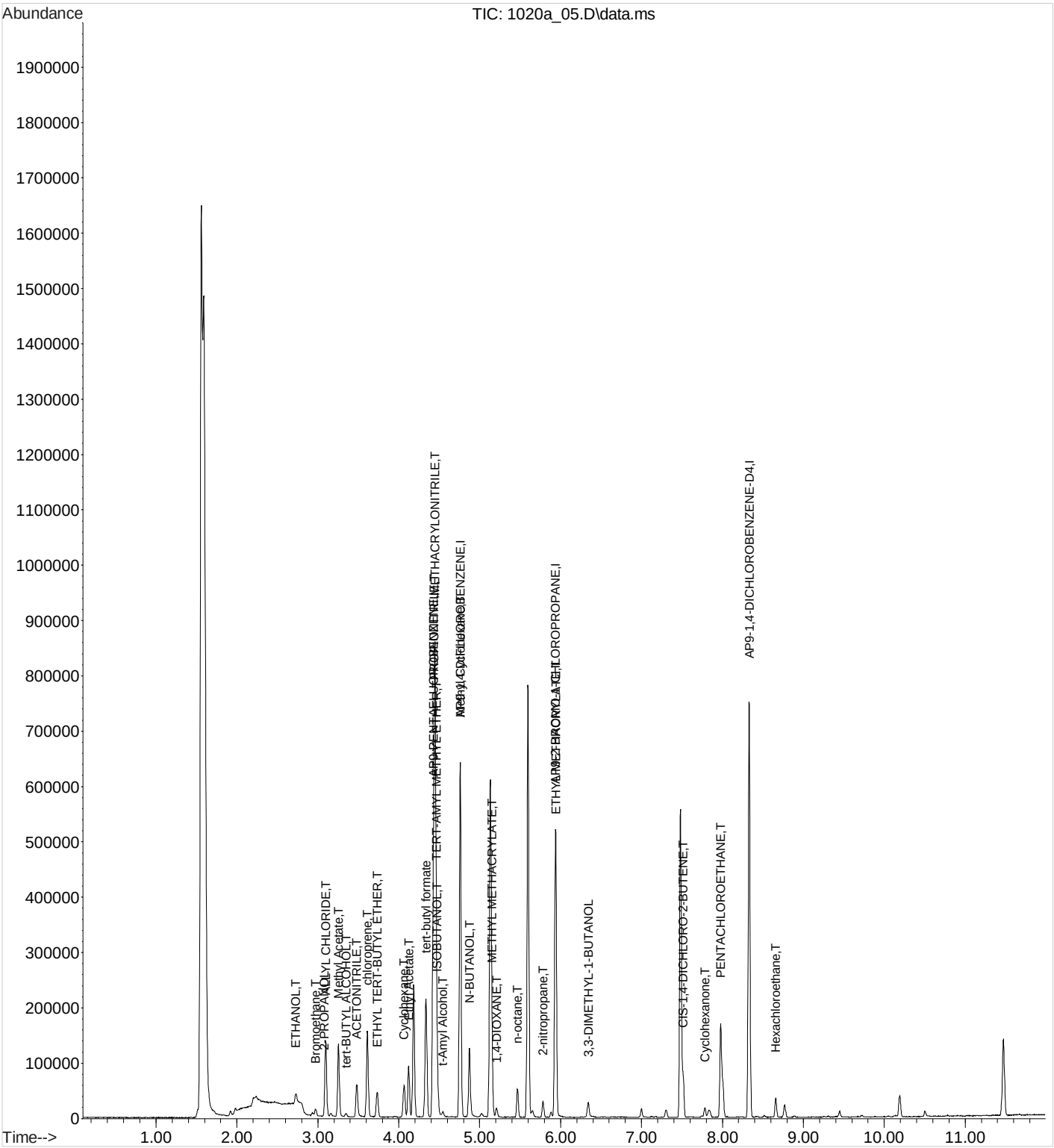
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.42
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.76
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.94
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.33
96) AP9-PENTAFLUOROBENZENE	4.428	168	182901	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	325995	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	61842	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.332	152	154892	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery	= 0.00%#		
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery	= 0.00%#		
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery	= 0.00%#		
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery	= 0.00%#		
Target Compounds						Qvalue
97) ETHANOL	2.727	45	21281	346.7929454	ppb #	87
98) Bromoethane	2.972	108	7313	2.5478466	ppb	99
99) 2-PROPANOL	3.081	45	3236	10.8751911	ppb #	83
100) Methyl Acetate	3.255	43	138640	50.3540540	ppb #	99
101) ACETONITRILE	3.480	41	52230	120.9052059	ppb	98
102) ALLYL CHLORIDE	3.097	76	20987	12.6297142	ppb	100
103) tert-BUTYL ALCOHOL	3.348	59	6027	12.6699476	ppb	97
104) chloroprene	3.612	53	78330	12.5580081	ppb	100
105) ETHYL TERT-BUTYL ETHER	3.734	59	32320	2.6120785	ppb	100
106) PROPIONITRILE	4.438	54	59125	120.9409999	ppb #	93
107) Ethyl Acetate	4.123	43	88530	24.9028305	ppb	99
108) METHACRYLONITRILE	4.448	67	166794	121.1421573	ppb	100
109) Cyclohexane	4.065	56	23210	2.6200343	ppb	97
110) tert-butyl formate	4.335	59	97095	26.0997867	ppb	100
111) ISOBUTANOL	4.473	43	64250	240.4177746	ppb #	99
112) t-Amyl Alcohol	4.544	59	4438	12.8882223	ppb	98
113) TERT-AMYL METHYL ETHER	4.464	73	33824	2.4555084	ppb #	97
115) N-BUTANOL	4.875	56	55221	480.4974944	ppb	98
116) Methyl Cyclohexane	4.759	83	24213	3.0069605	ppb	89
117) 2-nitropropane	5.782	43	17224	12.7594009	ppb	96
118) METHYL METHACRYLATE	5.152	41	47718	12.6816302	ppb #	67
119) 1,4-DIOXANE	5.210	88	8243	248.1924142	ppb	99
120) n-octane	5.467	85	7138	2.4398785	ppb	91
121) 3,3-DIMETHYL-1-BUTANOL	6.341	57	13255	25.6242221	ppb	94
123) ETHYL METHACRYLATE	5.943	69	51509	12.9824354	ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.515	53	16223	12.4148287	ppb #	38
125) Cyclohexanone	7.782	55	6360	24.5175131	ppb	90
126) PENTACHLOROETHANE	7.978	117	27993	14.3197943	ppb	99
127) Hexachloroethane	8.656	117	6769	2.5200897	ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 05.D
Acq On : 21 Oct 2015 1:13 am
Operator : 189
Sample : STD VMS 2.5a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 14:25:02 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:22:15 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 06.D
Acq On : 21 Oct 2015 1:34 am
Operator : 189
Sample : STD VMS 5a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 14:25:39 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:22:15 2015
Response via : Initial Calibration

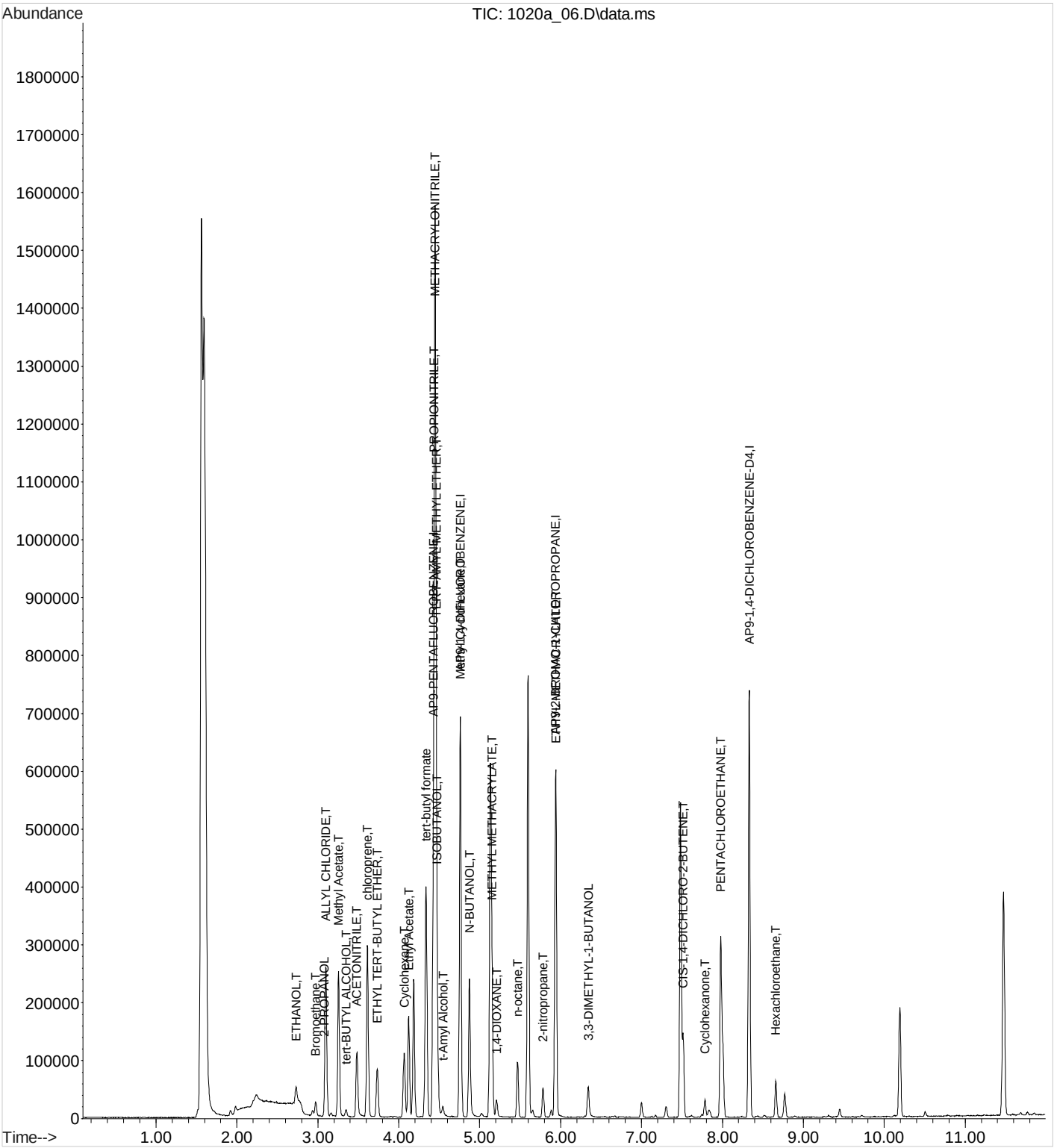
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.42
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.76
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.94
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.33
96) AP9-PENTAFLUOROBENZENE	4.428	168	178910	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	319965	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	59763	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.332	152	149548	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			
Target Compounds						Qvalue
97) ETHANOL	2.731	45	32476	541.0310867	ppb #	92
98) Bromoethane	2.972	108	14171	5.0473064	ppb	95
99) 2-PROPANOL	3.081	45	6298	21.6377701	ppb	99
100) Methyl Acetate	3.255	43	263916	97.9925539	ppb #	100
101) ACETONITRILE	3.483	41	102103	241.6267108	ppb	99
102) ALLYL CHLORIDE	3.097	76	40342	24.8188726	ppb	100
103) tert-BUTYL ALCOHOL	3.348	59	11497	24.7081155	ppb #	95
104) chloroprene	3.612	53	149781	24.5488313	ppb	99
105) ETHYL TERT-BUTYL ETHER	3.734	59	59273	4.8972610	ppb	99
106) PROPIONITRILE	4.438	54	112775	235.8287240	ppb #	91
107) Ethyl Acetate	4.123	43	164285	47.2430170	ppb	100
108) METHACRYLONITRILE	4.451	67	316391	234.9202557	ppb	99
109) Cyclohexane	4.068	56	44167	5.0969596	ppb	98
110) tert-butyl formate	4.335	59	179513	49.3307209	ppb	100
111) ISOBUTANOL	4.473	43	119103	455.6145721	ppb #	100
112) t-Amyl Alcohol	4.547	59	7990	23.7210530	ppb	94
113) TERT-AMYL METHYL ETHER	4.464	73	63515	4.7138334	ppb #	96
115) N-BUTANOL	4.872	56	105220	932.8109212	ppb	100
116) Methyl Cyclohexane	4.763	83	42312	5.3536644	ppb	94
117) 2-nitropropane	5.782	43	31412	23.7082948	ppb	98
118) METHYL METHACRYLATE	5.152	41	89519	24.2391027	ppb	87
119) 1,4-DIOXANE	5.210	88	14867	456.0736796	ppb	97
120) n-octane	5.470	85	14135	4.9226158	ppb	97
121) 3,3-DIMETHYL-1-BUTANOL	6.341	57	23542	46.3684712	ppb	98
123) ETHYL METHACRYLATE	5.943	69	91163	23.7762193	ppb #	37
124) CIS-1,4-DICHLORO-2-BUTENE	7.515	53	29524	23.3795364	ppb #	38
125) Cyclohexanone	7.785	55	11755	46.8913860	ppb	96
126) PENTACHLOROETHANE	7.978	117	51326	27.1691399	ppb	97
127) Hexachloroethane	8.660	117	12596	4.8526087	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 06.D
Acq On : 21 Oct 2015 1:34 am
Operator : 189
Sample : STD VMS 5a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 14:25:39 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:22:15 2015
Response via : Initial Calibration



V835J21O.M Wed Oct 21 14:26:05 2015 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 07.D
Acq On : 21 Oct 2015 1:55 am
Operator : 189
Sample : STD VMS 7.5a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 21 14:26:26 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:22:15 2015
Response via : Initial Calibration

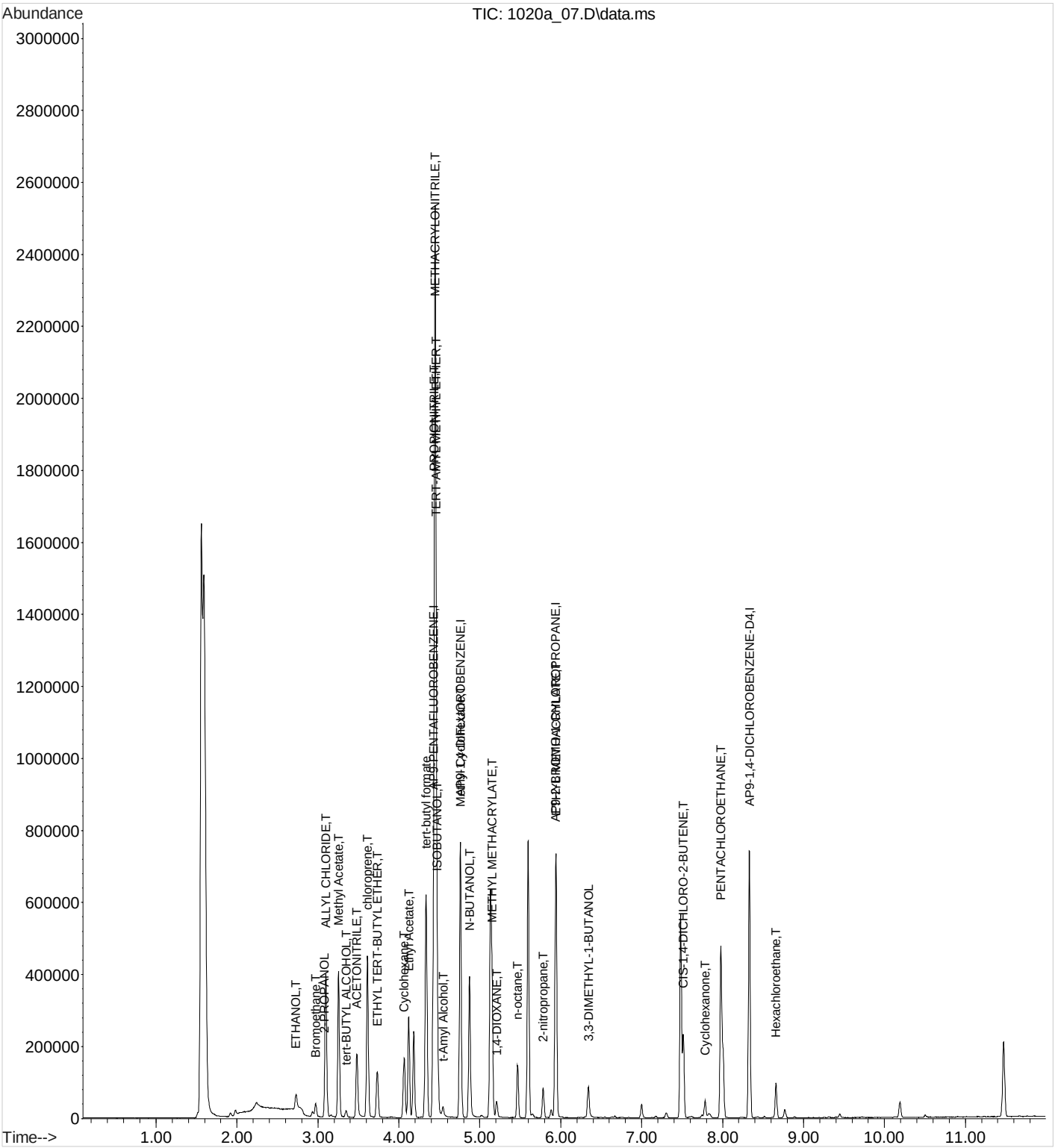
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.42
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.76
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.94
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.33
96) AP9-PENTAFLUOROBENZENE	4.428	168	183469	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.760	114	323779	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	60629	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.332	152	152508	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			
Target Compounds						Qvalue
97) ETHANOL	2.727	45	45471	738.6966238	ppb #	92
98) Bromoethane	2.972	108	20747	7.2058696	ppb	100
99) 2-PROPANOL	3.081	45	10019	33.5665066	ppb	94
100) Methyl Acetate	3.255	43	421811	152.7274776	ppb #	99
101) ACETONITRILE	3.480	41	157132	362.6126908	ppb	96
102) ALLYL CHLORIDE	3.097	76	60424	36.2498336	ppb	99
103) tert-BUTYL ALCOHOL	3.348	59	18207	38.1562254	ppb	97
104) chloroprene	3.612	53	224738	35.9188588	ppb	100
105) ETHYL TERT-BUTYL ETHER	3.734	59	90503	7.2917410	ppb	99
106) PROPIONITRILE	4.438	54	179887	366.8221620	ppb #	92
107) Ethyl Acetate	4.123	43	270107	75.7438671	ppb	100
108) METHACRYLONITRILE	4.451	67	510176	369.3926843	ppb	100
109) Cyclohexane	4.065	56	65498	7.3707767	ppb	99
110) tert-butyl formate	4.335	59	278111	74.5266578	ppb	100
111) ISOBUTANOL	4.473	43	194561	725.7760233	ppb #	100
112) t-Amyl Alcohol	4.547	59	13499	39.0805533	ppb	97
113) TERT-AMYL METHYL ETHER	4.460	73	99756	7.2195291	ppb #	99
115) N-BUTANOL	4.872	56	168157	1473.2080142	ppb	99
116) Methyl Cyclohexane	4.763	83	58591	7.3260908	ppb	98
117) 2-nitropropane	5.782	43	51919	38.7244132	ppb	99
118) METHYL METHACRYLATE	5.152	41	144381	38.6335983	ppb	97
119) 1,4-DIOXANE	5.210	88	23507	712.6276561	ppb	98
120) n-octane	5.467	85	21114	7.2664860	ppb	96
121) 3,3-DIMETHYL-1-BUTANOL	6.341	57	38782	75.4854800	ppb	97
123) ETHYL METHACRYLATE	5.943	69	148570	38.1950689	ppb	83
124) CIS-1,4-DICHLORO-2-BUTENE	7.515	53	48718	38.0278818	ppb	100
125) Cyclohexanone	7.782	55	18552	72.9479610	ppb	96
126) PENTACHLOROETHANE	7.978	117	79221	41.3362215	ppb	99
127) Hexachloroethane	8.660	117	18420	6.9949438	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 07.D
Acq On : 21 Oct 2015 1:55 am
Operator : 189
Sample : STD VMS 7.5a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 21 14:26:26 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:22:15 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 08.D
Acq On : 21 Oct 2015 2:16 am
Operator : 189
Sample : MSTD VMS 10a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 14:27:11 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:26:52 2015
Response via : Initial Calibration

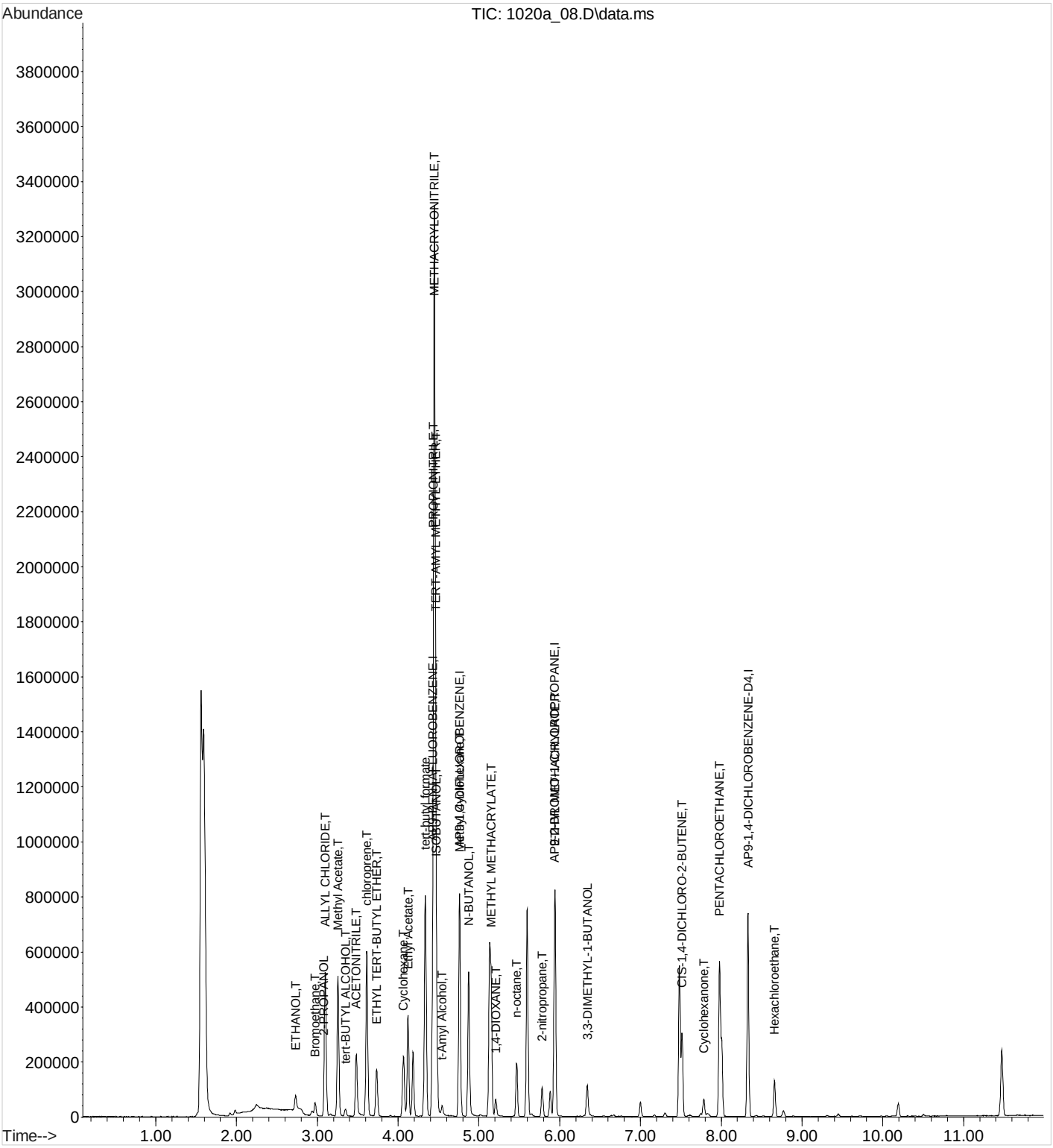
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.42
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.76
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.94
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.33
96) AP9-PENTAFLUOROBENZENE	4.428	168	177321	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	318367	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	59857	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.332	152	148355	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			
Target Compounds						Qvalue
97) ETHANOL	2.731	45	59493	734.3709267	ppb #	100
98) Bromoethane	2.972	108	27827	9.8683590	ppb	100
99) 2-PROPANOL	3.081	45	14424	54.4545977	ppb	100
100) Methyl Acetate	3.255	43	533861	201.7304525	ppb #	100
101) ACETONITRILE	3.483	41	209406	517.0983379	ppb	100
102) ALLYL CHLORIDE	3.097	76	80551	49.5356986	ppb	100
103) tert-BUTYL ALCOHOL	3.351	59	23059	50.5479504	ppb	100
104) chloroprene	3.612	53	302358	50.0046705	ppb	100
105) ETHYL TERT-BUTYL ETHER	3.734	59	119958	9.9517130	ppb	100
106) PROPIONITRILE	4.438	54	236980	522.0039624	ppb	100
107) Ethyl Acetate	4.123	43	344656	102.4810031	ppb	100
108) METHACRYLONITRILE	4.451	67	667420	519.3723176	ppb	100
109) Cyclohexane	4.065	56	85884	9.5502494	ppb	100
110) tert-butyl formate	4.338	59	360665	100.3728867	ppb	100
111) ISOBUTANOL	4.473	43	259090	1074.9669247	ppb #	100
112) t-Amyl Alcohol	4.544	59	16692	50.1836294	ppb	100
113) TERT-AMYL METHYL ETHER	4.464	73	133545	10.2525776	ppb #	100
115) N-BUTANOL	4.872	56	224471	2092.5152505	ppb	100
116) Methyl Cyclohexane	4.763	83	78639	8.4291536	ppb	100
117) 2-nitropropane	5.782	43	65916	51.0329140	ppb	100
118) METHYL METHACRYLATE	5.152	41	183736	50.0441073	ppb	100
119) 1,4-DIOXANE	5.210	88	32435	1036.8079797	ppb	100
120) n-octane	5.467	85	28571	9.9947469	ppb	100
121) 3,3-DIMETHYL-1-BUTANOL	6.341	57	50518	100.5292930	ppb	100
123) ETHYL METHACRYLATE	5.943	69	192012	50.0370309	ppb	100
124) CIS-1,4-DICHLORO-2-BUTENE	7.515	53	63240	51.2686098	ppb	100
125) Cyclohexanone	7.785	55	25108	97.7763334	ppb	100
126) PENTACHLOROETHANE	7.978	117	94605	47.0908861	ppb	100
127) Hexachloroethane	8.660	117	25998	10.1738641	ppb	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 08.D
Acq On : 21 Oct 2015 2:16 am
Operator : 189
Sample : MSTD VMS 10a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 21 14:27:11 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:26:52 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 09.D
Acq On : 21 Oct 2015 2:37 am
Operator : 189
Sample : STD VMS 12.5a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 21 14:27:56 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:22:15 2015
Response via : Initial Calibration

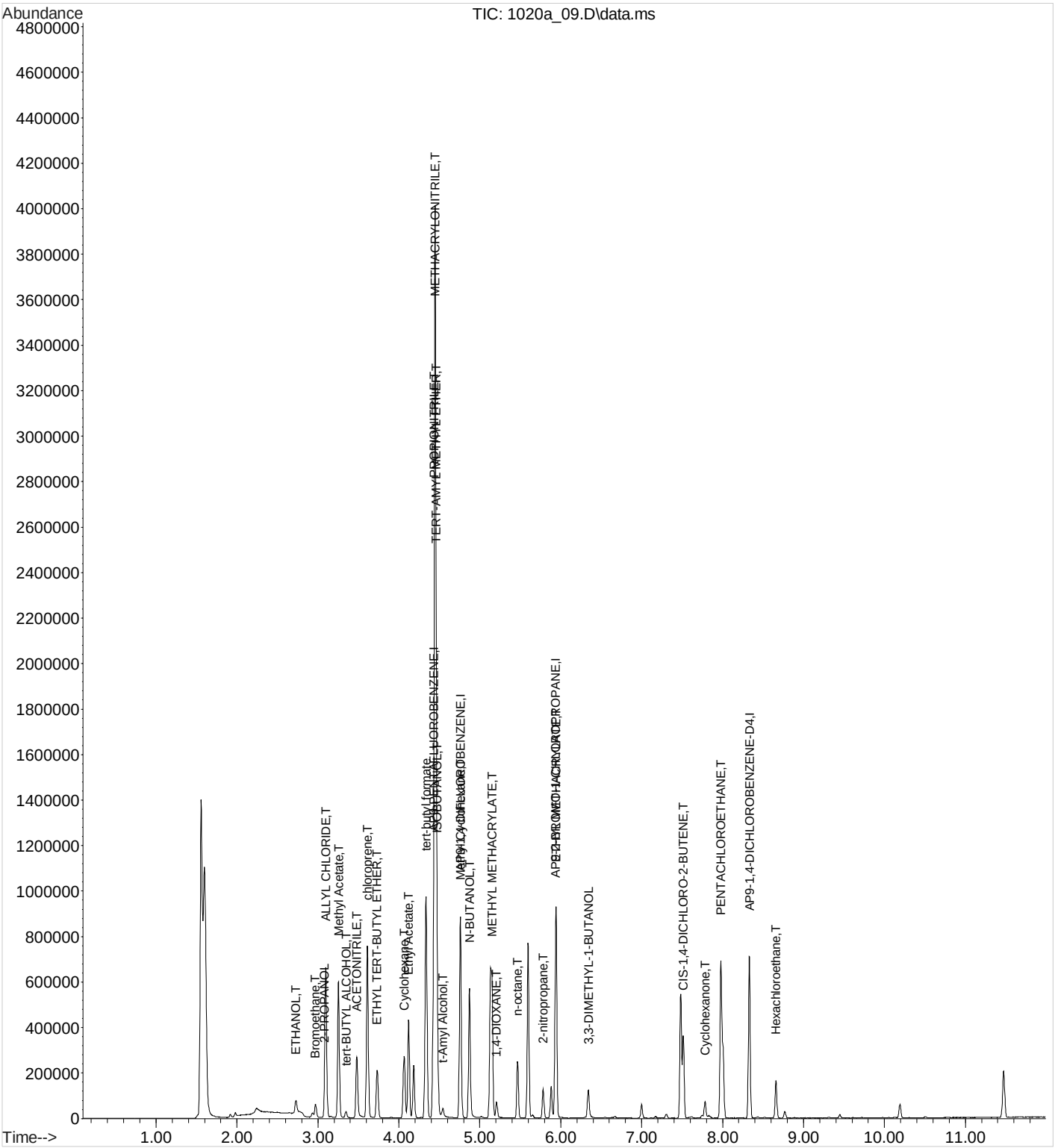
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.42
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.76
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.94
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.33
96) AP9-PENTAFLUOROBENZENE	4.428	168	177305	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.760	114	318404	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	59901	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.332	152	147677	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			
Target Compounds						Qvalue
97) ETHANOL	2.727	45	64837	1089.9240396	ppb #	98
98) Bromoethane	2.969	108	34294	12.3251140	ppb	99
99) 2-PROPANOL	3.078	45	13896	48.1740640	ppb	97
100) Methyl Acetate	3.255	43	630224	236.1217139	ppb #	99
101) ACETONITRILE	3.480	41	243580	581.6499543	ppb	100
102) ALLYL CHLORIDE	3.097	76	101391	62.9415833	ppb	99
103) tert-BUTYL ALCOHOL	3.348	59	24997	54.2071550	ppb	98
104) chloroprene	3.612	53	382165	63.2031378	ppb	99
105) ETHYL TERT-BUTYL ETHER	3.731	59	149875	12.4950837	ppb	99
106) PROPIONITRILE	4.438	54	274778	579.8016625	ppb	97
107) Ethyl Acetate	4.120	43	411703	119.4640894	ppb	100
108) METHACRYLONITRILE	4.448	67	810314	607.1043142	ppb	98
109) Cyclohexane	4.065	56	110471	12.8639757	ppb	98
110) tert-butyl formate	4.335	59	437894	121.4239018	ppb	100
111) ISOBUTANOL	4.470	43	295380	1140.1700378	ppb #	99
112) t-Amyl Alcohol	4.544	59	18172	54.4381735	ppb	99
113) TERT-AMYL METHYL ETHER	4.460	73	163749	12.2628160	ppb #	92
115) N-BUTANOL	4.872	56	243438	2168.7408297	ppb	99
116) Methyl Cyclohexane	4.763	83	95472	12.1391302	ppb	97
117) 2-nitropropane	5.782	43	77541	58.8112062	ppb	99
118) METHYL METHACRYLATE	5.152	41	226092	61.5191707	ppb	96
119) 1,4-DIOXANE	5.206	88	35837	1104.7583036	ppb	98
120) n-octane	5.467	85	35629	12.4688879	ppb	97
121) 3,3-DIMETHYL-1-BUTANOL	6.341	57	53235	105.3660356	ppb	96
123) ETHYL METHACRYLATE	5.943	69	236809	61.6198605	ppb	88
124) CIS-1,4-DICHLORO-2-BUTENE	7.515	53	75970	60.0207120	ppb	94
125) Cyclohexanone	7.782	55	28078	111.7467558	ppb	98
126) PENTACHLOROETHANE	7.978	117	115836	61.1758962	ppb	99
127) Hexachloroethane	8.660	117	31782	12.2158069	ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 09.D
Acq On : 21 Oct 2015 2:37 am
Operator : 189
Sample : STD VMS 12.5a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 21 14:27:56 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:22:15 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 10.D
Acq On : 21 Oct 2015 2:58 am
Operator : 189
Sample : STD VMS 15a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 21 14:28:40 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:22:15 2015
Response via : Initial Calibration

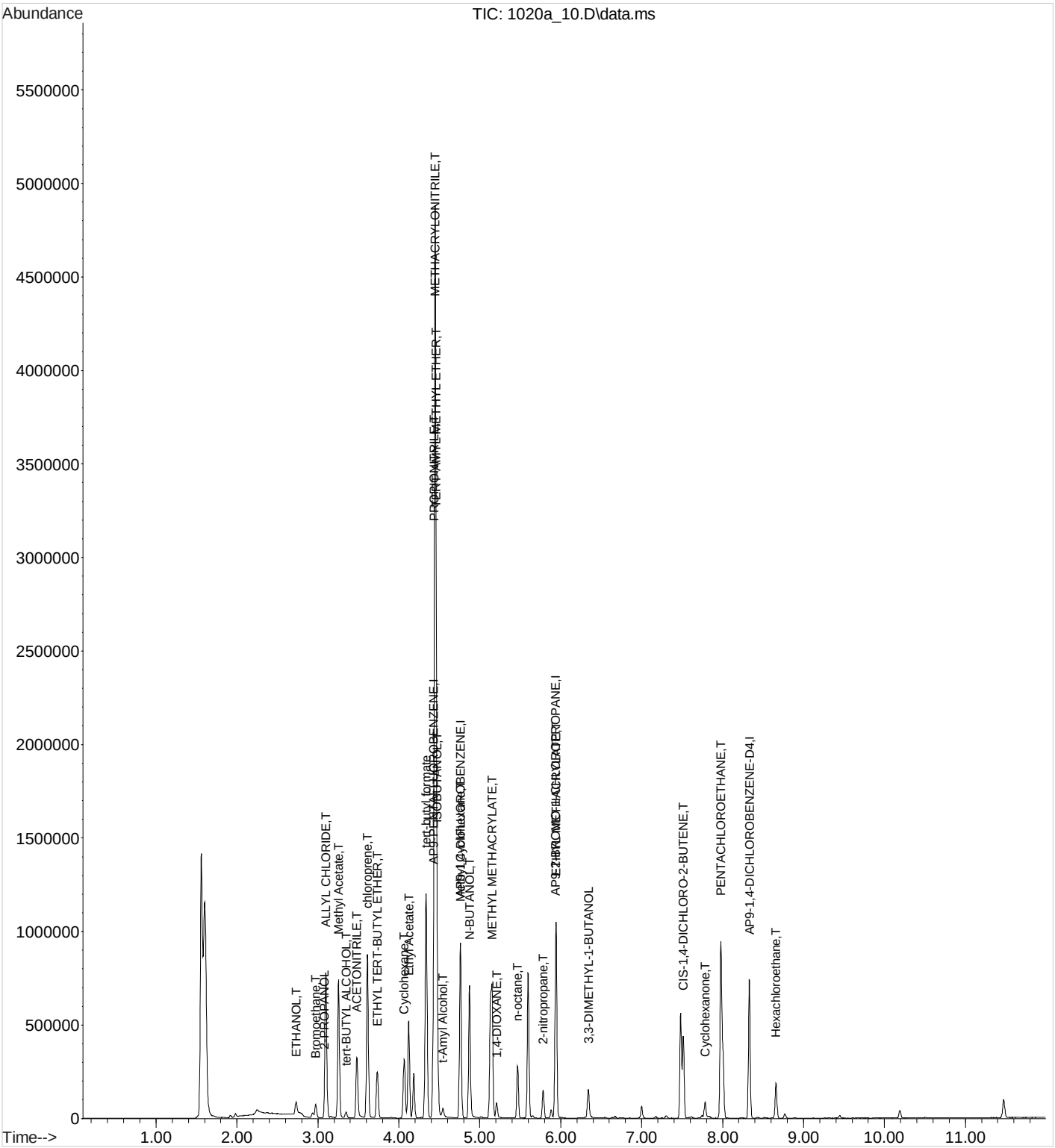
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.42
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.76
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.94
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.33
96) AP9-PENTAFLUOROBENZENE	4.428	168	181227	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	323884	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	60405	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.332	152	149922	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			
Target Compounds						Qvalue
97) ETHANOL	2.731	45	75587	1243.1356185	ppb #	96
98) Bromoethane	2.972	108	41158	14.4718864	ppb	99
99) 2-PROPANOL	3.078	45	17654	59.8776412	ppb	100
100) Methyl Acetate	3.255	43	769398	282.0266337	ppb #	100
101) ACETONITRILE	3.480	41	290050	677.6275016	ppb	98
102) ALLYL CHLORIDE	3.097	76	121375	73.7166484	ppb	98
103) tert-BUTYL ALCOHOL	3.348	59	29931	63.5020920	ppb	97
104) chloroprene	3.612	53	443037	71.6845905	ppb	100
105) ETHYL TERT-BUTYL ETHER	3.734	59	177479	14.4762151	ppb	99
106) PROPIONITRILE	4.438	54	339675	701.2278623	ppb #	90
107) Ethyl Acetate	4.123	43	494001	140.2423741	ppb	100
108) METHACRYLONITRILE	4.451	67	984737	721.8190081	ppb	99
109) Cyclohexane	4.065	56	127053	14.4747120	ppb	98
110) tert-butyl formate	4.335	59	540013	146.4999533	ppb	100
111) ISOBUTANOL	4.470	43	358922	1355.4599771	ppb #	100
112) t-Amyl Alcohol	4.544	59	23314	68.3306719	ppb	95
113) TERT-AMYL METHYL ETHER	4.460	73	199075	14.5856693	ppb #	92
115) N-BUTANOL	4.872	56	298774	2616.6829625	ppb	99
116) Methyl Cyclohexane	4.763	83	110877	13.8593236	ppb	98
117) 2-nitropropane	5.782	43	94122	70.1792717	ppb	97
118) METHYL METHACRYLATE	5.152	41	268482	71.8173659	ppb	95
119) 1,4-DIOXANE	5.210	88	41885	1269.3552055	ppb	98
120) n-octane	5.467	85	40204	13.8319170	ppb	95
121) 3,3-DIMETHYL-1-BUTANOL	6.341	57	66867	130.1080720	ppb	97
123) ETHYL METHACRYLATE	5.943	69	278069	71.7523725	ppb	83
124) CIS-1,4-DICHLORO-2-BUTENE	7.515	53	92444	72.4267387	ppb	96
125) Cyclohexanone	7.785	55	32600	128.6611823	ppb	100
126) PENTACHLOROETHANE	7.978	117	158884	83.2105010	ppb	100
127) Hexachloroethane	8.660	117	37863	14.4316883	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 10.D
Acq On : 21 Oct 2015 2:58 am
Operator : 189
Sample : STD VMS 15a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 21 14:28:40 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:22:15 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 11.D
Acq On : 21 Oct 2015 3:19 am
Operator : 189
Sample : STD VMS 17.5a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 21 14:29:20 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:22:15 2015
Response via : Initial Calibration

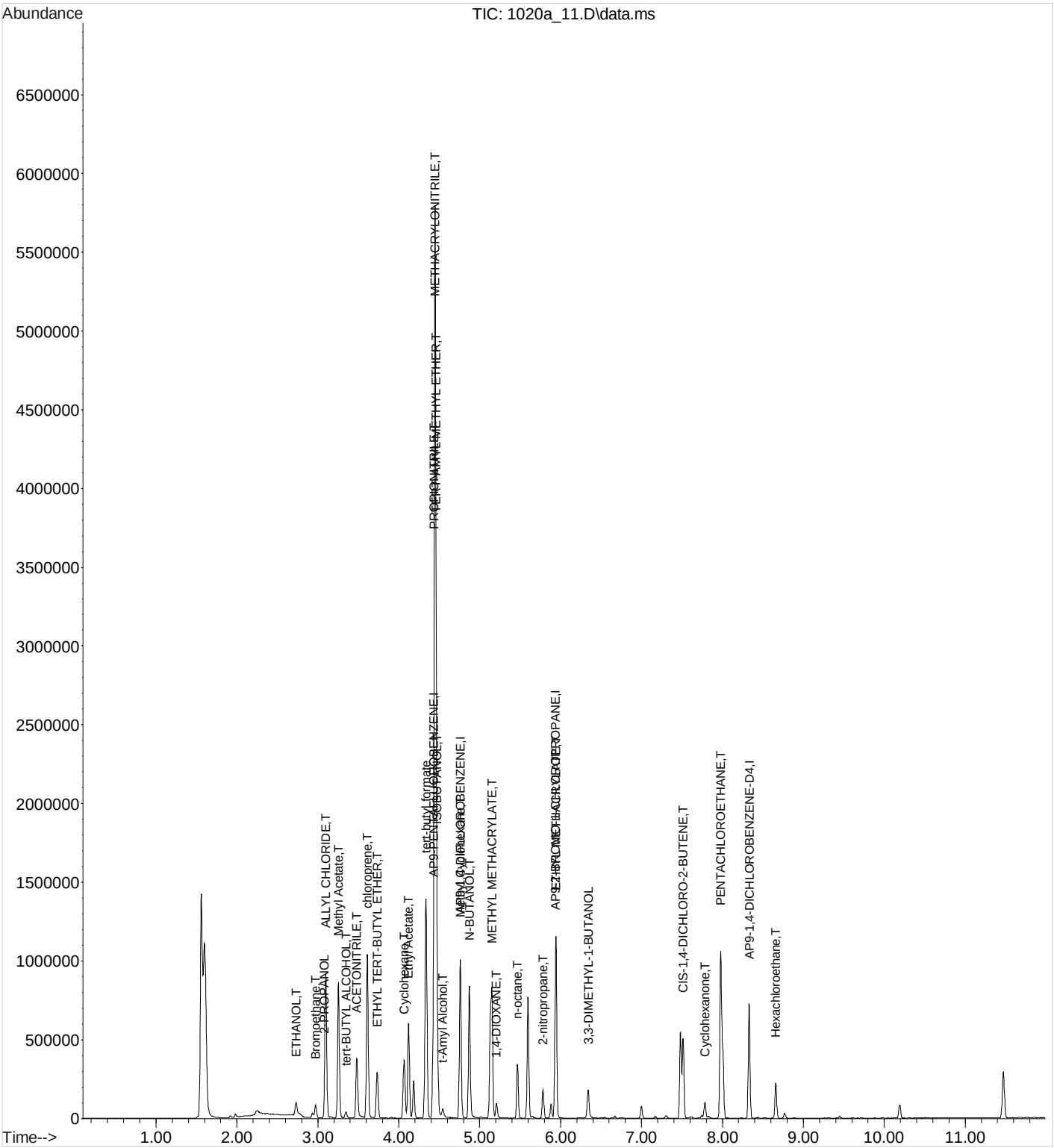
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.42
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.76
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.94
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.33
96) AP9-PENTAFLUOROBENZENE	4.428	168	182568	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	322693	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	59803	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.332	152	147445	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			
Target Compounds						Qvalue
97) ETHANOL	2.731	45	87558	1429.4385079	ppb #	93
98) Bromoethane	2.972	108	47562	16.6008083	ppb	98
99) 2-PROPANOL	3.081	45	19775	66.5788511	ppb	98
100) Methyl Acetate	3.255	43	896460	326.1881879	ppb #	100
101) ACETONITRILE	3.480	41	344779	799.5713105	ppb	99
102) ALLYL CHLORIDE	3.097	76	140755	84.8590984	ppb	100
103) tert-BUTYL ALCOHOL	3.348	59	35305	74.3534740	ppb	99
104) chloroprene	3.612	53	521112	83.6980092	ppb	99
105) ETHYL TERT-BUTYL ETHER	3.734	59	205181	16.6128231	ppb	99
106) PROPIONITRILE	4.438	54	398788	817.2142002	ppb	97
107) Ethyl Acetate	4.120	43	575030	162.0466933	ppb	100
108) METHACRYLONITRILE	4.451	67	1163190	846.3635694	ppb	99
109) Cyclohexane	4.065	56	149030	16.8537657	ppb	99
110) tert-butyl formate	4.335	59	628424	169.2326977	ppb	100
111) ISOBUTANOL	4.470	43	428305	1605.6023947	ppb #	100
112) t-Amyl Alcohol	4.544	59	26882	78.2093576	ppb	100
113) TERT-AMYL METHYL ETHER	4.460	73	236011	17.1648545	ppb #	92
115) N-BUTANOL	4.872	56	355102	3121.4858685	ppb	99
116) Methyl Cyclohexane	4.763	83	131595	16.5097276	ppb	98
117) 2-nitropropane	5.782	43	110486	82.6846535	ppb	98
118) METHYL METHACRYLATE	5.152	41	316413	84.9510137	ppb	94
119) 1,4-DIOXANE	5.206	88	49482	1505.1224830	ppb	99
120) n-octane	5.467	85	47780	16.4990601	ppb	93
121) 3,3-DIMETHYL-1-BUTANOL	6.341	57	78444	153.1976428	ppb	98
123) ETHYL METHACRYLATE	5.943	69	324234	84.5068985	ppb #	77
124) CIS-1,4-DICHLORO-2-BUTENE	7.515	53	106790	84.5085607	ppb	95
125) Cyclohexanone	7.782	55	39253	156.4777922	ppb	98
126) PENTACHLOROETHANE	7.978	117	177888	94.1010658	ppb	100
127) Hexachloroethane	8.660	117	44595	17.1687313	ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 11.D
Acq On : 21 Oct 2015 3:19 am
Operator : 189
Sample : STD VMS 17.5a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 21 14:29:20 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:22:15 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 12.D
Acq On : 21 Oct 2015 3:40 am
Operator : 189
Sample : STD VMS 20a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 21 14:30:06 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:22:15 2015
Response via : Initial Calibration

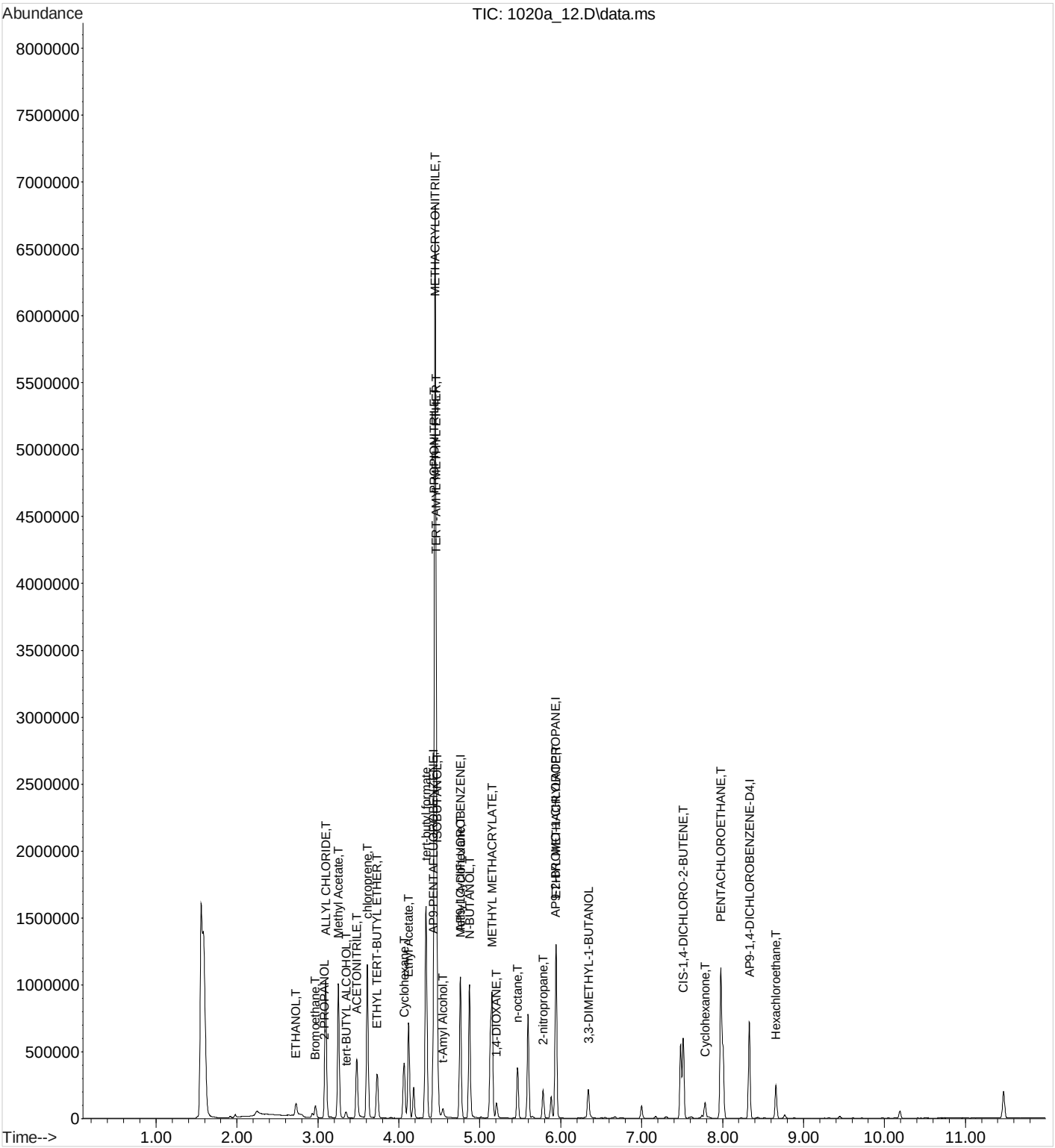
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.42
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.76
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.94
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.33
96) AP9-PENTAFLUOROBENZENE	4.425	168	180460	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.760	114	320537	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	60665	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.332	152	148910	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			
Target Compounds						Qvalue
97) ETHANOL	2.727	45	102967	1700.6361599	ppb #	93
98) Bromoethane	2.969	108	53696	18.9607174	ppb	100
99) 2-PROPANOL	3.078	45	23579	80.3135628	ppb	100
100) Methyl Acetate	3.252	43	1050668	386.7644283	ppb #	100
101) ACETONITRILE	3.480	41	393814	923.9559215	ppb	97
102) ALLYL CHLORIDE	3.094	76	160238	97.7335789	ppb	99
103) tert-BUTYL ALCOHOL	3.348	59	41826	89.1158773	ppb	98
104) chloroprene	3.612	53	577925	93.9072755	ppb	98
105) ETHYL TERT-BUTYL ETHER	3.731	59	236797	19.3966263	ppb	99
106) PROPIONITRILE	4.438	54	475903	986.6337571	ppb	99
107) Ethyl Acetate	4.120	43	675433	192.5642448	ppb	99
108) METHACRYLONITRILE	4.448	67	1371032	1009.2473038	ppb	98
109) Cyclohexane	4.065	56	167822	19.2006463	ppb	99
110) tert-butyl formate	4.335	59	713331	194.3418433	ppb	100
111) ISOBUTANOL	4.470	43	505998	1919.0105753	ppb #	100
112) t-Amyl Alcohol	4.544	59	31744	93.4334741	ppb	97
113) TERT-AMYL METHYL ETHER	4.461	73	269828	19.8535695	ppb #	96
115) N-BUTANOL	4.872	56	419670	3713.8773433	ppb	99
116) Methyl Cyclohexane	4.763	83	145705	18.4029036	ppb	98
117) 2-nitropropane	5.782	43	131023	98.7135057	ppb	97
118) METHYL METHACRYLATE	5.152	41	369268	99.8084470	ppb	94
119) 1,4-DIOXANE	5.206	88	61807	1892.6645122	ppb	98
120) n-octane	5.467	85	53322	18.5366336	ppb	94
121) 3,3-DIMETHYL-1-BUTANOL	6.341	57	92466	181.7966179	ppb	97
123) ETHYL METHACRYLATE	5.943	69	380354	97.7251544	ppb #	73
124) CIS-1,4-DICHLORO-2-BUTENE	7.512	53	127424	99.4045175	ppb	92
125) Cyclohexanone	7.782	55	46584	183.0633484	ppb	100
126) PENTACHLOROETHANE	7.978	117	189178	98.6514081	ppb	100
127) Hexachloroethane	8.660	117	49503	18.7874710	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 12.D
Acq On : 21 Oct 2015 3:40 am
Operator : 189
Sample : STD VMS 20a ppb 15H20824
Misc : water IS/SURR 15H19728
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 21 14:30:06 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:22:15 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 01.D
Acq On : 20 Oct 2015 11:50 pm
Operator : 189
Sample : INSTBLK
Misc : water IS/SURR 15H19728
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 21 14:34:11 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:32:39 2015
Response via : Initial Calibration

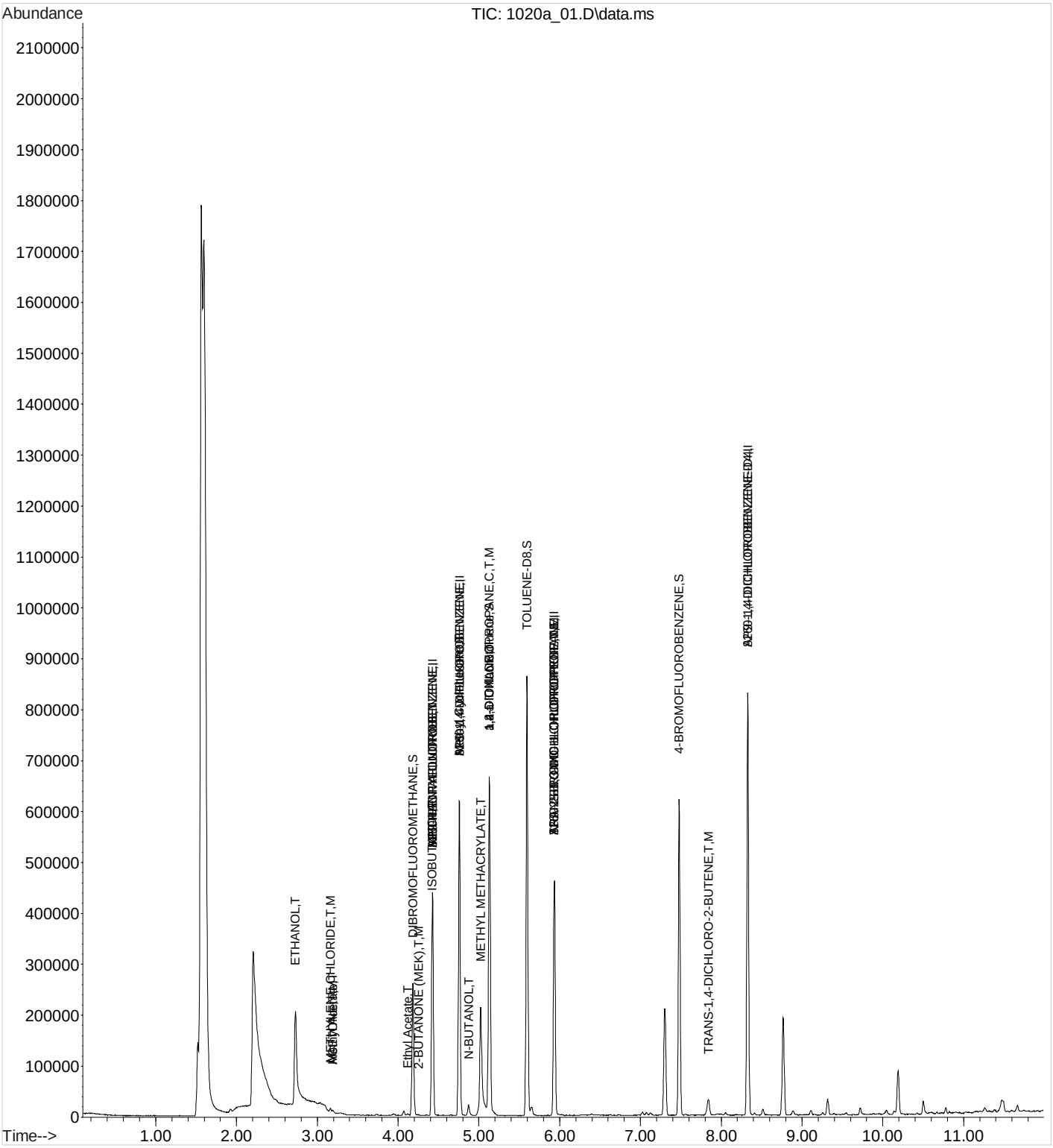
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.425	168	199366	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.760	114	350643	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.933	79	66070	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.329	152	168465	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.425	168	199366	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.760	114	350643	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.933	79	66070	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.329	152	168465	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.184	111	124456	40.3449657	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 100.86%			
46) a,a,a-Trifluorotoluene	5.129	146	186969	41.3291726	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.32%			
50) TOLUENE-D8	5.596	98	441165	41.7782899	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.45%			
68) 4-BROMOFLUOROBENZENE	7.480	95	179933	39.3810638	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.45%			
Target Compounds						Qvalue
3) PROPENE	1.676	41	561	Below Cal	#	54
16) ACETONE	3.191	43	4212	1.6767500	ppb #	88
19) METHYLENE CHLORIDE	3.162	84	2715	0.7418578	ppb	85
29) 2-BUTANONE (MEK)	4.252	43	593	0.3236925	ppb #	51
43) 1,2-DICHLOROPROPANE	5.129	62	4888	1.7939091	ppb #	50
52) TRANS-1,3-DICHLOROPROPENE	5.933	75	3988	0.6993647	ppb #	1
72) TRANS-1,4-DICHLORO-2-B...	7.843	53	5782	3.7233519	ppb #	28
97) ETHANOL	2.728	45	262004	4797.4586528	ppb #	97
100) Methyl Acetate	3.191	43	4187	1.4365374	ppb #	59
107) Ethyl Acetate	4.120	43	3048	0.8176025	ppb #	70
108) METHACRYLONITRILE	4.425	67	1153	0.7925839	ppb #	1
111) ISOBUTANOL	4.419	43	1586	5.8725396	ppb #	1
115) N-BUTANOL	4.872	56	9385	81.9400578	ppb	95
116) Methyl Cyclohexane	4.756	83	5891	0.6317032	ppb #	35
118) METHYL METHACRYLATE	5.023	41	117221	29.2673552	ppb #	52
119) 1,4-DIOXANE	5.129	88	3473	104.6755095	ppb #	19

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 01.D
Acq On : 20 Oct 2015 11:50 pm
Operator : 189
Sample : INSTBLK
Misc : water IS/SURR 15H19728
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 21 14:34:11 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:32:39 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 01.D
Acq On : 20 Oct 2015 11:50 pm
Operator : 189
Sample : INSTBLK
Misc : water IS/SURR 15H19728
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 21 14:34:11 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:32:39 2015
Response via : Initial Calibration

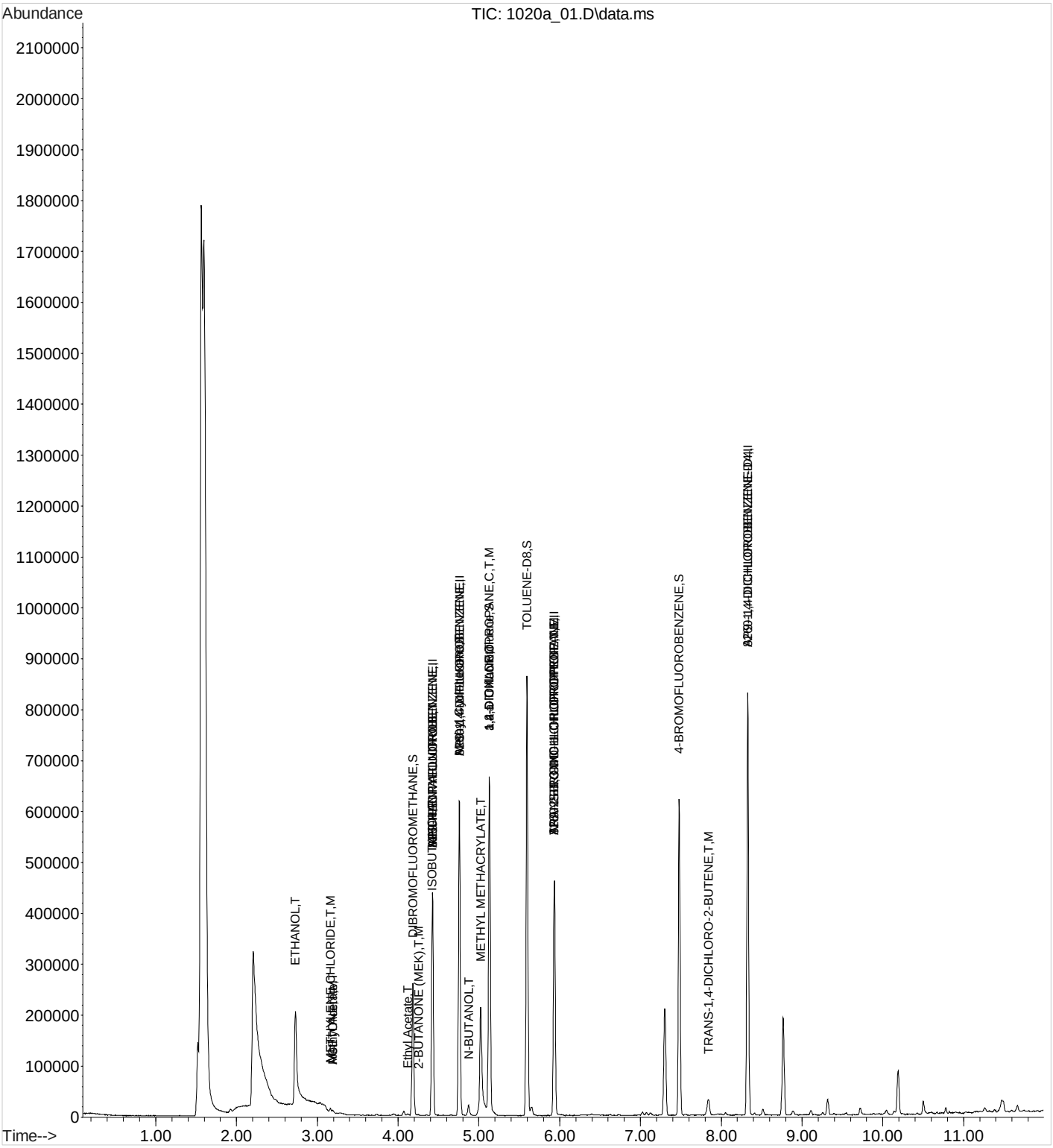
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.425	168	199366	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.760	114	350643	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.933	79	66070	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.329	152	168465	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.425	168	199366	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.760	114	350643	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.933	79	66070	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.329	152	168465	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.184	111	124456	40.3449657	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 100.86%			
46) a,a,a-Trifluorotoluene	5.129	146	186969	41.3291726	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.32%			
50) TOLUENE-D8	5.596	98	441165	41.7782899	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.45%			
68) 4-BROMOFLUOROBENZENE	7.480	95	179933	39.3810638	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.45%			
Target Compounds						Qvalue
3) PROPENE	1.676	41	561	Below Cal	#	54
16) ACETONE	3.191	43	4212	1.6767500	ppb #	88
19) METHYLENE CHLORIDE	3.162	84	2715	0.7418578	ppb	85
29) 2-BUTANONE (MEK)	4.252	43	593	0.3236925	ppb #	51
43) 1,2-DICHLOROPROPANE	5.129	62	4888	1.7939091	ppb #	50
52) TRANS-1,3-DICHLOROPROPENE	5.933	75	3988	0.6993647	ppb #	1
72) TRANS-1,4-DICHLORO-2-B...	7.843	53	5782	3.7233519	ppb #	28
97) ETHANOL	2.728	45	262004	4797.4586528	ppb #	97
100) Methyl Acetate	3.191	43	4187	1.4365374	ppb #	59
107) Ethyl Acetate	4.120	43	3048	0.8176025	ppb #	70
108) METHACRYLONITRILE	4.425	67	1153	0.7925839	ppb #	1
111) ISOBUTANOL	4.419	43	1586	5.8725396	ppb #	1
115) N-BUTANOL	4.872	56	9385	81.9400578	ppb	95
116) Methyl Cyclohexane	4.756	83	5891	0.6317032	ppb #	35
118) METHYL METHACRYLATE	5.023	41	117221	29.2673552	ppb #	52
119) 1,4-DIOXANE	5.129	88	3473	104.6755095	ppb #	19

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 01.D
Acq On : 20 Oct 2015 11:50 pm
Operator : 189
Sample : INSTBLK
Misc : water IS/SURR 15H19728
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 21 14:34:11 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:32:39 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 13.D
Acq On : 21 Oct 2015 4:01 am
Operator : 189
Sample : INSTBLK
Misc : water IS/SURR 15H19728
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 14:35:30 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

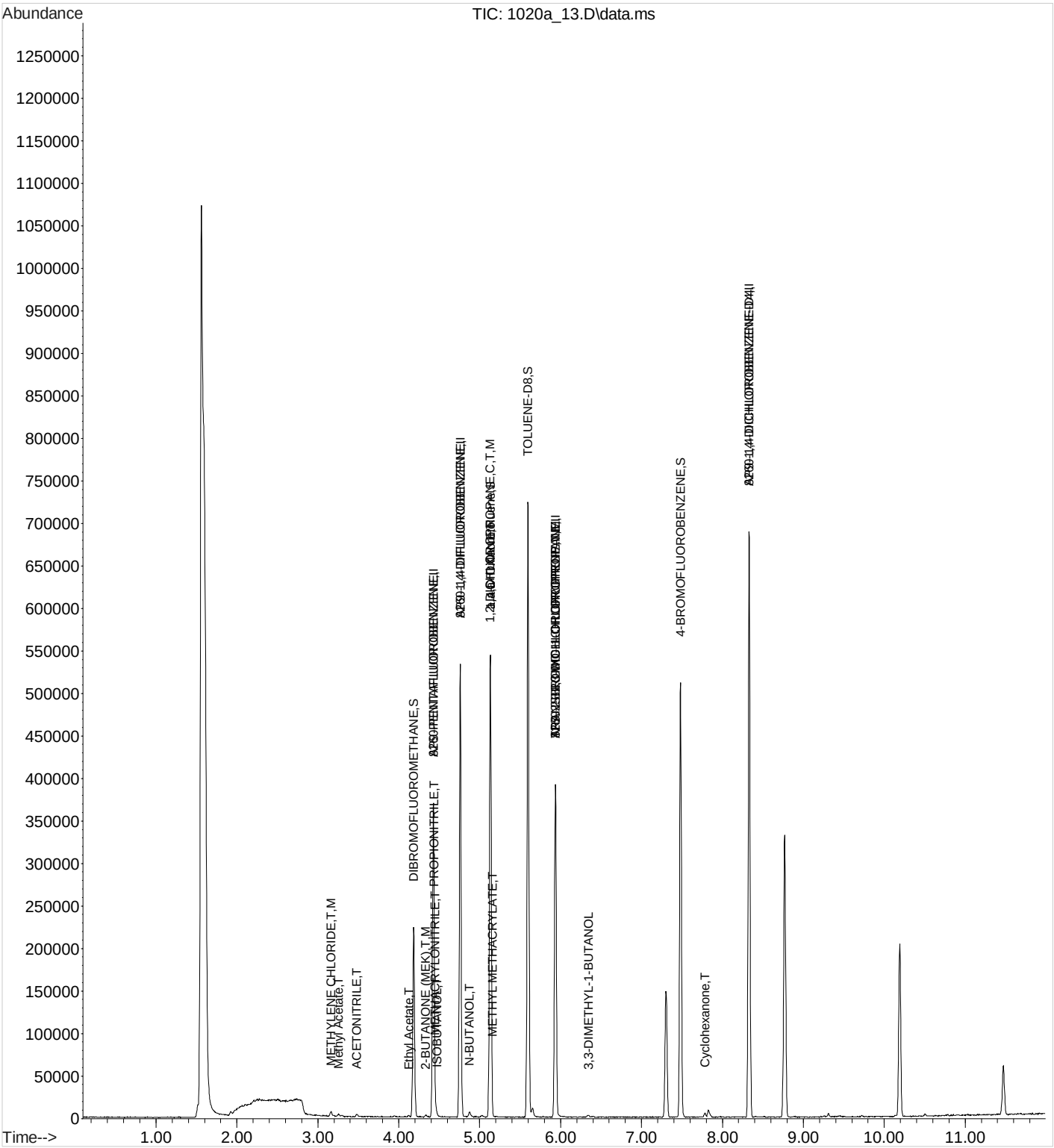
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.428	168	167050	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	296072	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	56965	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.328	152	141194	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.428	168	167050	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	296072	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	56965	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.328	152	141194	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.184	111	104856	40.5668619	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 101.42%			
46) a,a,a-Trifluorotoluene	5.132	146	155092	40.6017113	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.50%			
50) TOLUENE-D8	5.595	98	377030	42.2856833	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.71%			
68) 4-BROMOFLUOROBENZENE	7.483	95	149799	38.0260961	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 95.07%			
Target Compounds						Qvalue
3) PROPENE	1.673	41	645	Below Cal	#	28
16) ACETONE	3.194	43	951	Below Cal	#	51
19) METHYLENE CHLORIDE	3.161	84	2071	0.6753603	ppb	89
29) 2-BUTANONE (MEK)	4.332	43	518	0.3374522	ppb #	51
43) 1,2-DICHLOROPROPANE	5.129	62	4124	1.7924858	ppb #	51
52) TRANS-1,3-DICHLOROPROPENE	5.936	75	3433	0.7130011	ppb #	1
100) Methyl Acetate	3.258	43	2773	1.1354512	ppb #	59
101) ACETONITRILE	3.480	41	2618	7.0202485	ppb	98
106) PROPIONITRILE	4.438	54	2334	5.4879330	ppb #	1
107) Ethyl Acetate	4.126	43	1610	0.5154158	ppb #	70
108) METHACRYLONITRILE	4.451	67	4445	3.6466352	ppb	80
111) ISOBUTANOL	4.473	43	1241	5.4840218	ppb #	75
115) N-BUTANOL	4.872	56	3370	34.8465451	ppb #	78
116) Methyl Cyclohexane	4.759	83	4721	Below Cal	#	33
118) METHYL METHACRYLATE	5.155	41	1245	0.3681419	ppb #	20
119) 1,4-DIOXANE	5.132	88	2867	102.3377416	ppb #	19
121) 3,3-DIMETHYL-1-BUTANOL	6.341	57	1414	3.1987162	ppb #	83
125) Cyclohexanone	7.785	55	1601	6.9512667	ppb #	75

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 13.D
Acq On : 21 Oct 2015 4:01 am
Operator : 189
Sample : INSTBLK
Misc : water IS/SURR 15H19728
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 14:35:30 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 13.D
Acq On : 21 Oct 2015 4:01 am
Operator : 189
Sample : INSTBLK
Misc : water IS/SURR 15H19728
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 14:35:30 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration

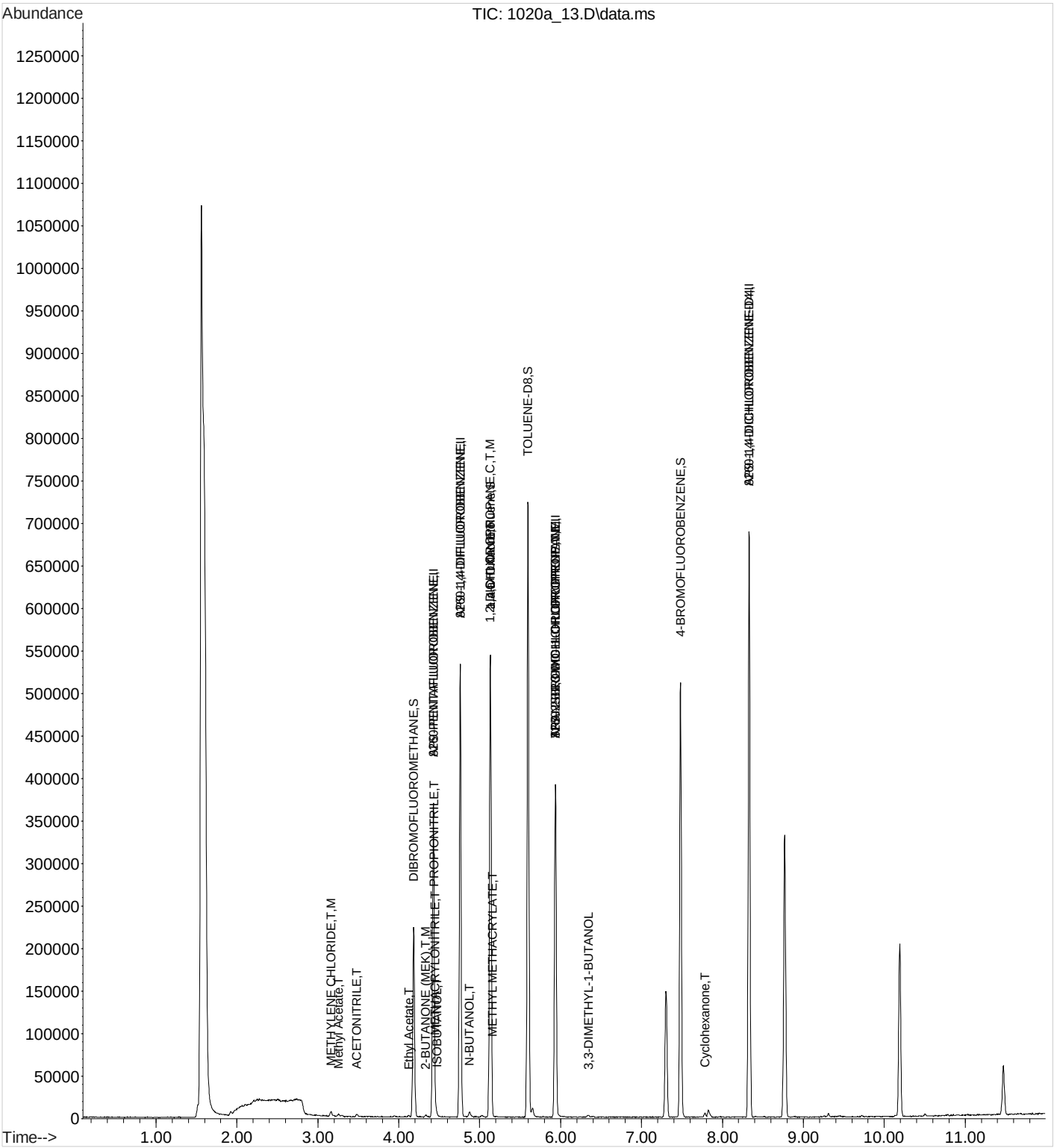
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.428	168	167050	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.759	114	296072	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.936	79	56965	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.328	152	141194	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.428	168	167050	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.759	114	296072	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.936	79	56965	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.328	152	141194	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.184	111	104856	40.5668619	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 101.42%			
46) a,a,a-Trifluorotoluene	5.132	146	155092	40.6017113	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.50%			
50) TOLUENE-D8	5.595	98	377030	42.2856833	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.71%			
68) 4-BROMOFLUOROBENZENE	7.483	95	149799	38.0260961	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 95.07%			
Target Compounds						Qvalue
3) PROPENE	1.673	41	645	Below Cal	#	28
16) ACETONE	3.194	43	951	Below Cal	#	51
19) METHYLENE CHLORIDE	3.161	84	2071	0.6753603	ppb	89
29) 2-BUTANONE (MEK)	4.332	43	518	0.3374522	ppb #	51
43) 1,2-DICHLOROPROPANE	5.129	62	4124	1.7924858	ppb #	51
52) TRANS-1,3-DICHLOROPROPENE	5.936	75	3433	0.7130011	ppb #	1
100) Methyl Acetate	3.258	43	2773	1.1354512	ppb #	59
101) ACETONITRILE	3.480	41	2618	7.0202485	ppb	98
106) PROPIONITRILE	4.438	54	2334	5.4879330	ppb #	1
107) Ethyl Acetate	4.126	43	1610	0.5154158	ppb #	70
108) METHACRYLONITRILE	4.451	67	4445	3.6466352	ppb	80
111) ISOBUTANOL	4.473	43	1241	5.4840218	ppb #	75
115) N-BUTANOL	4.872	56	3370	34.8465451	ppb #	78
116) Methyl Cyclohexane	4.759	83	4721	Below Cal	#	33
118) METHYL METHACRYLATE	5.155	41	1245	0.3681419	ppb #	20
119) 1,4-DIOXANE	5.132	88	2867	102.3377416	ppb #	19
121) 3,3-DIMETHYL-1-BUTANOL	6.341	57	1414	3.1987162	ppb #	83
125) Cyclohexanone	7.785	55	1601	6.9512667	ppb #	75

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102015a\
Data File : 1020a 13.D
Acq On : 21 Oct 2015 4:01 am
Operator : 189
Sample : INSTBLK
Misc : water IS/SURR 15H19728
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 14:35:30 2015
Quant Method : C:\msdchem\1\methods\V835J21O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS35
QLast Update : Wed Oct 21 14:34:58 2015
Response via : Initial Calibration



Instrument: VOCMS20
Method: V820K13O

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1113_04A.D	.25	11/13/2015 2:58:00 PM
1113_05A.D	.5	11/13/2015 3:17:00 PM
1113_06A.D	1	11/13/2015 3:36:00 PM
1113_07A.D	2	11/13/2015 3:55:00 PM
1113_08A.D	5.0	11/13/2015 4:14:00 PM
1113_09A.D	10	11/13/2015 4:33:00 PM
1113_10A.D	25	11/13/2015 4:53:00 PM
1113_11A.D	40	11/13/2015 5:12:00 PM
1113_12A.D	75	11/13/2015 5:31:00 PM
1113_13A.D	100	11/13/2015 5:50:00 PM
1113_14A.D	200	11/13/2015 6:09:00 PM
1113_19A.D	1A	11/13/2015 7:44:00 PM
1113_20A.D	2.5A	11/13/2015 8:02:00 PM
1113_21A.D	5A	11/13/2015 8:21:00 PM
1113_22A.D	7.5A	11/13/2015 8:40:00 PM
1113_23A.D	10A	11/13/2015 8:59:00 PM
1113_24A.D	12A	11/13/2015 9:19:00 PM
1113_25A.D	15A	11/13/2015 9:38:00 PM
1113_26A.D	17A	11/13/2015 9:57:00 PM
1113_27A.D	20A	11/13/2015 10:16:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS20
Computer Name : VOCCOMPAH

Released By : Amy Green
Date Released : 11/16/2015 11:32:51 AM

Run ID : 111315A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1113_01A	INSTBLK	V820K13O						1	1	11/13/15 1401	"water 15J30547"
2	1113_01A	INSTBLK	V820K13O							1	11/13/15 1401	
3	1113_02A	INSTBLK	V820K13O						1	1	11/13/15 1420	"water 15J30547"
4	1113_03A	INSTBLK	V820K13O						1	1	11/13/15 1439	"water 15J30547"
5	1113_04A	STD VMS 0.25 PPB 15K13424	V820K13O						1	1	11/13/15 1458	"water 15J30547"
6	1113_05A	STD VMS 0.5 PPB 15K13424	V820K13O						1	1	11/13/15 1517	"water 15J30547"
7	1113_06A	STD VMS 1 PPB 15K13424	V820K13O						1	1	11/13/15 1536	"water 15J30547"
8	1113_06 AA	RL VMS 1 PPB 15K13424	V820K13O						1	1	11/13/15 1536	"water 15J30547"
9	1113_07A	STD VMS 2 PPB 15K13424	V820K13O						1	1	11/13/15 1555	"water 15J30547"
10	1113_07 AA	RL VMS 2 PPB 15K13424	V820K13O						1	1	11/13/15 1555	"water 15J30547"
11	1113_08A	STD VMS 5 PPB 15K13424	V820K13O						1	1	11/13/15 1614	"water 15J30547"
12	1113_08 AA	RL VMS 5.0 PPB 15K13424	V820K13O						1	1	11/13/15 1614	"water 15J30547"
13	1113_09A	STD VMS 10 PPB 15K13424	V820K13O						1	1	11/13/15 1633	"water"
14	1113_10A	MSTD VMS 25 PPB 15K13424	V820K13O						1	1	11/13/15 1653	"water 15J30547"
15	1113_11A	STD VMS 40 PPB 15K13424	V820K13O						1	1	11/13/15 1712	"water 15J30547"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS20
Computer Name : VOCCOMPAH
Released By : Amy Green
Date Released : 11/16/2015 11:32:52 AM
Run ID : 111315A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
16	1113_12A	STD VMS 75 PPB 15K13424	V820K13O						1	1	11/13/15 1731	"water 15J30547"
17	1113_13A	STD VMS 100 PPB 15K13424	V820K13O						1	1	11/13/15 1750	"water 15J30547"
18	1113_14A	STD VMS 200 PPB 15K13424	V820K13O						1	1	11/13/15 1809	"water 15J30547"
19	1113_15A	INSTBLK	V820K13O						1	1	11/13/15 1828	"water 15J30547"
20	1113_16A	SSCV VMS 25 PPB 15K13425	V820K13O						1	1	11/13/15 1847	"water 15J30547"
21	1113_17A	INSTBLK	V820K13O						1	1	11/13/15 1905	"water 15J30547"
22	1113_19A	STD AP9 1A PPB 15H20824	V820K13O						1	1	11/13/15 1944	"water 15J30547"
23	1113_19 AA	RL AP9 1A PPB 15H20824	V820K13O						1	1	11/13/15 1944	"water 15J30547"
24	1113_20A	STD AP9 2.5A PPB 15H20824	V820K13O						1	1	11/13/15 2002	"water 15J30547"
25	1113_21A	STD AP9 5A PPB 15H20824	V820K13O						1	1	11/13/15 2021	"water 15J30547"
26	1113_22A	STD AP9 7.5A PPB 15H20824	V820K13O						1	1	11/13/15 2040	"water 15J30547"
27	1113_23A	MSTD AP9 10A PPB 15H20824	V820K13O						1	1	11/13/15 2059	"water 15J30547"
28	1113_24A	STD AP9 12.5A PPB 15H20824	V820K13O						1	1	11/13/15 2119	"water 15J30547"
29	1113_25A	STD AP9 15A PPB 15H20824	V820K13O						1	1	11/13/15 2138	"water 15J30547"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS20
Computer Name : VOCCOMPAH

Released By : Amy Green
Date Released : 11/16/2015 11:32:52 AM

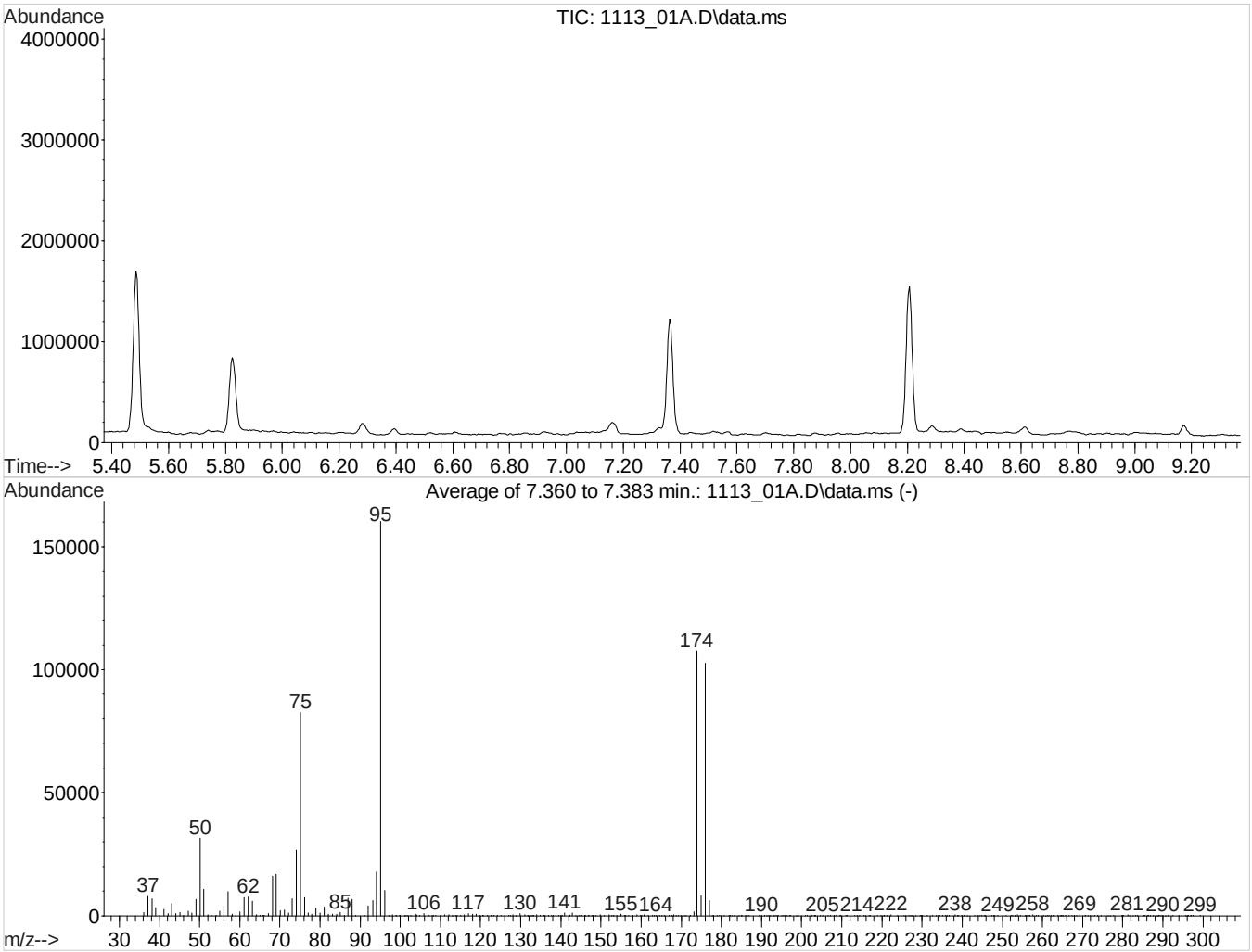
Run ID : 111315A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
30	1113_26A	STD AP9 17.5A PPB 15H20824	V820K13O						1	1	11/13/15 2157	"water 15J30547"
31	1113_27A	STD AP9 20A PPB 15H20824	V820K13O						1	1	11/13/15 2216	"water 15J30547"
32	1113_29A	SSCV AP9 10A PPB 15K10177	V820K13O						1	1	11/13/15 2253	"water 15J30547"

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 01A.D
Acq On : 13 Nov 2015 2:01 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDchem\1\methods\V820K13O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
Last Update : Mon Nov 16 10:49:49 2015



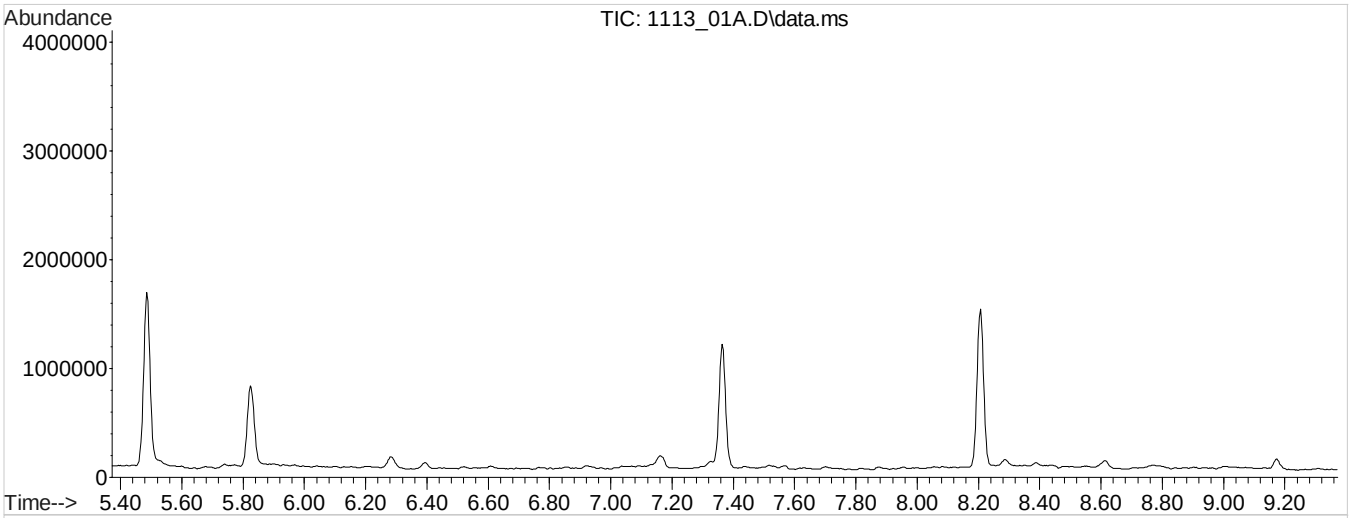
Spectrum Information: Average of 7.360 to 7.383 min.

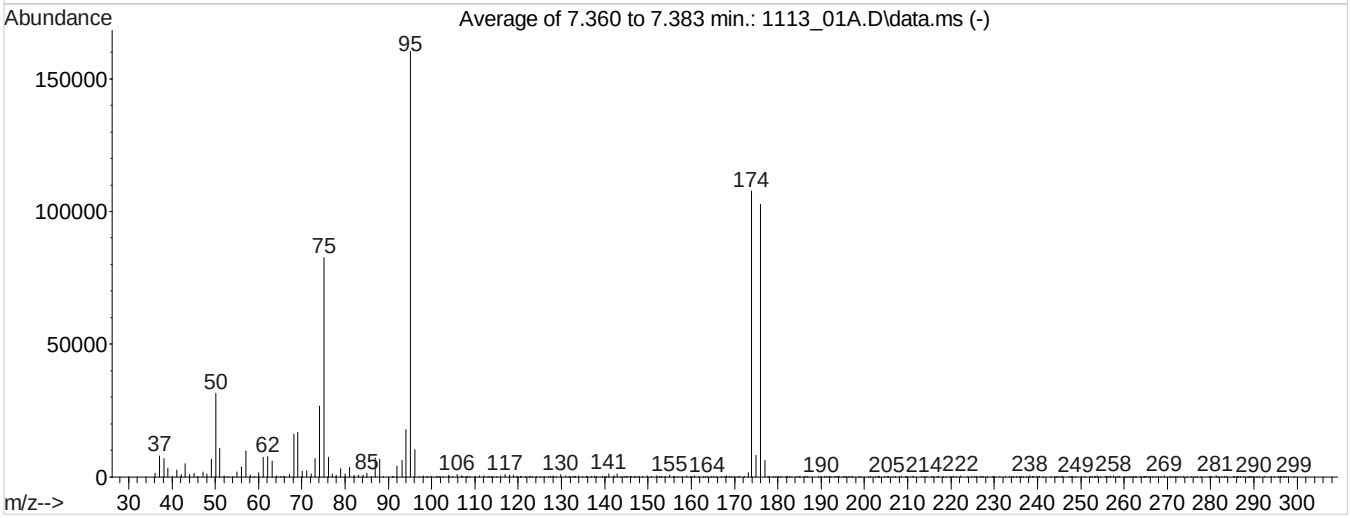
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	31428	PASS
75	95	30	60	51.6	82720	PASS
95	95	100	100	100.0	160374	PASS
96	95	5	9	6.5	10360	PASS
173	174	0.00	2	1.4	1510	PASS
174	95	50	150	67.2	107753	PASS
175	174	5	9	7.4	7982	PASS
176	174	95	101	95.3	102635	PASS
177	176	5	9	6.0	6171	PASS

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 01A.D
Acq On : 13 Nov 2015 2:01 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDchem\1\methods\V820K13O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
Last Update : Mon Nov 16 10:49:49 2015





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50	95	15	40	19.6	31428	PASS
75	95	30	60	51.6	82720	PASS
95	95	100	100	100.0	160374	PASS
96	95	5	9	6.5	10360	PASS
173	174	0.00	2	1.4	1510	PASS
174	95	50	150	67.2	107753	PASS
175	174	5	9	7.4	7982	PASS
176	174	95	101	95.3	102635	PASS
177	176	5	9	6.0	6171	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SM 20th	Released On	: 11/16/2015 11:32:52 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.232	0.203	0.197	0.177	0.162	0.158	0.166	0.16										0.181832	14.59	0.146	1
DICHLORODIFLUOROMETHANE	0.833	0.904	0.889	0.822	0.815	0.882	0.866	0.823	0.795	0.865	0.826										0.847204	4.18	0.042	1
CHLOROMETHANE	1.45	1.325	1.211	1.182	1.119	1.175	1.153	1.112	1.105	1.162	1.13										1.192978	8.81	0.088	1
VINYL CHLORIDE	0.934	1.42	1.335	1.342	1.258	1.285	1.287	1.212	1.2	1.282	1.23										1.253198	9.84	0.098	1
1,3-BUTADIENE	0.591	0.702	0.755	0.866	0.751	0.829	0.836	0.796	0.78	0.823	0.809										0.77623	9.9	0.099	1
BROMOMETHANE	0.755	0.869	0.808	0.854	0.723	0.804	0.816	0.768	0.74	0.771	0.665										0.779251	7.6	0.076	1
CHLOROETHANE	0.9	1.012	0.873	0.867	0.795	0.814	0.827	0.789	0.775	0.808	0.749										0.837014	8.77	0.088	1
TRICHLOROFLUOROMETHANE	1.297	1.444	1.394	1.24	1.228	1.272	1.291	1.233	1.192	1.268	1.217										1.279693	5.99	0.06	1
DICHLOROFLUOROMETHANE	1.59	1.953	1.925	1.908	1.788	1.863	1.872	1.781	1.75	1.847	1.752										1.820838	5.68	0.057	1
ETHYL ETHER	1.018	0.904	0.872	0.85	0.867	0.878	0.873	0.825	0.822	0.863	0.83										0.872901	6.22	0.062	1
ACROLEIN	0.131	0.147	0.114	0.111	0.107	0.107	0.106	0.101	0.104	0.107	0.106										0.112881	12.26	0.123	1
1,1-DICHLOROETHENE	1.471	1.498	1.52	1.56	1.401	1.451	1.474	1.415	1.382	1.452	1.398										1.456577	3.81	0.038	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.889	0.854	0.838	0.825	0.785	0.78	0.812	0.778	0.765	0.817	0.791										0.812203	4.63	0.046	1
ACETONE				0.426	0.389	0.409	0.404	0.374	0.373	0.333	0.382										0.386331	7.31	0.073	1
IODOMETHANE	1.052	1.196	1.185	1.234	1.182	1.201	1.251	1.202	1.21	1.309	1.314										1.212507	5.81	0.058	1
CARBON DISULFIDE	3.069	3.193	3.104	2.962	2.841	2.846	3.044	3.043	3.037	3.293	3.203										3.057672	4.61	0.046	1
METHYLENE CHLORIDE	1.122	1.063	1.026	1.065	0.962	0.967	0.993	0.952	0.946	1.001	0.968										1.005986	5.63	0.056	1
ACRYLONITRILE	0.254	0.251	0.243	0.219	0.224	0.25	0.254	0.246	0.244	0.253	0.255										0.244756	4.99	0.05	1
n-Hexane				1.178	0.987	0.952	0.953	0.879	0.876	0.914	0.91										0.956128	10.18	0.102	1
TRANS-1,2-DICHLOROETHENE	1.012	0.979	0.897	0.893	0.884	0.893	0.932	0.901	0.897	0.936	0.929										0.922974	4.38	0.044	1

PDF Generated On: 11/16/2015 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SM 20th	Released On	: 11/16/2015 11:32:52 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.559	2.342	2.353	2.24	2.342	2.5	2.547	2.441	2.405	2.496	2.498										2.42937	4.17	0.042	1
1,1-DICHLOROETHANE	1.546	1.783	1.757	1.871	1.752	1.821	1.851	1.765	1.751	1.868	1.823										1.78075	5.08	0.051	1
VINYL ACETATE	1.444	1.497	1.5	1.58	1.566	1.665	1.628	1.646	1.529	1.636	1.491										1.562057	4.78	0.048	1
DI-ISOPROPYL ETHER	3.008	3.274	3.208	3.242	3.247	3.407	3.472	3.356	3.349	3.525	3.507										3.326829	4.58	0.046	1
2,2-Dichloropropane	1.396	1.35	1.349	1.353	1.267	1.35	1.357	1.308	1.269	1.339	1.267										1.327951	3.28	0.033	1
CIS-1,2-DICHLOROETHENE	1.088	0.959	1.044	1.002	0.971	1.018	1.041	0.985	0.992	1.05	1.027										1.016214	3.79	0.038	1
2-BUTANONE (MEK)			0.525	0.407	0.395	0.425	0.433	0.413	0.413	0.399	0.427										0.426357	9.16	0.092	1
BROMOCHLOROMETHANE	0.382	0.518	0.49	0.499	0.497	0.528	0.519	0.511	0.502	0.53	0.52										0.499721	8.24	0.082	1
TETRAHYDROFURAN		0.229	0.295	0.239	0.212	0.207	0.217	0.204	0.197	0.197	0.203										0.220043	13.42	0.134	1
CHLOROFORM	1.499	1.572	1.605	1.665	1.631	1.661	1.705	1.615	1.61	1.694	1.666										1.629303	3.63	0.036	1
DIBROMOFLUOROMETHANE	0.536	0.538	0.556	0.556	0.571	0.564	0.6	0.591	0.592	0.611	0.604										0.574502	4.64	0.046	1
1,1,1-TRICHLOROETHANE	1.097	1.281	1.225	1.218	1.226	1.24	1.298	1.224	1.204	1.294	1.271										1.23429	4.54	0.045	1
CARBON TETRACHLORIDE	0.811	0.992	0.963	0.934	0.928	0.926	0.998	0.934	0.933	1.002	0.996										0.947181	5.79	0.058	1
1,1-Dichloropropene	1.305	1.311	1.175	1.292	1.226	1.218	1.273	1.22	1.21	1.274	1.258										1.250995	3.52	0.035	1
2,2,4-TRIMETHYLPENTANE	3.938	4.043	3.931	3.957	3.809	4.026	4.222	3.965	3.888	4.007	4.048										3.985006	2.66	0.027	1
HEPTANE				2.173	1.795	1.77	1.798	1.673	1.653	1.732	1.743										1.792112	9.08	0.091	1
BENZENE	3.884	4.098	4.052	4.164	4.085	4.045	4.193	3.989	3.969	4.17	4.125										4.070366	2.33	0.023	1
1,2-DICHLOROETHANE	1.089	1.244	1.178	1.326	1.235	1.27	1.288	1.23	1.215	1.265	1.228										1.233517	5.01	0.05	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.409	0.476	0.447	0.439	0.415	0.436	0.445	0.431	0.429	0.443	0.441										0.437113	4.03	0.04	1
1,2-DICHLOROPROPANE	0.329	0.358	0.37	0.389	0.359	0.381	0.388	0.376	0.377	0.386	0.389										0.372934	4.92	0.049	1
DIBROMOMETHANE	0.219	0.263	0.251	0.249	0.235	0.251	0.249	0.248	0.241	0.248	0.245										0.245344	4.54	0.045	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SM 20th	Released On	: 11/16/2015 11:32:52 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.579	0.681	0.618	0.611	0.595	0.644	0.654	0.636	0.641	0.667	0.668										0.635669	5.04	0.05	1
α,a,a-Trifluorotoluene	0.542	0.545	0.55	0.548	0.529	0.543	0.544	0.542	0.542	0.529	0.526										0.539892	1.49	0.015	1
-CHLOROETHYL VINYL ETHER	0.128	0.16	0.157	0.16	0.153	0.172	0.187	0.183	0.191	0.192	0.212										0.172276	13.54	0.135	1
CIS-1,3-DICHLOROPROPENE	0.656	0.766	0.752	0.797	0.761	0.807	0.833	0.816	0.827	0.853	0.854										0.792825	7.25	0.073	1
4-METHYL-2-PENTANONE (MIBK)	0.366	0.345	0.324	0.326	0.302	0.362	0.369	0.354	0.353	0.345	0.356										0.345743	5.96	0.06	1
TOLUENE-D8	1.31	1.304	1.307	1.32	1.311	1.328	1.339	1.33	1.32	1.317	1.308										1.317584	0.84	0.008	1
TOLUENE	2.238	2.366	2.21	2.244	2.05	2.159	2.174	2.095	2.108	2.168	2.176										2.18076	3.92	0.039	1
TRANS-1,3-DICHLOROPROPENE	0.601	0.644	0.64	0.651	0.631	0.681	0.713	0.704	0.721	0.75	0.758										0.681295	7.58	0.076	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	2	1.906	2.104	1.999	1.94	2.045	2.001	1.888	1.94	2.041	2.017										1.989235	3.26	0.033	1
TETRACHLOROETHENE	1.649	1.81	1.695	1.743	1.702	1.724	1.716	1.625	1.68	1.793	1.789										1.720595	3.45	0.035	1
1,3-Dichloropropane	3.85	3.977	3.655	3.825	3.801	3.925	3.878	3.679	3.797	4.025	3.937										3.849919	3	0.03	1
2-HEXANONE		1.326	1.019	0.897	0.822	0.961	0.948	0.893	0.928	0.936	0.955										0.968496	14.02	0.14	1
CHLORODIBROMOMETHANE	1.828	1.784	1.853	1.949	1.948	1.977	2.008	1.946	2.018	2.164	2.15										1.965915	6.1	0.061	1
1,2-DIBROMOETHANE	1.589	1.93	1.667	1.896	1.782	1.902	1.869	1.794	1.841	1.98	1.926										1.83408	6.48	0.065	1
CHLOROBENZENE	5.845	6.775	6.949	7.006	6.57	7.037	6.842	6.583	6.84	7.143	7.319										6.809828	5.73	0.057	1
1,1,1,2-TETRACHLOROETHANE	1.943	2.091	1.989	1.976	1.974	2.123	2.046	2.026	2.087	2.165	2.172										2.053689	3.87	0.039	1
ETHYLBENZENE	3.743	3.58	3.888	3.995	3.719	3.945	3.888	3.743	3.92	4.017	4.174										3.873695	4.3	0.043	1
M&P-XYLENE	4.502	4.887	4.768	4.852	4.69	4.921	4.862	4.681	4.85	4.931	5.222										4.833299	3.76	0.038	1
O-XYLENE	4.254	4.398	4.295	4.715	4.548	4.85	4.745	4.509	4.661	4.637	4.843										4.586813	4.49	0.045	1
STYRENE	7.297	6.554	7.162	7.427	7.111	7.674	7.816	7.389	7.909	8.05	8.318										7.518771	6.63	0.066	1
Bromoform	1.032	1.016	0.816	0.96	0.935	1.009	1.024	1.01	1.077	1.121	1.135										1.012233	8.79	0.088	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SM 20th	Released On	: 11/16/2015 11:32:52 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	11.15	12.28	11.57	11.48	11.07	12.37	12.15	11.63	12.02	11.45	12.42										11.7812	4.13	0.041	1
4-BROMOFLUOROBENZENE	2.912	2.893	2.889	2.898	2.853	2.998	2.936	2.882	2.957	2.917	2.942										2.916	1.38	0.014	1
Bromobenzene	5.725	5.751	5.466	5.944	5.398	5.951	5.773	5.607	5.744	5.83	6.037										5.747939	3.45	0.034	1
1,1,2,2-TETRACHLOROETHANE	2.653	2.586	2.145	2.366	2.206	2.492	2.408	2.367	2.343	2.392	2.43										2.399037	6.12	0.061	1
1,2,3-TRICHLOROPROPANE	0.738	0.677	0.643	0.639	0.637	0.666	0.655	0.621	0.622	0.639	0.641										0.65263	5.07	0.051	1
TRANS-1,4-DICHLORO-2-BUTENE	0.879	0.473	0.662	0.648	0.618	0.737	0.714	0.687	0.725	0.737	0.75										0.693649	14.41	0.144	1
n-Propylbenzene	16.2	15.85	14.78	13.96	13.35	15.13	14.98	14.48	14.92	14.1	15.5										14.84125	5.67	0.057	1
4-ETHYLTOLUENE	12.46	12.55	11.54	11.48	10.81	12.34	12.44	11.87	12.32	11.59	12.8										12.01937	5.03	0.05	1
2-Chlorotoluene	3.029	2.925	2.716	2.736	2.501	2.771	2.67	2.547	2.697	2.614	2.851										2.732454	5.77	0.058	1
4-Chlorotoluene	9.201	9.646	8.788	9.02	8.505	9.216	9.266	8.838	9.099	8.981	9.498										9.096287	3.56	0.036	1
1,3,5-Trimethylbenzene	8.21	10.14	9.639999	9.48	9.34	10.61	10.53	10.06	10.35	9.71	10.72										9.889649	7.37	0.074	1
tert-Butylbenzene	7.653	8.295	7.842	7.378	7.027	8.327	8.202	7.883	8.013	7.385	8.164										7.833656	5.46	0.055	1
1,2,4-Trimethylbenzene	9.67	9.73	9.76	9.41	8.94	10.4	10.35	9.91	10.19	9.57	10.42										9.850451	4.7	0.047	1
sec-Butylbenzene	12.01	13.26	12.53	11.71	10.84	13.2	13.21	12.55	12.8	11.6	12.94										12.4218	6.36	0.064	1
1,3-DICHLOROBENZENE	4.943	4.988	4.703	4.788	4.482	4.974	4.988	4.755	4.934	4.789	5.16										4.863952	3.77	0.038	1
p-Isopropyltoluene	9.04	10.58	10.19	9.24	8.48	10.71	10.64	10.21	10.46	9.440001	10.57										9.960381	7.75	0.078	1
DICYCLOPENTADIENE	11.49	12.93	12.8	12.08	11.79	13.63	13.38	12.81	13.1	12.37	13.5										12.71537	5.56	0.056	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.138	2.135	1.96	2.047	1.953	1.973	1.962	1.892	1.936	1.968	1.982										1.994945	3.95	0.039	1
1,2,3-TRIMETHYLBENZENE	4.682	4.653	4.118	4.117	4.164	4.279	4.239	4.053	4.124	4.163	4.133										4.247766	5.09	0.051	1
1,2-DICHLOROBENZENE	1.612	1.915	1.772	1.742	1.761	1.824	1.797	1.717	1.748	1.787	1.737										1.764726	4.2	0.042	1
n-Butylbenzene	4.016	4.335	4.19	3.625	3.512	4.178	4.209	3.969	3.945	3.622	3.797										3.945096	6.98	0.07	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SM 20th	Released On	: 11/16/2015 11:32:52 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane	0.098	0.162	0.154	0.118	0.122	0.127	0.13	0.122	0.125	0.138	0.127										0.129396	13.33	0.133	1
1,2,4-Trichlorobenzene			1.266	1.046	0.9	1.078	1.085	1.009	1.012	0.967	0.916										1.030736	10.64	0.106	1
HEXACHLORO-1,3-BUTADIENE	0.545	0.538	0.581	0.482	0.414	0.566	0.549	0.515	0.508	0.459	0.433										0.508243	10.8	0.108	1
Naphthalene			2.594	2.281	2.115	2.499	2.508	2.361	2.359	2.496	2.251										2.384858	6.41	0.064	1
1,2,3-Trichlorobenzene		1.236	1.067	0.809	0.778	0.953	0.96	0.891	0.886	0.883	0.782										0.924505	15.23	0.152	1
1-Methylnaphthalene			1.553	1.154	0.988	1.286	1.291	1.228	1.209	1.257	1.002										1.218741	13.83	0.138	1
2-Methylnaphthalene			1.253	0.959	0.812	1.089	1.075	1.005	0.989	1.042	0.796										1.002299	14.04	0.14	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.009	0.007	0.008	0.008	0.007	0.007	0.007	0.007	0.007582	10.36	0.104	1
Bromoethane												0.79	0.782	0.809	0.792	0.845	0.811	0.819	0.776	0.757	0.797891	3.27	0.033	1
2-PROPANOL																					0	0	0	1
Methyl Acetate												0.542	0.494	0.478	0.483	0.506	0.485	0.488	0.458	0.475	0.489738	4.82	0.048	1
ACETONITRILE												0.084	0.08	0.073	0.076	0.082	0.077	0.08	0.072	0.072	0.077414	5.66	0.057	1
ALLYL CHLORIDE												0.526	0.483	0.495	0.478	0.525	0.504	0.506	0.475	0.472	0.496064	4.16	0.042	1
tert-BUTYL ALCOHOL												0.151	0.155	0.13	0.145	0.155	0.139	0.142	0.133	0.145	0.143751	6.13	0.061	1
chloroprene												1.634	1.491	1.539	1.545	1.637	1.586	1.563	1.512	1.497	1.555979	3.49	0.035	1
ETHYL TERT-BUTYL ETHER												3.385	2.894	2.911	2.892	2.963	2.944	2.929	2.846	2.849	2.957027	5.58	0.056	1
PROPIONITRILE												0.101	0.095	0.091	0.092	0.098	0.094	0.094	0.088	0.091	0.093845	4.16	0.042	1
Ethyl Acetate												0.707	0.615	0.595	0.638	0.66	0.641	0.638	0.615	0.644	0.639446	5.01	0.05	1
METHACRYLONITRILE												0.317	0.297	0.284	0.295	0.305	0.295	0.295	0.281	0.294	0.296057	3.58	0.036	1
Cyclohexane												2.07	1.983	1.963	1.981	2.16	2.033	1.985	1.956	1.868	1.999786	4.08	0.041	1
tert-butyl formate												0.023	0.019	0.017	0.019	0.02	0.019	0.019	0.017	0.015	0.01889	12.26	0.123	1

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SM 20th	Released On	: 11/16/2015 11:32:52 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.255	0.236	0.228	0.237	0.248	0.238	0.238	0.225	0.234	0.237663	3.88	0.039	1
Amyl Alcohol												0.052	0.036	0.043	0.045	0.047	0.04	0.046	0.04	0.045	0.043797	10.73	0.107	1
TERT-AMYL METHYL ETHER												3.3	3.131	3.066	3.082	3.184	3.076	3.151	2.98	2.98	3.105507	3.25	0.032	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.009	0.009	0.009	0.009	0.01	0.009	0.009	0.008	0.009	0.009096	5.62	0.056	1
Methyl Cyclohexane												1.756	1.339	1.258	1.211	1.241	1.207	1.189	1.133	1.101	1.270618	15.33	0.153	1
-nitropropane												0.092	0.088	0.09	0.096	0.095	0.092	0.094	0.087	0.091	0.09166	3.25	0.032	1
METHYL METHACRYLATE												0.381	0.357	0.337	0.36	0.354	0.351	0.355	0.339	0.363	0.354996	3.71	0.037	1
1,4-DIOXANE												0.004	0.004	0.003	0.004	0.004	0.003	0.004	0.003	0.003	0.003521	10.05	0.1	1
n-octane												0.735	0.589	0.503	0.511	0.51	0.496	0.486	0.477	0.455	0.529047	16.14	0.998	0
3,3-DIMETHYL-1-BUTANOL												0.019	0.018	0.016	0.018	0.024	0.021	0.022	0.02	0.022	0.020059	13.13	0.131	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.747	2.711	2.637	2.742	2.8	2.69	2.668	2.53	2.696	2.691251	2.86	0.029	1
CIS-1,4-DICHLORO-2-BUTENE												0.764	0.663	0.682	0.679	0.73	0.68	0.684	0.642	0.676	0.688968	5.3	0.053	1
Cyclohexanone												0.346	0.3	0.288	0.311	0.306	0.294	0.289	0.313	0.355	0.311234	7.75	0.077	1
PENTACHLOROETHANE												1.296	1.266	1.152	1.291	1.27	1.177	1.284	1.3	1.193	1.247728	4.6	0.046	1
Hexachloroethane												1.594	1.493	1.648	1.605	1.743	1.668	1.613	1.549	1.596	1.611887	4.41	0.044	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 601-602	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: EPA	Released On	: 11/16/2015 11:28:36 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.232	0.203	0.197	0.177	0.162	0.158	0.166	0.16										0.181832	14.59	0.146	1
DICHLORODIFLUOROMETHANE	0.833	0.904	0.889	0.822	0.815	0.882	0.866	0.823	0.795	0.865	0.826										0.847204	4.18	0.042	1
CHLOROMETHANE	1.45	1.325	1.211	1.182	1.119	1.175	1.153	1.112	1.105	1.162	1.13										1.192978	8.81	0.088	1
VINYL CHLORIDE	0.934	1.42	1.335	1.342	1.258	1.285	1.287	1.212	1.2	1.282	1.23										1.253198	9.84	0.098	1
1,3-BUTADIENE	0.591	0.702	0.755	0.866	0.751	0.829	0.836	0.796	0.78	0.823	0.809										0.77623	9.9	0.099	1
BROMOMETHANE	0.755	0.869	0.808	0.854	0.723	0.804	0.816	0.768	0.74	0.771	0.665										0.779251	7.6	0.076	1
CHLOROETHANE	0.9	1.012	0.873	0.867	0.795	0.814	0.827	0.789	0.775	0.808	0.749										0.837014	8.77	0.088	1
TRICHLOROFLUOROMETHANE	1.297	1.444	1.394	1.24	1.228	1.272	1.291	1.233	1.192	1.268	1.217										1.279693	5.99	0.06	1
DICHLOROFLUOROMETHANE	1.59	1.953	1.925	1.908	1.788	1.863	1.872	1.781	1.75	1.847	1.752										1.820838	5.68	0.057	1
ETHYL ETHER	1.018	0.904	0.872	0.85	0.867	0.878	0.873	0.825	0.822	0.863	0.83										0.872901	6.22	0.062	1
ACROLEIN	0.131	0.147	0.114	0.111	0.107	0.107	0.106	0.101	0.104	0.107	0.106										0.112881	12.26	0.123	1
1,1-DICHLOROETHENE	1.471	1.498	1.52	1.56	1.401	1.451	1.474	1.415	1.382	1.452	1.398										1.456577	3.81	0.038	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.889	0.854	0.838	0.825	0.785	0.78	0.812	0.778	0.765	0.817	0.791										0.812203	4.63	0.046	1
ACETONE				0.426	0.389	0.409	0.404	0.374	0.373	0.333	0.382										0.386331	7.31	0.073	1
IODOMETHANE	1.052	1.196	1.185	1.234	1.182	1.201	1.251	1.202	1.21	1.309	1.314										1.212507	5.81	0.058	1
CARBON DISULFIDE	3.069	3.193	3.104	2.962	2.841	2.846	3.044	3.043	3.037	3.293	3.203										3.057672	4.61	0.046	1
METHYLENE CHLORIDE	1.122	1.063	1.026	1.065	0.962	0.967	0.993	0.952	0.946	1.001	0.968										1.005986	5.63	0.056	1
ACRYLONITRILE	0.254	0.251	0.243	0.219	0.224	0.25	0.254	0.246	0.244	0.253	0.255										0.244756	4.99	0.05	1
n-Hexane				1.178	0.987	0.952	0.953	0.879	0.876	0.914	0.91										0.956128	10.18	0.102	1
TRANS-1,2-DICHLOROETHENE	1.012	0.979	0.897	0.893	0.884	0.893	0.932	0.901	0.897	0.936	0.929										0.922974	4.38	0.044	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 601-602	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: EPA	Released On	: 11/16/2015 11:28:36 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.559	2.342	2.353	2.24	2.342	2.5	2.547	2.441	2.405	2.496	2.498										2.42937	4.17	0.042	1
1,1-DICHLOROETHANE	1.546	1.783	1.757	1.871	1.752	1.821	1.851	1.765	1.751	1.868	1.823										1.78075	5.08	0.051	1
VINYL ACETATE	1.444	1.497	1.5	1.58	1.566	1.665	1.628	1.646	1.529	1.636	1.491										1.562057	4.78	0.048	1
DI-ISOPROPYL ETHER	3.008	3.274	3.208	3.242	3.247	3.407	3.472	3.356	3.349	3.525	3.507										3.326829	4.58	0.046	1
2,2-Dichloropropane	1.396	1.35	1.349	1.353	1.267	1.35	1.357	1.308	1.269	1.339	1.267										1.327951	3.28	0.033	1
CIS-1,2-DICHLOROETHENE	1.088	0.959	1.044	1.002	0.971	1.018	1.041	0.985	0.992	1.05	1.027										1.016214	3.79	0.038	1
2-BUTANONE (MEK)			0.525	0.407	0.395	0.425	0.433	0.413	0.413	0.399	0.427										0.426357	9.16	0.092	1
BROMOCHLOROMETHANE	0.382	0.518	0.49	0.499	0.497	0.528	0.519	0.511	0.502	0.53	0.52										0.499721	8.24	0.082	1
TETRAHYDROFURAN		0.229	0.295	0.239	0.212	0.207	0.217	0.204	0.197	0.197	0.203										0.220043	13.42	0.134	1
CHLOROFORM	1.499	1.572	1.605	1.665	1.631	1.661	1.705	1.615	1.61	1.694	1.666										1.629303	3.63	0.036	1
DIBROMOFLUOROMETHANE	0.536	0.538	0.556	0.556	0.571	0.564	0.6	0.591	0.592	0.611	0.604										0.574502	4.64	0.046	1
1,1,1-TRICHLOROETHANE	1.097	1.281	1.225	1.218	1.226	1.24	1.298	1.224	1.204	1.294	1.271										1.23429	4.54	0.045	1
CARBON TETRACHLORIDE	0.811	0.992	0.963	0.934	0.928	0.926	0.998	0.934	0.933	1.002	0.996										0.947181	5.79	0.058	1
1,1-Dichloropropene	1.305	1.311	1.175	1.292	1.226	1.218	1.273	1.22	1.21	1.274	1.258										1.250995	3.52	0.035	1
2,2,4-TRIMETHYLPENTANE	3.938	4.043	3.931	3.957	3.809	4.026	4.222	3.965	3.888	4.007	4.048										3.985006	2.66	0.027	1
HEPTANE				2.173	1.795	1.77	1.798	1.673	1.653	1.732	1.743										1.792112	9.08	0.091	1
BENZENE	3.884	4.098	4.052	4.164	4.085	4.045	4.193	3.989	3.969	4.17	4.125										4.070366	2.33	0.023	1
1,2-DICHLOROETHANE	1.089	1.244	1.178	1.326	1.235	1.27	1.288	1.23	1.215	1.265	1.228										1.233517	5.01	0.05	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.409	0.476	0.447	0.439	0.415	0.436	0.445	0.431	0.429	0.443	0.441										0.437113	4.03	0.04	1
1,2-DICHLOROPROPANE	0.329	0.358	0.37	0.389	0.359	0.381	0.388	0.376	0.377	0.386	0.389										0.372934	4.92	0.049	1
DIBROMOMETHANE	0.219	0.263	0.251	0.249	0.235	0.251	0.249	0.248	0.241	0.248	0.245										0.245344	4.54	0.045	1

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INITIAL CALIBRATION SUMMARY

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Method	: V820K13O	Review Protocol	: EPA	Released On	: 11/16/2015 11:28:36 AM

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Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.579	0.681	0.618	0.611	0.595	0.644	0.654	0.636	0.641	0.667	0.668										0.635669	5.04	0.05	1
α,a,a-Trifluorotoluene	0.542	0.545	0.55	0.548	0.529	0.543	0.544	0.542	0.542	0.529	0.526										0.539892	1.49	0.015	1
-CHLOROETHYL VINYL ETHER	0.128	0.16	0.157	0.16	0.153	0.172	0.187	0.183	0.191	0.192	0.212										0.172276	13.54	0.135	1
CIS-1,3-DICHLOROPROPENE	0.656	0.766	0.752	0.797	0.761	0.807	0.833	0.816	0.827	0.853	0.854										0.792825	7.25	0.073	1
4-METHYL-2-PENTANONE (MIBK)	0.366	0.345	0.324	0.326	0.302	0.362	0.369	0.354	0.353	0.345	0.356										0.345743	5.96	0.06	1
TOLUENE-D8	1.31	1.304	1.307	1.32	1.311	1.328	1.339	1.33	1.32	1.317	1.308										1.317584	0.84	0.008	1
TOLUENE	2.238	2.366	2.21	2.244	2.05	2.159	2.174	2.095	2.108	2.168	2.176										2.18076	3.92	0.039	1
TRANS-1,3-DICHLOROPROPENE	0.601	0.644	0.64	0.651	0.631	0.681	0.713	0.704	0.721	0.75	0.758										0.681295	7.58	0.076	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	2	1.906	2.104	1.999	1.94	2.045	2.001	1.888	1.94	2.041	2.017										1.989235	3.26	0.033	1
TETRACHLOROETHENE	1.649	1.81	1.695	1.743	1.702	1.724	1.716	1.625	1.68	1.793	1.789										1.720595	3.45	0.035	1
1,3-Dichloropropane	3.85	3.977	3.655	3.825	3.801	3.925	3.878	3.679	3.797	4.025	3.937										3.849919	3	0.03	1
2-HEXANONE		1.326	1.019	0.897	0.822	0.961	0.948	0.893	0.928	0.936	0.955										0.968496	14.02	0.14	1
CHLORODIBROMOMETHANE	1.828	1.784	1.853	1.949	1.948	1.977	2.008	1.946	2.018	2.164	2.15										1.965915	6.1	0.061	1
1,2-DIBROMOETHANE	1.589	1.93	1.667	1.896	1.782	1.902	1.869	1.794	1.841	1.98	1.926										1.83408	6.48	0.065	1
CHLOROBENZENE	5.845	6.775	6.949	7.006	6.57	7.037	6.842	6.583	6.84	7.143	7.319										6.809828	5.73	0.057	1
1,1,1,2-TETRACHLOROETHANE	1.943	2.091	1.989	1.976	1.974	2.123	2.046	2.026	2.087	2.165	2.172										2.053689	3.87	0.039	1
ETHYLBENZENE	3.743	3.58	3.888	3.995	3.719	3.945	3.888	3.743	3.92	4.017	4.174										3.873695	4.3	0.043	1
M&P-XYLENE	4.502	4.887	4.768	4.852	4.69	4.921	4.862	4.681	4.85	4.931	5.222										4.833299	3.76	0.038	1
O-XYLENE	4.254	4.398	4.295	4.715	4.548	4.85	4.745	4.509	4.661	4.637	4.843										4.586813	4.49	0.045	1
STYRENE	7.297	6.554	7.162	7.427	7.111	7.674	7.816	7.389	7.909	8.05	8.318										7.518771	6.63	0.066	1
Bromoform	1.032	1.016	0.816	0.96	0.935	1.009	1.024	1.01	1.077	1.121	1.135										1.012233	8.79	0.088	1

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INITIAL CALIBRATION SUMMARY

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Method	: V820K13O	Review Protocol	: EPA	Released On	: 11/16/2015 11:28:36 AM

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Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
isopropylbenzene	11.15	12.28	11.57	11.48	11.07	12.37	12.15	11.63	12.02	11.45	12.42										11.7812	4.13	0.041	1
4-BROMOFLUOROBENZENE	2.912	2.893	2.889	2.898	2.853	2.998	2.936	2.882	2.957	2.917	2.942										2.916	1.38	0.014	1
bromobenzene	5.725	5.751	5.466	5.944	5.398	5.951	5.773	5.607	5.744	5.83	6.037										5.747939	3.45	0.034	1
1,1,2,2-TETRACHLOROETHANE	2.653	2.586	2.145	2.366	2.206	2.492	2.408	2.367	2.343	2.392	2.43										2.399037	6.12	0.061	1
1,2,3-TRICHLOROPROPANE	0.738	0.677	0.643	0.639	0.637	0.666	0.655	0.621	0.622	0.639	0.641										0.65263	5.07	0.051	1
TRANS-1,4-DICHLORO-2-BUTENE	0.879	0.473	0.662	0.648	0.618	0.737	0.714	0.687	0.725	0.737	0.75										0.693649	14.41	0.144	1
n-Propylbenzene	16.2	15.85	14.78	13.96	13.35	15.13	14.98	14.48	14.92	14.1	15.5										14.84125	5.67	0.057	1
4-ETHYLTOLUENE	12.46	12.55	11.54	11.48	10.81	12.34	12.44	11.87	12.32	11.59	12.8										12.01937	5.03	0.05	1
2-Chlorotoluene	3.029	2.925	2.716	2.736	2.501	2.771	2.67	2.547	2.697	2.614	2.851										2.732454	5.77	0.058	1
4-Chlorotoluene	9.201	9.646	8.788	9.02	8.505	9.216	9.266	8.838	9.099	8.981	9.498										9.096287	3.56	0.036	1
1,3,5-Trimethylbenzene	8.21	10.14	9.639999	9.48	9.34	10.61	10.53	10.06	10.35	9.71	10.72										9.889649	7.37	0.074	1
tert-Butylbenzene	7.653	8.295	7.842	7.378	7.027	8.327	8.202	7.883	8.013	7.385	8.164										7.833656	5.46	0.055	1
1,2,4-Trimethylbenzene	9.67	9.73	9.76	9.41	8.94	10.4	10.35	9.91	10.19	9.57	10.42										9.850451	4.7	0.047	1
sec-Butylbenzene	12.01	13.26	12.53	11.71	10.84	13.2	13.21	12.55	12.8	11.6	12.94										12.4218	6.36	0.064	1
1,3-DICHLOROBENZENE	4.943	4.988	4.703	4.788	4.482	4.974	4.988	4.755	4.934	4.789	5.16										4.863952	3.77	0.038	1
p-Isopropyltoluene	9.04	10.58	10.19	9.24	8.48	10.71	10.64	10.21	10.46	9.440001	10.57										9.960381	7.75	0.078	1
DICYCLOPENTADIENE	11.49	12.93	12.8	12.08	11.79	13.63	13.38	12.81	13.1	12.37	13.5										12.71537	5.56	0.056	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.138	2.135	1.96	2.047	1.953	1.973	1.962	1.892	1.936	1.968	1.982										1.994945	3.95	0.039	1
1,2,3-TRIMETHYLBENZENE	4.682	4.653	4.118	4.117	4.164	4.279	4.239	4.053	4.124	4.163	4.133										4.247766	5.09	0.051	1
1,2-DICHLOROBENZENE	1.612	1.915	1.772	1.742	1.761	1.824	1.797	1.717	1.748	1.787	1.737										1.764726	4.2	0.042	1
n-Butylbenzene	4.016	4.335	4.19	3.625	3.512	4.178	4.209	3.969	3.945	3.622	3.797										3.945096	6.98	0.07	1

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1,2-Dibromo-3-chloropropane	0.098	0.162	0.154	0.118	0.122	0.127	0.13	0.122	0.125	0.138	0.127										0.129396	13.33	0.133	1
1,2,4-Trichlorobenzene			1.266	1.046	0.9	1.078	1.085	1.009	1.012	0.967	0.916										1.030736	10.64	0.106	1
HEXACHLORO-1,3-BUTADIENE	0.545	0.538	0.581	0.482	0.414	0.566	0.549	0.515	0.508	0.459	0.433										0.508243	10.8	0.108	1
Naphthalene			2.594	2.281	2.115	2.499	2.508	2.361	2.359	2.496	2.251										2.384858	6.41	0.064	1
1,2,3-Trichlorobenzene		1.236	1.067	0.809	0.778	0.953	0.96	0.891	0.886	0.883	0.782										0.924505	15.23	0.152	1
1-Methylnaphthalene			1.553	1.154	0.988	1.286	1.291	1.228	1.209	1.257	1.002										1.218741	13.83	0.138	1
2-Methylnaphthalene			1.253	0.959	0.812	1.089	1.075	1.005	0.989	1.042	0.796										1.002299	14.04	0.14	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.009	0.007	0.008	0.008	0.007	0.007	0.007	0.007	0.007582	10.36	0.104	1
Bromoethane												0.79	0.782	0.809	0.792	0.845	0.811	0.819	0.776	0.757	0.797891	3.27	0.033	1
2-PROPANOL																					0	0	0	1
Methyl Acetate												0.542	0.494	0.478	0.483	0.506	0.485	0.488	0.458	0.475	0.489738	4.82	0.048	1
ACETONITRILE												0.084	0.08	0.073	0.076	0.082	0.077	0.08	0.072	0.072	0.077414	5.66	0.057	1
ALLYL CHLORIDE												0.526	0.483	0.495	0.478	0.525	0.504	0.506	0.475	0.472	0.496064	4.16	0.042	1
tert-BUTYL ALCOHOL												0.151	0.155	0.13	0.145	0.155	0.139	0.142	0.133	0.145	0.143751	6.13	0.061	1
chloroprene												1.634	1.491	1.539	1.545	1.637	1.586	1.563	1.512	1.497	1.555979	3.49	0.035	1
ETHYL TERT-BUTYL ETHER												3.385	2.894	2.911	2.892	2.963	2.944	2.929	2.846	2.849	2.957027	5.58	0.056	1
PROPIONITRILE												0.101	0.095	0.091	0.092	0.098	0.094	0.094	0.088	0.091	0.093845	4.16	0.042	1
Ethyl Acetate												0.707	0.615	0.595	0.638	0.66	0.641	0.638	0.615	0.644	0.639446	5.01	0.05	1
METHACRYLONITRILE												0.317	0.297	0.284	0.295	0.305	0.295	0.295	0.281	0.294	0.296057	3.58	0.036	1
Cyclohexane												2.07	1.983	1.963	1.981	2.16	2.033	1.985	1.956	1.868	1.999786	4.08	0.041	1
tert-butyl formate												0.023	0.019	0.017	0.019	0.02	0.019	0.019	0.017	0.015	0.01889	12.26	0.123	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 601-602	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: EPA	Released On	: 11/16/2015 11:28:36 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.255	0.236	0.228	0.237	0.248	0.238	0.238	0.225	0.234	0.237663	3.88	0.039	1
Amyl Alcohol												0.052	0.036	0.043	0.045	0.047	0.04	0.046	0.04	0.045	0.043797	10.73	0.107	1
TERT-AMYL METHYL ETHER												3.3	3.131	3.066	3.082	3.184	3.076	3.151	2.98	2.98	3.105507	3.25	0.032	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.009	0.009	0.009	0.009	0.01	0.009	0.009	0.008	0.009	0.009096	5.62	0.056	1
Methyl Cyclohexane												1.756	1.339	1.258	1.211	1.241	1.207	1.189	1.133	1.101	1.270618	15.33	0.153	1
-nitropropane												0.092	0.088	0.09	0.096	0.095	0.092	0.094	0.087	0.091	0.09166	3.25	0.032	1
METHYL METHACRYLATE												0.381	0.357	0.337	0.36	0.354	0.351	0.355	0.339	0.363	0.354996	3.71	0.037	1
1,4-DIOXANE												0.004	0.004	0.003	0.004	0.004	0.003	0.004	0.003	0.003	0.003521	10.05	0.1	1
n-octane												0.735	0.589	0.503	0.511	0.51	0.496	0.486	0.477	0.455	0.529047	16.14	0.998	0
3,3-DIMETHYL-1-BUTANOL												0.019	0.018	0.016	0.018	0.024	0.021	0.022	0.02	0.022	0.020059	13.13	0.131	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.747	2.711	2.637	2.742	2.8	2.69	2.668	2.53	2.696	2.691251	2.86	0.029	1
CIS-1,4-DICHLORO-2-BUTENE												0.764	0.663	0.682	0.679	0.73	0.68	0.684	0.642	0.676	0.688968	5.3	0.053	1
Cyclohexanone												0.346	0.3	0.288	0.311	0.306	0.294	0.289	0.313	0.355	0.311234	7.75	0.077	1
PENTACHLOROETHANE												1.296	1.266	1.152	1.291	1.27	1.177	1.284	1.3	1.193	1.247728	4.6	0.046	1
Hexachloroethane												1.594	1.493	1.648	1.605	1.743	1.668	1.613	1.549	1.596	1.611887	4.41	0.044	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: EPA	Released On	: 11/16/2015 11:29:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.232	0.203	0.197	0.177	0.162	0.158	0.166	0.16										0.181832	14.59	0.146	1
DICHLORODIFLUOROMETHANE	0.833	0.904	0.889	0.822	0.815	0.882	0.866	0.823	0.795	0.865	0.826										0.847204	4.18	0.042	1
CHLOROMETHANE	1.45	1.325	1.211	1.182	1.119	1.175	1.153	1.112	1.105	1.162	1.13										1.192978	8.81	0.088	1
VINYL CHLORIDE	0.934	1.42	1.335	1.342	1.258	1.285	1.287	1.212	1.2	1.282	1.23										1.253198	9.84	0.098	1
1,3-BUTADIENE	0.591	0.702	0.755	0.866	0.751	0.829	0.836	0.796	0.78	0.823	0.809										0.77623	9.9	0.099	1
BROMOMETHANE	0.755	0.869	0.808	0.854	0.723	0.804	0.816	0.768	0.74	0.771	0.665										0.779251	7.6	0.076	1
CHLOROETHANE	0.9	1.012	0.873	0.867	0.795	0.814	0.827	0.789	0.775	0.808	0.749										0.837014	8.77	0.088	1
TRICHLOROFLUOROMETHANE	1.297	1.444	1.394	1.24	1.228	1.272	1.291	1.233	1.192	1.268	1.217										1.279693	5.99	0.06	1
DICHLOROFLUOROMETHANE	1.59	1.953	1.925	1.908	1.788	1.863	1.872	1.781	1.75	1.847	1.752										1.820838	5.68	0.057	1
ETHYL ETHER	1.018	0.904	0.872	0.85	0.867	0.878	0.873	0.825	0.822	0.863	0.83										0.872901	6.22	0.062	1
ACROLEIN	0.131	0.147	0.114	0.111	0.107	0.107	0.106	0.101	0.104	0.107	0.106										0.112881	12.26	0.123	1
1,1-DICHLOROETHENE	1.471	1.498	1.52	1.56	1.401	1.451	1.474	1.415	1.382	1.452	1.398										1.456577	3.81	0.038	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.889	0.854	0.838	0.825	0.785	0.78	0.812	0.778	0.765	0.817	0.791										0.812203	4.63	0.046	1
ACETONE				0.426	0.389	0.409	0.404	0.374	0.373	0.333	0.382										0.386331	7.31	0.073	1
IODOMETHANE	1.052	1.196	1.185	1.234	1.182	1.201	1.251	1.202	1.21	1.309	1.314										1.212507	5.81	0.058	1
CARBON DISULFIDE	3.069	3.193	3.104	2.962	2.841	2.846	3.044	3.043	3.037	3.293	3.203										3.057672	4.61	0.046	1
METHYLENE CHLORIDE	1.122	1.063	1.026	1.065	0.962	0.967	0.993	0.952	0.946	1.001	0.968										1.005986	5.63	0.056	1
ACRYLONITRILE	0.254	0.251	0.243	0.219	0.224	0.25	0.254	0.246	0.244	0.253	0.255										0.244756	4.99	0.05	1
n-Hexane				1.178	0.987	0.952	0.953	0.879	0.876	0.914	0.91										0.956128	10.18	0.102	1
TRANS-1,2-DICHLOROETHENE	1.012	0.979	0.897	0.893	0.884	0.893	0.932	0.901	0.897	0.936	0.929										0.922974	4.38	0.044	1

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: EPA	Released On	: 11/16/2015 11:29:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.559	2.342	2.353	2.24	2.342	2.5	2.547	2.441	2.405	2.496	2.498										2.42937	4.17	0.042	1
,1-DICHLOROETHANE	1.546	1.783	1.757	1.871	1.752	1.821	1.851	1.765	1.751	1.868	1.823										1.78075	5.08	0.051	1
VINYL ACETATE	1.444	1.497	1.5	1.58	1.566	1.665	1.628	1.646	1.529	1.636	1.491										1.562057	4.78	0.048	1
DI-ISOPROPYL ETHER	3.008	3.274	3.208	3.242	3.247	3.407	3.472	3.356	3.349	3.525	3.507										3.326829	4.58	0.046	1
2,2-Dichloropropane	1.396	1.35	1.349	1.353	1.267	1.35	1.357	1.308	1.269	1.339	1.267										1.327951	3.28	0.033	1
CIS-1,2-DICHLOROETHENE	1.088	0.959	1.044	1.002	0.971	1.018	1.041	0.985	0.992	1.05	1.027										1.016214	3.79	0.038	1
-BUTANONE (MEK)			0.525	0.407	0.395	0.425	0.433	0.413	0.413	0.399	0.427										0.426357	9.16	0.092	1
BROMOCHLOROMETHANE	0.382	0.518	0.49	0.499	0.497	0.528	0.519	0.511	0.502	0.53	0.52										0.499721	8.24	0.082	1
TETRAHYDROFURAN		0.229	0.295	0.239	0.212	0.207	0.217	0.204	0.197	0.197	0.203										0.220043	13.42	0.134	1
CHLOROFORM	1.499	1.572	1.605	1.665	1.631	1.661	1.705	1.615	1.61	1.694	1.666										1.629303	3.63	0.036	1
DIBROMOFLUOROMETHANE	0.536	0.538	0.556	0.556	0.571	0.564	0.6	0.591	0.592	0.611	0.604										0.574502	4.64	0.046	1
1,1,1-TRICHLOROETHANE	1.097	1.281	1.225	1.218	1.226	1.24	1.298	1.224	1.204	1.294	1.271										1.23429	4.54	0.045	1
CARBON TETRACHLORIDE	0.811	0.992	0.963	0.934	0.928	0.926	0.998	0.934	0.933	1.002	0.996										0.947181	5.79	0.058	1
1,1-Dichloropropene	1.305	1.311	1.175	1.292	1.226	1.218	1.273	1.22	1.21	1.274	1.258										1.250995	3.52	0.035	1
2,2,4-TRIMETHYLPENTANE	3.938	4.043	3.931	3.957	3.809	4.026	4.222	3.965	3.888	4.007	4.048										3.985006	2.66	0.027	1
HEPTANE				2.173	1.795	1.77	1.798	1.673	1.653	1.732	1.743										1.792112	9.08	0.091	1
BENZENE	3.884	4.098	4.052	4.164	4.085	4.045	4.193	3.989	3.969	4.17	4.125										4.070366	2.33	0.023	1
1,2-DICHLOROETHANE	1.089	1.244	1.178	1.326	1.235	1.27	1.288	1.23	1.215	1.265	1.228										1.233517	5.01	0.05	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.409	0.476	0.447	0.439	0.415	0.436	0.445	0.431	0.429	0.443	0.441										0.437113	4.03	0.04	1
,2-DICHLOROPROPANE	0.329	0.358	0.37	0.389	0.359	0.381	0.388	0.376	0.377	0.386	0.389										0.372934	4.92	0.049	1
DIBROMOMETHANE	0.219	0.263	0.251	0.249	0.235	0.251	0.249	0.248	0.241	0.248	0.245										0.245344	4.54	0.045	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: EPA	Released On	: 11/16/2015 11:29:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.579	0.681	0.618	0.611	0.595	0.644	0.654	0.636	0.641	0.667	0.668										0.635669	5.04	0.05	1
α,a,a-Trifluorotoluene	0.542	0.545	0.55	0.548	0.529	0.543	0.544	0.542	0.542	0.529	0.526										0.539892	1.49	0.015	1
-CHLOROETHYL VINYL ETHER	0.128	0.16	0.157	0.16	0.153	0.172	0.187	0.183	0.191	0.192	0.212										0.172276	13.54	0.135	1
CIS-1,3-DICHLOROPROPENE	0.656	0.766	0.752	0.797	0.761	0.807	0.833	0.816	0.827	0.853	0.854										0.792825	7.25	0.073	1
4-METHYL-2-PENTANONE (MIBK)	0.366	0.345	0.324	0.326	0.302	0.362	0.369	0.354	0.353	0.345	0.356										0.345743	5.96	0.06	1
TOLUENE-D8	1.31	1.304	1.307	1.32	1.311	1.328	1.339	1.33	1.32	1.317	1.308										1.317584	0.84	0.008	1
TOLUENE	2.238	2.366	2.21	2.244	2.05	2.159	2.174	2.095	2.108	2.168	2.176										2.18076	3.92	0.039	1
TRANS-1,3-DICHLOROPROPENE	0.601	0.644	0.64	0.651	0.631	0.681	0.713	0.704	0.721	0.75	0.758										0.681295	7.58	0.076	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	2	1.906	2.104	1.999	1.94	2.045	2.001	1.888	1.94	2.041	2.017										1.989235	3.26	0.033	1
TETRACHLOROETHENE	1.649	1.81	1.695	1.743	1.702	1.724	1.716	1.625	1.68	1.793	1.789										1.720595	3.45	0.035	1
1,3-Dichloropropane	3.85	3.977	3.655	3.825	3.801	3.925	3.878	3.679	3.797	4.025	3.937										3.849919	3	0.03	1
2-HEXANONE		1.326	1.019	0.897	0.822	0.961	0.948	0.893	0.928	0.936	0.955										0.968496	14.02	0.14	1
CHLORODIBROMOMETHANE	1.828	1.784	1.853	1.949	1.948	1.977	2.008	1.946	2.018	2.164	2.15										1.965915	6.1	0.061	1
1,2-DIBROMOETHANE	1.589	1.93	1.667	1.896	1.782	1.902	1.869	1.794	1.841	1.98	1.926										1.83408	6.48	0.065	1
CHLOROBENZENE	5.845	6.775	6.949	7.006	6.57	7.037	6.842	6.583	6.84	7.143	7.319										6.809828	5.73	0.057	1
1,1,1,2-TETRACHLOROETHANE	1.943	2.091	1.989	1.976	1.974	2.123	2.046	2.026	2.087	2.165	2.172										2.053689	3.87	0.039	1
ETHYLBENZENE	3.743	3.58	3.888	3.995	3.719	3.945	3.888	3.743	3.92	4.017	4.174										3.873695	4.3	0.043	1
M&P-XYLENE	4.502	4.887	4.768	4.852	4.69	4.921	4.862	4.681	4.85	4.931	5.222										4.833299	3.76	0.038	1
O-XYLENE	4.254	4.398	4.295	4.715	4.548	4.85	4.745	4.509	4.661	4.637	4.843										4.586813	4.49	0.045	1
STYRENE	7.297	6.554	7.162	7.427	7.111	7.674	7.816	7.389	7.909	8.05	8.318										7.518771	6.63	0.066	1
Bromoform	1.032	1.016	0.816	0.96	0.935	1.009	1.024	1.01	1.077	1.121	1.135										1.012233	8.79	0.088	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: EPA	Released On	: 11/16/2015 11:29:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	11.15	12.28	11.57	11.48	11.07	12.37	12.15	11.63	12.02	11.45	12.42										11.7812	4.13	0.041	1
4-BROMOFLUOROBENZENE	2.912	2.893	2.889	2.898	2.853	2.998	2.936	2.882	2.957	2.917	2.942										2.916	1.38	0.014	1
Bromobenzene	5.725	5.751	5.466	5.944	5.398	5.951	5.773	5.607	5.744	5.83	6.037										5.747939	3.45	0.034	1
1,1,2,2-TETRACHLOROETHANE	2.653	2.586	2.145	2.366	2.206	2.492	2.408	2.367	2.343	2.392	2.43										2.399037	6.12	0.061	1
1,2,3-TRICHLOROPROPANE	0.738	0.677	0.643	0.639	0.637	0.666	0.655	0.621	0.622	0.639	0.641										0.65263	5.07	0.051	1
TRANS-1,4-DICHLORO-2-BUTENE	0.879	0.473	0.662	0.648	0.618	0.737	0.714	0.687	0.725	0.737	0.75										0.693649	14.41	0.144	1
n-Propylbenzene	16.2	15.85	14.78	13.96	13.35	15.13	14.98	14.48	14.92	14.1	15.5										14.84125	5.67	0.057	1
4-ETHYLTOLUENE	12.46	12.55	11.54	11.48	10.81	12.34	12.44	11.87	12.32	11.59	12.8										12.01937	5.03	0.05	1
2-Chlorotoluene	3.029	2.925	2.716	2.736	2.501	2.771	2.67	2.547	2.697	2.614	2.851										2.732454	5.77	0.058	1
4-Chlorotoluene	9.201	9.646	8.788	9.02	8.505	9.216	9.266	8.838	9.099	8.981	9.498										9.096287	3.56	0.036	1
1,3,5-Trimethylbenzene	8.21	10.14	9.639999	9.48	9.34	10.61	10.53	10.06	10.35	9.71	10.72										9.889649	7.37	0.074	1
tert-Butylbenzene	7.653	8.295	7.842	7.378	7.027	8.327	8.202	7.883	8.013	7.385	8.164										7.833656	5.46	0.055	1
1,2,4-Trimethylbenzene	9.67	9.73	9.76	9.41	8.94	10.4	10.35	9.91	10.19	9.57	10.42										9.850451	4.7	0.047	1
sec-Butylbenzene	12.01	13.26	12.53	11.71	10.84	13.2	13.21	12.55	12.8	11.6	12.94										12.4218	6.36	0.064	1
1,3-DICHLOROBENZENE	4.943	4.988	4.703	4.788	4.482	4.974	4.988	4.755	4.934	4.789	5.16										4.863952	3.77	0.038	1
p-Isopropyltoluene	9.04	10.58	10.19	9.24	8.48	10.71	10.64	10.21	10.46	9.440001	10.57										9.960381	7.75	0.078	1
DICYCLOPENTADIENE	11.49	12.93	12.8	12.08	11.79	13.63	13.38	12.81	13.1	12.37	13.5										12.71537	5.56	0.056	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.138	2.135	1.96	2.047	1.953	1.973	1.962	1.892	1.936	1.968	1.982										1.994945	3.95	0.039	1
1,2,3-TRIMETHYLBENZENE	4.682	4.653	4.118	4.117	4.164	4.279	4.239	4.053	4.124	4.163	4.133										4.247766	5.09	0.051	1
1,2-DICHLOROBENZENE	1.612	1.915	1.772	1.742	1.761	1.824	1.797	1.717	1.748	1.787	1.737										1.764726	4.2	0.042	1
n-Butylbenzene	4.016	4.335	4.19	3.625	3.512	4.178	4.209	3.969	3.945	3.622	3.797										3.945096	6.98	0.07	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: EPA	Released On	: 11/16/2015 11:29:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane	0.098	0.162	0.154	0.118	0.122	0.127	0.13	0.122	0.125	0.138	0.127										0.129396	13.33	0.133	1
1,2,4-Trichlorobenzene			1.266	1.046	0.9	1.078	1.085	1.009	1.012	0.967	0.916										1.030736	10.64	0.106	1
HEXACHLORO-1,3-BUTADIENE	0.545	0.538	0.581	0.482	0.414	0.566	0.549	0.515	0.508	0.459	0.433										0.508243	10.8	0.108	1
Naphthalene			2.594	2.281	2.115	2.499	2.508	2.361	2.359	2.496	2.251										2.384858	6.41	0.064	1
1,2,3-Trichlorobenzene		1.236	1.067	0.809	0.778	0.953	0.96	0.891	0.886	0.883	0.782										0.924505	15.23	0.152	1
1-Methylnaphthalene			1.553	1.154	0.988	1.286	1.291	1.228	1.209	1.257	1.002										1.218741	13.83	0.138	1
2-Methylnaphthalene			1.253	0.959	0.812	1.089	1.075	1.005	0.989	1.042	0.796										1.002299	14.04	0.14	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.009	0.007	0.008	0.008	0.007	0.007	0.007	0.007	0.007582	10.36	0.104	1
Bromoethane												0.79	0.782	0.809	0.792	0.845	0.811	0.819	0.776	0.757	0.797891	3.27	0.033	1
2-PROPANOL																					0	0	0	1
Methyl Acetate												0.542	0.494	0.478	0.483	0.506	0.485	0.488	0.458	0.475	0.489738	4.82	0.048	1
ACETONITRILE												0.084	0.08	0.073	0.076	0.082	0.077	0.08	0.072	0.072	0.077414	5.66	0.057	1
ALLYL CHLORIDE												0.526	0.483	0.495	0.478	0.525	0.504	0.506	0.475	0.472	0.496064	4.16	0.042	1
tert-BUTYL ALCOHOL												0.151	0.155	0.13	0.145	0.155	0.139	0.142	0.133	0.145	0.143751	6.13	0.061	1
chloroprene												1.634	1.491	1.539	1.545	1.637	1.586	1.563	1.512	1.497	1.555979	3.49	0.035	1
ETHYL TERT-BUTYL ETHER												3.385	2.894	2.911	2.892	2.963	2.944	2.929	2.846	2.849	2.957027	5.58	0.056	1
PROPIONITRILE												0.101	0.095	0.091	0.092	0.098	0.094	0.094	0.088	0.091	0.093845	4.16	0.042	1
Ethyl Acetate												0.707	0.615	0.595	0.638	0.66	0.641	0.638	0.615	0.644	0.639446	5.01	0.05	1
METHACRYLONITRILE												0.317	0.297	0.284	0.295	0.305	0.295	0.295	0.281	0.294	0.296057	3.58	0.036	1
Cyclohexane												2.07	1.983	1.963	1.981	2.16	2.033	1.985	1.956	1.868	1.999786	4.08	0.041	1
tert-butyl formate												0.023	0.019	0.017	0.019	0.02	0.019	0.019	0.017	0.015	0.01889	12.26	0.123	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: EPA	Released On	: 11/16/2015 11:29:34 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.255	0.236	0.228	0.237	0.248	0.238	0.238	0.225	0.234	0.237663	3.88	0.039	1
Amyl Alcohol												0.052	0.036	0.043	0.045	0.047	0.04	0.046	0.04	0.045	0.043797	10.73	0.107	1
TERT-AMYL METHYL ETHER												3.3	3.131	3.066	3.082	3.184	3.076	3.151	2.98	2.98	3.105507	3.25	0.032	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.009	0.009	0.009	0.009	0.01	0.009	0.009	0.008	0.009	0.009096	5.62	0.056	1
Methyl Cyclohexane												1.756	1.339	1.258	1.211	1.241	1.207	1.189	1.133	1.101	1.270618	15.33	0.153	1
-nitropropane												0.092	0.088	0.09	0.096	0.095	0.092	0.094	0.087	0.091	0.09166	3.25	0.032	1
METHYL METHACRYLATE												0.381	0.357	0.337	0.36	0.354	0.351	0.355	0.339	0.363	0.354996	3.71	0.037	1
1,4-DIOXANE												0.004	0.004	0.003	0.004	0.004	0.003	0.004	0.003	0.003	0.003521	10.05	0.1	1
n-octane												0.735	0.589	0.503	0.511	0.51	0.496	0.486	0.477	0.455	0.529047	16.14	0.998	0
3,3-DIMETHYL-1-BUTANOL												0.019	0.018	0.016	0.018	0.024	0.021	0.022	0.02	0.022	0.020059	13.13	0.131	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.747	2.711	2.637	2.742	2.8	2.69	2.668	2.53	2.696	2.691251	2.86	0.029	1
CIS-1,4-DICHLORO-2-BUTENE												0.764	0.663	0.682	0.679	0.73	0.68	0.684	0.642	0.676	0.688968	5.3	0.053	1
Cyclohexanone												0.346	0.3	0.288	0.311	0.306	0.294	0.289	0.313	0.355	0.311234	7.75	0.077	1
PENTACHLOROETHANE												1.296	1.266	1.152	1.291	1.27	1.177	1.284	1.3	1.193	1.247728	4.6	0.046	1
Hexachloroethane												1.594	1.493	1.648	1.605	1.743	1.668	1.613	1.549	1.596	1.611887	4.41	0.044	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260SC	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SC	Released On	: 11/16/2015 11:30:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.232	0.203	0.197	0.177	0.162	0.158	0.166	0.16										0.181832	14.59	0.146	1
DICHLORODIFLUOROMETHANE	0.833	0.904	0.889	0.822	0.815	0.882	0.866	0.823	0.795	0.865	0.826										0.847204	4.18	0.042	1
CHLOROMETHANE	1.45	1.325	1.211	1.182	1.119	1.175	1.153	1.112	1.105	1.162	1.13										1.192978	8.81	0.088	1
VINYL CHLORIDE	0.934	1.42	1.335	1.342	1.258	1.285	1.287	1.212	1.2	1.282	1.23										1.253198	9.84	0.098	1
1,3-BUTADIENE	0.591	0.702	0.755	0.866	0.751	0.829	0.836	0.796	0.78	0.823	0.809										0.77623	9.9	0.099	1
BROMOMETHANE	0.755	0.869	0.808	0.854	0.723	0.804	0.816	0.768	0.74	0.771	0.665										0.779251	7.6	0.076	1
CHLOROETHANE	0.9	1.012	0.873	0.867	0.795	0.814	0.827	0.789	0.775	0.808	0.749										0.837014	8.77	0.088	1
TRICHLOROFLUOROMETHANE	1.297	1.444	1.394	1.24	1.228	1.272	1.291	1.233	1.192	1.268	1.217										1.279693	5.99	0.06	1
DICHLOROFLUOROMETHANE	1.59	1.953	1.925	1.908	1.788	1.863	1.872	1.781	1.75	1.847	1.752										1.820838	5.68	0.057	1
ETHYL ETHER	1.018	0.904	0.872	0.85	0.867	0.878	0.873	0.825	0.822	0.863	0.83										0.872901	6.22	0.062	1
ACROLEIN	0.131	0.147	0.114	0.111	0.107	0.107	0.106	0.101	0.104	0.107	0.106										0.112881	12.26	0.123	1
1,1-DICHLOROETHENE	1.471	1.498	1.52	1.56	1.401	1.451	1.474	1.415	1.382	1.452	1.398										1.456577	3.81	0.038	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.889	0.854	0.838	0.825	0.785	0.78	0.812	0.778	0.765	0.817	0.791										0.812203	4.63	0.046	1
ACETONE				0.426	0.389	0.409	0.404	0.374	0.373	0.333	0.382										0.386331	7.31	0.073	1
IODOMETHANE	1.052	1.196	1.185	1.234	1.182	1.201	1.251	1.202	1.21	1.309	1.314										1.212507	5.81	0.058	1
CARBON DISULFIDE	3.069	3.193	3.104	2.962	2.841	2.846	3.044	3.043	3.037	3.293	3.203										3.057672	4.61	0.046	1
METHYLENE CHLORIDE	1.122	1.063	1.026	1.065	0.962	0.967	0.993	0.952	0.946	1.001	0.968										1.005986	5.63	0.056	1
ACRYLONITRILE	0.254	0.251	0.243	0.219	0.224	0.25	0.254	0.246	0.244	0.253	0.255										0.244756	4.99	0.05	1
n-Hexane				1.178	0.987	0.952	0.953	0.879	0.876	0.914	0.91										0.956128	10.18	0.102	1
TRANS-1,2-DICHLOROETHENE	1.012	0.979	0.897	0.893	0.884	0.893	0.932	0.901	0.897	0.936	0.929										0.922974	4.38	0.044	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260SC	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SC	Released On	: 11/16/2015 11:30:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.559	2.342	2.353	2.24	2.342	2.5	2.547	2.441	2.405	2.496	2.498										2.42937	4.17	0.042	1
,1-DICHLOROETHANE	1.546	1.783	1.757	1.871	1.752	1.821	1.851	1.765	1.751	1.868	1.823										1.78075	5.08	0.051	1
VINYL ACETATE	1.444	1.497	1.5	1.58	1.566	1.665	1.628	1.646	1.529	1.636	1.491										1.562057	4.78	0.048	1
DI-ISOPROPYL ETHER	3.008	3.274	3.208	3.242	3.247	3.407	3.472	3.356	3.349	3.525	3.507										3.326829	4.58	0.046	1
2,2-Dichloropropane	1.396	1.35	1.349	1.353	1.267	1.35	1.357	1.308	1.269	1.339	1.267										1.327951	3.28	0.033	1
CIS-1,2-DICHLOROETHENE	1.088	0.959	1.044	1.002	0.971	1.018	1.041	0.985	0.992	1.05	1.027										1.016214	3.79	0.038	1
-BUTANONE (MEK)			0.525	0.407	0.395	0.425	0.433	0.413	0.413	0.399	0.427										0.426357	9.16	0.092	1
BROMOCHLOROMETHANE	0.382	0.518	0.49	0.499	0.497	0.528	0.519	0.511	0.502	0.53	0.52										0.499721	8.24	0.082	1
TETRAHYDROFURAN		0.229	0.295	0.239	0.212	0.207	0.217	0.204	0.197	0.197	0.203										0.220043	13.42	0.134	1
CHLOROFORM	1.499	1.572	1.605	1.665	1.631	1.661	1.705	1.615	1.61	1.694	1.666										1.629303	3.63	0.036	1
DIBROMOFLUOROMETHANE	0.536	0.538	0.556	0.556	0.571	0.564	0.6	0.591	0.592	0.611	0.604										0.574502	4.64	0.046	1
1,1,1-TRICHLOROETHANE	1.097	1.281	1.225	1.218	1.226	1.24	1.298	1.224	1.204	1.294	1.271										1.23429	4.54	0.045	1
CARBON TETRACHLORIDE	0.811	0.992	0.963	0.934	0.928	0.926	0.998	0.934	0.933	1.002	0.996										0.947181	5.79	0.058	1
1,1-Dichloropropene	1.305	1.311	1.175	1.292	1.226	1.218	1.273	1.22	1.21	1.274	1.258										1.250995	3.52	0.035	1
2,2,4-TRIMETHYLPENTANE	3.938	4.043	3.931	3.957	3.809	4.026	4.222	3.965	3.888	4.007	4.048										3.985006	2.66	0.027	1
HEPTANE				2.173	1.795	1.77	1.798	1.673	1.653	1.732	1.743										1.792112	9.08	0.091	1
BENZENE	3.884	4.098	4.052	4.164	4.085	4.045	4.193	3.989	3.969	4.17	4.125										4.070366	2.33	0.023	1
1,2-DICHLOROETHANE	1.089	1.244	1.178	1.326	1.235	1.27	1.288	1.23	1.215	1.265	1.228										1.233517	5.01	0.05	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.409	0.476	0.447	0.439	0.415	0.436	0.445	0.431	0.429	0.443	0.441										0.437113	4.03	0.04	1
,2-DICHLOROPROPANE	0.329	0.358	0.37	0.389	0.359	0.381	0.388	0.376	0.377	0.386	0.389										0.372934	4.92	0.049	1
DIBROMOMETHANE	0.219	0.263	0.251	0.249	0.235	0.251	0.249	0.248	0.241	0.248	0.245										0.245344	4.54	0.045	1

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INITIAL CALIBRATION SUMMARY

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Method	: V820K13O	Review Protocol	: SC	Released On	: 11/16/2015 11:30:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.579	0.681	0.618	0.611	0.595	0.644	0.654	0.636	0.641	0.667	0.668										0.635669	5.04	0.05	1
α,a,a-Trifluorotoluene	0.542	0.545	0.55	0.548	0.529	0.543	0.544	0.542	0.542	0.529	0.526										0.539892	1.49	0.015	1
-CHLOROETHYL VINYL ETHER	0.128	0.16	0.157	0.16	0.153	0.172	0.187	0.183	0.191	0.192	0.212										0.172276	13.54	0.135	1
CIS-1,3-DICHLOROPROPENE	0.656	0.766	0.752	0.797	0.761	0.807	0.833	0.816	0.827	0.853	0.854										0.792825	7.25	0.073	1
-METHYL-2-PENTANONE (MIBK)	0.366	0.345	0.324	0.326	0.302	0.362	0.369	0.354	0.353	0.345	0.356										0.345743	5.96	0.06	1
TOLUENE-D8	1.31	1.304	1.307	1.32	1.311	1.328	1.339	1.33	1.32	1.317	1.308										1.317584	0.84	0.008	1
TOLUENE	2.238	2.366	2.21	2.244	2.05	2.159	2.174	2.095	2.108	2.168	2.176										2.18076	3.92	0.039	1
TRANS-1,3-DICHLOROPROPENE	0.601	0.644	0.64	0.651	0.631	0.681	0.713	0.704	0.721	0.75	0.758										0.681295	7.58	0.076	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	2	1.906	2.104	1.999	1.94	2.045	2.001	1.888	1.94	2.041	2.017										1.989235	3.26	0.033	1
TETRACHLOROETHENE	1.649	1.81	1.695	1.743	1.702	1.724	1.716	1.625	1.68	1.793	1.789										1.720595	3.45	0.035	1
1,3-Dichloropropane	3.85	3.977	3.655	3.825	3.801	3.925	3.878	3.679	3.797	4.025	3.937										3.849919	3	0.03	1
2-HEXANONE		1.326	1.019	0.897	0.822	0.961	0.948	0.893	0.928	0.936	0.955										0.968496	14.02	0.14	1
CHLORODIBROMOMETHANE	1.828	1.784	1.853	1.949	1.948	1.977	2.008	1.946	2.018	2.164	2.15										1.965915	6.1	0.061	1
1,2-DIBROMOETHANE	1.589	1.93	1.667	1.896	1.782	1.902	1.869	1.794	1.841	1.98	1.926										1.83408	6.48	0.065	1
CHLOROBENZENE	5.845	6.775	6.949	7.006	6.57	7.037	6.842	6.583	6.84	7.143	7.319										6.809828	5.73	0.057	1
1,1,1,2-TETRACHLOROETHANE	1.943	2.091	1.989	1.976	1.974	2.123	2.046	2.026	2.087	2.165	2.172										2.053689	3.87	0.039	1
ETHYLBENZENE	3.743	3.58	3.888	3.995	3.719	3.945	3.888	3.743	3.92	4.017	4.174										3.873695	4.3	0.043	1
M&P-XYLENE	4.502	4.887	4.768	4.852	4.69	4.921	4.862	4.681	4.85	4.931	5.222										4.833299	3.76	0.038	1
O-XYLENE	4.254	4.398	4.295	4.715	4.548	4.85	4.745	4.509	4.661	4.637	4.843										4.586813	4.49	0.045	1
STYRENE	7.297	6.554	7.162	7.427	7.111	7.674	7.816	7.389	7.909	8.05	8.318										7.518771	6.63	0.066	1
Bromoform	1.032	1.016	0.816	0.96	0.935	1.009	1.024	1.01	1.077	1.121	1.135										1.012233	8.79	0.088	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260SC	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SC	Released On	: 11/16/2015 11:30:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	11.15	12.28	11.57	11.48	11.07	12.37	12.15	11.63	12.02	11.45	12.42										11.7812	4.13	0.041	1
4-BROMOFLUOROBENZENE	2.912	2.893	2.889	2.898	2.853	2.998	2.936	2.882	2.957	2.917	2.942										2.916	1.38	0.014	1
Bromobenzene	5.725	5.751	5.466	5.944	5.398	5.951	5.773	5.607	5.744	5.83	6.037										5.747939	3.45	0.034	1
1,1,2,2-TETRACHLOROETHANE	2.653	2.586	2.145	2.366	2.206	2.492	2.408	2.367	2.343	2.392	2.43										2.399037	6.12	0.061	1
1,2,3-TRICHLOROPROPANE	0.738	0.677	0.643	0.639	0.637	0.666	0.655	0.621	0.622	0.639	0.641										0.65263	5.07	0.051	1
TRANS-1,4-DICHLORO-2-BUTENE	0.879	0.473	0.662	0.648	0.618	0.737	0.714	0.687	0.725	0.737	0.75										0.693649	14.41	0.144	1
n-Propylbenzene	16.2	15.85	14.78	13.96	13.35	15.13	14.98	14.48	14.92	14.1	15.5										14.84125	5.67	0.057	1
4-ETHYLTOLUENE	12.46	12.55	11.54	11.48	10.81	12.34	12.44	11.87	12.32	11.59	12.8										12.01937	5.03	0.05	1
2-Chlorotoluene	3.029	2.925	2.716	2.736	2.501	2.771	2.67	2.547	2.697	2.614	2.851										2.732454	5.77	0.058	1
4-Chlorotoluene	9.201	9.646	8.788	9.02	8.505	9.216	9.266	8.838	9.099	8.981	9.498										9.096287	3.56	0.036	1
1,3,5-Trimethylbenzene	8.21	10.14	9.639999	9.48	9.34	10.61	10.53	10.06	10.35	9.71	10.72										9.889649	7.37	0.074	1
tert-Butylbenzene	7.653	8.295	7.842	7.378	7.027	8.327	8.202	7.883	8.013	7.385	8.164										7.833656	5.46	0.055	1
1,2,4-Trimethylbenzene	9.67	9.73	9.76	9.41	8.94	10.4	10.35	9.91	10.19	9.57	10.42										9.850451	4.7	0.047	1
sec-Butylbenzene	12.01	13.26	12.53	11.71	10.84	13.2	13.21	12.55	12.8	11.6	12.94										12.4218	6.36	0.064	1
1,3-DICHLOROBENZENE	4.943	4.988	4.703	4.788	4.482	4.974	4.988	4.755	4.934	4.789	5.16										4.863952	3.77	0.038	1
p-Isopropyltoluene	9.04	10.58	10.19	9.24	8.48	10.71	10.64	10.21	10.46	9.440001	10.57										9.960381	7.75	0.078	1
DICYCLOPENTADIENE	11.49	12.93	12.8	12.08	11.79	13.63	13.38	12.81	13.1	12.37	13.5										12.71537	5.56	0.056	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.138	2.135	1.96	2.047	1.953	1.973	1.962	1.892	1.936	1.968	1.982										1.994945	3.95	0.039	1
1,2,3-TRIMETHYLBENZENE	4.682	4.653	4.118	4.117	4.164	4.279	4.239	4.053	4.124	4.163	4.133										4.247766	5.09	0.051	1
1,2-DICHLOROBENZENE	1.612	1.915	1.772	1.742	1.761	1.824	1.797	1.717	1.748	1.787	1.737										1.764726	4.2	0.042	1
n-Butylbenzene	4.016	4.335	4.19	3.625	3.512	4.178	4.209	3.969	3.945	3.622	3.797										3.945096	6.98	0.07	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260SC	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SC	Released On	: 11/16/2015 11:30:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane	0.098	0.162	0.154	0.118	0.122	0.127	0.13	0.122	0.125	0.138	0.127										0.129396	13.33	0.133	1
1,2,4-Trichlorobenzene			1.266	1.046	0.9	1.078	1.085	1.009	1.012	0.967	0.916										1.030736	10.64	0.106	1
HEXACHLORO-1,3-BUTADIENE	0.545	0.538	0.581	0.482	0.414	0.566	0.549	0.515	0.508	0.459	0.433										0.508243	10.8	0.108	1
Naphthalene			2.594	2.281	2.115	2.499	2.508	2.361	2.359	2.496	2.251										2.384858	6.41	0.064	1
1,2,3-Trichlorobenzene		1.236	1.067	0.809	0.778	0.953	0.96	0.891	0.886	0.883	0.782										0.924505	15.23	0.152	1
1-Methylnaphthalene			1.553	1.154	0.988	1.286	1.291	1.228	1.209	1.257	1.002										1.218741	13.83	0.138	1
2-Methylnaphthalene			1.253	0.959	0.812	1.089	1.075	1.005	0.989	1.042	0.796										1.002299	14.04	0.14	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.009	0.007	0.008	0.008	0.007	0.007	0.007	0.007	0.007582	10.36	0.104	1
Bromoethane												0.79	0.782	0.809	0.792	0.845	0.811	0.819	0.776	0.757	0.797891	3.27	0.033	1
2-PROPANOL																					0	0	0	1
Methyl Acetate												0.542	0.494	0.478	0.483	0.506	0.485	0.488	0.458	0.475	0.489738	4.82	0.048	1
ACETONITRILE												0.084	0.08	0.073	0.076	0.082	0.077	0.08	0.072	0.072	0.077414	5.66	0.057	1
ALLYL CHLORIDE												0.526	0.483	0.495	0.478	0.525	0.504	0.506	0.475	0.472	0.496064	4.16	0.042	1
tert-BUTYL ALCOHOL												0.151	0.155	0.13	0.145	0.155	0.139	0.142	0.133	0.145	0.143751	6.13	0.061	1
chloroprene												1.634	1.491	1.539	1.545	1.637	1.586	1.563	1.512	1.497	1.555979	3.49	0.035	1
ETHYL TERT-BUTYL ETHER												3.385	2.894	2.911	2.892	2.963	2.944	2.929	2.846	2.849	2.957027	5.58	0.056	1
PROPIONITRILE												0.101	0.095	0.091	0.092	0.098	0.094	0.094	0.088	0.091	0.093845	4.16	0.042	1
Ethyl Acetate												0.707	0.615	0.595	0.638	0.66	0.641	0.638	0.615	0.644	0.639446	5.01	0.05	1
METHACRYLONITRILE												0.317	0.297	0.284	0.295	0.305	0.295	0.295	0.281	0.294	0.296057	3.58	0.036	1
Cyclohexane												2.07	1.983	1.963	1.981	2.16	2.033	1.985	1.956	1.868	1.999786	4.08	0.041	1
tert-butyl formate												0.023	0.019	0.017	0.019	0.02	0.019	0.019	0.017	0.015	0.01889	12.26	0.123	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260SC	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SC	Released On	: 11/16/2015 11:30:20 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.255	0.236	0.228	0.237	0.248	0.238	0.238	0.225	0.234	0.237663	3.88	0.039	1
t-Amyl Alcohol												0.052	0.036	0.043	0.045	0.047	0.04	0.046	0.04	0.045	0.043797	10.73	0.107	1
TERT-AMYL METHYL ETHER												3.3	3.131	3.066	3.082	3.184	3.076	3.151	2.98	2.98	3.105507	3.25	0.032	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.009	0.009	0.009	0.009	0.01	0.009	0.009	0.008	0.009	0.009096	5.62	0.056	1
Methyl Cyclohexane												1.756	1.339	1.258	1.211	1.241	1.207	1.189	1.133	1.101	1.270618	15.33	0.153	1
2-nitropropane												0.092	0.088	0.09	0.096	0.095	0.092	0.094	0.087	0.091	0.09166	3.25	0.032	1
METHYL METHACRYLATE												0.381	0.357	0.337	0.36	0.354	0.351	0.355	0.339	0.363	0.354996	3.71	0.037	1
1,4-DIOXANE												0.004	0.004	0.003	0.004	0.004	0.003	0.004	0.003	0.003	0.003521	10.05	0.1	1
n-octane												0.735	0.589	0.503	0.511	0.51	0.496	0.486	0.477	0.455	0.529047	16.14	0.998	0
3,3-DIMETHYL-1-BUTANOL												0.019	0.018	0.016	0.018	0.024	0.021	0.022	0.02	0.022	0.020059	13.13	0.131	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.747	2.711	2.637	2.742	2.8	2.69	2.668	2.53	2.696	2.691251	2.86	0.029	1
CIS-1,4-DICHLORO-2-BUTENE												0.764	0.663	0.682	0.679	0.73	0.68	0.684	0.642	0.676	0.688968	5.3	0.053	1
Cyclohexanone												0.346	0.3	0.288	0.311	0.306	0.294	0.289	0.313	0.355	0.311234	7.75	0.077	1
PENTACHLOROETHANE												1.296	1.266	1.152	1.291	1.27	1.177	1.284	1.3	1.193	1.247728	4.6	0.046	1
Hexachloroethane												1.594	1.493	1.648	1.605	1.743	1.668	1.613	1.549	1.596	1.611887	4.41	0.044	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260B	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SW846	Released On	: 11/16/2015 11:31:11 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.232	0.203	0.197	0.177	0.162	0.158	0.166	0.16										0.181832	14.59	0.146	1
DICHLORODIFLUOROMETHANE	0.833	0.904	0.889	0.822	0.815	0.882	0.866	0.823	0.795	0.865	0.826										0.847204	4.18	0.042	1
CHLOROMETHANE	1.45	1.325	1.211	1.182	1.119	1.175	1.153	1.112	1.105	1.162	1.13										1.192978	8.81	0.088	1
VINYL CHLORIDE	0.934	1.42	1.335	1.342	1.258	1.285	1.287	1.212	1.2	1.282	1.23										1.253198	9.84	0.098	1
1,3-BUTADIENE	0.591	0.702	0.755	0.866	0.751	0.829	0.836	0.796	0.78	0.823	0.809										0.77623	9.9	0.099	1
BROMOMETHANE	0.755	0.869	0.808	0.854	0.723	0.804	0.816	0.768	0.74	0.771	0.665										0.779251	7.6	0.076	1
CHLOROETHANE	0.9	1.012	0.873	0.867	0.795	0.814	0.827	0.789	0.775	0.808	0.749										0.837014	8.77	0.088	1
TRICHLOROFLUOROMETHANE	1.297	1.444	1.394	1.24	1.228	1.272	1.291	1.233	1.192	1.268	1.217										1.279693	5.99	0.06	1
DICHLOROFLUOROMETHANE	1.59	1.953	1.925	1.908	1.788	1.863	1.872	1.781	1.75	1.847	1.752										1.820838	5.68	0.057	1
ETHYL ETHER	1.018	0.904	0.872	0.85	0.867	0.878	0.873	0.825	0.822	0.863	0.83										0.872901	6.22	0.062	1
ACROLEIN	0.131	0.147	0.114	0.111	0.107	0.107	0.106	0.101	0.104	0.107	0.106										0.112881	12.26	0.123	1
1,1-DICHLOROETHENE	1.471	1.498	1.52	1.56	1.401	1.451	1.474	1.415	1.382	1.452	1.398										1.456577	3.81	0.038	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.889	0.854	0.838	0.825	0.785	0.78	0.812	0.778	0.765	0.817	0.791										0.812203	4.63	0.046	1
ACETONE				0.426	0.389	0.409	0.404	0.374	0.373	0.333	0.382										0.386331	7.31	0.073	1
IODOMETHANE	1.052	1.196	1.185	1.234	1.182	1.201	1.251	1.202	1.21	1.309	1.314										1.212507	5.81	0.058	1
CARBON DISULFIDE	3.069	3.193	3.104	2.962	2.841	2.846	3.044	3.043	3.037	3.293	3.203										3.057672	4.61	0.046	1
METHYLENE CHLORIDE	1.122	1.063	1.026	1.065	0.962	0.967	0.993	0.952	0.946	1.001	0.968										1.005986	5.63	0.056	1
ACRYLONITRILE	0.254	0.251	0.243	0.219	0.224	0.25	0.254	0.246	0.244	0.253	0.255										0.244756	4.99	0.05	1
n-Hexane				1.178	0.987	0.952	0.953	0.879	0.876	0.914	0.91										0.956128	10.18	0.102	1
TRANS-1,2-DICHLOROETHENE	1.012	0.979	0.897	0.893	0.884	0.893	0.932	0.901	0.897	0.936	0.929										0.922974	4.38	0.044	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260B	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SW846	Released On	: 11/16/2015 11:31:11 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	2.559	2.342	2.353	2.24	2.342	2.5	2.547	2.441	2.405	2.496	2.498										2.42937	4.17	0.042	1
,1-DICHLOROETHANE	1.546	1.783	1.757	1.871	1.752	1.821	1.851	1.765	1.751	1.868	1.823										1.78075	5.08	0.051	1
VINYL ACETATE	1.444	1.497	1.5	1.58	1.566	1.665	1.628	1.646	1.529	1.636	1.491										1.562057	4.78	0.048	1
DI-ISOPROPYL ETHER	3.008	3.274	3.208	3.242	3.247	3.407	3.472	3.356	3.349	3.525	3.507										3.326829	4.58	0.046	1
2,2-Dichloropropane	1.396	1.35	1.349	1.353	1.267	1.35	1.357	1.308	1.269	1.339	1.267										1.327951	3.28	0.033	1
CIS-1,2-DICHLOROETHENE	1.088	0.959	1.044	1.002	0.971	1.018	1.041	0.985	0.992	1.05	1.027										1.016214	3.79	0.038	1
-BUTANONE (MEK)			0.525	0.407	0.395	0.425	0.433	0.413	0.413	0.399	0.427										0.426357	9.16	0.092	1
BROMOCHLOROMETHANE	0.382	0.518	0.49	0.499	0.497	0.528	0.519	0.511	0.502	0.53	0.52										0.499721	8.24	0.082	1
TETRAHYDROFURAN		0.229	0.295	0.239	0.212	0.207	0.217	0.204	0.197	0.197	0.203										0.220043	13.42	0.134	1
CHLOROFORM	1.499	1.572	1.605	1.665	1.631	1.661	1.705	1.615	1.61	1.694	1.666										1.629303	3.63	0.036	1
DIBROMOFLUOROMETHANE	0.536	0.538	0.556	0.556	0.571	0.564	0.6	0.591	0.592	0.611	0.604										0.574502	4.64	0.046	1
1,1,1-TRICHLOROETHANE	1.097	1.281	1.225	1.218	1.226	1.24	1.298	1.224	1.204	1.294	1.271										1.23429	4.54	0.045	1
CARBON TETRACHLORIDE	0.811	0.992	0.963	0.934	0.928	0.926	0.998	0.934	0.933	1.002	0.996										0.947181	5.79	0.058	1
1,1-Dichloropropene	1.305	1.311	1.175	1.292	1.226	1.218	1.273	1.22	1.21	1.274	1.258										1.250995	3.52	0.035	1
2,2,4-TRIMETHYLPENTANE	3.938	4.043	3.931	3.957	3.809	4.026	4.222	3.965	3.888	4.007	4.048										3.985006	2.66	0.027	1
HEPTANE				2.173	1.795	1.77	1.798	1.673	1.653	1.732	1.743										1.792112	9.08	0.091	1
BENZENE	3.884	4.098	4.052	4.164	4.085	4.045	4.193	3.989	3.969	4.17	4.125										4.070366	2.33	0.023	1
1,2-DICHLOROETHANE	1.089	1.244	1.178	1.326	1.235	1.27	1.288	1.23	1.215	1.265	1.228										1.233517	5.01	0.05	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.409	0.476	0.447	0.439	0.415	0.436	0.445	0.431	0.429	0.443	0.441										0.437113	4.03	0.04	1
,2-DICHLOROPROPANE	0.329	0.358	0.37	0.389	0.359	0.381	0.388	0.376	0.377	0.386	0.389										0.372934	4.92	0.049	1
DIBROMOMETHANE	0.219	0.263	0.251	0.249	0.235	0.251	0.249	0.248	0.241	0.248	0.245										0.245344	4.54	0.045	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260B	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SW846	Released On	: 11/16/2015 11:31:11 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.579	0.681	0.618	0.611	0.595	0.644	0.654	0.636	0.641	0.667	0.668										0.635669	5.04	0.05	1
α,a,a-Trifluorotoluene	0.542	0.545	0.55	0.548	0.529	0.543	0.544	0.542	0.542	0.529	0.526										0.539892	1.49	0.015	1
2-CHLOROETHYL VINYL ETHER	0.128	0.16	0.157	0.16	0.153	0.172	0.187	0.183	0.191	0.192	0.212										0.172276	13.54	0.135	1
CIS-1,3-DICHLOROPROPENE	0.656	0.766	0.752	0.797	0.761	0.807	0.833	0.816	0.827	0.853	0.854										0.792825	7.25	0.073	1
4-METHYL-2-PENTANONE (MIBK)	0.366	0.345	0.324	0.326	0.302	0.362	0.369	0.354	0.353	0.345	0.356										0.345743	5.96	0.06	1
TOLUENE-D8	1.31	1.304	1.307	1.32	1.311	1.328	1.339	1.33	1.32	1.317	1.308										1.317584	0.84	0.008	1
TOLUENE	2.238	2.366	2.21	2.244	2.05	2.159	2.174	2.095	2.108	2.168	2.176										2.18076	3.92	0.039	1
TRANS-1,3-DICHLOROPROPENE	0.601	0.644	0.64	0.651	0.631	0.681	0.713	0.704	0.721	0.75	0.758										0.681295	7.58	0.076	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	2	1.906	2.104	1.999	1.94	2.045	2.001	1.888	1.94	2.041	2.017										1.989235	3.26	0.033	1
TETRACHLOROETHENE	1.649	1.81	1.695	1.743	1.702	1.724	1.716	1.625	1.68	1.793	1.789										1.720595	3.45	0.035	1
1,3-Dichloropropane	3.85	3.977	3.655	3.825	3.801	3.925	3.878	3.679	3.797	4.025	3.937										3.849919	3	0.03	1
2-HEXANONE		1.326	1.019	0.897	0.822	0.961	0.948	0.893	0.928	0.936	0.955										0.968496	14.02	0.14	1
CHLORODIBROMOMETHANE	1.828	1.784	1.853	1.949	1.948	1.977	2.008	1.946	2.018	2.164	2.15										1.965915	6.1	0.061	1
1,2-DIBROMOETHANE	1.589	1.93	1.667	1.896	1.782	1.902	1.869	1.794	1.841	1.98	1.926										1.83408	6.48	0.065	1
CHLOROBENZENE	5.845	6.775	6.949	7.006	6.57	7.037	6.842	6.583	6.84	7.143	7.319										6.809828	5.73	0.057	1
1,1,1,2-TETRACHLOROETHANE	1.943	2.091	1.989	1.976	1.974	2.123	2.046	2.026	2.087	2.165	2.172										2.053689	3.87	0.039	1
ETHYLBENZENE	3.743	3.58	3.888	3.995	3.719	3.945	3.888	3.743	3.92	4.017	4.174										3.873695	4.3	0.043	1
M&P-XYLENE	4.502	4.887	4.768	4.852	4.69	4.921	4.862	4.681	4.85	4.931	5.222										4.833299	3.76	0.038	1
O-XYLENE	4.254	4.398	4.295	4.715	4.548	4.85	4.745	4.509	4.661	4.637	4.843										4.586813	4.49	0.045	1
STYRENE	7.297	6.554	7.162	7.427	7.111	7.674	7.816	7.389	7.909	8.05	8.318										7.518771	6.63	0.066	1
Bromoform	1.032	1.016	0.816	0.96	0.935	1.009	1.024	1.01	1.077	1.121	1.135										1.012233	8.79	0.088	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260B	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SW846	Released On	: 11/16/2015 11:31:11 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	11.15	12.28	11.57	11.48	11.07	12.37	12.15	11.63	12.02	11.45	12.42										11.7812	4.13	0.041	1
4-BROMOFLUOROBENZENE	2.912	2.893	2.889	2.898	2.853	2.998	2.936	2.882	2.957	2.917	2.942										2.916	1.38	0.014	1
Bromobenzene	5.725	5.751	5.466	5.944	5.398	5.951	5.773	5.607	5.744	5.83	6.037										5.747939	3.45	0.034	1
1,1,2,2-TETRACHLOROETHANE	2.653	2.586	2.145	2.366	2.206	2.492	2.408	2.367	2.343	2.392	2.43										2.399037	6.12	0.061	1
1,2,3-TRICHLOROPROPANE	0.738	0.677	0.643	0.639	0.637	0.666	0.655	0.621	0.622	0.639	0.641										0.65263	5.07	0.051	1
TRANS-1,4-DICHLORO-2-BUTENE	0.879	0.473	0.662	0.648	0.618	0.737	0.714	0.687	0.725	0.737	0.75										0.693649	14.41	0.144	1
n-Propylbenzene	16.2	15.85	14.78	13.96	13.35	15.13	14.98	14.48	14.92	14.1	15.5										14.84125	5.67	0.057	1
4-ETHYLTOLUENE	12.46	12.55	11.54	11.48	10.81	12.34	12.44	11.87	12.32	11.59	12.8										12.01937	5.03	0.05	1
2-Chlorotoluene	3.029	2.925	2.716	2.736	2.501	2.771	2.67	2.547	2.697	2.614	2.851										2.732454	5.77	0.058	1
4-Chlorotoluene	9.201	9.646	8.788	9.02	8.505	9.216	9.266	8.838	9.099	8.981	9.498										9.096287	3.56	0.036	1
1,3,5-Trimethylbenzene	8.21	10.14	9.639999	9.48	9.34	10.61	10.53	10.06	10.35	9.71	10.72										9.889649	7.37	0.074	1
tert-Butylbenzene	7.653	8.295	7.842	7.378	7.027	8.327	8.202	7.883	8.013	7.385	8.164										7.833656	5.46	0.055	1
1,2,4-Trimethylbenzene	9.67	9.73	9.76	9.41	8.94	10.4	10.35	9.91	10.19	9.57	10.42										9.850451	4.7	0.047	1
sec-Butylbenzene	12.01	13.26	12.53	11.71	10.84	13.2	13.21	12.55	12.8	11.6	12.94										12.4218	6.36	0.064	1
1,3-DICHLOROBENZENE	4.943	4.988	4.703	4.788	4.482	4.974	4.988	4.755	4.934	4.789	5.16										4.863952	3.77	0.038	1
p-Isopropyltoluene	9.04	10.58	10.19	9.24	8.48	10.71	10.64	10.21	10.46	9.440001	10.57										9.960381	7.75	0.078	1
DICYCLOPENTADIENE	11.49	12.93	12.8	12.08	11.79	13.63	13.38	12.81	13.1	12.37	13.5										12.71537	5.56	0.056	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.138	2.135	1.96	2.047	1.953	1.973	1.962	1.892	1.936	1.968	1.982										1.994945	3.95	0.039	1
1,2,3-TRIMETHYLBENZENE	4.682	4.653	4.118	4.117	4.164	4.279	4.239	4.053	4.124	4.163	4.133										4.247766	5.09	0.051	1
1,2-DICHLOROBENZENE	1.612	1.915	1.772	1.742	1.761	1.824	1.797	1.717	1.748	1.787	1.737										1.764726	4.2	0.042	1
n-Butylbenzene	4.016	4.335	4.19	3.625	3.512	4.178	4.209	3.969	3.945	3.622	3.797										3.945096	6.98	0.07	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260B	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SW846	Released On	: 11/16/2015 11:31:11 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane	0.098	0.162	0.154	0.118	0.122	0.127	0.13	0.122	0.125	0.138	0.127										0.129396	13.33	0.133	1
1,2,4-Trichlorobenzene			1.266	1.046	0.9	1.078	1.085	1.009	1.012	0.967	0.916										1.030736	10.64	0.106	1
HEXACHLORO-1,3-BUTADIENE	0.545	0.538	0.581	0.482	0.414	0.566	0.549	0.515	0.508	0.459	0.433										0.508243	10.8	0.108	1
Naphthalene			2.594	2.281	2.115	2.499	2.508	2.361	2.359	2.496	2.251										2.384858	6.41	0.064	1
1,2,3-Trichlorobenzene		1.236	1.067	0.809	0.778	0.953	0.96	0.891	0.886	0.883	0.782										0.924505	15.23	0.152	1
1-Methylnaphthalene			1.553	1.154	0.988	1.286	1.291	1.228	1.209	1.257	1.002										1.218741	13.83	0.138	1
2-Methylnaphthalene			1.253	0.959	0.812	1.089	1.075	1.005	0.989	1.042	0.796										1.002299	14.04	0.14	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.008	0.009	0.007	0.008	0.008	0.007	0.007	0.007	0.007	0.007582	10.36	0.104	1
Bromoethane												0.79	0.782	0.809	0.792	0.845	0.811	0.819	0.776	0.757	0.797891	3.27	0.033	1
2-PROPANOL																					0	0	0	1
Methyl Acetate												0.542	0.494	0.478	0.483	0.506	0.485	0.488	0.458	0.475	0.489738	4.82	0.048	1
ACETONITRILE												0.084	0.08	0.073	0.076	0.082	0.077	0.08	0.072	0.072	0.077414	5.66	0.057	1
ALLYL CHLORIDE												0.526	0.483	0.495	0.478	0.525	0.504	0.506	0.475	0.472	0.496064	4.16	0.042	1
tert-BUTYL ALCOHOL												0.151	0.155	0.13	0.145	0.155	0.139	0.142	0.133	0.145	0.143751	6.13	0.061	1
chloroprene												1.634	1.491	1.539	1.545	1.637	1.586	1.563	1.512	1.497	1.555979	3.49	0.035	1
ETHYL TERT-BUTYL ETHER												3.385	2.894	2.911	2.892	2.963	2.944	2.929	2.846	2.849	2.957027	5.58	0.056	1
PROPIONITRILE												0.101	0.095	0.091	0.092	0.098	0.094	0.094	0.088	0.091	0.093845	4.16	0.042	1
Ethyl Acetate												0.707	0.615	0.595	0.638	0.66	0.641	0.638	0.615	0.644	0.639446	5.01	0.05	1
METHACRYLONITRILE												0.317	0.297	0.284	0.295	0.305	0.295	0.295	0.281	0.294	0.296057	3.58	0.036	1
Cyclohexane												2.07	1.983	1.963	1.981	2.16	2.033	1.985	1.956	1.868	1.999786	4.08	0.041	1
tert-butyl formate												0.023	0.019	0.017	0.019	0.02	0.019	0.019	0.017	0.015	0.01889	12.26	0.123	1

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INITIAL CALIBRATION SUMMARY

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Method	: V820K13O	Review Protocol	: SW846	Released On	: 11/16/2015 11:31:11 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.255	0.236	0.228	0.237	0.248	0.238	0.238	0.225	0.234	0.237663	3.88	0.039	1
2-Amyl Alcohol												0.052	0.036	0.043	0.045	0.047	0.04	0.046	0.04	0.045	0.043797	10.73	0.107	1
TERT-AMYL METHYL ETHER												3.3	3.131	3.066	3.082	3.184	3.076	3.151	2.98	2.98	3.105507	3.25	0.032	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.009	0.009	0.009	0.009	0.01	0.009	0.009	0.008	0.009	0.009096	5.62	0.056	1
Methyl Cyclohexane												1.756	1.339	1.258	1.211	1.241	1.207	1.189	1.133	1.101	1.270618	15.33	0.153	1
2-nitropropane												0.092	0.088	0.09	0.096	0.095	0.092	0.094	0.087	0.091	0.09166	3.25	0.032	1
METHYL METHACRYLATE												0.381	0.357	0.337	0.36	0.354	0.351	0.355	0.339	0.363	0.354996	3.71	0.037	1
1,4-DIOXANE												0.004	0.004	0.003	0.004	0.004	0.003	0.004	0.003	0.003	0.003521	10.05	0.1	1
n-octane												0.735	0.589	0.503	0.511	0.51	0.496	0.486	0.477	0.455	0.529047	16.14	0.998	0
3,3-DIMETHYL-1-BUTANOL												0.019	0.018	0.016	0.018	0.024	0.021	0.022	0.02	0.022	0.020059	13.13	0.131	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.747	2.711	2.637	2.742	2.8	2.69	2.668	2.53	2.696	2.691251	2.86	0.029	1
CIS-1,4-DICHLORO-2-BUTENE												0.764	0.663	0.682	0.679	0.73	0.68	0.684	0.642	0.676	0.688968	5.3	0.053	1
Cyclohexanone												0.346	0.3	0.288	0.311	0.306	0.294	0.289	0.313	0.355	0.311234	7.75	0.077	1
PENTACHLOROETHANE												1.296	1.266	1.152	1.291	1.27	1.177	1.284	1.3	1.193	1.247728	4.6	0.046	1
Hexachloroethane												1.594	1.493	1.648	1.605	1.743	1.668	1.613	1.549	1.596	1.611887	4.41	0.044	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260C	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SW846	Released On	: 11/16/2015 11:32:00 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
8260-PENTAFLUOROBENZENE																									
TPH (GC/MS) LOW FRACTION																					0	0	0	1	
PROPENE				0.232	0.203	0.197	0.177	0.162	0.158	0.166	0.16										0.181832	14.59	0.146	1	
DICHLORODIFLUOROMETHANE	0.833	0.904	0.889	0.822	0.815	0.882	0.866	0.823	0.795	0.865	0.826										0.847204	4.18	0.042	1	0.1
CHLOROMETHANE	1.45	1.325	1.211	1.182	1.119	1.175	1.153	1.112	1.105	1.162	1.13										1.192978	8.81	0.088	1	0.1
VINYL CHLORIDE	0.934	1.42	1.335	1.342	1.258	1.285	1.287	1.212	1.2	1.282	1.23										1.253198	9.84	0.098	1	0.1
1,3-BUTADIENE	0.591	0.702	0.755	0.866	0.751	0.829	0.836	0.796	0.78	0.823	0.809										0.77623	9.9	0.099	1	
BROMOMETHANE	0.755	0.869	0.808	0.854	0.723	0.804	0.816	0.768	0.74	0.771	0.665										0.779251	7.6	0.076	1	0.1
CHLOROETHANE	0.9	1.012	0.873	0.867	0.795	0.814	0.827	0.789	0.775	0.808	0.749										0.837014	8.77	0.088	1	0.1
TRICHLOROFLUOROMETHANE	1.297	1.444	1.394	1.24	1.228	1.272	1.291	1.233	1.192	1.268	1.217										1.279693	5.99	0.06	1	0.1
DICHLOROFLUOROMETHANE	1.59	1.953	1.925	1.908	1.788	1.863	1.872	1.781	1.75	1.847	1.752										1.820838	5.68	0.057	1	
ETHYL ETHER	1.018	0.904	0.872	0.85	0.867	0.878	0.873	0.825	0.822	0.863	0.83										0.872901	6.22	0.062	1	
ACROLEIN	0.131	0.147	0.114	0.111	0.107	0.107	0.106	0.101	0.104	0.107	0.106										0.112881	12.26	0.123	1	
1,1-DICHLOROETHENE	1.471	1.498	1.52	1.56	1.401	1.451	1.474	1.415	1.382	1.452	1.398										1.456577	3.81	0.038	1	0.1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.889	0.854	0.838	0.825	0.785	0.78	0.812	0.778	0.765	0.817	0.791										0.812203	4.63	0.046	1	0.1
ACETONE				0.426	0.389	0.409	0.404	0.374	0.373	0.333	0.382										0.386331	7.31	0.073	1	0.1
IODOMETHANE	1.052	1.196	1.185	1.234	1.182	1.201	1.251	1.202	1.21	1.309	1.314										1.212507	5.81	0.058	1	
CARBON DISULFIDE	3.069	3.193	3.104	2.962	2.841	2.846	3.044	3.043	3.037	3.293	3.203										3.057672	4.61	0.046	1	0.1
METHYLENE CHLORIDE	1.122	1.063	1.026	1.065	0.962	0.967	0.993	0.952	0.946	1.001	0.968										1.005986	5.63	0.056	1	0.1
ACRYLONITRILE	0.254	0.251	0.243	0.219	0.224	0.25	0.254	0.246	0.244	0.253	0.255										0.244756	4.99	0.05	1	
n-Hexane				1.178	0.987	0.952	0.953	0.879	0.876	0.914	0.91										0.956128	10.18	0.102	1	
TRANS-1,2-DICHLOROETHENE	1.012	0.979	0.897	0.893	0.884	0.893	0.932	0.901	0.897	0.936	0.929										0.922974	4.38	0.044	1	0.1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260C	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SW846	Released On	: 11/16/2015 11:32:00 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
METHYL TERT-BUTYL ETHER	2.559	2.342	2.353	2.24	2.342	2.5	2.547	2.441	2.405	2.496	2.498										2.42937	4.17	0.042	1	0.1
1,1-DICHLOROETHANE	1.546	1.783	1.757	1.871	1.752	1.821	1.851	1.765	1.751	1.868	1.823										1.78075	5.08	0.051	1	0.2
VINYL ACETATE	1.444	1.497	1.5	1.58	1.566	1.665	1.628	1.646	1.529	1.636	1.491										1.562057	4.78	0.048	1	
DI-ISOPROPYL ETHER	3.008	3.274	3.208	3.242	3.247	3.407	3.472	3.356	3.349	3.525	3.507										3.326829	4.58	0.046	1	
2,2-Dichloropropane	1.396	1.35	1.349	1.353	1.267	1.35	1.357	1.308	1.269	1.339	1.267										1.327951	3.28	0.033	1	
CIS-1,2-DICHLOROETHENE	1.088	0.959	1.044	1.002	0.971	1.018	1.041	0.985	0.992	1.05	1.027										1.016214	3.79	0.038	1	0.1
2-BUTANONE (MEK)			0.525	0.407	0.395	0.425	0.433	0.413	0.413	0.399	0.427										0.426357	9.16	0.092	1	0.1
BROMOCHLOROMETHANE	0.382	0.518	0.49	0.499	0.497	0.528	0.519	0.511	0.502	0.53	0.52										0.499721	8.24	0.082	1	
TETRAHYDROFURAN		0.229	0.295	0.239	0.212	0.207	0.217	0.204	0.197	0.197	0.203										0.220043	13.42	0.134	1	
CHLOROFORM	1.499	1.572	1.605	1.665	1.631	1.661	1.705	1.615	1.61	1.694	1.666										1.629303	3.63	0.036	1	0.2
DIBROMOFLUOROMETHANE	0.536	0.538	0.556	0.556	0.571	0.564	0.6	0.591	0.592	0.611	0.604										0.574502	4.64	0.046	1	
1,1,1-TRICHLOROETHANE	1.097	1.281	1.225	1.218	1.226	1.24	1.298	1.224	1.204	1.294	1.271										1.23429	4.54	0.045	1	0.1
CARBON TETRACHLORIDE	0.811	0.992	0.963	0.934	0.928	0.926	0.998	0.934	0.933	1.002	0.996										0.947181	5.79	0.058	1	0.1
1,1-Dichloropropene	1.305	1.311	1.175	1.292	1.226	1.218	1.273	1.22	1.21	1.274	1.258										1.250995	3.52	0.035	1	
2,2,4-TRIMETHYLPENTANE	3.938	4.043	3.931	3.957	3.809	4.026	4.222	3.965	3.888	4.007	4.048										3.985006	2.66	0.027	1	
HEPTANE				2.173	1.795	1.77	1.798	1.673	1.653	1.732	1.743										1.792112	9.08	0.091	1	
BENZENE	3.884	4.098	4.052	4.164	4.085	4.045	4.193	3.989	3.969	4.17	4.125										4.070366	2.33	0.023	1	0.5
1,2-DICHLOROETHANE	1.089	1.244	1.178	1.326	1.235	1.27	1.288	1.23	1.215	1.265	1.228										1.233517	5.01	0.05	1	0.1
8260-1,4-DIFLUOROBENZENE																									
TRICHLOROETHENE	0.409	0.476	0.447	0.439	0.415	0.436	0.445	0.431	0.429	0.443	0.441										0.437113	4.03	0.04	1	0.2
1,2-DICHLOROPROPANE	0.329	0.358	0.37	0.389	0.359	0.381	0.388	0.376	0.377	0.386	0.389										0.372934	4.92	0.049	1	0.1
DIBROMOMETHANE	0.219	0.263	0.251	0.249	0.235	0.251	0.249	0.248	0.241	0.248	0.245										0.245344	4.54	0.045	1	

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INITIAL CALIBRATION SUMMARY

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Method	: V820K13O	Review Protocol	: SW846	Released On	: 11/16/2015 11:32:00 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
BROMODICHLOROMETHANE	0.579	0.681	0.618	0.611	0.595	0.644	0.654	0.636	0.641	0.667	0.668										0.635669	5.04	0.05	1	0.2
α,a,a-Trifluorotoluene	0.542	0.545	0.55	0.548	0.529	0.543	0.544	0.542	0.542	0.529	0.526										0.539892	1.49	0.015	1	
-CHLOROETHYL VINYL ETHER	0.128	0.16	0.157	0.16	0.153	0.172	0.187	0.183	0.191	0.192	0.212										0.172276	13.54	0.135	1	
CIS-1,3-DICHLOROPROPENE	0.656	0.766	0.752	0.797	0.761	0.807	0.833	0.816	0.827	0.853	0.854										0.792825	7.25	0.073	1	0.2
4-METHYL-2-PENTANONE (MIBK)	0.366	0.345	0.324	0.326	0.302	0.362	0.369	0.354	0.353	0.345	0.356										0.345743	5.96	0.06	1	0.1
TOLUENE-D8	1.31	1.304	1.307	1.32	1.311	1.328	1.339	1.33	1.32	1.317	1.308										1.317584	0.84	0.008	1	
TOLUENE	2.238	2.366	2.21	2.244	2.05	2.159	2.174	2.095	2.108	2.168	2.176										2.18076	3.92	0.039	1	0.4
TRANS-1,3-DICHLOROPROPENE	0.601	0.644	0.64	0.651	0.631	0.681	0.713	0.704	0.721	0.75	0.758										0.681295	7.58	0.076	1	0.1
8260-2-BROMO-1 -CHLOROPROPANE																									
1,1,2-TRICHLOROETHANE	2	1.906	2.104	1.999	1.94	2.045	2.001	1.888	1.94	2.041	2.017										1.989235	3.26	0.033	1	0.1
TETRACHLOROETHENE	1.649	1.81	1.695	1.743	1.702	1.724	1.716	1.625	1.68	1.793	1.789										1.720595	3.45	0.035	1	0.2
1,3-Dichloropropane	3.85	3.977	3.655	3.825	3.801	3.925	3.878	3.679	3.797	4.025	3.937										3.849919	3	0.03	1	
2-HEXANONE		1.326	1.019	0.897	0.822	0.961	0.948	0.893	0.928	0.936	0.955										0.968496	14.02	0.14	1	0.1
CHLORODIBROMOMETHANE	1.828	1.784	1.853	1.949	1.948	1.977	2.008	1.946	2.018	2.164	2.15										1.965915	6.1	0.061	1	0.1
1,2-DIBROMOETHANE	1.589	1.93	1.667	1.896	1.782	1.902	1.869	1.794	1.841	1.98	1.926										1.83408	6.48	0.065	1	0.1
CHLOROBENZENE	5.845	6.775	6.949	7.006	6.57	7.037	6.842	6.583	6.84	7.143	7.319										6.809828	5.73	0.057	1	0.5
1,1,1,2-TETRACHLOROETHANE	1.943	2.091	1.989	1.976	1.974	2.123	2.046	2.026	2.087	2.165	2.172										2.053689	3.87	0.039	1	
ETHYLBENZENE	3.743	3.58	3.888	3.995	3.719	3.945	3.888	3.743	3.92	4.017	4.174										3.873695	4.3	0.043	1	0.1
M&P-XYLENE	4.502	4.887	4.768	4.852	4.69	4.921	4.862	4.681	4.85	4.931	5.222										4.833299	3.76	0.038	1	0.1
O-XYLENE	4.254	4.398	4.295	4.715	4.548	4.85	4.745	4.509	4.661	4.637	4.843										4.586813	4.49	0.045	1	0.3
STYRENE	7.297	6.554	7.162	7.427	7.111	7.674	7.816	7.389	7.909	8.05	8.318										7.518771	6.63	0.066	1	0.3
Bromoform	1.032	1.016	0.816	0.96	0.935	1.009	1.024	1.01	1.077	1.121	1.135										1.012233	8.79	0.088	1	0.1

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INITIAL CALIBRATION SUMMARY

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Method	: V820K13O	Review Protocol	: SW846	Released On	: 11/16/2015 11:32:00 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
Isopropylbenzene	11.15	12.28	11.57	11.48	11.07	12.37	12.15	11.63	12.02	11.45	12.42										11.7812	4.13	0.041	1	0.1
4-BROMOFLUOROBENZENE	2.912	2.893	2.889	2.898	2.853	2.998	2.936	2.882	2.957	2.917	2.942										2.916	1.38	0.014	1	
Bromobenzene	5.725	5.751	5.466	5.944	5.398	5.951	5.773	5.607	5.744	5.83	6.037										5.747939	3.45	0.034	1	
1,1,2,2-TETRACHLOROETHANE	2.653	2.586	2.145	2.366	2.206	2.492	2.408	2.367	2.343	2.392	2.43										2.399037	6.12	0.061	1	0.3
1,2,3-TRICHLOROPROPANE	0.738	0.677	0.643	0.639	0.637	0.666	0.655	0.621	0.622	0.639	0.641										0.65263	5.07	0.051	1	
TRANS-1,4-DICHLORO-2-BUTENE	0.879	0.473	0.662	0.648	0.618	0.737	0.714	0.687	0.725	0.737	0.75										0.693649	14.41	0.144	1	
n-Propylbenzene	16.2	15.85	14.78	13.96	13.35	15.13	14.98	14.48	14.92	14.1	15.5										14.84125	5.67	0.057	1	
4-ETHYLTOLUENE	12.46	12.55	11.54	11.48	10.81	12.34	12.44	11.87	12.32	11.59	12.8										12.01937	5.03	0.05	1	
2-Chlorotoluene	3.029	2.925	2.716	2.736	2.501	2.771	2.67	2.547	2.697	2.614	2.851										2.732454	5.77	0.058	1	
4-Chlorotoluene	9.201	9.646	8.788	9.02	8.505	9.216	9.266	8.838	9.099	8.981	9.498										9.096287	3.56	0.036	1	
1,3,5-Trimethylbenzene	8.21	10.14	9.639999	9.48	9.34	10.61	10.53	10.06	10.35	9.71	10.72										9.889649	7.37	0.074	1	
tert-Butylbenzene	7.653	8.295	7.842	7.378	7.027	8.327	8.202	7.883	8.013	7.385	8.164										7.833656	5.46	0.055	1	
1,2,4-Trimethylbenzene	9.67	9.73	9.76	9.41	8.94	10.4	10.35	9.91	10.19	9.57	10.42										9.850451	4.7	0.047	1	
sec-Butylbenzene	12.01	13.26	12.53	11.71	10.84	13.2	13.21	12.55	12.8	11.6	12.94										12.4218	6.36	0.064	1	
1,3-DICHLOROBENZENE	4.943	4.988	4.703	4.788	4.482	4.974	4.988	4.755	4.934	4.789	5.16										4.863952	3.77	0.038	1	0.6
p-Isopropyltoluene	9.04	10.58	10.19	9.24	8.48	10.71	10.64	10.21	10.46	9.440001	10.57										9.960381	7.75	0.078	1	
DICYCLOPENTADIENE	11.49	12.93	12.8	12.08	11.79	13.63	13.38	12.81	13.1	12.37	13.5										12.71537	5.56	0.056	1	
8260-1,4-DICHLOROBENZENE-D4																									
1,4-DICHLOROBENZENE	2.138	2.135	1.96	2.047	1.953	1.973	1.962	1.892	1.936	1.968	1.982										1.994945	3.95	0.039	1	
1,2,3-TRIMETHYLBENZENE	4.682	4.653	4.118	4.117	4.164	4.279	4.239	4.053	4.124	4.163	4.133										4.247766	5.09	0.051	1	
1,2-DICHLOROBENZENE	1.612	1.915	1.772	1.742	1.761	1.824	1.797	1.717	1.748	1.787	1.737										1.764726	4.2	0.042	1	0.4
n-Butylbenzene	4.016	4.335	4.19	3.625	3.512	4.178	4.209	3.969	3.945	3.622	3.797										3.945096	6.98	0.07	1	

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260C	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SW846	Released On	: 11/16/2015 11:32:00 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
1,2-Dibromo-3-chloropropane	0.098	0.162	0.154	0.118	0.122	0.127	0.13	0.122	0.125	0.138	0.127										0.129396	13.33	0.133	1	0.05
1,2,4-Trichlorobenzene			1.266	1.046	0.9	1.078	1.085	1.009	1.012	0.967	0.916										1.030736	10.64	0.106	1	0.2
HEXACHLORO-1,3-BUTADIENE	0.545	0.538	0.581	0.482	0.414	0.566	0.549	0.515	0.508	0.459	0.433										0.508243	10.8	0.108	1	
Naphthalene			2.594	2.281	2.115	2.499	2.508	2.361	2.359	2.496	2.251										2.384858	6.41	0.064	1	
1,2,3-Trichlorobenzene		1.236	1.067	0.809	0.778	0.953	0.96	0.891	0.886	0.883	0.782										0.924505	15.23	0.152	1	
1-Methylnaphthalene			1.553	1.154	0.988	1.286	1.291	1.228	1.209	1.257	1.002										1.218741	13.83	0.138	1	
2-Methylnaphthalene			1.253	0.959	0.812	1.089	1.075	1.005	0.989	1.042	0.796										1.002299	14.04	0.14	1	
AP9-PENTAFLUOROBENZENE																									
ETHANOL												0.008	0.009	0.007	0.008	0.008	0.007	0.007	0.007	0.007	0.007582	10.36	0.104	1	
Bromoethane												0.79	0.782	0.809	0.792	0.845	0.811	0.819	0.776	0.757	0.797891	3.27	0.033	1	
2-PROPANOL																					0	0	0	1	
Methyl Acetate												0.542	0.494	0.478	0.483	0.506	0.485	0.488	0.458	0.475	0.489738	4.82	0.048	1	0.1
ACETONITRILE												0.084	0.08	0.073	0.076	0.082	0.077	0.08	0.072	0.072	0.077414	5.66	0.057	1	
ALLYL CHLORIDE												0.526	0.483	0.495	0.478	0.525	0.504	0.506	0.475	0.472	0.496064	4.16	0.042	1	
tert-BUTYL ALCOHOL												0.151	0.155	0.13	0.145	0.155	0.139	0.142	0.133	0.145	0.143751	6.13	0.061	1	
chloroprene												1.634	1.491	1.539	1.545	1.637	1.586	1.563	1.512	1.497	1.555979	3.49	0.035	1	
ETHYL TERT-BUTYL ETHER												3.385	2.894	2.911	2.892	2.963	2.944	2.929	2.846	2.849	2.957027	5.58	0.056	1	
PROPIONITRILE												0.101	0.095	0.091	0.092	0.098	0.094	0.094	0.088	0.091	0.093845	4.16	0.042	1	
Ethyl Acetate												0.707	0.615	0.595	0.638	0.66	0.641	0.638	0.615	0.644	0.639446	5.01	0.05	1	
METHACRYLONITRILE												0.317	0.297	0.284	0.295	0.305	0.295	0.295	0.281	0.294	0.296057	3.58	0.036	1	
Cyclohexane												2.07	1.983	1.963	1.981	2.16	2.033	1.985	1.956	1.868	1.999786	4.08	0.041	1	0.1
tert-butyl formate												0.023	0.019	0.017	0.019	0.02	0.019	0.019	0.017	0.015	0.01889	12.26	0.123	1	

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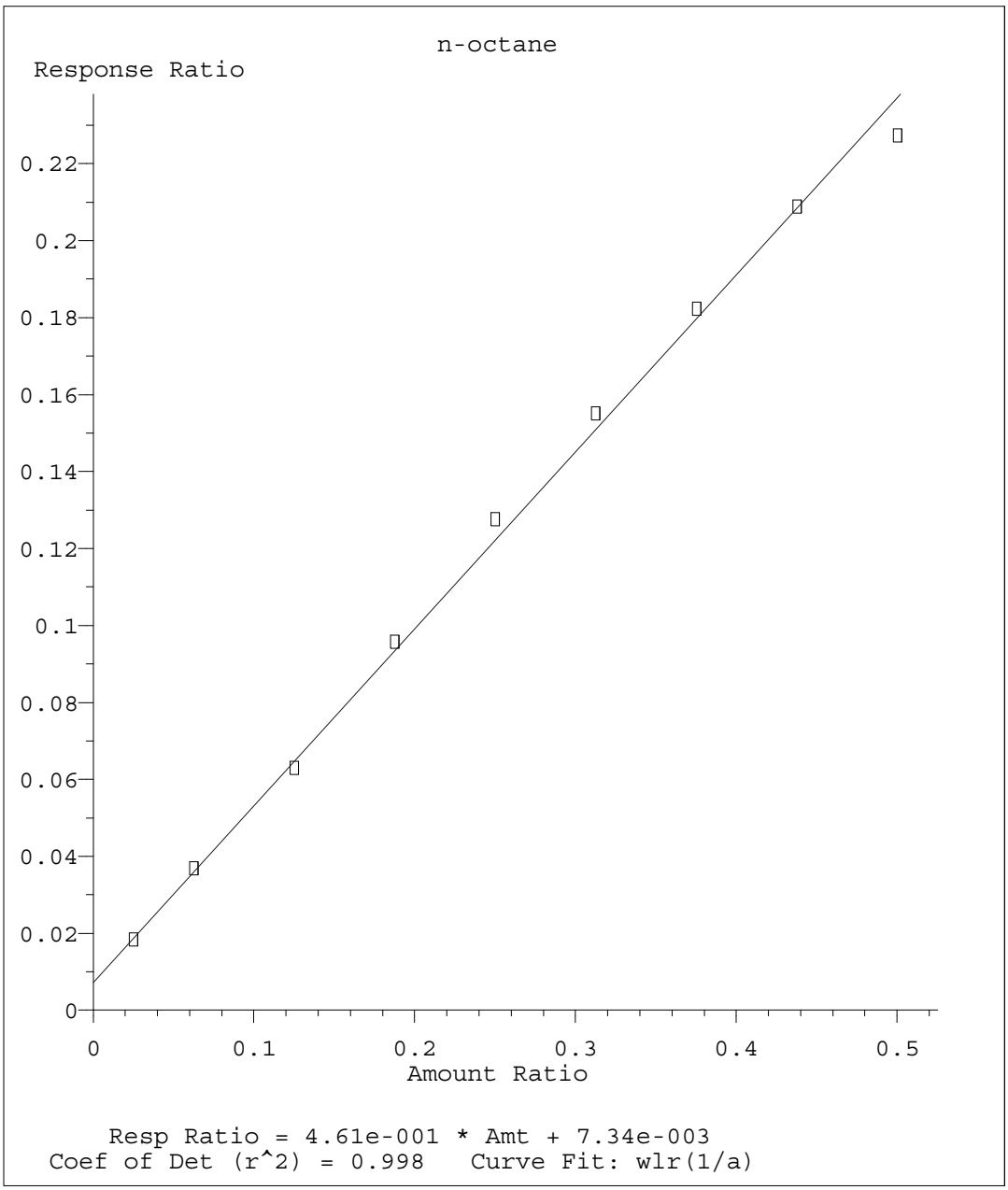
Instrument ID	: VOCMS20	Review Method	: 8260C	Released By	: Amy Green
Method	: V820K13O	Review Protocol	: SW846	Released On	: 11/16/2015 11:32:00 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K13O -- ICal Updated Time: Mon Nov 16 11:11:37 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
ISOBUTANOL												0.255	0.236	0.228	0.237	0.248	0.238	0.238	0.225	0.234	0.237663	3.88	0.039	1	
Amyl Alcohol												0.052	0.036	0.043	0.045	0.047	0.04	0.046	0.04	0.045	0.043797	10.73	0.107	1	
TERT-AMYL METHYL ETHER												3.3	3.131	3.066	3.082	3.184	3.076	3.151	2.98	2.98	3.105507	3.25	0.032	1	
AP9-1,4-DIFLUOROBENZENE																									
N-BUTANOL												0.009	0.009	0.009	0.009	0.01	0.009	0.009	0.008	0.009	0.009096	5.62	0.056	1	
Methyl Cyclohexane												1.756	1.339	1.258	1.211	1.241	1.207	1.189	1.133	1.101	1.270618	15.33	0.153	1	0.1
-nitropropane												0.092	0.088	0.09	0.096	0.095	0.092	0.094	0.087	0.091	0.09166	3.25	0.032	1	
METHYL METHACRYLATE												0.381	0.357	0.337	0.36	0.354	0.351	0.355	0.339	0.363	0.354996	3.71	0.037	1	
1,4-DIOXANE												0.004	0.004	0.003	0.004	0.004	0.003	0.004	0.003	0.003	0.003521	10.05	0.1	1	
n-octane												0.735	0.589	0.503	0.511	0.51	0.496	0.486	0.477	0.455	0.529047	16.14	0.998	0	
3,3-DIMETHYL-1-BUTANOL												0.019	0.018	0.016	0.018	0.024	0.021	0.022	0.02	0.022	0.020059	13.13	0.131	1	
AP9-2-BROMO-1 -CHLOROPROPANE																									
ETHYL METHACRYLATE												2.747	2.711	2.637	2.742	2.8	2.69	2.668	2.53	2.696	2.691251	2.86	0.029	1	
CIS-1,4-DICHLORO-2-BUTENE												0.764	0.663	0.682	0.679	0.73	0.68	0.684	0.642	0.676	0.688968	5.3	0.053	1	
Cyclohexanone												0.346	0.3	0.288	0.311	0.306	0.294	0.289	0.313	0.355	0.311234	7.75	0.077	1	
PENTACHLOROETHANE												1.296	1.266	1.152	1.291	1.27	1.177	1.284	1.3	1.193	1.247728	4.6	0.046	1	
Hexachloroethane												1.594	1.493	1.648	1.605	1.743	1.668	1.613	1.549	1.596	1.611887	4.41	0.044	1	
AP9-1,4-DICHLOROBENZENE-D4																									

PDF Generated On: 11/16/2015 - By: Amy Green



Method Name: C:\MSDchem\1\methods\V820K13O.M

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 03A.D
Acq On : 13 Nov 2015 2:39 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:53:43 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration

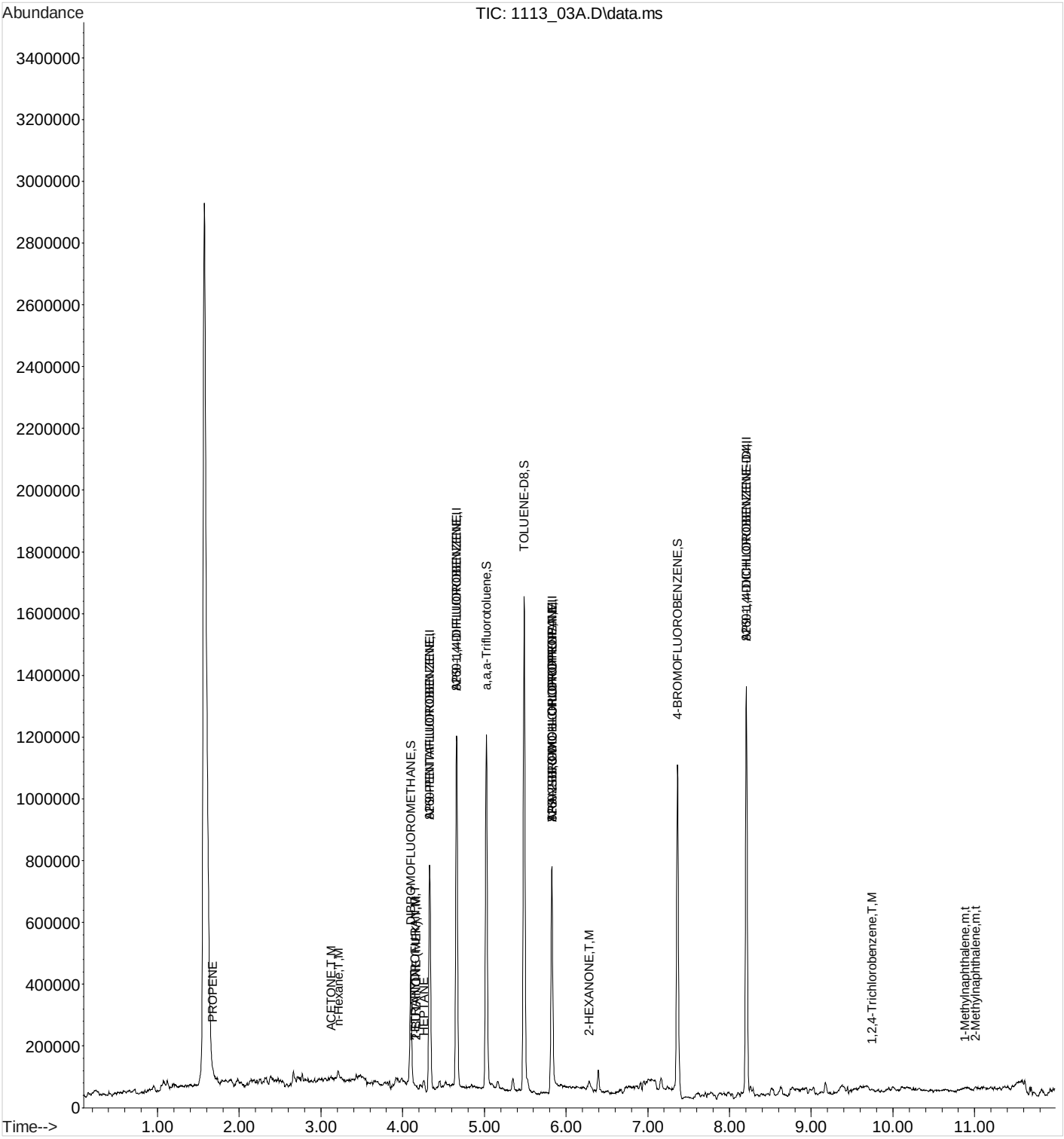
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.332	168	364423	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	708432	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	127047	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	291715	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.332	168	364423	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	708432	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	127047	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	291715	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.100	111	193736	37.0145835	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 92.54%			
46) a,a,a-Trifluorotoluene	5.026	146	375305	39.2499905	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 98.12%			
50) TOLUENE-D8	5.486	98	917110	39.3011247	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 98.25%			
68) 4-BROMOFLUOROBENZENE	7.364	95	354099	38.2325093	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 95.58%			
Target Compounds						Qvalue
3) PROPENE	1.673	41	2104	1.2700790	ppb	98
16) ACETONE	3.123	43	7216	2.0501755	ppb #	72
21) n-Hexane	3.213	56	4768	0.5473616	ppb #	79
29) 2-BUTANONE (MEK)	4.161	43	4853	1.2493707	ppb	91
31) TETRAHYDROFURAN	4.155	42	1087	0.5422203	ppb #	31
38) HEPTANE	4.258	43	8517	0.5216459	ppb #	76
52) TRANS-1,3-DICHLOROPROPENE	5.827	75	7401	0.6133626	ppb #	1
57) 2-HEXANONE	6.283	58	3794	1.2333753	ppb #	9
90) 1,2,4-Trichlorobenzene	9.740	180	2322	0.3088987	ppb #	73
94) 1-Methylnaphthalene	10.881	142	3267	0.3675692	ppb	91
95) 2-Methylnaphthalene	11.013	142	2716	0.3715640	ppb	90

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 03A.D
Acq On : 13 Nov 2015 2:39 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:53:43 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 03A.D
Acq On : 13 Nov 2015 2:39 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:53:43 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration

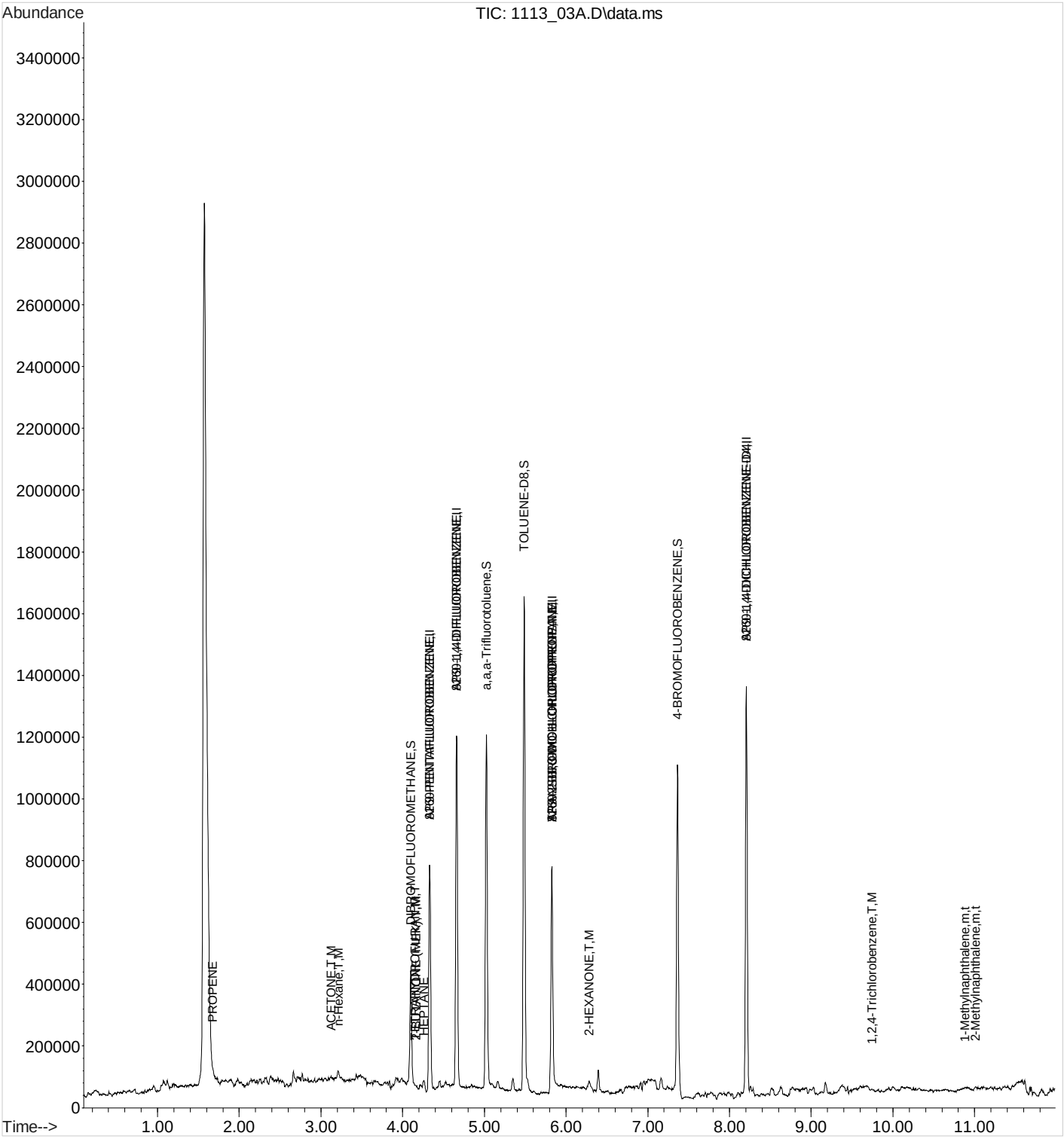
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.332	168	364423	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	708432	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	127047	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	291715	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.332	168	364423	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	708432	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	127047	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	291715	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.100	111	193736	37.0145835	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 92.54%				
46) a,a,a-Trifluorotoluene	5.026	146	375305	39.2499905	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 98.12%				
50) TOLUENE-D8	5.486	98	917110	39.3011247	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 98.25%				
68) 4-BROMOFLUOROBENZENE	7.364	95	354099	38.2325093	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 95.58%				
Target Compounds							Qvalue
3) PROPENE	1.673	41	2104	1.2700790	ppb		98
16) ACETONE	3.123	43	7216	2.0501755	ppb	#	72
21) n-Hexane	3.213	56	4768	0.5473616	ppb	#	79
29) 2-BUTANONE (MEK)	4.161	43	4853	1.2493707	ppb		91
31) TETRAHYDROFURAN	4.155	42	1087	0.5422203	ppb	#	31
38) HEPTANE	4.258	43	8517	0.5216459	ppb	#	76
52) TRANS-1,3-DICHLOROPROPENE	5.827	75	7401	0.6133626	ppb	#	1
57) 2-HEXANONE	6.283	58	3794	1.2333753	ppb	#	9
90) 1,2,4-Trichlorobenzene	9.740	180	2322	0.3088987	ppb	#	73
94) 1-Methylnaphthalene	10.881	142	3267	0.3675692	ppb		91
95) 2-Methylnaphthalene	11.013	142	2716	0.3715640	ppb		90

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 03A.D
Acq On : 13 Nov 2015 2:39 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:53:43 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 06AA.D
Acq On : 13 Nov 2015 3:36 pm
Operator : 522
Sample : RL VMS 1 ppb 15K13424
Misc : water 15J30547
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:03:08 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:02:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.328	168	350946	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	685957	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	123321	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	301066	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.328	168	350946	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	685957	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	123321	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	301066	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.097	111	200058	39.6902599	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.23%				
46) a,a,a-Trifluorotoluene	5.026	146	386443	41.7389892	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.35%				
50) TOLUENE-D8	5.486	98	919263	40.6840901	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.71%				
68) 4-BROMOFLUOROBENZENE	7.364	95	365160	40.6180133	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 101.55%				
Target Compounds					Qvalue		
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-5666100m	92.2762551	ppm		
3) PROPENE	1.669	41	3879	2.4314776	ppb	#	72
4) DICHLORODIFLUOROMETHANE	1.724	85	7800	1.0493640	ppb		94
5) CHLOROMETHANE	1.878	50	10623	1.0149262	ppb		100
6) VINYL CHLORIDE	1.949	62	11713	1.0652909	ppb		99
7) 1,3-BUTADIENE	1.965	39	6627	0.9730745	ppb		99
8) BROMOMETHANE	2.213	94	7091	1.0371700	ppb		99
9) CHLOROETHANE	2.306	64	7659	1.0429395	ppb		97
10) TRICHLOROFLUOROMETHANE	2.393	101	12231	1.0893711	ppb		94
11) DICHLOROFLUOROMETHANE	2.435	67	16888	1.0571257	ppb		92
12) ETHYL ETHER	2.589	59	7651	0.9990175	ppb		95
13) ACROLEIN	2.949	56	4989	5.0374787	ppb		89
14) 1,1-DICHLOROETHENE	2.734	61	13334	1.0433897	ppb		96
15) 1,1,2-TRICHLOROTRIFLUO...	2.756	101	7354	1.0319971	ppb		98
16) ACETONE	3.119	43	25450	7.5084065	ppb		98
17) IODOMETHANE	2.840	142	52002	4.8882728	ppb		99
18) CARBON DISULFIDE	2.772	76	27234	1.0151733	ppb	#	80
19) METHYLENE CHLORIDE	3.097	84	8998	1.0194684	ppb		99
20) ACRYLONITRILE	3.582	53	10647	4.9580733	ppb		97
21) n-Hexane	3.209	56	13435	1.6015527	ppb		83
22) TRANS-1,2-DICHLOROETHENE	3.187	96	7872	0.9721095	ppb		98
23) METHYL TERT-BUTYL ETHER	3.232	73	20641	0.9684046	ppb	#	6
24) 1,1-DICHLOROETHANE	3.547	63	15418	0.9868356	ppb		96
25) VINYL ACETATE	3.660	43	65820	4.8026471	ppb		100
26) DI-ISOPROPYL ETHER	3.428	45	28144	0.9642176	ppb		100
27) 2,2-Dichloropropane	3.914	77	11839	1.0161383	ppb		95
28) CIS-1,2-DICHLOROETHENE	3.849	96	9163	1.0277142	ppb		94
29) 2-BUTANONE (MEK)	4.158	43	23024	6.1549892	ppb		96
30) BROMOCHLOROMETHANE	3.968	130	4295	0.9796137	ppb		98
31) TETRAHYDROFURAN	4.090	42	2587	1.3400104	ppb	#	89
32) CHLOROFORM	3.991	83	14082	0.9851041	ppb		96
34) 1,1,1-TRICHLOROETHANE	4.123	97	10752	0.9928688	ppb		96
35) CARBON TETRACHLORIDE	4.084	119	8451	1.0169384	ppb		94

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 06AA.D
Acq On : 13 Nov 2015 3:36 pm
Operator : 522
Sample : RL VMS 1 ppb 15K13424
Misc : water 15J30547
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:03:08 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:02:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.187	75	10309	0.9392487 ppb		95
37) 2,2,4-TRIMETHYLPENTANE	4.219	57	34491	0.9864987 ppb		93
38) HEPTANE	4.258	43	22951	1.4596752 ppb		96
39) BENZENE	4.332	78	35552	0.9955206 ppb	#	80
40) 1,2-DICHLOROETHANE	4.451	62	10337	0.9551443 ppb		99
42) TRICHLOROETHENE	4.656	130	7659	1.0217424 ppb		96
43) 1,2-DICHLOROPROPANE	4.971	62	6344	0.9919615 ppb		99
44) DIBROMOMETHANE	4.923	93	4304	1.0229631 ppb		93
45) BROMODICHLOROMETHANE	4.997	83	10598	0.9722014 ppb	#	81
47) 2-CHLOROETHYL VINYL ETHER	5.309	63	13489	4.5658161 ppb		94
48) CIS-1,3-DICHLOROPROPENE	5.373	75	12902	0.9489484 ppb		95
49) 4-METHYL-2-PENTANONE (...	5.737	43	27751	4.6804516 ppb		99
51) TOLUENE	5.518	91	37905	1.0135652 ppb		96
52) TRANS-1,3-DICHLOROPROPENE	5.775	75	10978	0.9396181 ppb	#	93
54) 1,1,2-TRICHLOROETHANE	5.888	97	6486	1.0575817 ppb		97
55) TETRACHLOROETHENE	5.772	164	5225	0.9849875 ppb		90
56) 1,3-Dichloropropane	6.071	76	11269	0.9494164 ppb		91
57) 2-HEXANONE	6.280	58	15715	5.2630765 ppb		83
58) CHLORODIBROMOMETHANE	6.016	129	5713	0.9425892 ppb	#	95
59) 1,2-DIBROMOETHANE	6.190	107	5139	0.9088313 ppb		97
60) CHLOROBENZENE	6.524	112	21424	1.0204398 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.560	133	6133	0.9686374 ppb	#	99
62) ETHYLBENZENE	6.518	106	11986	1.0036257 ppb		97
63) M&P-XYLENE	6.611	106	29398	1.9728636 ppb		97
64) O-XYLENE	6.920	106	13243	0.9364794 ppb		96
65) STYRENE	6.958	104	22081	0.9525654 ppb		96
66) Bromoform	7.007	173	2515	0.8058987 ppb		91
67) Isopropylbenzene	7.132	105	35685	0.9824696 ppb		96
69) Bromobenzene	7.454	77	16851	0.9509035 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.495	83	6614	0.8942320 ppb		95
71) 1,2,3-TRICHLOROPROPANE	7.611	110	1982	0.9850534 ppb		97
72) TRANS-1,4-DICHLORO-2-B...	7.630	53	2042	0.9548584 ppb		95
73) n-Propylbenzene	7.438	91	45555	0.9956081 ppb		99
74) 4-ETHYLTOLUENE	7.511	105	35590	0.9604379 ppb		98
75) 2-Chlorotoluene	7.576	126	8375	0.9941568 ppb		93
76) 4-Chlorotoluene	7.698	91	27095	0.9661576 ppb		96
77) 1,3,5-Trimethylbenzene	7.573	105	29728	0.9750066 ppb		100
78) tert-Butylbenzene	7.817	119	24177	1.0010618 ppb		98
79) 1,2,4-Trimethylbenzene	7.872	105	30085	0.9906420 ppb		99
80) sec-Butylbenzene	7.952	105	38636	1.0088596 ppb		98
81) 1,3-DICHLOROBENZENE	8.151	146	14500	0.9669448 ppb		98
82) p-Isopropyltoluene	8.055	119	31428	1.0234435 ppb		97
83) DICYCLOPENTADIENE	8.061	66	39460	1.0065860 ppb		99
85) 1,4-DICHLOROBENZENE	8.219	146	14749	0.9822679 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.216	105	30995	0.9694588 ppb		94
87) 1,2-DICHLOROBENZENE	8.553	146	13338	1.0041803 ppb		99
88) n-Butylbenzene	8.386	91	31534	1.0619885 ppb		97
89) 1,2-Dibromo-3-chloropr...	9.200	157	1156	1.1869540 ppb		95
90) 1,2,4-Trichlorobenzene	9.740	180	9531	1.2285402 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.695	225	4371	1.1426362 ppb		90
92) Naphthalene	10.016	128	19522	1.0875769 ppb	#	94
93) 1,2,3-Trichlorobenzene	10.167	180	8029	1.1538534 ppb		98
94) 1-Methylnaphthalene	10.881	142	11688	1.2741695 ppb		97
95) 2-Methylnaphthalene	11.013	142	9434	1.2505376 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 06AA.D
Acq On : 13 Nov 2015 3:36 pm
Operator : 522
Sample : RL VMS 1 ppb 15K13424
Misc : water 15J30547
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:03:08 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:02:40 2015
Response via : Initial Calibration

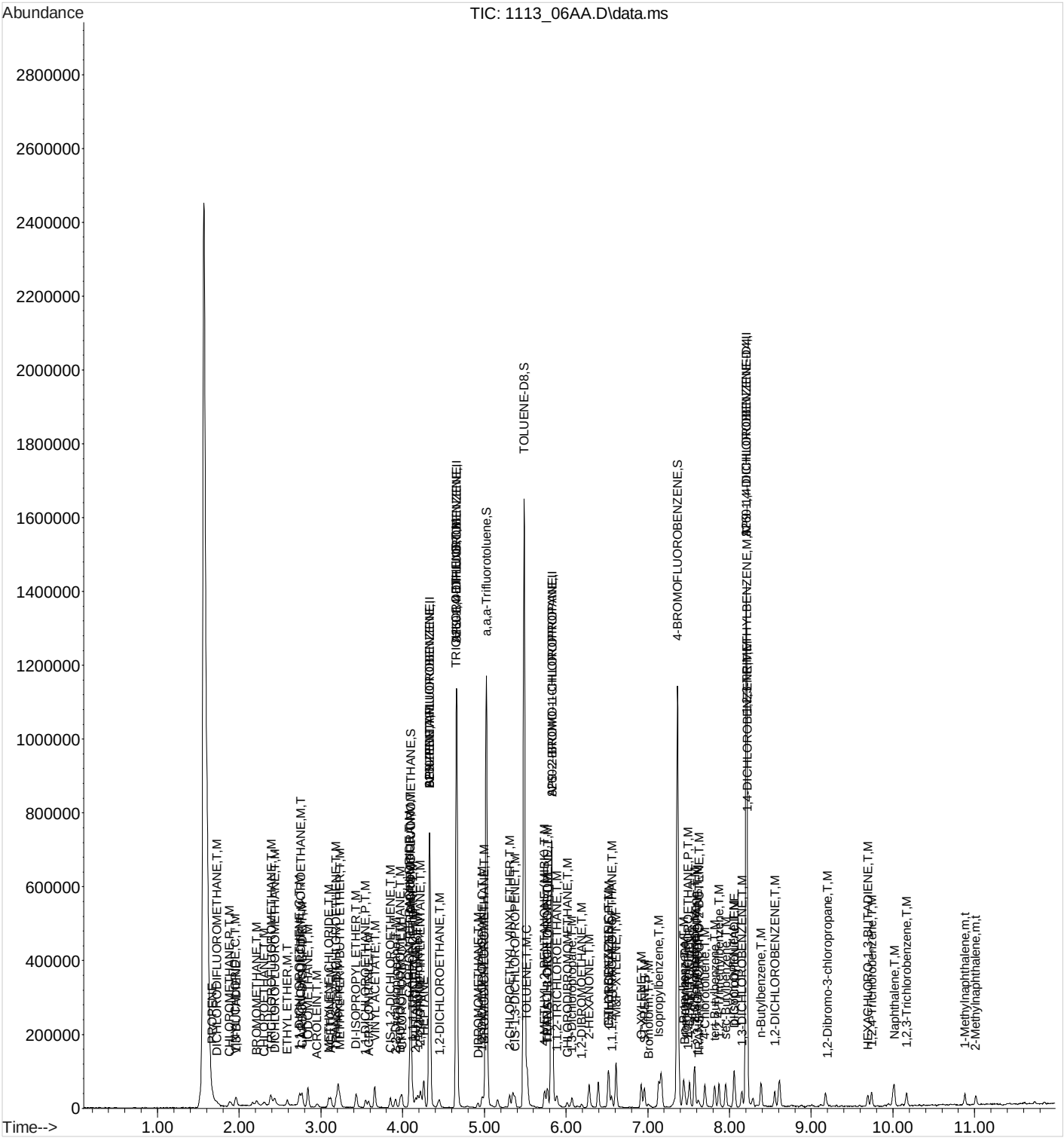
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 06AA.D
Acq On : 13 Nov 2015 3:36 pm
Operator : 522
Sample : RL VMS 1 ppb 15K13424
Misc : water 15J30547
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:03:08 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:02:40 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 07AA.D
Acq On : 13 Nov 2015 3:55 pm
Operator : 522
Sample : RL VMS 2 ppb 15K13424
Misc : water 15J30547
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:03:19 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:02:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.328	168	349964	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	680496	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.823	79	122083	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	289652	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.328	168	349964	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	680496	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.823	79	122083	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	289652	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.100	111	204475	40.6803951	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 101.70%				
46) a,a,a-Trifluorotoluene	5.026	146	391661	42.6420551	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.61%				
50) TOLUENE-D8	5.486	98	942817	42.0613829	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.15%				
68) 4-BROMOFLUOROBENZENE	7.364	95	371540	41.7467721	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.37%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-5392605m	88.0686303	ppm		
3) PROPENE	1.669	41	4062	2.5533323	ppb	#	72
4) DICHLORODIFLUOROMETHANE	1.730	85	14384	1.9405648	ppb		97
5) CHLOROMETHANE	1.878	50	20681	1.9814163	ppb		97
6) VINYL CHLORIDE	1.952	62	23476	2.1411204	ppb		100
7) 1,3-BUTADIENE	1.965	39	15151	2.2309373	ppb		93
8) BROMOMETHANE	2.216	94	14951	2.1929546	ppb		96
9) CHLOROETHANE	2.303	64	15169	2.0713854	ppb		98
10) TRICHLOROFLUOROMETHANE	2.396	101	21705	1.9386106	ppb	#	97
11) DICHLOROFLUOROMETHANE	2.435	67	33384	2.0955773	ppb		99
12) ETHYL ETHER	2.589	59	14875	1.9477302	ppb		99
13) ACROLEIN	2.949	56	9691	9.8126259	ppb		88
14) 1,1-DICHLOROETHENE	2.737	61	27290	2.1414433	ppb		95
15) 1,1,2-TRICHLOROTRIFLUO...	2.756	101	14443	2.0324937	ppb		97
16) ACETONE	3.119	43	37299	11.0350448	ppb		96
17) IODOMETHANE	2.843	142	107997	10.1803804	ppb		100
18) CARBON DISULFIDE	2.772	76	51835	1.9376208	ppb	#	89
19) METHYLENE CHLORIDE	3.097	84	18629	2.1165779	ppb		97
20) ACRYLONITRILE	3.582	53	19171	8.9525629	ppb		93
21) n-Hexane	3.213	56	20609	2.4636409	ppb		94
22) TRANS-1,2-DICHLOROETHENE	3.190	96	15634	1.9360526	ppb		94
23) METHYL TERT-BUTYL ETHER	3.235	73	39195	1.8440542	ppb	#	6
24) 1,1-DICHLOROETHANE	3.547	63	32740	2.1014177	ppb		99
25) VINYL ACETATE	3.660	43	138249	10.1158346	ppb		99
26) DI-ISOPROPYL ETHER	3.434	45	56733	1.9491349	ppb		97
27) 2,2-Dichloropropane	3.914	77	23680	2.0381513	ppb		98
28) CIS-1,2-DICHLOROETHENE	3.853	96	17537	1.9724540	ppb		95
29) 2-BUTANONE (MEK)	4.161	43	35607	9.5455032	ppb		98
30) BROMOCHLOROMETHANE	3.971	130	8731	1.9969748	ppb		96
31) TETRAHYDROFURAN	4.094	42	4177	2.1696672	ppb	#	92
32) CHLOROFORM	3.994	83	29137	2.0439937	ppb		98
34) 1,1,1-TRICHLOROETHANE	4.126	97	21309	1.9732522	ppb		95
35) CARBON TETRACHLORIDE	4.084	119	16352	1.9732148	ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 07AA.D
Acq On : 13 Nov 2015 3:55 pm
Operator : 522
Sample : RL VMS 2 ppb 15K13424
Misc : water 15J30547
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:03:19 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:02:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.184	75	22611	2.0658594 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.219	57	69233	1.9857328 ppb		100
38) HEPTANE	4.258	43	38025	2.4251620 ppb		98
39) BENZENE	4.332	78	72857	2.0458530 ppb	#	88
40) 1,2-DICHLOROETHANE	4.451	62	23205	2.1501708 ppb		99
42) TRICHLOROETHENE	4.656	130	14922	2.0066319 ppb		94
43) 1,2-DICHLOROPROPANE	4.975	62	13224	2.0843268 ppb		98
44) DIBROMOMETHANE	4.923	93	8472	2.0297614 ppb		97
45) BROMODICHLOROMETHANE	4.997	83	20781	1.9216314 ppb		92
47) 2-CHLOROETHYL VINYL ETHER	5.309	63	27178	9.2731539 ppb	#	99
48) CIS-1,3-DICHLOROPROPENE	5.373	75	27105	2.0095845 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.737	43	55475	9.4314344 ppb		88
51) TOLUENE	5.521	91	76360	2.0582230 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.775	75	22144	1.9105374 ppb	#	99
54) 1,1,2-TRICHLOROETHANE	5.888	97	12202	2.0097861 ppb		97
55) TETRACHLOROETHENE	5.769	164	10641	2.0263231 ppb		97
56) 1,3-Dichloropropane	6.071	76	23349	1.9871080 ppb		94
57) 2-HEXANONE	6.280	58	27371	9.2597190 ppb		97
58) CHLORODIBROMOMETHANE	6.013	129	11896	1.9826270 ppb		96
59) 1,2-DIBROMOETHANE	6.190	107	11571	2.0670804 ppb		98
60) CHLOROBENZENE	6.524	112	42766	2.0576301 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.557	133	12062	1.9243738 ppb	#	97
62) ETHYLBENZENE	6.515	106	24388	2.0627925 ppb		94
63) M&P-XYLENE	6.611	106	59237	4.0156346 ppb		100
64) O-XYLENE	6.920	106	28781	2.0558887 ppb		98
65) STYRENE	6.958	104	45334	1.9755224 ppb		98
66) Bromoform	7.007	173	5858	1.8961543 ppb		97
67) Isopropylbenzene	7.132	105	70105	1.9496841 ppb		99
69) Bromobenzene	7.454	77	36285	2.0683296 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.495	83	14444	1.9726741 ppb		94
71) 1,2,3-TRICHLOROPROPANE	7.614	110	3899	1.9574524 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.630	53	3956	1.8686217 ppb		95
73) n-Propylbenzene	7.434	91	85226	1.8815090 ppb		99
74) 4-ETHYLTOLUENE	7.512	105	70062	1.9098782 ppb		97
75) 2-Chlorotoluene	7.576	126	16700	2.0024810 ppb		91
76) 4-Chlorotoluene	7.698	91	55059	1.9832113 ppb		97
77) 1,3,5-Trimethylbenzene	7.569	105	57870	1.9172431 ppb		98
78) tert-Butylbenzene	7.820	119	45039	1.8837752 ppb		99
79) 1,2,4-Trimethylbenzene	7.872	105	57447	1.9108030 ppb		98
80) sec-Butylbenzene	7.952	105	71473	1.8852218 ppb		100
81) 1,3-DICHLOROBENZENE	8.151	146	29224	1.9685897 ppb		100
82) p-Isopropyltoluene	8.055	119	56411	1.8556360 ppb		98
83) DICYCLOPENTADIENE	8.061	66	73710	1.8993371 ppb		99
85) 1,4-DICHLOROBENZENE	8.219	146	29645	2.0521259 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.216	105	59631	1.9386303 ppb		99
87) 1,2-DICHLOROBENZENE	8.553	146	25226	1.9740338 ppb		97
88) n-Butylbenzene	8.386	91	52498	1.8376749 ppb		98
89) 1,2-Dibromo-3-chloropr...	9.193	157	1707	1.8217751 ppb	#	82
90) 1,2,4-Trichlorobenzene	9.740	180	15144	2.0289750 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.695	225	6983	1.8973803 ppb		97
92) Naphthalene	10.013	128	33030	1.9126232 ppb		95
93) 1,2,3-Trichlorobenzene	10.167	180	11721	1.7508100 ppb		98
94) 1-Methylnaphthalene	10.881	142	16708	1.8932007 ppb		96
95) 2-Methylnaphthalene	11.016	142	13887	1.9133504 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 07AA.D
Acq On : 13 Nov 2015 3:55 pm
Operator : 522
Sample : RL VMS 2 ppb 15K13424
Misc : water 15J30547
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:03:19 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:02:40 2015
Response via : Initial Calibration

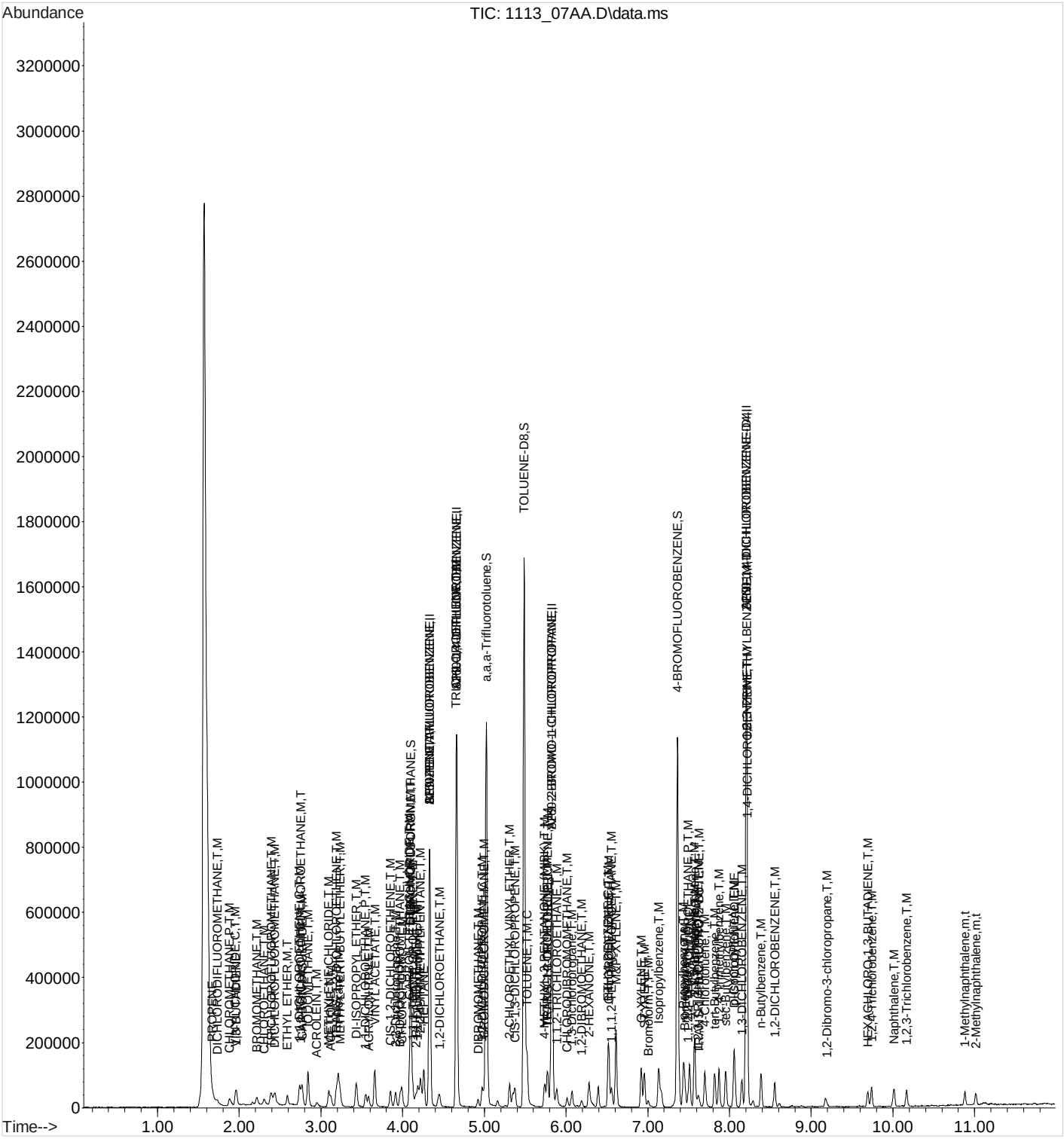
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 07AA.D
Acq On : 13 Nov 2015 3:55 pm
Operator : 522
Sample : RL VMS 2 ppb 15K13424
Misc : water 15J30547
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:03:19 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:02:40 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 08AA.D
Acq On : 13 Nov 2015 4:14 pm
Operator : 522
Sample : RL VMS 5.0 ppb 15K13424
Misc : water 15J30547
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:03:29 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:02:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.332	168	356949	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	704671	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	124564	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	286799	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.332	168	356949	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	704671	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	124564	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	286799	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.097	111	218987	42.7150069	ppb		0.00
Spiked Amount 40.000	Range 79 - 121			Recovery = 106.79%			
46) a,a,a-Trifluorotoluene	5.023	146	400886	42.1490573	ppb		0.00
Spiked Amount 40.000	Range 90 - 116			Recovery = 105.37%			
50) TOLUENE-D8	5.486	98	993084	42.7839921	ppb		0.00
Spiked Amount 40.000	Range 90 - 115			Recovery = 106.96%			
68) 4-BROMOFLUOROBENZENE	7.364	95	382065	42.0743316	ppb		0.00
Spiked Amount 40.000	Range 80 - 120			Recovery = 105.19%			
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-5487255m	87.8607742	ppm		
3) PROPENE	1.669	41	9048	5.5761854	ppb		91
4) DICHLORODIFLUOROMETHANE	1.730	85	36343	4.8071364	ppb		99
5) CHLOROMETHANE	1.881	50	49909	4.6881368	ppb		98
6) VINYL CHLORIDE	1.952	62	56144	5.0203909	ppb		99
7) 1,3-BUTADIENE	1.965	39	33528	4.8402847	ppb		94
8) BROMOMETHANE	2.216	94	32247	4.6373077	ppb		96
9) CHLOROETHANE	2.306	64	35460	4.7474445	ppb		99
10) TRICHLOROFLUOROMETHANE	2.396	101	54800	4.7987548	ppb		98
11) DICHLOROFLUOROMETHANE	2.438	67	79784	4.9101903	ppb		99
12) ETHYL ETHER	2.589	59	38701	4.9683390	ppb		94
13) ACROLEIN	2.949	56	23924	23.7502203	ppb		93
14) 1,1-DICHLOROETHENE	2.737	61	62530	4.8107043	ppb		98
15) 1,1,2-TRICHLOROTRIFLUO...	2.756	101	35008	4.8301019	ppb		98
16) ACETONE	3.119	43	86714	25.1526261	ppb		97
17) IODOMETHANE	2.840	142	263690	24.3704291	ppb		99
18) CARBON DISULFIDE	2.772	76	126743	4.6450123	ppb		98
19) METHYLENE CHLORIDE	3.097	84	42925	4.7815888	ppb		99
20) ACRYLONITRILE	3.582	53	50015	22.8991883	ppb		99
21) n-Hexane	3.213	56	44036	5.1611390	ppb		94
22) TRANS-1,2-DICHLOROETHENE	3.187	96	39448	4.7894895	ppb		99
23) METHYL TERT-BUTYL ETHER	3.232	73	104491	4.8199120	ppb		89
24) 1,1-DICHLOROETHANE	3.547	63	78185	4.9201047	ppb		100
25) VINYL ACETATE	3.660	43	349339	25.0613230	ppb		99
26) DI-ISOPROPYL ETHER	3.431	45	144891	4.8805049	ppb		99
27) 2,2-Dichloropropane	3.914	77	56530	4.7703572	ppb		99
28) CIS-1,2-DICHLOROETHENE	3.852	96	43324	4.7774631	ppb		97
29) 2-BUTANONE (MEK)	4.161	43	88116	23.1598328	ppb		99
30) BROMOCHLOROMETHANE	3.971	130	22186	4.9751344	ppb		99
31) TETRAHYDROFURAN	4.094	42	9447	4.8110489	ppb	#	87
32) CHLOROFORM	3.991	83	72782	5.0058278	ppb		98
34) 1,1,1-TRICHLOROETHANE	4.123	97	54688	4.9651088	ppb		98
35) CARBON TETRACHLORIDE	4.084	119	41428	4.9013380	ppb		94

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 08AA.D
Acq On : 13 Nov 2015 4:14 pm
Operator : 522
Sample : RL VMS 5.0 ppb 15K13424
Misc : water 15J30547
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:03:29 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:02:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.187	75	54699	4.8997912 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.219	57	169946	4.7789866 ppb		100
38) HEPTANE	4.258	43	80105	5.0089692 ppb		99
39) BENZENE	4.332	78	182254	5.0176160 ppb		99
40) 1,2-DICHLOROETHANE	4.450	62	55113	5.0068275 ppb		98
42) TRICHLOROETHENE	4.656	130	36554	4.7469512 ppb		98
43) 1,2-DICHLOROPROPANE	4.971	62	31605	4.8105855 ppb		99
44) DIBROMOMETHANE	4.920	93	20736	4.7975908 ppb		98
45) BROMODICHLOROMETHANE	4.997	83	52391	4.6784233 ppb		96
47) 2-CHLOROETHYL VINYL ETHER	5.309	63	67513	22.2452125 ppb		98
48) CIS-1,3-DICHLOROPROPENE	5.373	75	67001	4.7970841 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.737	43	133050	21.8441170 ppb		97
51) TOLUENE	5.518	91	180573	4.7002235 ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.775	75	55539	4.6273963 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.885	97	30211	4.8769305 ppb		98
55) TETRACHLOROETHENE	5.772	164	26502	4.9461531 ppb		98
56) 1,3-Dichloropropane	6.074	76	59190	4.9370118 ppb		99
57) 2-HEXANONE	6.277	58	64000	21.2202142 ppb		95
58) CHLORODIBROMOMETHANE	6.013	129	30332	4.9545449 ppb		98
59) 1,2-DIBROMOETHANE	6.190	107	27754	4.8593112 ppb		99
60) CHLOROBENZENE	6.524	112	102302	4.8240906 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.560	133	30739	4.8064287 ppb	#	97
62) ETHYLBENZENE	6.515	106	57906	4.8002690 ppb		100
63) M&P-XYLENE	6.611	106	146050	9.7034314 ppb		97
64) O-XYLENE	6.920	106	70822	4.9582058 ppb		99
65) STYRENE	6.958	104	110724	4.7289240 ppb		98
66) Bromoform	7.003	173	14553	4.6167832 ppb		98
67) Isopropylbenzene	7.132	105	172329	4.6971700 ppb		99
69) Bromobenzene	7.454	77	84054	4.6958439 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.495	83	34356	4.5986790 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.614	110	9921	4.8815312 ppb		91
72) TRANS-1,4-DICHLORO-2-B...	7.630	53	9620	4.4535139 ppb		95
73) n-Propylbenzene	7.434	91	207895	4.4982220 ppb		99
74) 4-ETHYLTOLUENE	7.511	105	168287	4.4961040 ppb		100
75) 2-Chlorotoluene	7.576	126	38940	4.5762582 ppb		98
76) 4-Chlorotoluene	7.698	91	132421	4.6747692 ppb		98
77) 1,3,5-Trimethylbenzene	7.569	105	145366	4.7200782 ppb		99
78) tert-Butylbenzene	7.820	119	109421	4.4854255 ppb		99
79) 1,2,4-Trimethylbenzene	7.872	105	139235	4.5389942 ppb		99
80) sec-Butylbenzene	7.952	105	168724	4.3617417 ppb		99
81) 1,3-DICHLOROBENZENE	8.151	146	69783	4.6071020 ppb		99
82) p-Isopropyltoluene	8.052	119	132058	4.2575166 ppb		99
83) DICYCLOPENTADIENE	8.065	66	183559	4.6356857 ppb		99
85) 1,4-DICHLOROBENZENE	8.219	146	70004	4.8941166 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.216	105	149274	4.9012400 ppb		99
87) 1,2-DICHLOROBENZENE	8.553	146	63138	4.9899467 ppb		99
88) n-Butylbenzene	8.386	91	125895	4.4507511 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.196	157	4382	4.7231584 ppb		97
90) 1,2,4-Trichlorobenzene	9.736	180	32250	4.3637986 ppb		96
91) HEXACHLORO-1,3-BUTADIENE	9.691	225	14855	4.0764666 ppb		98
92) Naphthalene	10.016	128	75838	4.4351327 ppb		99
93) 1,2,3-Trichlorobenzene	10.167	180	27886	4.2068738 ppb		98
94) 1-Methylnaphthalene	10.881	142	35427	4.0542028 ppb		94
95) 2-Methylnaphthalene	11.013	142	29102	4.0495598 ppb		93

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 08AA.D
Acq On : 13 Nov 2015 4:14 pm
Operator : 522
Sample : RL VMS 5.0 ppb 15K13424
Misc : water 15J30547
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:03:29 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:02:40 2015
Response via : Initial Calibration

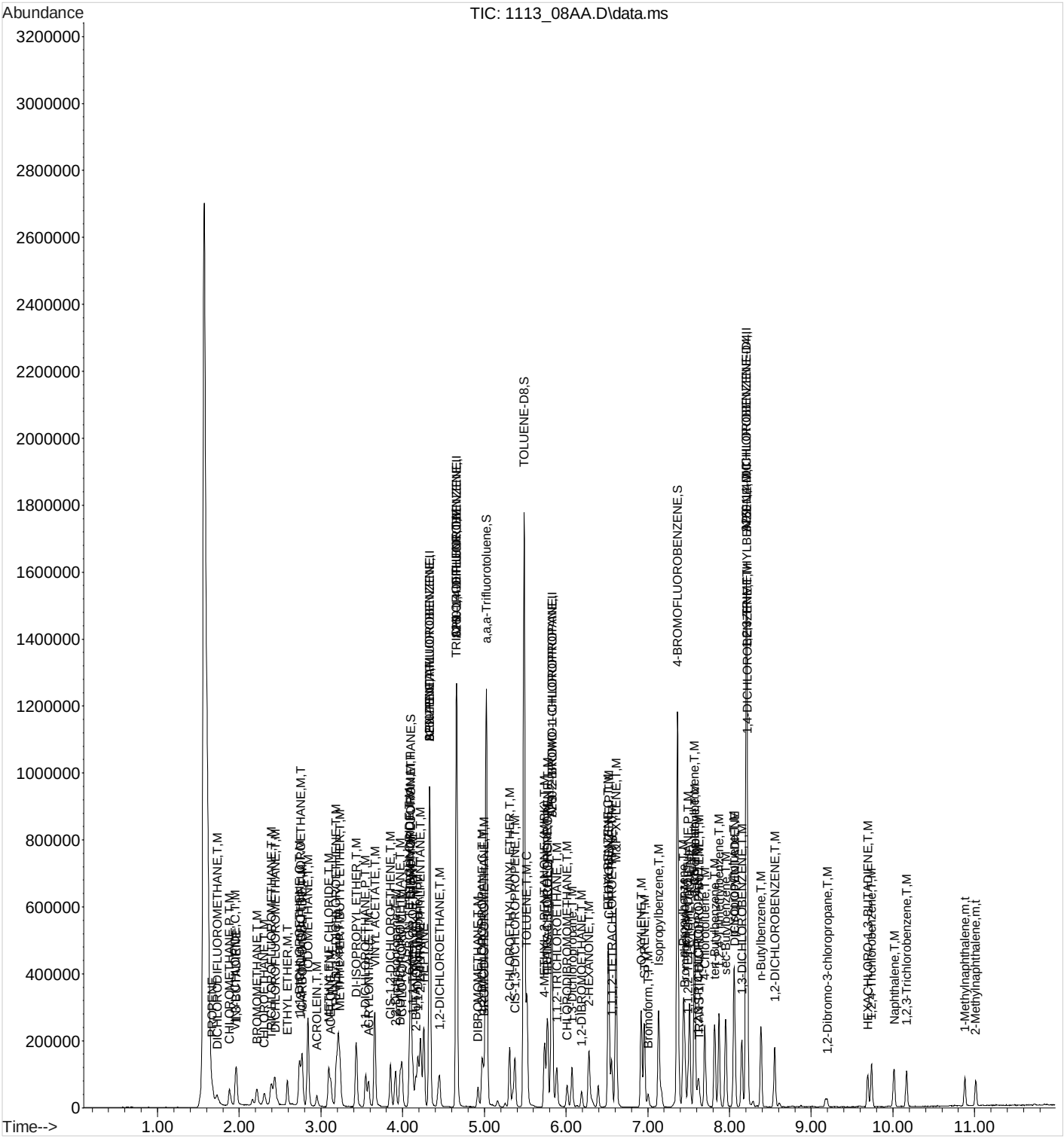
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 08AA.D
Acq On : 13 Nov 2015 4:14 pm
Operator : 522
Sample : RL VMS 5.0 ppb 15K13424
Misc : water 15J30547
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:03:29 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:02:40 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 19AA.D
Acq On : 13 Nov 2015 7:44 pm
Operator : 522
Sample : RL AP9 1a ppb 15H20824
Misc : water 15J30547
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:12:58 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.332	168	332636	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	645384	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	113108	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	278814	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.332	168	332636	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	645384	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	113108	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	278814	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.097	111	178985	37.4641345	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 93.66%			
46) a,a,a-Trifluorotoluene	5.023	146	353323	40.5608540	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.40%			
50) TOLUENE-D8	5.486	98	836235	39.3361513	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 98.34%			
68) 4-BROMOFLUOROBENZENE	7.364	95	334232	40.5347241	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 101.34%			
Target Compounds						Qvalue
3) PROPENE	1.663	41	1067	0.7056445	ppb #	38
16) ACETONE	3.119	43	6398	1.9914769	ppb	100
18) CARBON DISULFIDE	2.772	76	1089	0.0428280	ppb #	70
19) METHYLENE CHLORIDE	3.094	84	1925	0.2301069	ppb	94
20) ACRYLONITRILE	3.528	53	67960	33.3895146	ppb #	51
21) n-Hexane	3.210	56	3607	0.4536498	ppb #	1
24) 1,1-DICHLOROETHANE	3.525	63	1212	0.0818447	ppb #	44
25) VINYL ACETATE	3.637	43	2463	0.1896087	ppb #	74
29) 2-BUTANONE (MEK)	4.158	43	4279	1.2068682	ppb	95
31) TETRAHYDROFURAN	4.033	42	3632	1.9848542	ppb #	54
32) CHLOROFORM	3.968	83	1424	0.1050991	ppb #	55
38) HEPTANE	4.258	43	6111	0.4100511	ppb #	69
39) BENZENE	4.328	78	1442	0.0426013	ppb #	60
40) 1,2-DICHLOROETHANE	4.351	62	3999	0.3898494	ppb #	76
42) TRICHLOROETHENE	4.656	130	780	0.1105968	ppb #	51
43) 1,2-DICHLOROPROPANE	5.023	62	8200	1.3627751	ppb #	61
44) DIBROMOMETHANE	5.020	93	1867	0.4716401	ppb #	1
45) BROMODICHLOROMETHANE	5.010	83	584	0.0569408	ppb #	1
49) 4-METHYL-2-PENTANONE (...	5.737	43	1853	0.3321722	ppb #	81
51) TOLUENE	5.518	91	2104	0.0597970	ppb	87
52) TRANS-1,3-DICHLOROPROPENE	5.824	75	5313	0.4833332	ppb #	1
55) TETRACHLOROETHENE	5.769	164	2385	0.4902036	ppb	95
56) 1,3-Dichloropropane	6.074	76	764	0.0701792	ppb #	43
57) 2-HEXANONE	6.277	58	3698	1.3503176	ppb #	62
60) CHLOROBENZENE	6.524	112	1658	0.0861024	ppb #	75
62) ETHYLBENZENE	6.508	106	724	0.0660967	ppb	92
63) M&P-XYLENE	6.611	106	1752	0.1281909	ppb	96
64) O-XYLENE	6.923	106	864	0.0666146	ppb #	69
65) STYRENE	6.959	104	2729	0.1283581	ppb	92
67) Isopropylbenzene	7.132	105	1545	0.0463773	ppb #	72
69) Bromobenzene	7.451	77	2086	0.1283420	ppb #	89
72) TRANS-1,4-DICHLORO-2-B...	7.631	53	523	0.2666421	ppb #	26
73) n-Propylbenzene	7.438	91	3523	0.0839477	ppb #	87

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 19AA.D
Acq On : 13 Nov 2015 7:44 pm
Operator : 522
Sample : RL AP9 1a ppb 15H20824
Misc : water 15J30547
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:12:58 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

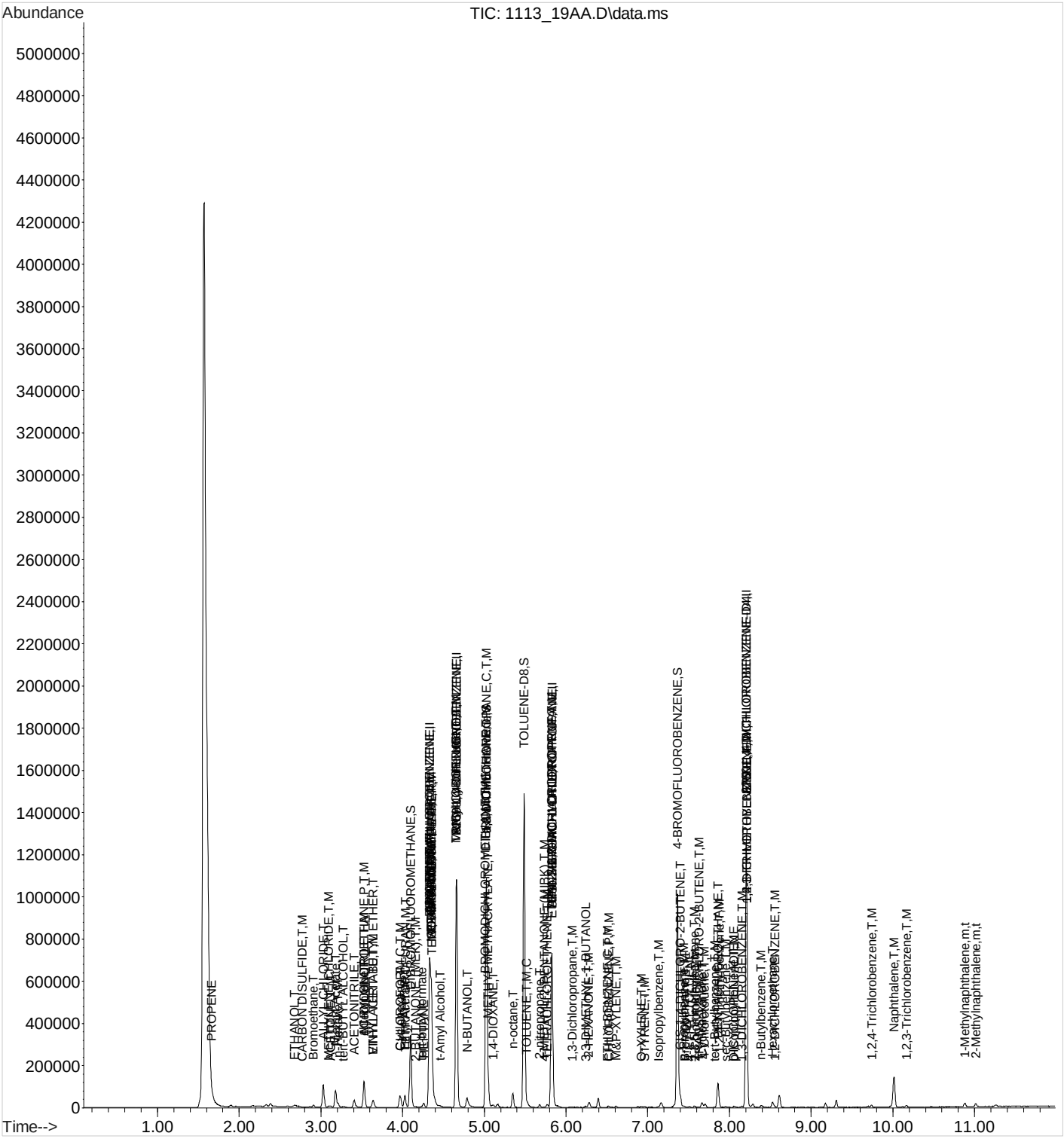
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	4-ETHYLTOLUENE	7.512	105	3177	0.0934765	ppb		89
75)	2-Chlorotoluene	7.582	126	503	0.0651001	ppb	#	44
76)	4-Chlorotoluene	7.695	91	3233	0.1256922	ppb	#	92
77)	1,3,5-Trimethylbenzene	7.569	105	1738	0.0621492	ppb	#	85
78)	tert-Butylbenzene	7.820	119	1177	0.0531348	ppb	#	81
79)	1,2,4-Trimethylbenzene	7.875	105	2602	0.0934152	ppb		96
80)	sec-Butylbenzene	7.952	105	2177	0.0619785	ppb	#	85
81)	1,3-DICHLOROBENZENE	8.155	146	2166	0.1574838	ppb		91
82)	p-Isopropyltoluene	8.052	119	1900	0.0674597	ppb	#	91
83)	DICYCLOPENTADIENE	8.055	66	2119	0.0589343	ppb	#	71
85)	1,4-DICHLOROBENZENE	8.216	146	2568	0.1846756	ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.216	105	2834	0.0957160	ppb		90
87)	1,2-DICHLOROBENZENE	8.553	146	1560	0.1268215	ppb	#	89
88)	n-Butylbenzene	8.386	91	2872	0.1044413	ppb	#	93
90)	1,2,4-Trichlorobenzene	9.740	180	2753	0.3831813	ppb	#	84
92)	Naphthalene	10.013	128	7260	0.4367364	ppb	#	92
93)	1,2,3-Trichlorobenzene	10.167	180	2158	0.3348789	ppb		96
94)	1-Methylnaphthalene	10.881	142	6503	0.7655048	ppb	#	90
95)	2-Methylnaphthalene	11.016	142	5858	0.8384891	ppb		91
97)	ETHANOL	2.679	45	6571	104.2227417	ppb	#	89
98)	Bromoethane	2.907	108	6568	0.9898746	ppb	#	79
100)	Methyl Acetate	3.177	43	90159	22.1378976	ppb	#	98
101)	ACETONITRILE	3.406	41	34774	54.0165271	ppb		96
102)	ALLYL CHLORIDE	3.029	76	21864	5.3000809	ppb		96
103)	tert-BUTYL ALCOHOL	3.271	59	6260	5.2366402	ppb	#	88
104)	chloroprene	3.528	53	67960	5.2521881	ppb		95
105)	ETHYL TERT-BUTYL ETHER	3.637	59	28147	1.1446365	ppb		95
106)	PROPIONITRILE	4.345	54	41929	53.7273854	ppb	#	89
107)	Ethyl Acetate	4.026	43	58827	11.0627566	ppb		99
108)	METHACRYLONITRILE	4.354	67	131911	53.5791813	ppb		99
109)	Cyclohexane	3.968	84	17217	1.0352962	ppb	#	88
110)	tert-butyl formate	4.235	59	1942	12.3627231	ppb	#	1
111)	ISOBUTANOL	4.354	41	211864	107.1979946	ppb	#	98
112)	t-Amyl Alcohol	4.457	59	2151	5.9059221	ppb	#	20
113)	TERT-AMYL METHYL ETHER	4.357	73	27443	1.0626490	ppb	#	72
115)	N-BUTANOL	4.788	56	28145	191.7710505	ppb		94
116)	Methyl Cyclohexane	4.656	83	28334	1.3820852	ppb	#	82
117)	2-nitropropane	5.676	43	7408	5.0091353	ppb	#	85
118)	METHYL METHACRYLATE	5.045	41	30752	5.3689795	ppb	#	88
119)	1,4-DIOXANE	5.107	88	5933	104.4317147	ppb		90
120)	n-octane	5.351	85	11852	0.9565744	ppb		97
121)	3,3-DIMETHYL-1-BUTANOL	6.242	57	3121	9.6433600	ppb		93
123)	ETHYL METHACRYLATE	5.830	69	38833	5.1028571	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.399	53	10806	5.5466695	ppb	#	31
125)	Cyclohexanone	7.663	55	9790	11.1240402	ppb		95
126)	PENTACHLOROETHANE	7.859	117	18325	5.1938653	ppb	#	94
127)	Hexachloroethane	8.524	117	4506	0.9886059	ppb	#	92

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 19AA.D
Acq On : 13 Nov 2015 7:44 pm
Operator : 522
Sample : RL AP9 1a ppb 15H20824
Misc : water 15J30547
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:12:58 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 16A.D
Acq On : 13 Nov 2015 6:47 pm
Operator : 522
Sample : SSCV VMS 25 ppb 15K13425
Misc : water 15J30547
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:02:57 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:02:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.332	168	355705	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	685734	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	123452	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	318707	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.332	168	355705	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	685734	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	123452	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	318707	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.097	111	191040	37.3940631 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 93.49%		
46) a,a,a-Trifluorotoluene	5.023	146	370837	40.0664396 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 100.17%		
50) TOLUENE-D8	5.486	98	899970	39.8431870 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 99.61%		
68) 4-BROMOFLUOROBENZENE	7.364	95	359351	39.9294423 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 99.82%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	5890659m	Below Cal	
3) PROPENE	1.673	41	28477	17.6114473 ppb	100
4) DICHLORODIFLUOROMETHANE	1.730	85	173076	22.9730533 ppb	99
5) CHLOROMETHANE	1.878	50	250961	23.6561379 ppb	98
6) VINYL CHLORIDE	1.956	62	273469	24.5390918 ppb	99
7) 1,3-BUTADIENE	1.965	39	189563	27.4620550 ppb	99
8) BROMOMETHANE	2.213	94	169618	24.4773689 ppb	99
9) CHLOROETHANE	2.306	64	171694	23.0670727 ppb	98
10) TRICHLOROFLUOROMETHANE	2.396	101	271319	23.8420945 ppb	98
11) DICHLOROFLUOROMETHANE	2.435	67	400694	24.7463734 ppb	100
12) ETHYL ETHER	2.589	59	184965	23.8283950 ppb	98
13) ACROLEIN	2.949	56	112590	112.1630647 ppb	100
14) 1,1-DICHLOROETHENE	2.737	61	324928	25.0855470 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.756	101	172958	23.9467095 ppb	98
16) ACETONE	3.119	43	414062	120.5245976 ppb	100
17) IODOMETHANE	2.843	142	1387787	128.7088859 ppb	100
18) CARBON DISULFIDE	2.772	76	690910	25.4097599 ppb	99
19) METHYLENE CHLORIDE	3.097	84	218132	24.3835820 ppb	99
20) ACRYLONITRILE	3.579	53	275052	126.3719892 ppb	98
21) n-Hexane	3.213	56	202086	23.7678620 ppb	97
22) TRANS-1,2-DICHLOROETHENE	3.190	96	207991	25.3410720 ppb	99
23) METHYL TERT-BUTYL ETHER	3.232	73	553825	25.6359242 ppb	99
24) 1,1-DICHLOROETHANE	3.547	63	405778	25.6245119 ppb	100
25) VINYL ACETATE	3.656	43	1762794	126.9038169 ppb	100
26) DI-ISOPROPYL ETHER	3.431	45	755200	25.5271028 ppb	99
27) 2,2-Dichloropropane	3.914	77	306533	25.9576488 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.853	96	227852	25.2137729 ppb	99
29) 2-BUTANONE (MEK)	4.158	43	431592	113.8335373 ppb	98
30) BROMOCHLOROMETHANE	3.968	130	114106	25.6773670 ppb	100
31) TETRAHYDROFURAN	4.094	42	45678	23.3436698 ppb	97
32) CHLOROFORM	3.991	83	367513	25.3653482 ppb	100
34) 1,1,1-TRICHLOROETHANE	4.123	97	276920	25.2294193 ppb	98
35) CARBON TETRACHLORIDE	4.084	119	216452	25.6979506 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 16A.D
Acq On : 13 Nov 2015 6:47 pm
Operator : 522
Sample : SSCV VMS 25 ppb 15K13425
Misc : water 15J30547
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:02:57 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:02:40 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	4.187	75	273245	24.5621632 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	4.219	57	899786	25.3910287 ppb		100
38)	HEPTANE	4.258	43	377858	23.7101093 ppb	#	69
39)	BENZENE	4.332	78	901236	24.8986089 ppb		100
40)	1,2-DICHLOROETHANE	4.451	62	274297	25.0060928 ppb		100
42)	TRICHLOROETHENE	4.656	130	192016	25.6240628 ppb		98
43)	1,2-DICHLOROPROPANE	4.971	62	164380	25.7111698 ppb		99
44)	DIBROMOMETHANE	4.920	93	104746	24.9038435 ppb		98
45)	BROMODICHLOROMETHANE	4.997	83	274493	25.1886455 ppb		97
47)	2-CHLOROETHYL VINYL ETHER	5.309	63	399207	135.1692850 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.373	75	350496	25.7875349 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.737	43	737696	124.4594159 ppb		99
51)	TOLUENE	5.521	91	930359	24.8855344 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.775	75	297918	25.5073944 ppb		99
54)	1,1,2-TRICHLOROETHANE	5.888	97	153942	25.0745416 ppb		99
55)	TETRACHLOROETHENE	5.769	164	133255	25.0938233 ppb		99
56)	1,3-Dichloropropane	6.071	76	296401	24.9453674 ppb		100
57)	2-HEXANONE	6.277	58	360124	120.4803638 ppb		99
58)	CHLORODIBROMOMETHANE	6.013	129	154541	25.4706983 ppb		98
59)	1,2-DIBROMOETHANE	6.190	107	144881	25.5949908 ppb		97
60)	CHLOROBENZENE	6.524	112	544012	25.8841689 ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.557	133	163596	25.8107047 ppb	#	98
62)	ETHYLBENZENE	6.515	106	308128	25.7731555 ppb		99
63)	M&P-XYLENE	6.611	106	761309	51.0362970 ppb		100
64)	O-XYLENE	6.920	106	367369	25.9509515 ppb		98
65)	STYRENE	6.959	104	624609	26.9167869 ppb		99
66)	Bromoform	7.004	173	80840	25.8766277 ppb		99
67)	Isopropylbenzene	7.132	105	953062	26.2115969 ppb		99
69)	Bromobenzene	7.450	77	452971	25.5340724 ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	7.496	83	188722	25.4886863 ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.614	110	49829	24.7387191 ppb		99
72)	TRANS-1,4-DICHLORO-2-B...	7.627	53	56500	26.3918970 ppb		97
73)	n-Propylbenzene	7.434	91	1173398	25.6174914 ppb		99
74)	4-ETHYLTOLUENE	7.512	105	949429	25.5942667 ppb		100
75)	2-Chlorotoluene	7.576	126	212611	25.2112695 ppb		96
76)	4-Chlorotoluene	7.698	91	719410	25.6256088 ppb		99
77)	1,3,5-Trimethylbenzene	7.569	105	822456	26.9459462 ppb		100
78)	tert-Butylbenzene	7.817	119	645636	26.7045415 ppb		99
79)	1,2,4-Trimethylbenzene	7.872	105	808311	26.5879045 ppb		100
80)	sec-Butylbenzene	7.952	105	1032472	26.9312045 ppb		100
81)	1,3-DICHLOROBENZENE	8.151	146	391183	26.0586900 ppb		97
82)	p-Isopropyltoluene	8.055	119	835775	27.1878852 ppb		98
83)	DICYCLOPENTADIENE	8.061	66	1030678	26.2636885 ppb		99
85)	1,4-DICHLOROBENZENE	8.219	146	390424	24.5625806 ppb		100
86)	1,2,3-TRIMETHYLBENZENE	8.216	105	838643	24.7790671 ppb		100
87)	1,2-DICHLOROBENZENE	8.553	146	352643	25.0799336 ppb		99
88)	n-Butylbenzene	8.386	91	815164	25.9331841 ppb		100
89)	1,2-Dibromo-3-chloropr...	9.193	157	25897	25.1186111 ppb		95
90)	1,2,4-Trichlorobenzene	9.740	180	212561	25.8824032 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.692	225	112022	27.6630834 ppb		99
92)	Naphthalene	10.013	128	498229	26.2201264 ppb		98
93)	1,2,3-Trichlorobenzene	10.167	180	185552	25.1898124 ppb		98
94)	1-Methylnaphthalene	10.881	142	266013	27.3942860 ppb		99
95)	2-Methylnaphthalene	11.013	142	223824	28.0270677 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 16A.D
Acq On : 13 Nov 2015 6:47 pm
Operator : 522
Sample : SSCV VMS 25 ppb 15K13425
Misc : water 15J30547
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:02:57 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:02:40 2015
Response via : Initial Calibration

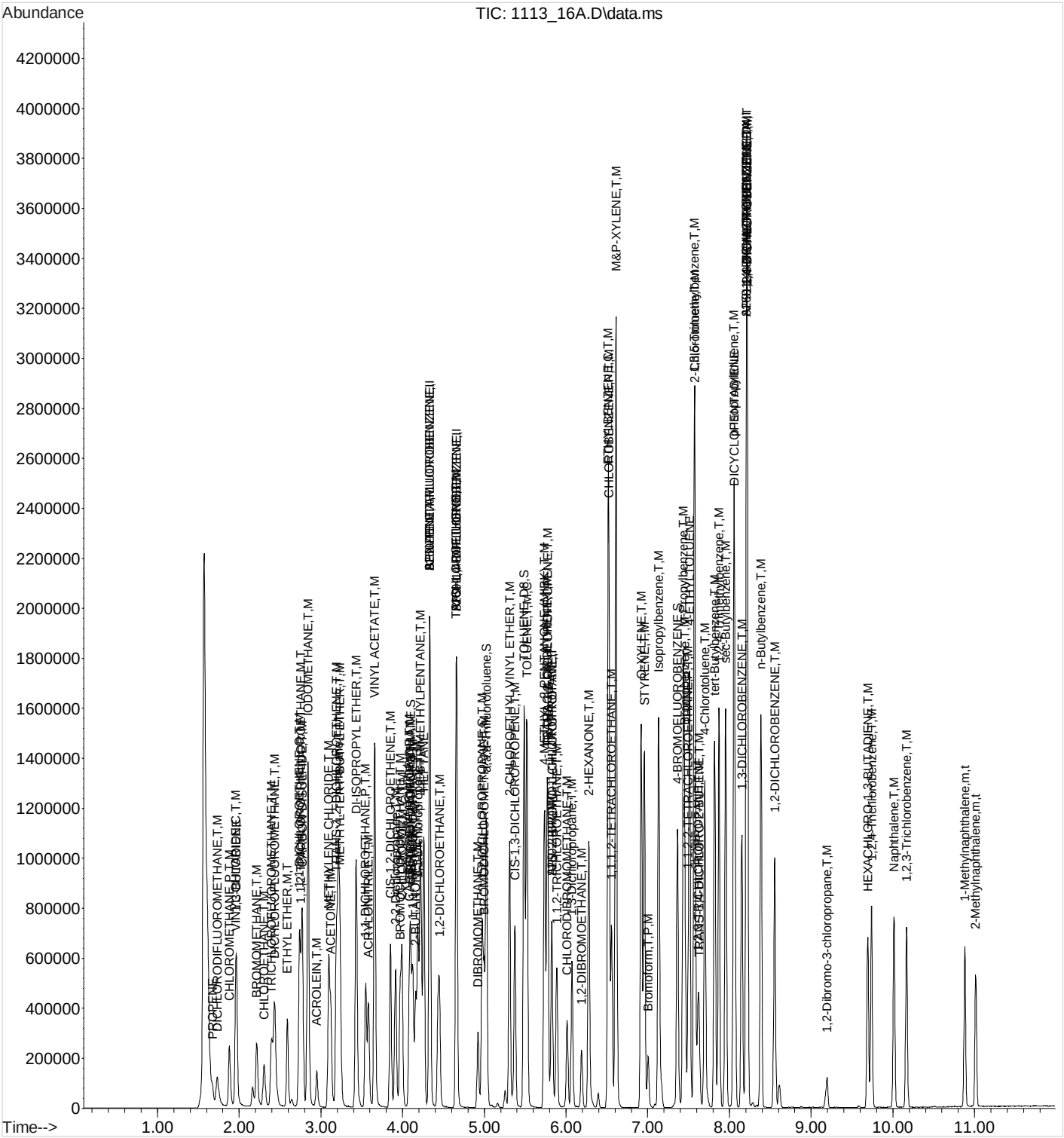
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 16A.D
Acq On : 13 Nov 2015 6:47 pm
Operator : 522
Sample : SSCV VMS 25 ppb 15K13425
Misc : water 15J30547
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:02:57 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:02:40 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 29A.D
Acq On : 13 Nov 2015 10:53 pm
Operator : 522
Sample : SSCV AP9 10a ppb 15K10177
Misc : water 15J30547
ALS Vial : 29 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:12:22 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.332	168	355378	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	693749	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.823	79	127826	40.0000000	ppb	# 0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	316411	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.332	168	355378	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	693749	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.823	79	127826	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	316411	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.097	111	189958	37.2164862	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 93.04%			
46) a,a,a-Trifluorotoluene	5.026	146	378473	40.4190320	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.05%			
50) TOLUENE-D8	5.486	98	906708	39.6777281	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 99.19%			
68) 4-BROMOFLUOROBENZENE	7.364	95	367206	39.4060666	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.52%			
Target Compounds						Qvalue
3) PROPENE	1.669	41	1577	0.9761846	ppb #	53
5) CHLOROMETHANE	1.894	50	7323	0.6909173	ppb #	73
7) 1,3-BUTADIENE	1.952	39	2538	0.3680192	ppb #	78
13) ACROLEIN	2.943	56	525	0.5234905	ppb #	14
16) ACETONE	3.123	43	7841	2.2844476	ppb	92
18) CARBON DISULFIDE	2.772	76	1010	0.0371792	ppb #	1
19) METHYLENE CHLORIDE	3.094	84	5805	0.6495009	ppb	89
20) ACRYLONITRILE	3.528	53	680624	312.9988231	ppb #	51
21) n-Hexane	3.209	56	5265	0.6198002	ppb #	1
23) METHYL TERT-BUTYL ETHER	3.177	73	2325	0.1077206	ppb #	6
24) 1,1-DICHLOROETHANE	3.525	63	9639	0.6092542	ppb #	44
25) VINYL ACETATE	3.643	43	27503	1.9817671	ppb #	74
27) 2,2-Dichloropropane	3.971	77	2647	0.2243580	ppb #	59
29) 2-BUTANONE (MEK)	4.161	43	3479	0.9184398	ppb	96
31) TETRAHYDROFURAN	4.029	42	39134	20.0177713	ppb #	43
32) CHLOROFORM	3.968	83	10568	0.7300630	ppb #	47
37) 2,2,4-TRIMETHYLPENTANE	4.235	57	556344	15.7138971	ppb #	1
38) HEPTANE	4.235	43	128070	8.0436243	ppb #	1
39) BENZENE	4.332	78	873	0.0241407	ppb #	60
40) 1,2-DICHLOROETHANE	4.354	62	39564	3.6101430	ppb #	76
42) TRICHLOROETHENE	4.660	130	5117	0.6749620	ppb #	56
43) 1,2-DICHLOROPROPANE	5.023	62	8780	1.3574401	ppb #	58
45) BROMODICHLOROMETHANE	5.052	83	1431	0.1297975	ppb #	1
49) 4-METHYL-2-PENTANONE (...	5.737	43	669	0.1115655	ppb #	35
51) TOLUENE	5.518	91	1381	0.0365127	ppb	96
52) TRANS-1,3-DICHLOROPROPENE	5.823	75	6275	0.5310512	ppb #	1
54) 1,1,2-TRICHLOROETHANE	5.833	97	1757	0.2763927	ppb #	1
55) TETRACHLOROETHENE	5.769	164	23595	4.2912344	ppb	98
57) 2-HEXANONE	6.283	58	2777	0.8972615	ppb #	34
60) CHLOROBENZENE	6.528	112	583	0.0267900	ppb #	77
61) 1,1,1,2-TETRACHLOROETHANE	6.557	133	3268	0.4979528	ppb #	87
63) M&P-XYLENE	6.614	106	1055	0.0683045	ppb	98
65) STYRENE	6.965	104	1102	0.0458644	ppb #	63

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 29A.D
Acq On : 13 Nov 2015 10:53 pm
Operator : 522
Sample : SSCV AP9 10a ppb 15K10177
Misc : water 15J30547
ALS Vial : 29 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:12:22 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration

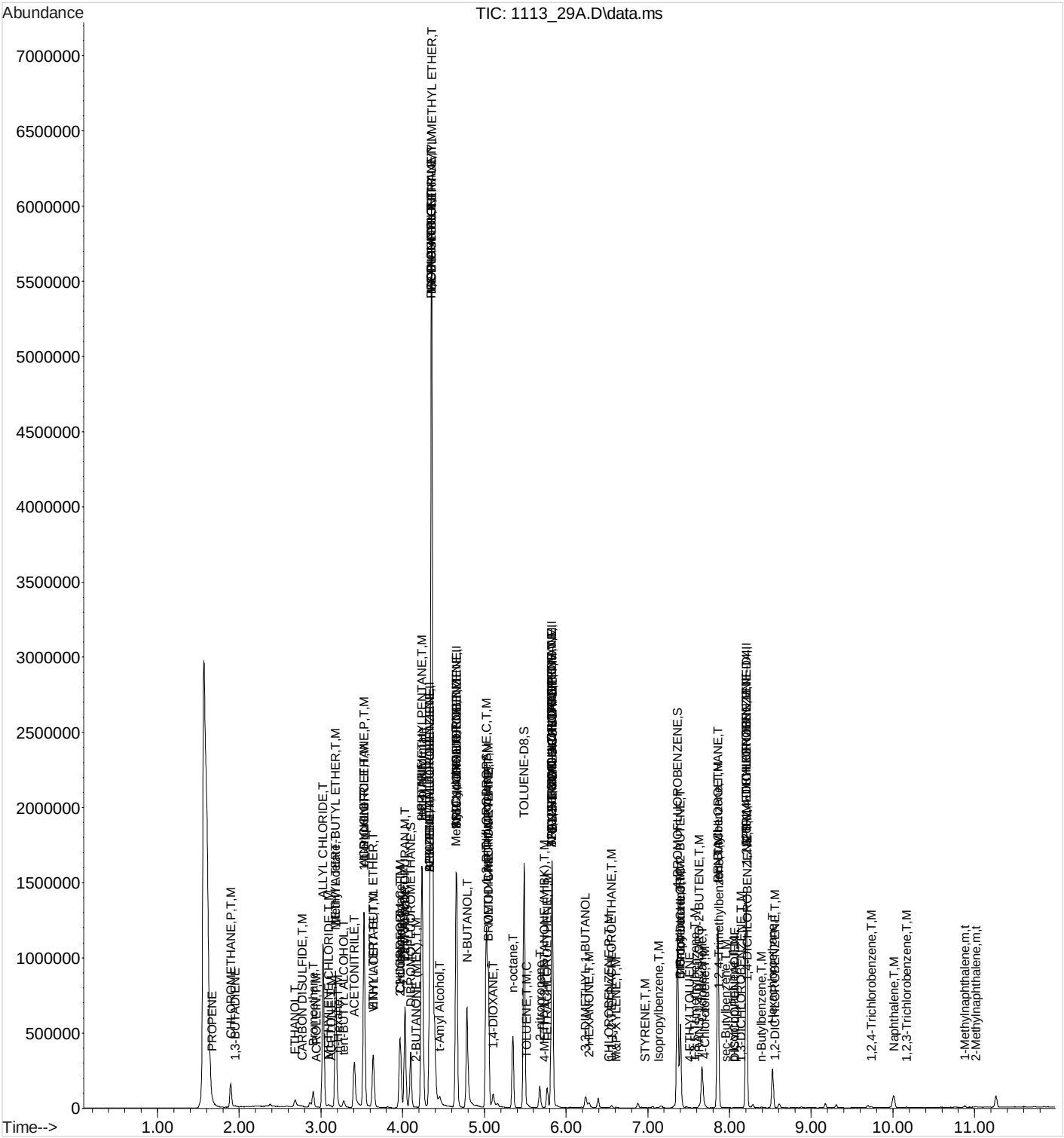
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
67)	Isopropylbenzene	7.135	105	668	0.0177430	ppb	#	54
69)	Bromobenzene	7.399	77	34251	1.8646695	ppb	#	33
72)	TRANS-1,4-DICHLORO-2-B...	7.630	53	3699	1.6687275	ppb	#	86
73)	n-Propylbenzene	7.399	91	13468	0.2839705	ppb	#	69
74)	4-ETHYLTOLUENE	7.508	105	1794	0.0467070	ppb	#	47
76)	4-Chlorotoluene	7.698	91	1103	0.0379448	ppb	#	52
77)	1,3,5-Trimethylbenzene	7.573	105	784	0.0248071	ppb	#	29
78)	tert-Butylbenzene	7.859	119	198685	7.9367262	ppb	#	29
79)	1,2,4-Trimethylbenzene	7.872	105	1725	0.0547991	ppb	#	1
80)	sec-Butylbenzene	7.952	105	1012	0.0254939	ppb	#	59
81)	1,3-DICHLOROBENZENE	8.145	146	552	0.0355133	ppb	#	18
82)	p-Isopropyltoluene	8.052	119	812	0.0255106	ppb	#	47
83)	DICYCLOPENTADIENE	8.068	66	727	0.0178915	ppb	#	71
85)	1,4-DICHLOROBENZENE	8.219	146	1036	0.0656504	ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.209	105	639	0.0190173	ppb	#	1
87)	1,2-DICHLOROBENZENE	8.553	146	564	0.0404027	ppb	#	24
88)	n-Butylbenzene	8.389	91	1455	0.0466245	ppb	#	74
90)	1,2,4-Trichlorobenzene	9.736	180	2095	0.2569479	ppb	#	85
92)	Naphthalene	10.013	128	4108	0.2177591	ppb	#	72
93)	1,2,3-Trichlorobenzene	10.167	180	966	0.1320920	ppb	#	84
94)	1-Methylnaphthalene	10.881	142	3045	0.3158526	ppb	#	90
95)	2-Methylnaphthalene	11.016	142	2095	0.2642379	ppb	#	75
97)	ETHANOL	2.682	45	68762	1020.8413125	ppb	#	89
98)	Bromoethane	2.904	108	71868	10.1382104	ppb		99
100)	Methyl Acetate	3.180	43	947797	217.8318243	ppb	#	100
101)	ACETONITRILE	3.409	41	341944	497.1709073	ppb		99
102)	ALLYL CHLORIDE	3.026	76	215651	48.9308845	ppb		99
103)	tert-BUTYL ALCOHOL	3.277	59	49278	38.5842612	ppb		98
104)	chloroprene	3.528	53	680624	49.2348787	ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.640	59	269464	10.2568717	ppb		98
106)	PROPIONITRILE	4.348	54	451681	541.7410372	ppb		99
107)	Ethyl Acetate	4.029	43	628197	110.5760888	ppb		99
108)	METHACRYLONITRILE	4.354	67	1441007	547.8477237	ppb		99
109)	Cyclohexane	3.968	84	169221	9.5244546	ppb		98
110)	tert-butyl formate	4.235	59	728033	4338.0513965	ppb	#	75
111)	ISOBUTANOL	4.354	41	2330109	1103.5307550	ppb	#	99
112)	t-Amyl Alcohol	4.454	59	20575	52.8768843	ppb		89
113)	TERT-AMYL METHYL ETHER	4.357	73	291766	10.5747871	ppb		98
115)	N-BUTANOL	4.788	56	381905	2420.7668469	ppb		97
116)	Methyl Cyclohexane	4.653	83	195973	8.8928094	ppb		99
117)	2-nitropropane	5.679	43	86525	54.4276043	ppb		99
118)	METHYL METHACRYLATE	5.049	41	341104	55.4014354	ppb		98
119)	1,4-DIOXANE	5.110	88	64846	1061.8350986	ppb		91
120)	n-octane	5.351	85	83456	9.8019954	ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	6.238	57	45255	130.0819397	ppb		98
123)	ETHYL METHACRYLATE	5.833	69	445186	51.7640312	ppb		99
124)	CIS-1,4-DICHLORO-2-BUTENE	7.399	53	118072	53.6276011	ppb		99
125)	Cyclohexanone	7.663	55	117385	118.0229827	ppb		99
126)	PENTACHLOROETHANE	7.859	117	207990	52.1630860	ppb		100
127)	Hexachloroethane	8.528	117	48938	9.5006286	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 29A.D
Acq On : 13 Nov 2015 10:53 pm
Operator : 522
Sample : SSCV AP9 10a ppb 15K10177
Misc : water 15J30547
ALS Vial : 29 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:12:22 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 11:11:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 04A.D
Acq On : 13 Nov 2015 2:58 pm
Operator : 522
Sample : STD VMS 0.25 ppb 15K13424
Misc : water 15J30547
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:35:14 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.332	168	366429	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	713433	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	128719	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	318015	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.33
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.66
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.83
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.21
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.100	111	196362	35.7065546 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 89.27%		
46) a,a,a-Trifluorotoluene	5.026	146	386529	39.8406868 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 99.60%		
50) TOLUENE-D8	5.486	98	934662	39.1279892 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 97.82%		
68) 4-BROMOFLUOROBENZENE	7.364	95	374846	39.6775755 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 99.19%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-5875617m	Below Cal	
3) PROPENE	1.670	41	1846	1.1414011 ppb #	43
4) DICHLORODIFLUOROMETHANE	1.734	85	1907	0.2403502 ppb #	44
5) CHLOROMETHANE	1.882	50	3320	0.3144536 ppb #	93
6) VINYL CHLORIDE	1.956	62	2140	0.1814843 ppb #	72
7) 1,3-BUTADIENE	1.962	39	1353	0.1766313 ppb	84
8) BROMOMETHANE	2.210	94	1728	0.2310962 ppb #	81
9) CHLOROETHANE	2.310	64	2061	0.2720372 ppb #	87
10) TRICHLOROFLUOROMETHANE	2.400	101	2970	0.2511517 ppb #	96
11) DICHLOROFLUOROMETHANE	2.438	67	3641	0.2123712 ppb #	81
12) ETHYL ETHER	2.592	59	2332	0.2915777 ppb #	77
13) ACROLEIN	2.953	56	1504	1.5441273 ppb #	73
14) 1,1-DICHLOROETHENE	2.737	61	3370	0.2495151 ppb	94
15) 1,1,2-TRICHLOROTRIFLUO...	2.750	101	2036	0.2735441 ppb #	81
16) ACETONE	3.123	43	12578	3.3985305 ppb	98
17) IODOMETHANE	2.843	142	12044	1.0505823 ppb	97
18) CARBON DISULFIDE	2.769	76	7028	0.2520486 ppb #	82
19) METHYLENE CHLORIDE	3.094	84	2569	0.2822922 ppb #	87
20) ACRYLONITRILE	3.583	53	2909	1.2484654 ppb	96
21) n-Hexane	3.213	56	6902	0.7904517 ppb #	75
22) TRANS-1,2-DICHLOROETHENE	3.194	96	2317	0.2714975 ppb #	77
23) METHYL TERT-BUTYL ETHER	3.232	73	5860	0.2511728 ppb #	1
24) 1,1-DICHLOROETHANE	3.547	63	3540	0.2087636 ppb	98
25) VINYL ACETATE	3.660	43	16539	1.1090794 ppb	99
26) DI-ISOPROPYL ETHER	3.432	45	6889	0.2166120 ppb	95
27) 2,2-Dichloropropane	3.914	77	3198	0.2572363 ppb #	59
28) CIS-1,2-DICHLOROETHENE	3.856	96	2491	0.2611903 ppb	88
29) 2-BUTANONE (MEK)	4.162	43	9750	2.4563905 ppb	95
30) BROMOCHLOROMETHANE	3.972	130	875	0.1839806 ppb #	74
31) TETRAHYDROFURAN	4.155	42	667	0.3352007 ppb #	31
32) CHLOROFORM	3.998	83	3433	0.2197392 ppb #	90
34) 1,1,1-TRICHLOROETHANE	4.126	97	2513	0.2113437 ppb	91
35) CARBON TETRACHLORIDE	4.081	119	1858	0.2037152 ppb	85

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 04A.D
Acq On : 13 Nov 2015 2:58 pm
Operator : 522
Sample : STD VMS 0.25 ppb 15K13424
Misc : water 15J30547
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:35:14 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.190	75	2988	0.2563168 ppb		95
37) 2,2,4-TRIMETHYLPENTANE	4.219	57	9019	0.2331713 ppb	#	89
38) HEPTANE	4.258	43	12042	0.7311652 ppb		95
39) BENZENE	4.332	78	8896	0.2315880 ppb	#	17
40) 1,2-DICHLOROETHANE	4.454	62	2495	0.2114985 ppb	#	76
42) TRICHLOROETHENE	4.660	130	1822	0.2297621 ppb		87
43) 1,2-DICHLOROPROPANE	4.969	62	1467	0.2117245 ppb		97
44) DIBROMOMETHANE	4.924	93	977	0.2199100 ppb		92
45) BROMODICHLOROMETHANE	4.994	83	2581	0.2211108 ppb	#	82
47) 2-CHLOROETHYL VINYL ETHER	5.313	63	2862	0.8575999 ppb	#	91
48) CIS-1,3-DICHLOROPROPENE	5.374	75	2924	0.1968409 ppb	#	83
49) 4-METHYL-2-PENTANONE (...	5.734	43	8163	1.2406066 ppb		89
51) TOLUENE	5.522	91	9978	0.2573111 ppb		97
52) TRANS-1,3-DICHLOROPROPENE	5.772	75	2681	0.2108559 ppb	#	90
54) 1,1,2-TRICHLOROETHANE	5.882	97	1609	0.2498347 ppb		94
55) TETRACHLOROETHENE	5.769	164	1327	0.2402681 ppb	#	89
56) 1,3-Dichloropropane	6.075	76	3097	0.2481866 ppb		96
57) 2-HEXANONE	6.284	58	7323	2.4016172 ppb		81
58) CHLORODIBROMOMETHANE	6.014	129	1471	0.2276624 ppb	#	85
59) 1,2-DIBROMOETHANE	6.197	107	1278	0.2125267 ppb		96
60) CHLOROBENZENE	6.525	112	4702	0.2135643 ppb	#	83
61) 1,1,1,2-TETRACHLOROETHANE	6.554	133	1563	0.2374227 ppb	#	93
62) ETHYLBENZENE	6.515	106	3011	0.2406600 ppb		95
63) M&P-XYLENE	6.612	106	7244	0.4630261 ppb		100
64) O-XYLENE	6.920	106	3422	0.2241055 ppb		94
65) STYRENE	6.959	104	5870	0.2326336 ppb		100
66) Bromoform	7.004	173	830	0.2518260 ppb	#	28
67) Isopropylbenzene	7.136	105	8970	0.2294881 ppb	#	91
69) Bromobenzene	7.454	77	4606	0.2479313 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.493	83	2134	0.2754262 ppb	#	93
71) 1,2,3-TRICHLOROPROPANE	7.618	110	594	0.2816198 ppb	#	25
72) TRANS-1,4-DICHLORO-2-B...	7.631	53	707	0.3077763 ppb	#	26
73) n-Propylbenzene	7.438	91	13032	0.2703295 ppb	#	95
74) 4-ETHYLTOLUENE	7.512	105	10027	0.2504675 ppb		99
75) 2-Chlorotoluene	7.573	126	2437	0.2836514 ppb	#	68
76) 4-Chlorotoluene	7.695	91	7402	0.2482284 ppb		98
77) 1,3,5-Trimethylbenzene	7.573	105	6603	0.1949484 ppb		92
78) tert-Butylbenzene	7.821	119	6157	0.2332778 ppb		97
79) 1,2,4-Trimethylbenzene	7.872	105	7782	0.2337251 ppb		89
80) sec-Butylbenzene	7.956	105	9658	0.2271283 ppb		98
81) 1,3-DICHLOROBENZENE	8.152	146	3977	0.2477835 ppb		99
82) p-Isopropyltoluene	8.055	119	7275	0.2125095 ppb		95
83) DICYCLOPENTADIENE	8.062	66	9244	0.2147716 ppb		95
85) 1,4-DICHLOROBENZENE	8.219	146	4249	0.2724256 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.219	105	9305	0.2761160 ppb		93
87) 1,2-DICHLOROBENZENE	8.554	146	3204	0.2242547 ppb		88
88) n-Butylbenzene	8.386	91	7982	0.2385103 ppb		96
89) 1,2-Dibromo-3-chloropr...	9.197	157	194m	0.1869849 ppb		
90) 1,2,4-Trichlorobenzene	9.740	180	3873	0.4490872 ppb	#	93
91) HEXACHLORO-1,3-BUTADIENE	9.692	225	1084	0.2482523 ppb	#	85
92) Naphthalene	10.013	128	8123	0.4073417 ppb		96
93) 1,2,3-Trichlorobenzene	10.168	180	2463	0.3226146 ppb	#	88
94) 1-Methylnaphthalene	10.882	142	5435	0.5296668 ppb		99
95) 2-Methylnaphthalene	11.013	142	4143	0.4845737 ppb		90

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 04A.D
Acq On : 13 Nov 2015 2:58 pm
Operator : 522
Sample : STD VMS 0.25 ppb 15K13424
Misc : water 15J30547
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:35:14 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

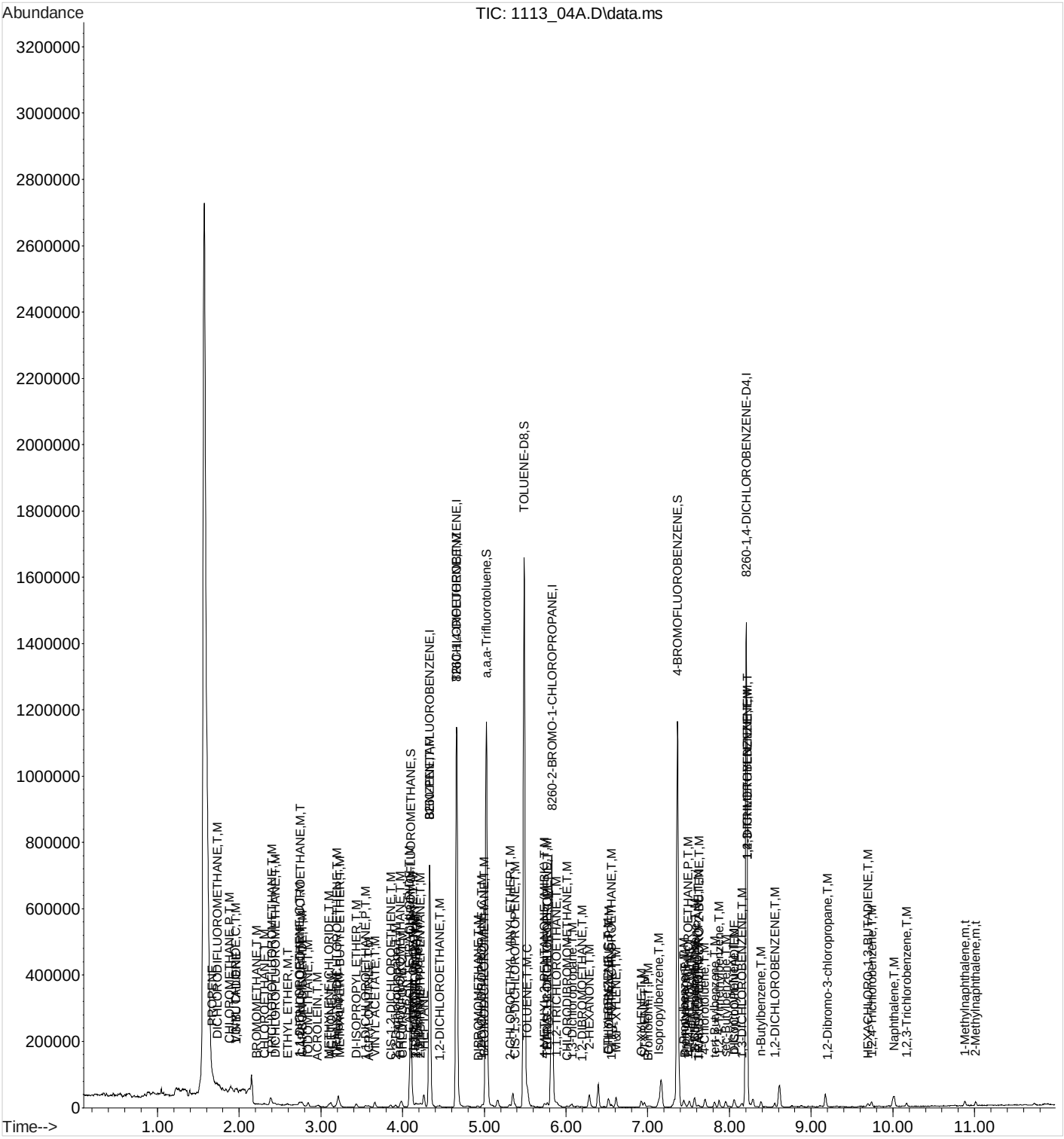
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 04A.D
Acq On : 13 Nov 2015 2:58 pm
Operator : 522
Sample : STD VMS 0.25 ppb 15K13424
Misc : water 15J30547
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:35:14 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 04A.D
Acq On    : 13 Nov 2015   2:58 pm
Operator  : 522
Sample    : STD VMS 0.25 ppb 15K13424
Misc      : water 15J30547
ALS Vial  : 4   Sample Multiplier: 1
InstName  : VOCMS20

Quant Time: Nov 16 10:33:08 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration
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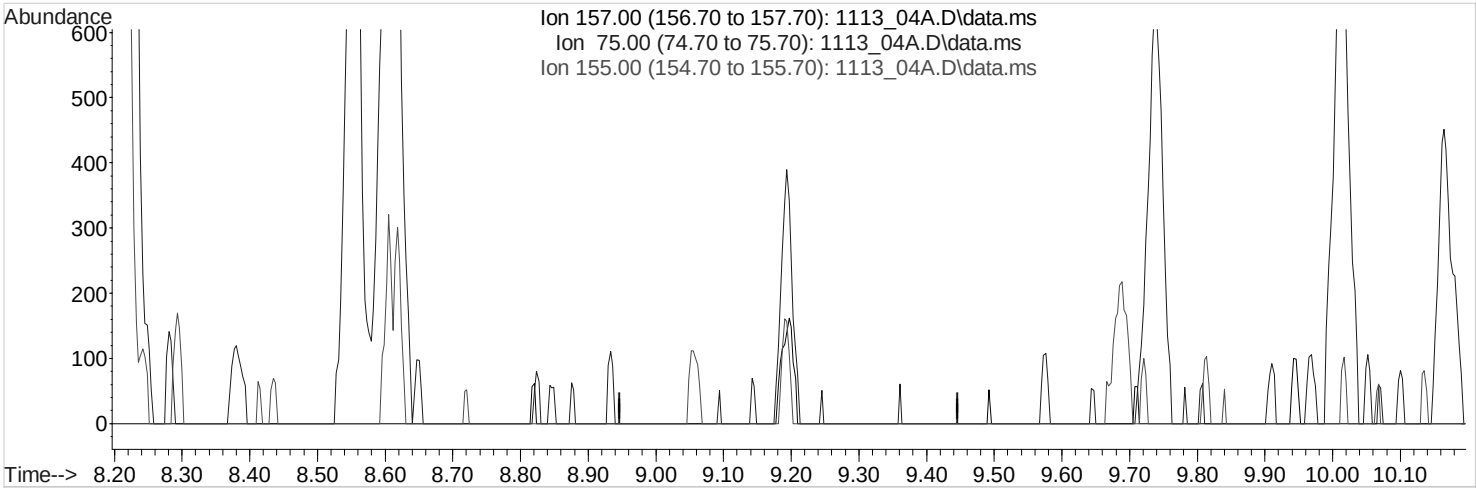

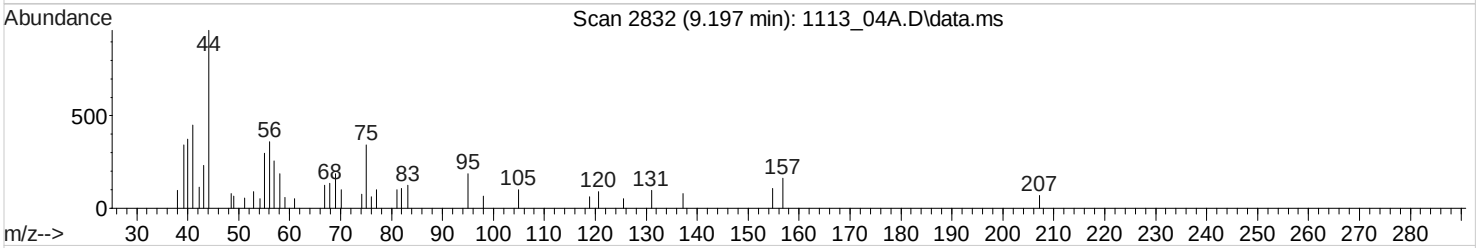

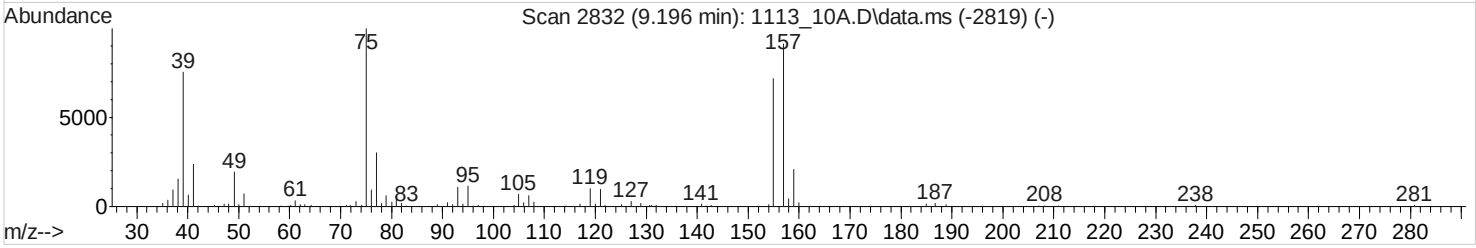

TIC: 1113_04A.D\data.ms

(89) 1,2-Dibromo-3-chloropropane (T,M)

9.196min (-9.196) 0.0000000 ppb

Qvalue = 0

response 0

Ion	Exp%	Act%
157.00	100	0.00
75.00	112.00	0.00#
155.00	79.70	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 04A.D
Acq On    : 13 Nov 2015   2:58 pm
Operator  : 522
Sample    : STD VMS 0.25 ppb 15K13424
Misc      : water 15J30547
ALS Vial  : 4   Sample Multiplier: 1
InstName  : VOCMS20

Quant Time: Nov 16 10:33:08 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration
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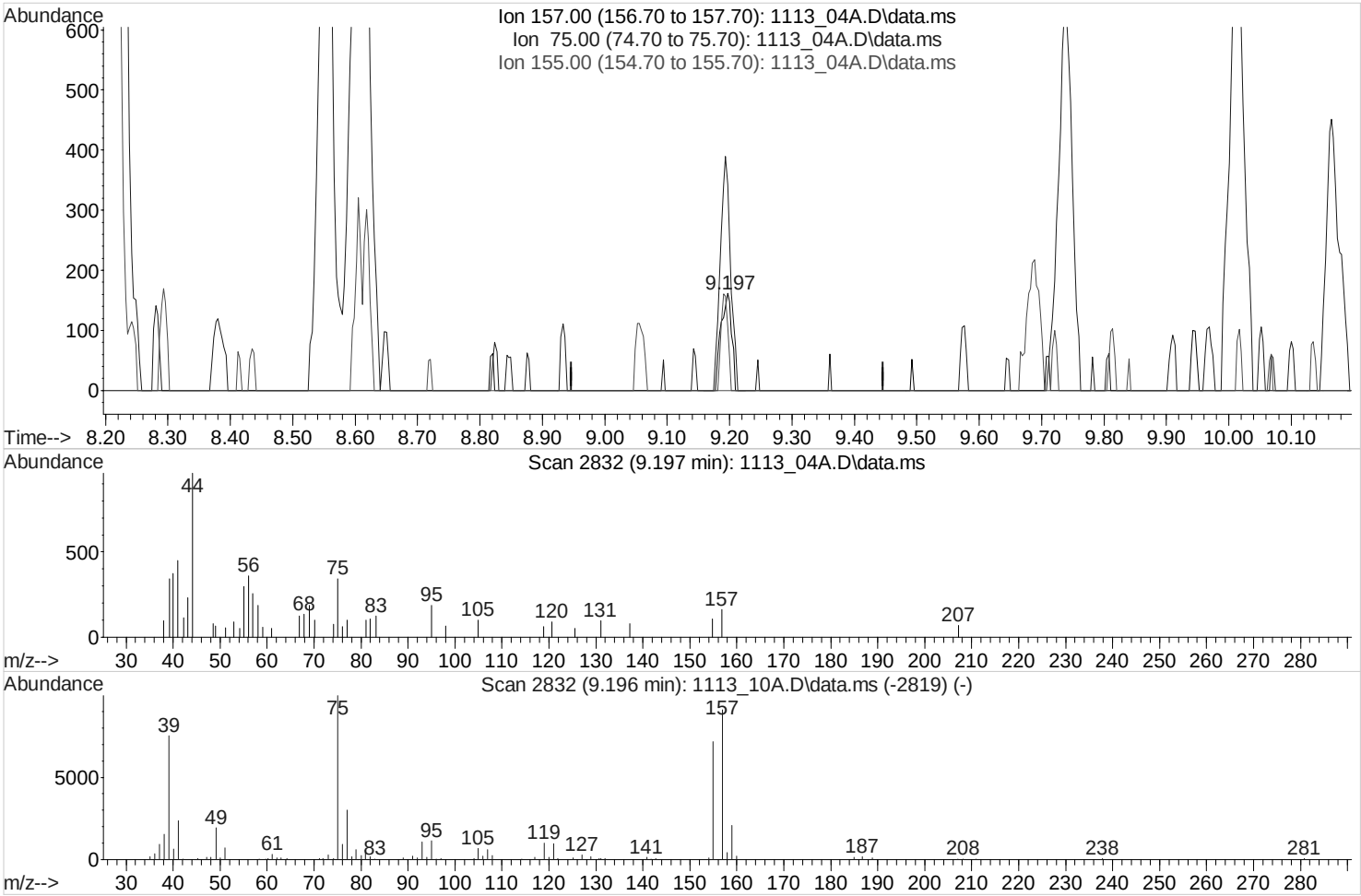


TIC: 1113_04A.D\data.ms

(89) 1,2-Dibromo-3-chloropropane (T,M)

9.197min (+0.001) 0.1869849 ppb m

response 194

Ion	Exp%	Act%
157.00	100	100
75.00	112.00	0.00#
155.00	79.70	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 05A.D
Acq On : 13 Nov 2015 3:17 pm
Operator : 522
Sample : STD VMS 0.5 ppb 15K13424
Misc : water 15J30547
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:36:25 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.331	168	352082	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.659	114	685025	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	121994	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	296793	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.33
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.66
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.83
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.21
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.100	111	189297	35.8245089 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 89.56%		
46) a,a,a-Trifluorotoluene	5.026	146	373249	40.0673075 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 100.17%		
50) TOLUENE-D8	5.486	98	892956	38.9322745 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 97.33%		
68) 4-BROMOFLUOROBENZENE	7.363	95	352872	39.4106530 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.53%		

Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-5738265m	Below Cal		
3) PROPENE	1.672	41	2486	1.5997560 ppb	#	72
4) DICHLORODIFLUOROMETHANE	1.730	85	3978	0.5218006 ppb	#	85
5) CHLOROMETHANE	1.881	50	5831	0.5747878 ppb	#	92
6) VINYL CHLORIDE	1.952	62	6250	0.5516344 ppb	#	82
7) 1,3-BUTADIENE	1.965	39	3089	0.4196951 ppb		90
8) BROMOMETHANE	2.216	94	3823	0.5321074 ppb		92
9) CHLOROETHANE	2.303	64	4452	0.6115774 ppb	#	81
10) TRICHLOROFLUOROMETHANE	2.399	101	6356	0.5593833 ppb	#	74
11) DICHLOROFLUOROMETHANE	2.438	67	8597	0.5218767 ppb	#	82
12) ETHYL ETHER	2.589	59	3977	0.5175203 ppb		95
13) ACROLEIN	2.949	56	3235	3.4566512 ppb		95
14) 1,1-DICHLOROETHENE	2.737	61	6593	0.5080377 ppb		97
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	3758	0.5254755 ppb		91
16) ACETONE	3.123	43	16603	4.6688741 ppb		100
17) IODOMETHANE	2.843	142	26310	2.3885053 ppb		98
18) CARBON DISULFIDE	2.772	76	14053	0.5245268 ppb	#	36
19) METHYLENE CHLORIDE	3.097	84	4680	0.5352129 ppb		99
20) ACRYLONITRILE	3.582	53	5520	2.4655732 ppb		99
21) n-Hexane	3.216	56	8822	1.0515100 ppb		81
22) TRANS-1,2-DICHLOROETHENE	3.190	96	4308	0.5253655 ppb		100
23) METHYL TERT-BUTYL ETHER	3.235	73	10309	0.4598726 ppb	#	6
24) 1,1-DICHLOROETHANE	3.547	63	7846	0.4815550 ppb		92
25) VINYL ACETATE	3.659	43	32937	2.2987062 ppb		98
26) DI-ISOPROPYL ETHER	3.434	45	14410	0.4715594 ppb		96
27) 2,2-Dichloropropane	3.913	77	5943	0.4975142 ppb		94
28) CIS-1,2-DICHLOROETHENE	3.849	96	4221	0.4606219 ppb		90
29) 2-BUTANONE (MEK)	4.161	43	14096	3.6960233 ppb		98
30) BROMOCHLOROMETHANE	3.971	130	2281	0.4991549 ppb		97
31) TETRAHYDROFURAN	4.090	42	1008	0.5272124 ppb	#	31
32) CHLOROFORM	3.994	83	6918	0.4608507 ppb	#	90
34) 1,1,1-TRICHLOROETHANE	4.126	97	5637	0.4933907 ppb		99
35) CARBON TETRACHLORIDE	4.084	119	4367	0.4983185 ppb		89

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 05A.D
Acq On : 13 Nov 2015 3:17 pm
Operator : 522
Sample : STD VMS 0.5 ppb 15K13424
Misc : water 15J30547
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:36:25 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.190	75	5770	0.5151318 ppb		94
37) 2,2,4-TRIMETHYLPENTANE	4.219	57	17794	0.4787803 ppb	#	88
38) HEPTANE	4.258	43	16664	1.0530335 ppb		96
39) BENZENE	4.331	78	18036	0.4886608 ppb	#	58
40) 1,2-DICHLOROETHANE	4.454	62	5476	0.4831101 ppb	#	87
42) TRICHLOROETHENE	4.659	130	4073	0.5349229 ppb		97
43) 1,2-DICHLOROPROPANE	4.975	62	3068	0.4611509 ppb		88
44) DIBROMOMETHANE	4.923	93	2256	0.5288547 ppb		95
45) BROMODICHLOROMETHANE	4.997	83	5827	0.5198927 ppb	#	73
47) 2-CHLOROETHYL VINYL ETHER	5.309	63	6847	2.1367917 ppb	#	94
48) CIS-1,3-DICHLOROPROPENE	5.373	75	6556	0.4596463 ppb	#	87
49) 4-METHYL-2-PENTANONE (...	5.737	43	14772	2.3381392 ppb		97
51) TOLUENE	5.518	91	20261	0.5441551 ppb		97
52) TRANS-1,3-DICHLOROPROPENE	5.775	75	5515	0.4517324 ppb	#	90
54) 1,1,2-TRICHLOROETHANE	5.884	97	2907	0.4762620 ppb		87
55) TETRACHLOROETHENE	5.772	164	2760	0.5272766 ppb		95
56) 1,3-Dichloropropane	6.071	76	6065	0.5128284 ppb		99
57) 2-HEXANONE	6.280	58	10110	3.4984050 ppb		84
58) CHLORODIBROMOMETHANE	6.016	129	2720	0.4441725 ppb	#	90
59) 1,2-DIBROMOETHANE	6.190	107	2943	0.5163891 ppb		99
60) CHLOROBENZENE	6.524	112	10331	0.4950996 ppb		96
61) 1,1,1,2-TETRACHLOROETHANE	6.556	133	3188	0.5109587 ppb	#	92
62) ETHYLBENZENE	6.515	106	5459	0.4603737 ppb		88
63) M&P-XYLENE	6.611	106	14904	1.0051573 ppb		99
64) O-XYLENE	6.923	106	6706	0.4633832 ppb		85
65) STYRENE	6.958	104	9995	0.4179472 ppb		90
66) Bromoform	7.007	173	1550	0.4962019 ppb		98
67) Isopropylbenzene	7.135	105	18727	0.5055220 ppb		99
69) Bromobenzene	7.454	77	8770	0.4980939 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.499	83	3944	0.5370959 ppb	#	99
71) 1,2,3-TRICHLOROPROPANE	7.605	110	1033m	0.5167509 ppb		
72) TRANS-1,4-DICHLORO-2-B...	7.624	53	722	0.3316325 ppb	#	38
73) n-Propylbenzene	7.434	91	24166	0.5289217 ppb		99
74) 4-ETHYLTOLUENE	7.511	105	19137	0.5043806 ppb		99
75) 2-Chlorotoluene	7.576	126	4460	0.5477324 ppb		93
76) 4-Chlorotoluene	7.698	91	14710	0.5204981 ppb		97
77) 1,3,5-Trimethylbenzene	7.572	105	15465	0.4817620 ppb		99
78) tert-Butylbenzene	7.817	119	12649	0.5056671 ppb		96
79) 1,2,4-Trimethylbenzene	7.872	105	14845	0.4704339 ppb		93
80) sec-Butylbenzene	7.952	105	20216	0.5016299 ppb		96
81) 1,3-DICHLOROBENZENE	8.151	146	7607	0.5000742 ppb		99
82) p-Isopropyltoluene	8.055	119	16129	0.4971151 ppb		97
83) DICYCLOPENTADIENE	8.061	66	19718	0.4833747 ppb		98
85) 1,4-DICHLOROBENZENE	8.216	146	7919	0.5440333 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.216	105	17261	0.5488265 ppb		99
87) 1,2-DICHLOROBENZENE	8.556	146	7104	0.5327775 ppb		98
88) n-Butylbenzene	8.386	91	16081	0.5148757 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.193	157	600	0.6196551 ppb	#	54
90) 1,2,4-Trichlorobenzene	9.740	180	5416	0.6729082 ppb		89
91) HEXACHLORO-1,3-BUTADIENE	9.691	225	1995	0.4895543 ppb	#	77
92) Naphthalene	10.013	128	11517	0.6188363 ppb		100
93) 1,2,3-Trichlorobenzene	10.167	180	4584	0.6433660 ppb		98
94) 1-Methylnaphthalene	10.878	142	7728	0.8069828 ppb		96
95) 2-Methylnaphthalene	11.013	142	6302	0.7898002 ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 05A.D
Acq On : 13 Nov 2015 3:17 pm
Operator : 522
Sample : STD VMS 0.5 ppb 15K13424
Misc : water 15J30547
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:36:25 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

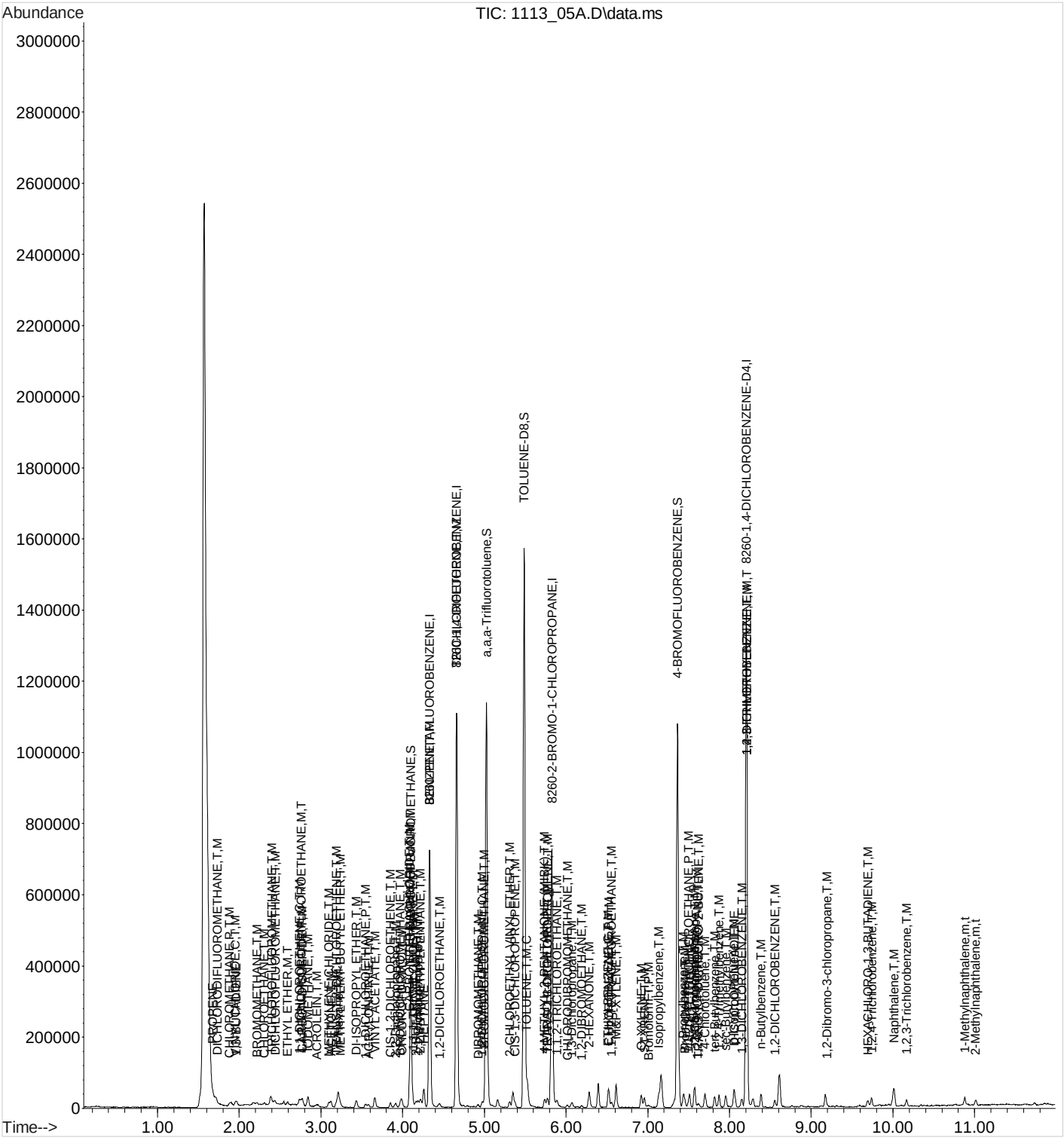
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 05A.D
Acq On : 13 Nov 2015 3:17 pm
Operator : 522
Sample : STD VMS 0.5 ppb 15K13424
Misc : water 15J30547
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:36:25 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 05A.D
Acq On    : 13 Nov 2015   3:17 pm
Operator  : 522
Sample    : STD VMS 0.5 ppb 15K13424
Misc      : water 15J30547
ALS Vial  : 5   Sample Multiplier: 1
InstName  : VOCMS20

Quant Time: Nov 16 10:33:14 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration
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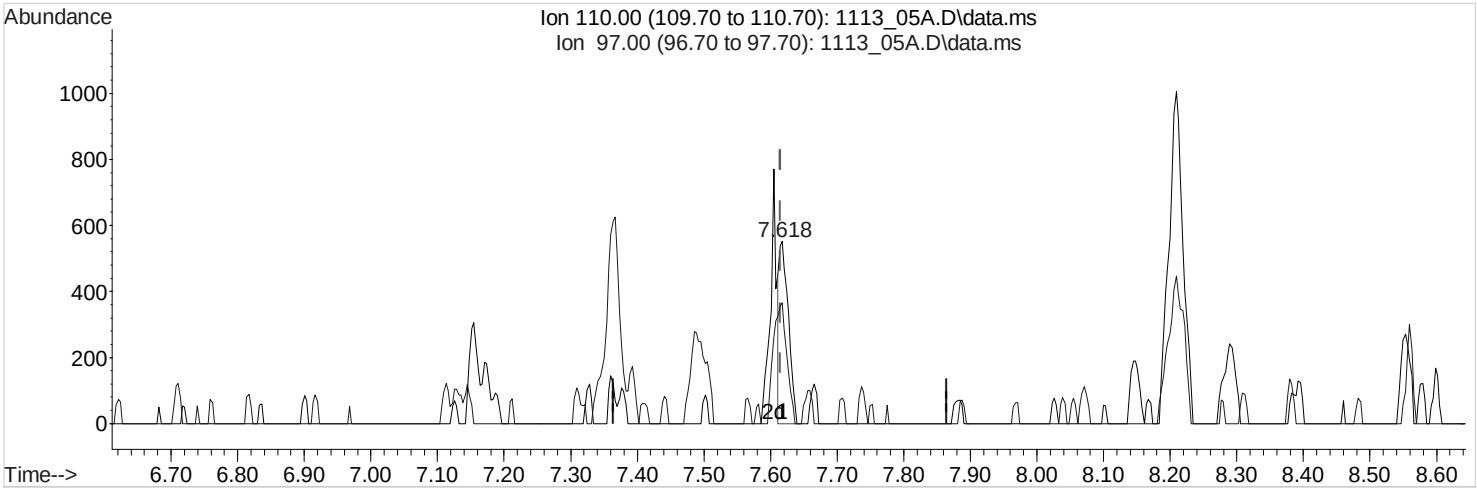

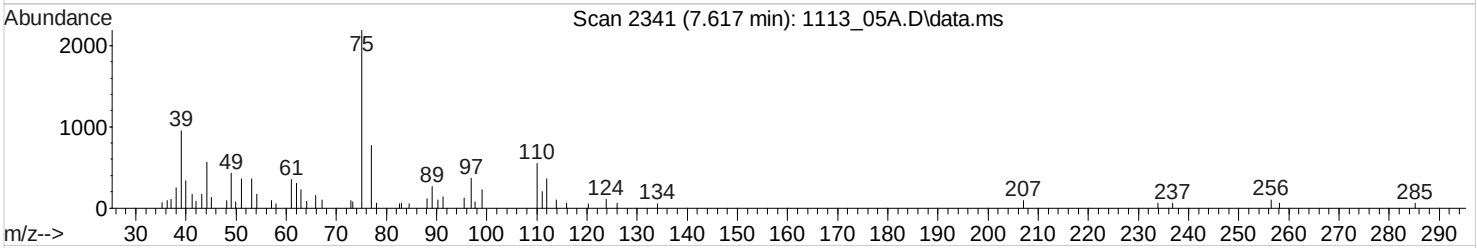

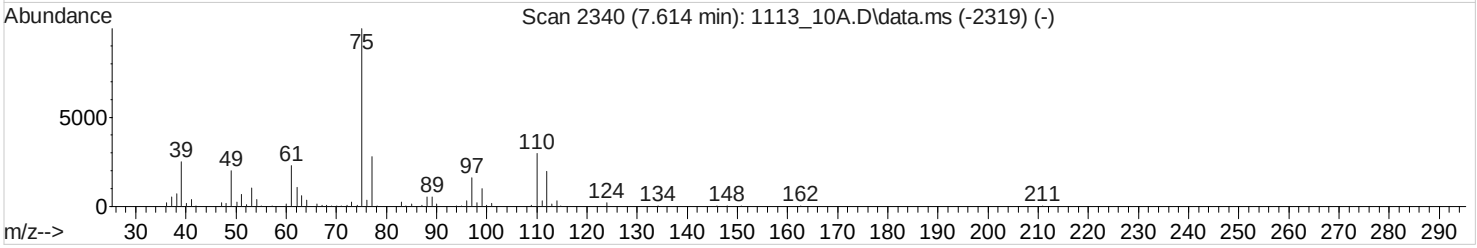

TIC: 1113_05A.D\data.ms

(71) 1,2,3-TRICHLOROPROPANE (T,M)

7.617min (+0.003) 0.2591258 ppb

Qvalue = 36

response 518

Ion	Exp%	Act%
110.00	100	100
97.00	53.80	99.61#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 05A.D
Acq On    : 13 Nov 2015   3:17 pm
Operator  : 522
Sample    : STD VMS 0.5 ppb 15K13424
Misc      : water 15J30547
ALS Vial  : 5   Sample Multiplier: 1
InstName  : VOCMS20

Quant Time: Nov 16 10:33:14 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration
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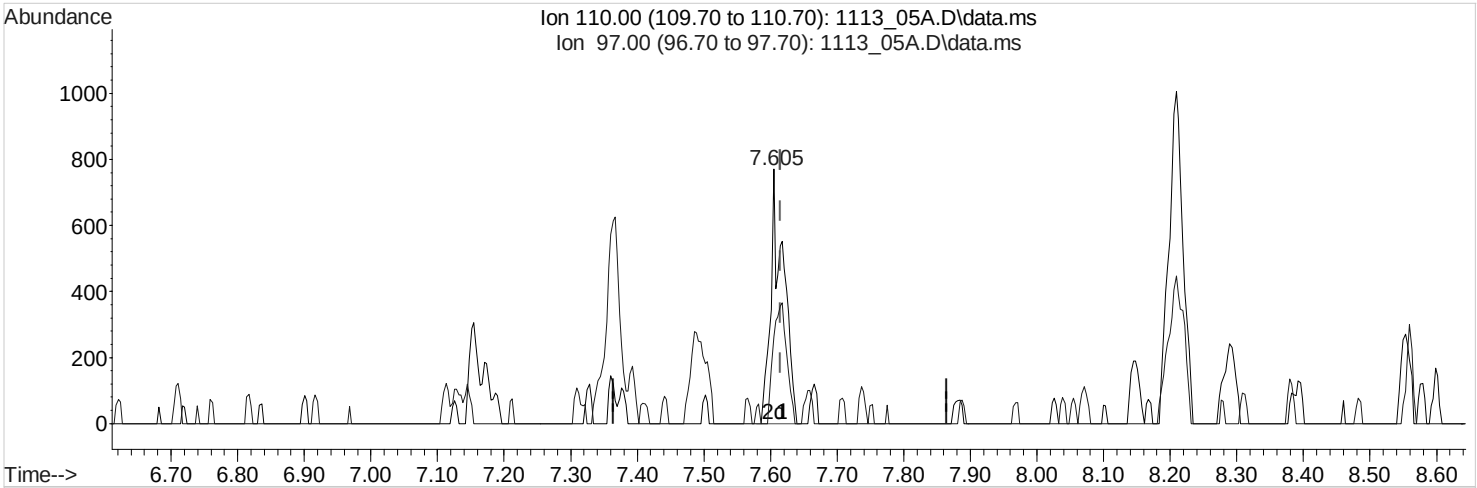
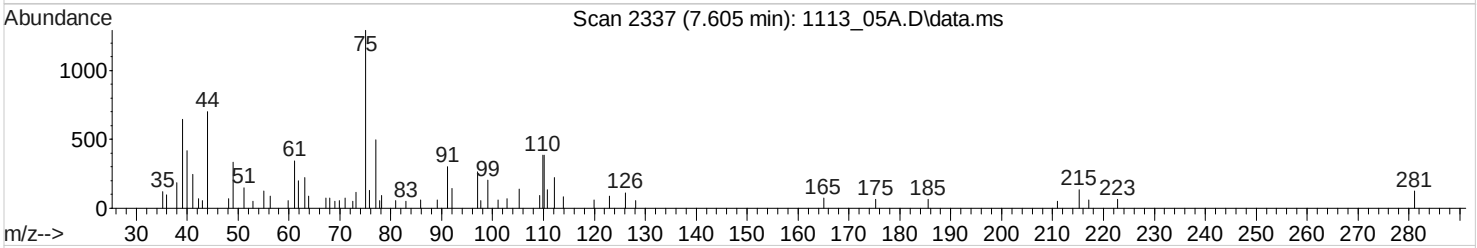
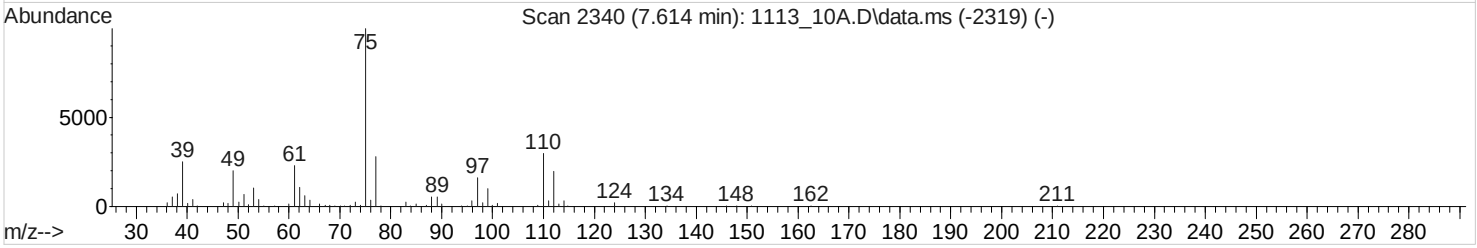






TIC: 1113_05A.D\data.ms

(71) 1,2,3-TRICHLOROPROPANE (T,M)

7.605min (-0.010) 0.5167509 ppb m

response 1033

Ion	Exp%	Act%
110.00	100	100
97.00	53.80	49.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 06A.D
Acq On : 13 Nov 2015 3:36 pm
Operator : 522
Sample : STD VMS 1 ppb 15K13424
Misc : water 15J30547
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:37:53 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.328	168	350946	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	685957	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	123321	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	301066	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.328	168	350946	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.66
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.83
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.21
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.097	111	200058	37.9835859 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 94.96%		
46) a,a,a-Trifluorotoluene	5.026	146	386443	41.4272857 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.57%		
50) TOLUENE-D8	5.486	98	919263	40.0247867 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 100.06%		
68) 4-BROMOFLUOROBENZENE	7.364	95	365160	40.3441959 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 100.86%		

Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-5666100m	Below Cal		
3) PROPENE	1.669	41	3879	2.5042399 ppb	#	72
4) DICHLORODIFLUOROMETHANE	1.724	85	7800	1.0264504 ppb		94
5) CHLOROMETHANE	1.878	50	10623	1.0505463 ppb		100
6) VINYL CHLORIDE	1.949	62	11713	1.0371534 ppb		99
7) 1,3-BUTADIENE	1.965	39	6627	0.9033093 ppb		99
8) BROMOMETHANE	2.213	94	7091	0.9901614 ppb		99
9) CHLOROETHANE	2.306	64	7659	1.0555331 ppb		97
10) TRICHLOROFLUOROMETHANE	2.393	101	12231	1.0799188 ppb		94
11) DICHLOROFLUOROMETHANE	2.435	67	16888	1.0284964 ppb		92
12) ETHYL ETHER	2.589	59	7651	0.9988345 ppb		95
13) ACROLEIN	2.949	56	4989	5.3480850 ppb		89
14) 1,1-DICHLOROETHENE	2.734	61	13334	1.0308058 ppb		96
15) 1,1,2-TRICHLOROTRIFLUO...	2.756	101	7354	1.0316273 ppb		98
16) ACETONE	3.119	43	25450	7.1798754 ppb		98
17) IODOMETHANE	2.840	142	52002	4.7361880 ppb		99
18) CARBON DISULFIDE	2.772	76	27234	1.0197966 ppb	#	80
19) METHYLENE CHLORIDE	3.097	84	8998	1.0323578 ppb		99
20) ACRYLONITRILE	3.582	53	10647	4.7710020 ppb		97
21) n-Hexane	3.209	56	13435	1.6065253 ppb		83
22) TRANS-1,2-DICHLOROETHENE	3.187	96	7872	0.9631068 ppb		98
23) METHYL TERT-BUTYL ETHER	3.232	73	20641	0.9237517 ppb	#	6
24) 1,1-DICHLOROETHANE	3.547	63	15418	0.9493562 ppb		96
25) VINYL ACETATE	3.660	43	65820	4.6085131 ppb		100
26) DI-ISOPROPYL ETHER	3.428	45	28144	0.9239783 ppb		100
27) 2,2-Dichloropropane	3.914	77	11839	0.9943020 ppb		95
28) CIS-1,2-DICHLOROETHENE	3.849	96	9163	1.0031607 ppb		94
29) 2-BUTANONE (MEK)	4.158	43	23024	6.0565194 ppb		96
30) BROMOCHLOROMETHANE	3.968	130	4295	0.9429242 ppb		98
31) TETRAHYDROFURAN	4.090	42	2587	1.3574537 ppb	#	89
32) CHLOROFORM	3.991	83	14082	0.9411255 ppb		96
34) 1,1,1-TRICHLOROETHANE	4.123	97	10752	0.9441385 ppb		96
35) CARBON TETRACHLORIDE	4.084	119	8451	0.9674653 ppb		94

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 06A.D
Acq On : 13 Nov 2015 3:36 pm
Operator : 522
Sample : STD VMS 1 ppb 15K13424
Misc : water 15J30547
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:37:53 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.187	75	10309	0.9233420 ppb		95
37) 2,2,4-TRIMETHYLPENTANE	4.219	57	34491	0.9310479 ppb		93
38) HEPTANE	4.258	43	22951	1.4550170 ppb		96
39) BENZENE	4.332	78	35552	0.9663509 ppb	#	80
40) 1,2-DICHLOROETHANE	4.451	62	10337	0.9149150 ppb		99
42) TRICHLOROETHENE	4.656	130	7659	1.0045195 ppb		96
43) 1,2-DICHLOROPROPANE	4.971	62	6344	0.9522707 ppb		99
44) DIBROMOMETHANE	4.923	93	4304	1.0075788 ppb		93
45) BROMODICHLOROMETHANE	4.997	83	10598	0.9442830 ppb	#	81
47) 2-CHLOROETHYL VINYL ETHER	5.309	63	13489	4.2038880 ppb		94
48) CIS-1,3-DICHLOROPROPENE	5.373	75	12902	0.9033403 ppb		95
49) 4-METHYL-2-PENTANONE (...	5.737	43	27751	4.3865110 ppb		99
51) TOLUENE	5.518	91	37905	1.0166416 ppb		96
52) TRANS-1,3-DICHLOROPROPENE	5.775	75	10978	0.8979838 ppb	#	93
54) 1,1,2-TRICHLOROETHANE	5.888	97	6486	1.0511853 ppb		97
55) TETRACHLOROETHENE	5.772	164	5225	0.9874545 ppb		90
56) 1,3-Dichloropropane	6.071	76	11269	0.9426015 ppb		91
57) 2-HEXANONE	6.280	58	15715	5.3794113 ppb		83
58) CHLORODIBROMOMETHANE	6.016	129	5713	0.9228869 ppb	#	95
59) 1,2-DIBROMOETHANE	6.190	107	5139	0.8920041 ppb		97
60) CHLOROBENZENE	6.524	112	21424	1.0156690 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.560	133	6133	0.9723930 ppb	#	99
62) ETHYLBENZENE	6.518	106	11986	0.9999380 ppb		97
63) M&P-XYLENE	6.611	106	29398	1.9613288 ppb		97
64) O-XYLENE	6.920	106	13243	0.9052416 ppb		96
65) STYRENE	6.958	104	22081	0.9133952 ppb		96
66) Bromoform	7.007	173	2515	0.7964640 ppb		91
67) Isopropylbenzene	7.132	105	35685	0.9529257 ppb		96
69) Bromobenzene	7.454	77	16851	0.9467574 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.495	83	6614	0.8910059 ppb		95
71) 1,2,3-TRICHLOROPROPANE	7.611	110	1982	0.9808125 ppb		97
72) TRANS-1,4-DICHLORO-2-B...	7.630	53	2042	0.9278485 ppb		95
73) n-Propylbenzene	7.438	91	45555	0.9863342 ppb		99
74) 4-ETHYLTOLUENE	7.511	105	35590	0.9279273 ppb		98
75) 2-Chlorotoluene	7.576	126	8375	1.0174657 ppb		93
76) 4-Chlorotoluene	7.698	91	27095	0.9484121 ppb		96
77) 1,3,5-Trimethylbenzene	7.573	105	29728	0.9161144 ppb		100
78) tert-Butylbenzene	7.817	119	24177	0.9561199 ppb		98
79) 1,2,4-Trimethylbenzene	7.872	105	30085	0.9431263 ppb		99
80) sec-Butylbenzene	7.952	105	38636	0.9483786 ppb		98
81) 1,3-DICHLOROBENZENE	8.151	146	14500	0.9429539 ppb		98
82) p-Isopropyltoluene	8.055	119	31428	0.9582255 ppb		97
83) DICYCLOPENTADIENE	8.061	66	39460	0.9569286 ppb		99
85) 1,4-DICHLOROBENZENE	8.219	146	14749	0.9988716 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.216	105	30995	0.9715222 ppb		94
87) 1,2-DICHLOROBENZENE	8.553	146	13338	0.9861105 ppb		99
88) n-Butylbenzene	8.386	91	31534	0.9953145 ppb		97
89) 1,2-Dibromo-3-chloropr...	9.200	157	1156	1.1769243 ppb		95
90) 1,2,4-Trichlorobenzene	9.740	180	9531	1.1673675 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.695	225	4371	1.0573790 ppb		90
92) Naphthalene	10.016	128	19522	1.0340765 ppb	#	94
93) 1,2,3-Trichlorobenzene	10.167	180	8029	1.1108794 ppb		98
94) 1-Methylnaphthalene	10.881	142	11688	1.2031764 ppb		97
95) 2-Methylnaphthalene	11.013	142	9434	1.1655385 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 06A.D
Acq On : 13 Nov 2015 3:36 pm
Operator : 522
Sample : STD VMS 1 ppb 15K13424
Misc : water 15J30547
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:37:53 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

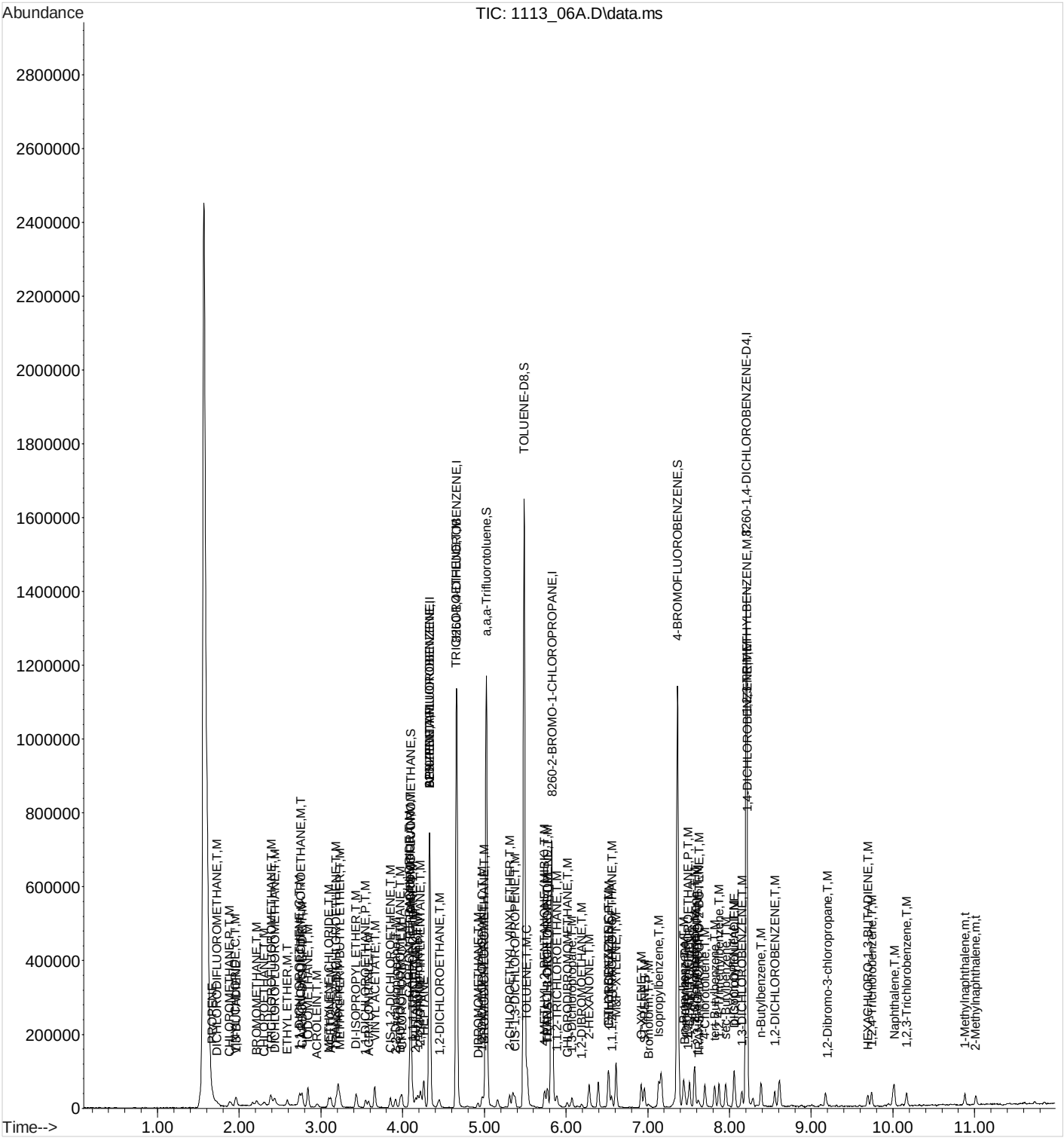
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 06A.D
Acq On : 13 Nov 2015 3:36 pm
Operator : 522
Sample : STD VMS 1 ppb 15K13424
Misc : water 15J30547
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:37:53 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 07A.D
Acq On : 13 Nov 2015 3:55 pm
Operator : 522
Sample : STD VMS 2 ppb 15K13424
Misc : water 15J30547
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:38:58 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.328	168	349964	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	680496	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.823	79	122083	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	289652	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.33
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.66
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.83
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.21
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.100	111	204475	38.9311454	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 97.33%			
46) a,a,a-Trifluorotoluene	5.026	146	391661	42.3236076	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 105.81%			
50) TOLUENE-D8	5.486	98	942817	41.3797599	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.45%			
68) 4-BROMOFLUOROBENZENE	7.364	95	371540	41.4653454	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.66%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-5392605m	Below Cal		
3) PROPENE	1.669	41	4062	2.6297411	ppb #	72
4) DICHLORODIFLUOROMETHANE	1.730	85	14384	1.8981912	ppb	97
5) CHLOROMETHANE	1.878	50	20681	2.0509567	ppb	97
6) VINYL CHLORIDE	1.952	62	23476	2.0845671	ppb	100
7) 1,3-BUTADIENE	1.965	39	15151	2.0709887	ppb	93
8) BROMOMETHANE	2.216	94	14951	2.0935613	ppb	96
9) CHLOROETHANE	2.303	64	15169	2.0963977	ppb	98
10) TRICHLOROFLUOROMETHANE	2.396	101	21705	1.9217897	ppb #	97
11) DICHLOROFLUOROMETHANE	2.435	67	33384	2.0388245	ppb	99
12) ETHYL ETHER	2.589	59	14875	1.9473734	ppb	99
13) ACROLEIN	2.949	56	9691	10.4176633	ppb	88
14) 1,1-DICHLOROETHENE	2.737	61	27290	2.1156161	ppb	95
15) 1,1,2-TRICHLOROTRIFLUO...	2.756	101	14443	2.0317652	ppb	97
16) ACETONE	3.119	43	37299	10.5522053	ppb	96
17) IODOMETHANE	2.843	142	107997	9.8636466	ppb	100
18) CARBON DISULFIDE	2.772	76	51835	1.9464451	ppb #	89
19) METHYLENE CHLORIDE	3.097	84	18629	2.1433384	ppb	97
20) ACRYLONITRILE	3.582	53	19171	8.6147769	ppb	93
21) n-Hexane	3.213	56	20609	2.4712902	ppb	94
22) TRANS-1,2-DICHLOROETHENE	3.190	96	15634	1.9181227	ppb	94
23) METHYL TERT-BUTYL ETHER	3.235	73	39195	1.7590254	ppb #	6
24) 1,1-DICHLOROETHANE	3.547	63	32740	2.0216070	ppb	99
25) VINYL ACETATE	3.660	43	138249	9.7069294	ppb	99
26) DI-ISOPROPYL ETHER	3.434	45	56733	1.8677925	ppb	97
27) 2,2-Dichloropropane	3.914	77	23680	1.9943525	ppb	98
28) CIS-1,2-DICHLOROETHENE	3.853	96	17537	1.9253293	ppb	95
29) 2-BUTANONE (MEK)	4.161	43	35607	9.3927908	ppb	98
30) BROMOCHLOROMETHANE	3.971	130	8731	1.9221820	ppb	96
31) TETRAHYDROFURAN	4.094	42	4177	2.1979104	ppb #	92
32) CHLOROFORM	3.994	83	29137	1.9527424	ppb	98
34) 1,1,1-TRICHLOROETHANE	4.126	97	21309	1.8764043	ppb	95
35) CARBON TETRACHLORIDE	4.084	119	16352	1.8772198	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 07A.D
Acq On : 13 Nov 2015 3:55 pm
Operator : 522
Sample : STD VMS 2 ppb 15K13424
Misc : water 15J30547
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:38:58 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.184	75	22611	2.0308728 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.219	57	69233	1.8741153 ppb		100
38) HEPTANE	4.258	43	38025	2.4174227 ppb		98
39) BENZENE	4.332	78	72857	1.9859075 ppb	#	88
40) 1,2-DICHLOROETHANE	4.451	62	23205	2.0596088 ppb		99
42) TRICHLOROETHENE	4.656	130	14922	1.9728072 ppb		94
43) 1,2-DICHLOROPROPANE	4.975	62	13224	2.0009277 ppb		98
44) DIBROMOMETHANE	4.923	93	8472	1.9992359 ppb		97
45) BROMODICHLOROMETHANE	4.997	83	20781	1.8664485 ppb		92
47) 2-CHLOROETHYL VINYL ETHER	5.309	63	27178	8.5380795 ppb	#	99
48) CIS-1,3-DICHLOROPROPENE	5.373	75	27105	1.9130005 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.737	43	55475	8.8391237 ppb		88
51) TOLUENE	5.521	91	76360	2.0644702 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.775	75	22144	1.8258819 ppb	#	99
54) 1,1,2-TRICHLOROETHANE	5.888	97	12202	1.9976306 ppb		97
55) TETRACHLOROETHENE	5.769	164	10641	2.0313984 ppb		97
56) 1,3-Dichloropropane	6.071	76	23349	1.9728445 ppb		94
57) 2-HEXANONE	6.280	58	27371	9.4643954 ppb		97
58) CHLORODIBROMOMETHANE	6.013	129	11896	1.9411855 ppb		96
59) 1,2-DIBROMOETHANE	6.190	107	11571	2.0288081 ppb		98
60) CHLOROBENZENE	6.524	112	42766	2.0480102 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.557	133	12062	1.9318351 ppb	#	97
62) ETHYLBENZENE	6.515	106	24388	2.0552130 ppb		94
63) M&P-XYLENE	6.611	106	59237	3.9921561 ppb		100
64) O-XYLENE	6.920	106	28781	1.9873111 ppb		98
65) STYRENE	6.958	104	45334	1.8942875 ppb		97
66) Bromoform	7.007	173	5858	1.8739559 ppb		97
67) Isopropylbenzene	7.132	105	70105	1.8910550 ppb		99
69) Bromobenzene	7.454	77	36285	2.0593114 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.495	83	14444	1.9655573 ppb		94
71) 1,2,3-TRICHLOROPROPANE	7.614	110	3899	1.9490251 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.630	53	3956	1.8157643 ppb		95
73) n-Propylbenzene	7.434	91	85226	1.8639831 ppb		99
74) 4-ETHYLTOLUENE	7.512	105	70062	1.8452292 ppb		97
75) 2-Chlorotoluene	7.576	126	16700	2.0494310 ppb		91
76) 4-Chlorotoluene	7.698	91	55059	1.9467855 ppb		97
77) 1,3,5-Trimethylbenzene	7.569	105	57870	1.8014382 ppb		98
78) tert-Butylbenzene	7.820	119	45039	1.7992046 ppb		99
79) 1,2,4-Trimethylbenzene	7.872	105	57447	1.8191521 ppb		98
80) sec-Butylbenzene	7.952	105	71473	1.7722029 ppb		100
81) 1,3-DICHLOROBENZENE	8.151	146	29224	1.9197467 ppb		100
82) p-Isopropyltoluene	8.055	119	56411	1.7373871 ppb		98
83) DICYCLOPENTADIENE	8.061	66	73710	1.8056382 ppb		99
85) 1,4-DICHLOROBENZENE	8.219	146	29645	2.0868139 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.216	105	59631	1.9427565 ppb		99
87) 1,2-DICHLOROBENZENE	8.553	146	25226	1.9385118 ppb		97
88) n-Butylbenzene	8.386	91	52498	1.7223016 ppb		98
89) 1,2-Dibromo-3-chloropr...	9.193	157	1707	1.8063812 ppb	#	82
90) 1,2,4-Trichlorobenzene	9.740	180	15144	1.9279462 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.695	225	6983	1.7558083 ppb		97
92) Naphthalene	10.013	128	33030	1.8185369 ppb		95
93) 1,2,3-Trichlorobenzene	10.167	180	11721	1.6856030 ppb		98
94) 1-Methylnaphthalene	10.881	142	16708	1.7877169 ppb		96
95) 2-Methylnaphthalene	11.016	142	13887	1.7832999 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 07A.D
Acq On : 13 Nov 2015 3:55 pm
Operator : 522
Sample : STD VMS 2 ppb 15K13424
Misc : water 15J30547
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:38:58 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

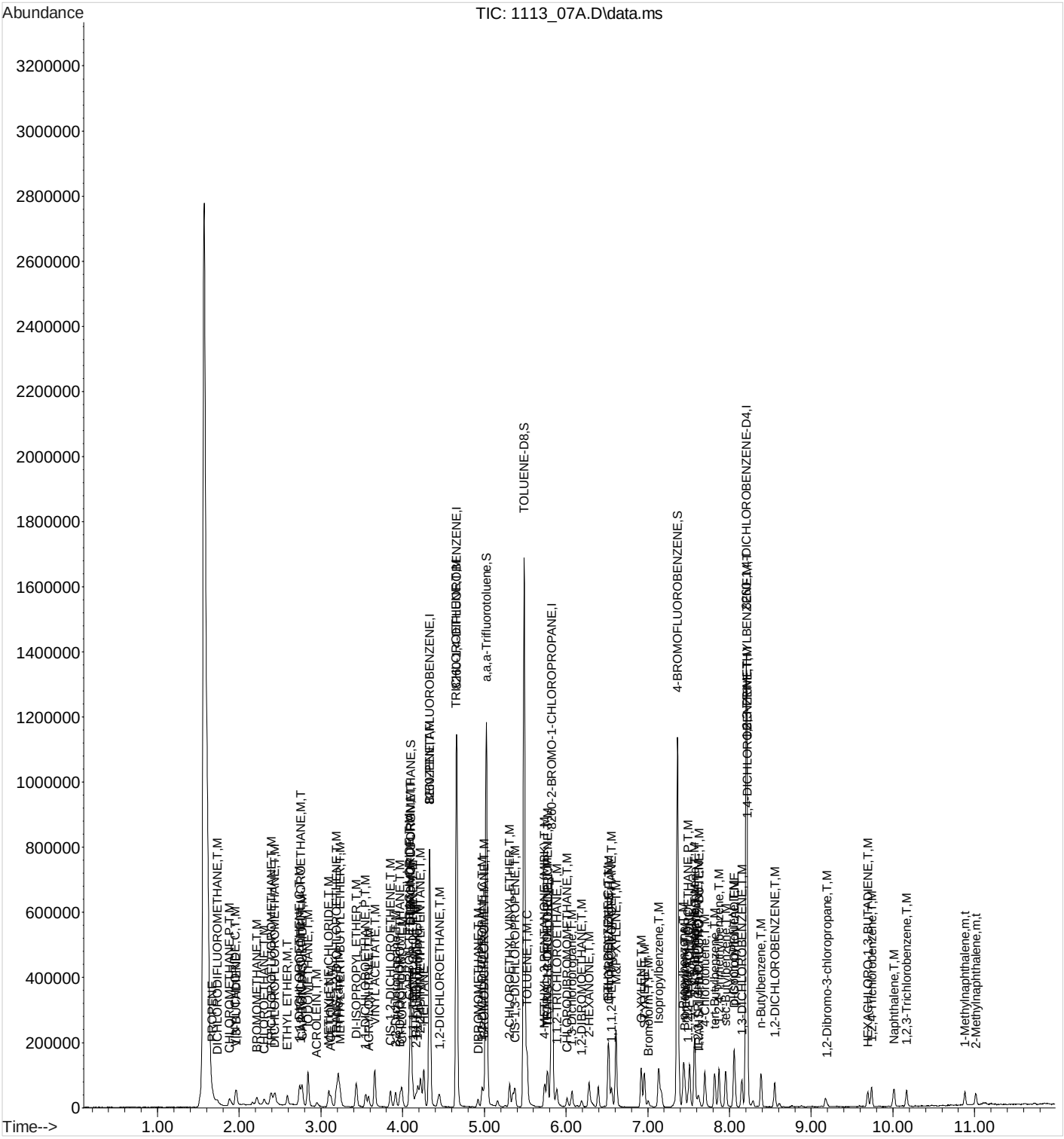
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 07A.D
Acq On : 13 Nov 2015 3:55 pm
Operator : 522
Sample : STD VMS 2 ppb 15K13424
Misc : water 15J30547
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:38:58 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 08A.D
Acq On : 13 Nov 2015 4:14 pm
Operator : 522
Sample : STD VMS 5 ppb 15K13424
Misc : water 15J30547
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:40:03 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.332	168	356949	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	704671	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	124564	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	286799	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.33
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.66
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.83
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.21
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.097	111	218987	40.8782694 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 102.20%		
46) a,a,a-Trifluorotoluene	5.023	146	400886	41.8342915 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.59%		
50) TOLUENE-D8	5.486	98	993084	42.0906589 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.23%		
68) 4-BROMOFLUOROBENZENE	7.364	95	382065	41.7906968 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.48%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-5487255m	Below Cal	
3) PROPENE	1.669	41	9048	5.7430535 ppb	91
4) DICHLORODIFLUOROMETHANE	1.730	85	36343	4.7021692 ppb	99
5) CHLOROMETHANE	1.881	50	49909	4.8526730 ppb	98
6) VINYL CHLORIDE	1.952	62	56144	4.8877876 ppb	99
7) 1,3-BUTADIENE	1.965	39	33528	4.4932571 ppb	94
8) BROMOMETHANE	2.216	94	32247	4.4271269 ppb	96
9) CHLOROETHANE	2.306	64	35460	4.8047706 ppb	99
10) TRICHLOROFLUOROMETHANE	2.396	101	54800	4.7571169 ppb	98
11) DICHLOROFLUOROMETHANE	2.438	67	79784	4.7772115 ppb	99
12) ETHYL ETHER	2.589	59	38701	4.9674288 ppb	94
13) ACROLEIN	2.949	56	23924	25.2146369 ppb	93
14) 1,1-DICHLOROETHENE	2.737	61	62530	4.7526842 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.756	101	35008	4.8283708 ppb	98
16) ACETONE	3.119	43	86714	24.0520704 ppb	97
17) IODOMETHANE	2.840	142	263690	23.6122122 ppb	99
18) CARBON DISULFIDE	2.772	76	126743	4.6661666 ppb	98
19) METHYLENE CHLORIDE	3.097	84	42925	4.8420437 ppb	99
20) ACRYLONITRILE	3.582	53	50015	22.0351871 ppb	99
21) n-Hexane	3.213	56	44036	5.1771636 ppb	94
22) TRANS-1,2-DICHLOROETHENE	3.187	96	39448	4.7451339 ppb	99
23) METHYL TERT-BUTYL ETHER	3.232	73	104491	4.5976672 ppb	89
24) 1,1-DICHLOROETHANE	3.547	63	78185	4.7332419 ppb	100
25) VINYL ACETATE	3.660	43	349339	24.0482869 ppb	99
26) DI-ISOPROPYL ETHER	3.431	45	144891	4.6768291 ppb	99
27) 2,2-Dichloropropane	3.914	77	56530	4.6678449 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.852	96	43324	4.6633228 ppb	97
29) 2-BUTANONE (MEK)	4.161	43	88116	22.7893133 ppb	99
30) BROMOCHLOROMETHANE	3.971	130	22186	4.7888004 ppb	99
31) TETRAHYDROFURAN	4.094	42	9447	4.8736758 ppb #	87
32) CHLOROFORM	3.991	83	72782	4.7823495 ppb	98
34) 1,1,1-TRICHLOROETHANE	4.123	97	54688	4.7214197 ppb	98
35) CARBON TETRACHLORIDE	4.084	119	41428	4.6628925 ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 08A.D
Acq On : 13 Nov 2015 4:14 pm
Operator : 522
Sample : STD VMS 5 ppb 15K13424
Misc : water 15J30547
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:40:03 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.187	75	54699	4.8168104 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.219	57	169946	4.5103611 ppb		100
38) HEPTANE	4.258	43	80105	4.9929842 ppb		99
39) BENZENE	4.332	78	182254	4.8705949 ppb		99
40) 1,2-DICHLOROETHANE	4.450	62	55113	4.7959475 ppb		98
42) TRICHLOROETHENE	4.656	130	36554	4.6669344 ppb		98
43) 1,2-DICHLOROPROPANE	4.971	62	31605	4.6181021 ppb		99
44) DIBROMOMETHANE	4.920	93	20736	4.7254400 ppb		98
45) BROMODICHLOROMETHANE	4.997	83	52391	4.5440745 ppb		96
47) 2-CHLOROETHYL VINYL ETHER	5.309	63	67513	20.4818548 ppb		98
48) CIS-1,3-DICHLOROPROPENE	5.373	75	67001	4.5665281 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.737	43	133050	20.4722679 ppb		97
51) TOLUENE	5.518	91	180573	4.7144897 ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.775	75	55539	4.4223574 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.885	97	30211	4.8474341 ppb		98
55) TETRACHLOROETHENE	5.772	164	26502	4.9585416 ppb		98
56) 1,3-Dichloropropane	6.074	76	59190	4.9015740 ppb		99
57) 2-HEXANONE	6.277	58	64000	21.6892649 ppb		95
58) CHLORODIBROMOMETHANE	6.013	129	30332	4.8509832 ppb		98
59) 1,2-DIBROMOETHANE	6.190	107	27754	4.7693402 ppb		99
60) CHLOROBENZENE	6.524	112	102302	4.8015367 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.560	133	30739	4.8250643 ppb	#	97
62) ETHYLBENZENE	6.515	106	57906	4.7826308 ppb		100
63) M&P-XYLENE	6.611	106	146050	9.6466977 ppb		97
64) O-XYLENE	6.920	106	70822	4.7928167 ppb		99
65) STYRENE	6.958	104	110724	4.5344672 ppb		98
66) Bromoform	7.003	173	14553	4.5627343 ppb		98
67) Isopropylbenzene	7.132	105	172329	4.5559209 ppb		99
69) Bromobenzene	7.454	77	84054	4.6753693 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.495	83	34356	4.5820884 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.614	110	9921	4.8605151 ppb		91
72) TRANS-1,4-DICHLORO-2-B...	7.630	53	9620	4.3275382 ppb		95
73) n-Propylbenzene	7.434	91	207895	4.4563220 ppb		99
74) 4-ETHYLTOLUENE	7.511	105	168287	4.3439120 ppb		100
75) 2-Chlorotoluene	7.576	126	38940	4.6835528 ppb		98
76) 4-Chlorotoluene	7.698	91	132421	4.5889073 ppb		98
77) 1,3,5-Trimethylbenzene	7.569	105	145366	4.4349769 ppb		99
78) tert-Butylbenzene	7.820	119	109421	4.2840560 ppb		99
79) 1,2,4-Trimethylbenzene	7.872	105	139235	4.3212833 ppb		99
80) sec-Butylbenzene	7.952	105	168724	4.1002558 ppb		99
81) 1,3-DICHLOROBENZENE	8.151	146	69783	4.4927946 ppb		99
82) p-Isopropyltoluene	8.052	119	132058	3.9862099 ppb		99
83) DICYCLOPENTADIENE	8.065	66	183559	4.4069959 ppb		99
85) 1,4-DICHLOROBENZENE	8.219	146	70004	4.9768439 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.216	105	149274	4.9116719 ppb		99
87) 1,2-DICHLOROBENZENE	8.553	146	63138	4.9001546 ppb		99
88) n-Butylbenzene	8.386	91	125895	4.1713231 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.196	157	4382	4.6832481 ppb		97
90) 1,2,4-Trichlorobenzene	9.736	180	32250	4.1465119 ppb		96
91) HEXACHLORO-1,3-BUTADIENE	9.691	225	14855	3.7723033 ppb		98
92) Naphthalene	10.016	128	75838	4.2169583 ppb		99
93) 1,2,3-Trichlorobenzene	10.167	180	27886	4.0501933 ppb		98
94) 1-Methylnaphthalene	10.881	142	35427	3.8283141 ppb		94
95) 2-Methylnaphthalene	11.013	142	29102	3.7743110 ppb		93

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 08A.D
Acq On : 13 Nov 2015 4:14 pm
Operator : 522
Sample : STD VMS 5 ppb 15K13424
Misc : water 15J30547
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:40:03 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

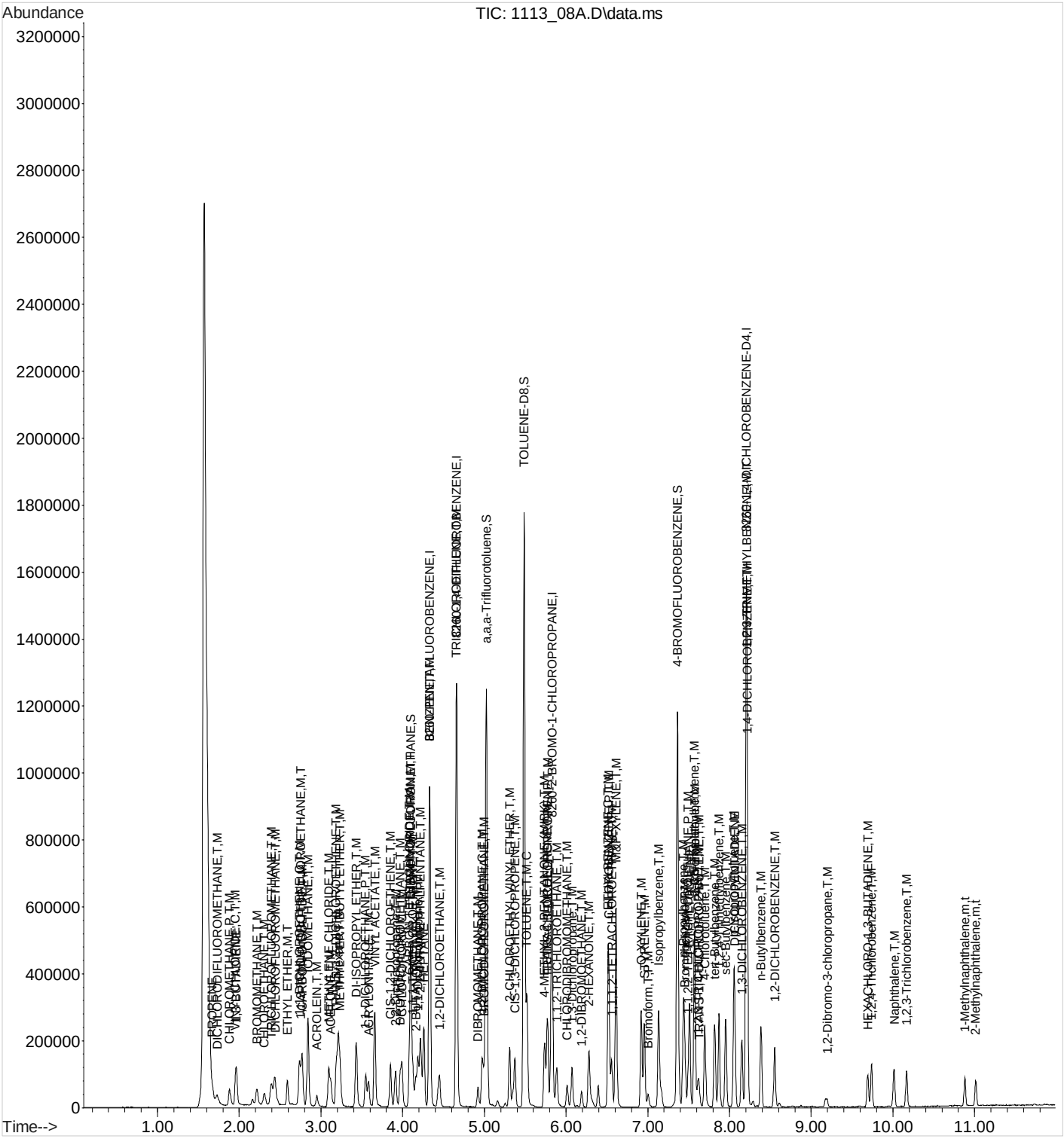
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 08A.D
Acq On : 13 Nov 2015 4:14 pm
Operator : 522
Sample : STD VMS 5 ppb 15K13424
Misc : water 15J30547
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:40:03 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 09A.D
Acq On : 13 Nov 2015 4:33 pm
Operator : 522
Sample : STD VMS 10 ppb 15K13424
Misc : water
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:41:08 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.331	168	364666	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.659	114	704877	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	126526	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	321460	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.33
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.66
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.83
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.21
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.097	111	226285	41.3466978 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.37%		
46) a,a,a-Trifluorotoluene	5.023	146	420971	43.9174147 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 109.79%		
50) TOLUENE-D8	5.486	98	1029399	43.6170752 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 109.04%		
68) 4-BROMOFLUOROBENZENE	7.363	95	417239	44.9303727 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 112.33%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-4709785m	Below Cal	
3) PROPENE	1.669	41	17989	11.1765610 ppb	99
4) DICHLORODIFLUOROMETHANE	1.730	85	80406	10.1830256 ppb	100
5) CHLOROMETHANE	1.878	50	107127	10.1955815 ppb	98
6) VINYL CHLORIDE	1.955	62	117190	9.9864338 ppb	99
7) 1,3-BUTADIENE	1.965	39	75594	9.9163500 ppb	99
8) BROMOMETHANE	2.213	94	73289	9.8487779 ppb	99
9) CHLOROETHANE	2.306	64	74165	9.8365731 ppb	98
10) TRICHLOROFLUOROMETHANE	2.396	101	115959	9.8532301 ppb	98
11) DICHLOROFLUOROMETHANE	2.434	67	169865	9.9557382 ppb	98
12) ETHYL ETHER	2.589	59	80036	10.0555478 ppb	97
13) ACROLEIN	2.949	56	48622	50.1605905 ppb	96
14) 1,1-DICHLOROETHENE	2.737	61	132300	9.8428592 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.756	101	71092	9.5976508 ppb	97
16) ACETONE	3.119	43	186501	50.6355239 ppb	100
17) IODOMETHANE	2.843	142	547641	48.0009538 ppb	99
18) CARBON DISULFIDE	2.772	76	259478	9.3507769 ppb	98
19) METHYLENE CHLORIDE	3.097	84	88188	9.7373054 ppb	99
20) ACRYLONITRILE	3.579	53	113817	49.0833843 ppb	98
21) n-Hexane	3.213	56	86770	9.9853782 ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.190	96	81403	9.5846175 ppb	98
23) METHYL TERT-BUTYL ETHER	3.232	73	227938	9.8171693 ppb	99
24) 1,1-DICHLOROETHANE	3.547	63	166022	9.8381129 ppb	99
25) VINYL ACETATE	3.656	43	759097	51.1499536 ppb	99
26) DI-ISOPROPYL ETHER	3.431	45	310632	9.8144774 ppb	100
27) 2,2-Dichloropropane	3.913	77	123065	9.9467885 ppb	97
28) CIS-1,2-DICHLOROETHENE	3.852	96	92844	9.7820903 ppb	99
29) 2-BUTANONE (MEK)	4.158	43	193535	48.9944491 ppb	99
30) BROMOCHLOROMETHANE	3.968	130	48144	10.1718699 ppb	93
31) TETRAHYDROFURAN	4.094	42	18832	9.5097710 ppb	97
32) CHLOROFORM	3.991	83	151394	9.7372627 ppb	100
34) 1,1,1-TRICHLOROETHANE	4.122	97	113004	9.5496021 ppb	98
35) CARBON TETRACHLORIDE	4.084	119	84390	9.2974387 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 09A.D
Acq On : 13 Nov 2015 4:33 pm
Operator : 522
Sample : STD VMS 10 ppb 15K13424
Misc : water
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:41:08 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	4.184	75	111052	9.5723251 ppb		98
37)	2,2,4-TRIMETHYLPENTANE	4.219	57	367075	9.5359962 ppb		98
38)	HEPTANE	4.258	43	161369	9.8453593 ppb		98
39)	BENZENE	4.331	78	368735	9.6456212 ppb		99
40)	1,2-DICHLOROETHANE	4.450	62	115782	9.8621662 ppb		99
42)	TRICHLOROETHENE	4.656	130	76854	9.8092618 ppb		99
43)	1,2-DICHLOROPROPANE	4.975	62	67183	9.8138674 ppb		99
44)	DIBROMOMETHANE	4.920	93	44206	10.0709756 ppb		98
45)	BROMODICHLOROMETHANE	4.997	83	113434	9.8356951 ppb		98
47)	2-CHLOROETHYL VINYL ETHER	5.309	63	151578	45.9717576 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.373	75	142223	9.6905347 ppb		98
49)	4-METHYL-2-PENTANONE (...	5.737	43	319241	49.1069317 ppb		100
51)	TOLUENE	5.518	91	380382	9.9283001 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.775	75	120067	9.5576804 ppb		98
54)	1,1,2-TRICHLOROETHANE	5.888	97	64690	10.2187255 ppb		97
55)	TETRACHLOROETHENE	5.769	164	54540	10.0462321 ppb		99
56)	1,3-Dichloropropane	6.071	76	124150	10.1215429 ppb		99
57)	2-HEXANONE	6.277	58	152051	50.7302389 ppb		100
58)	CHLORODIBROMOMETHANE	6.013	129	62532	9.8456369 ppb		98
59)	1,2-DIBROMOETHANE	6.190	107	60167	10.1789702 ppb		95
60)	CHLOROBENZENE	6.524	112	222591	10.2852888 ppb		98
61)	1,1,1,2-TETRACHLOROETHANE	6.556	133	67147	10.3765444 ppb	#	97
62)	ETHYLBENZENE	6.515	106	124788	10.1467950 ppb		100
63)	M&P-XYLENE	6.611	106	311308	20.2432462 ppb		99
64)	O-XYLENE	6.920	106	153422	10.2216979 ppb		98
65)	STYRENE	6.955	104	242745	9.7869543 ppb		100
66)	Bromoform	7.003	173	31919	9.8522334 ppb		100
67)	Isopropylbenzene	7.132	105	391239	10.1829290 ppb		99
69)	Bromobenzene	7.450	77	188239	10.3081306 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.495	83	78831	10.3507227 ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.614	110	21067	10.1611370 ppb		99
72)	TRANS-1,4-DICHLORO-2-B...	7.630	53	23306	10.3215839 ppb		94
73)	n-Propylbenzene	7.434	91	478633	10.1006176 ppb		100
74)	4-ETHYLTOLUENE	7.511	105	390342	9.9194706 ppb		99
75)	2-Chlorotoluene	7.576	126	87659	10.3797945 ppb		96
76)	4-Chlorotoluene	7.695	91	291525	9.9458292 ppb		99
77)	1,3,5-Trimethylbenzene	7.569	105	335557	10.0787714 ppb		99
78)	tert-Butylbenzene	7.817	119	263399	10.1526953 ppb		99
79)	1,2,4-Trimethylbenzene	7.872	105	328877	10.0487163 ppb		100
80)	sec-Butylbenzene	7.952	105	417636	9.9918241 ppb		98
81)	1,3-DICHLOROBENZENE	8.151	146	157324	9.9718256 ppb		99
82)	p-Isopropyltoluene	8.052	119	338759	10.0669766 ppb		100
83)	DICYCLOPENTADIENE	8.061	66	431134	10.1904181 ppb		100
85)	1,4-DICHLOROBENZENE	8.219	146	158537	10.0557042 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.216	105	343915	10.0959453 ppb		100
87)	1,2-DICHLOROBENZENE	8.553	146	146577	10.1492859 ppb		99
88)	n-Butylbenzene	8.386	91	335754	9.9251536 ppb		100
89)	1,2-Dibromo-3-chloropr...	9.196	157	10233	9.7572730 ppb		97
90)	1,2,4-Trichlorobenzene	9.736	180	86615	9.9356664 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.691	225	45477	10.3033024 ppb		98
92)	Naphthalene	10.013	128	200855	9.9642767 ppb		99
93)	1,2,3-Trichlorobenzene	10.167	180	76595	9.9252314 ppb		98
94)	1-Methylnaphthalene	10.881	142	103339	9.9629541 ppb		99
95)	2-Methylnaphthalene	11.013	142	87534	10.1284343 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 09A.D
Acq On : 13 Nov 2015 4:33 pm
Operator : 522
Sample : STD VMS 10 ppb 15K13424
Misc : water
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:41:08 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

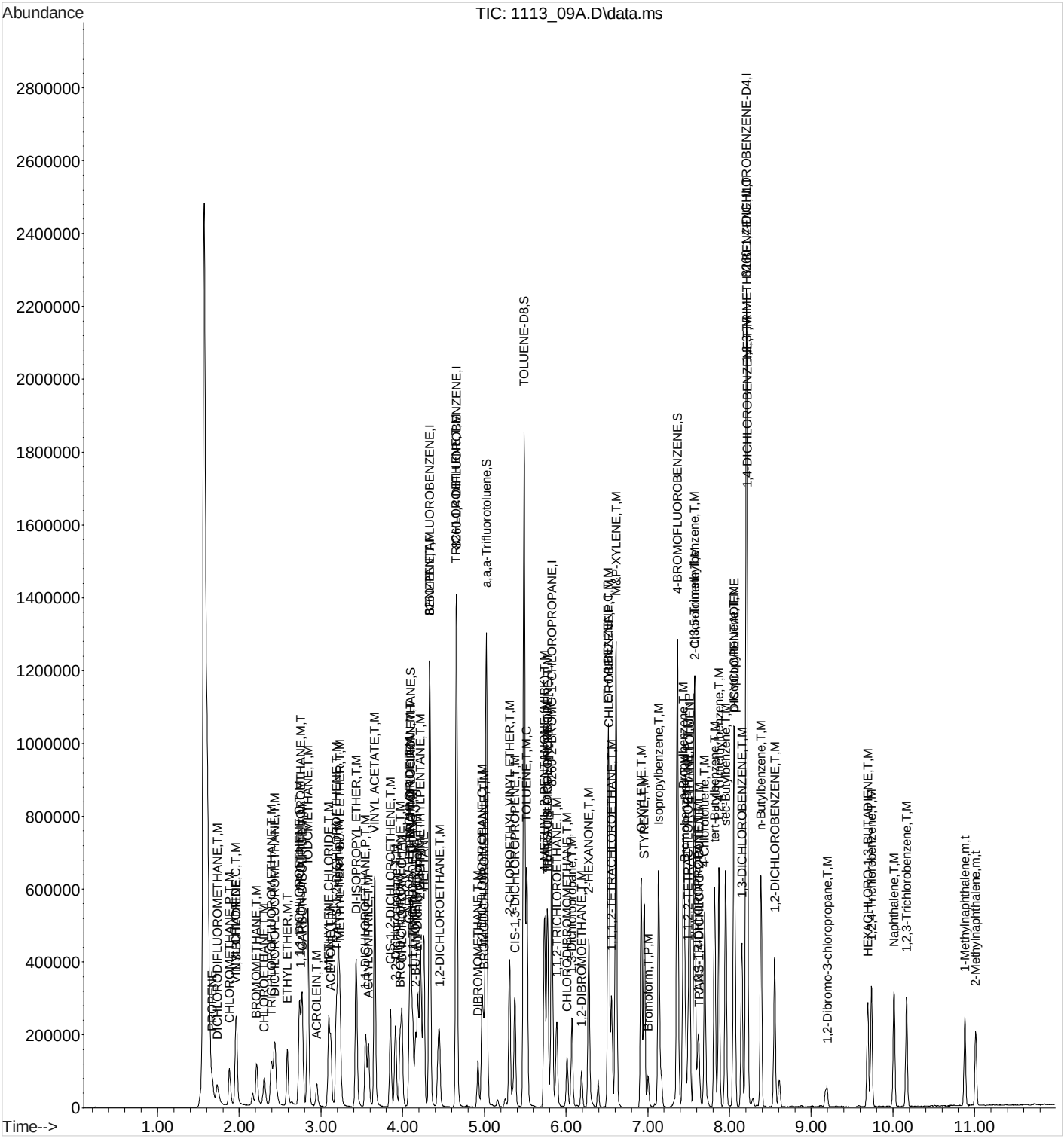
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 09A.D
Acq On : 13 Nov 2015 4:33 pm
Operator : 522
Sample : STD VMS 10 ppb 15K13424
Misc : water
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:41:08 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 10A.D
Acq On : 13 Nov 2015 4:53 pm
Operator : 522
Sample : MSTD VMS 25 ppb 15K13424
Misc : water 15J30547
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:32:44 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.331	168	354840	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.659	114	698806	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.823	79	129064	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	326157	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.33
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.66
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.83
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.21
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.097	111	239643	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 112.50%			
46) a,a,a-Trifluorotoluene	5.026	146	427633	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 112.50%			
50) TOLUENE-D8	5.486	98	1052890	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 112.50%			
68) 4-BROMOFLUOROBENZENE	7.363	95	426268	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 112.50%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	5305270m	10.0000000	ppm	
3) PROPENE	1.672	41	39154	25.0000000	ppb	100
4) DICHLORODIFLUOROMETHANE	1.730	85	192083	25.0000000	ppb	100
5) CHLOROMETHANE	1.881	50	255602	25.0000000	ppb	100
6) VINYL CHLORIDE	1.955	62	285468	25.0000000	ppb	100
7) 1,3-BUTADIENE	1.968	39	185444	25.0000000	ppb	100
8) BROMOMETHANE	2.213	94	181023	25.0000000	ppb	100
9) CHLOROETHANE	2.306	64	183414	25.0000000	ppb	100
10) TRICHLOROFLUOROMETHANE	2.396	101	286288	25.0000000	ppb	100
11) DICHLOROFLUOROMETHANE	2.434	67	415057	25.0000000	ppb	100
12) ETHYL ETHER	2.589	59	193623	25.0000000	ppb	100
13) ACROLEIN	2.949	56	117901	125.0000000	ppb	100
14) 1,1-DICHLOROETHENE	2.737	61	326976	25.0000000	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.756	101	180191	25.0000000	ppb	100
16) ACETONE	3.119	43	447995	125.0000000	ppb	100
17) IODOMETHANE	2.843	142	1387693	125.0000000	ppb	100
18) CARBON DISULFIDE	2.772	76	675041	25.0000000	ppb	100
19) METHYLENE CHLORIDE	3.097	84	220317	25.0000000	ppb	100
20) ACRYLONITRILE	3.582	53	282046	125.0000000	ppb	100
21) n-Hexane	3.212	56	211389	25.0000000	ppb	100
22) TRANS-1,2-DICHLOROETHENE	3.190	96	206606	25.0000000	ppb	100
23) METHYL TERT-BUTYL ETHER	3.232	73	564817	25.0000000	ppb	100
24) 1,1-DICHLOROETHANE	3.547	63	410517	25.0000000	ppb	100
25) VINYL ACETATE	3.659	43	1805092	125.0000000	ppb	100
26) DI-ISOPROPYL ETHER	3.431	45	769939	25.0000000	ppb	100
27) 2,2-Dichloropropane	3.913	77	300974	25.0000000	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.852	96	230887	25.0000000	ppb	100
29) 2-BUTANONE (MEK)	4.158	43	480374	124.9768453	ppb	100
30) BROMOCHLOROMETHANE	3.971	130	115138	25.0000000	ppb	100
31) TETRAHYDROFURAN	4.093	42	48173	25.0000000	ppb	100
32) CHLOROFORM	3.991	83	378224	25.0000000	ppb	100
34) 1,1,1-TRICHLOROETHANE	4.122	97	287863	25.0000000	ppb	100
35) CARBON TETRACHLORIDE	4.084	119	221293	25.0554793	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 10A.D
Acq On : 13 Nov 2015 4:53 pm
Operator : 522
Sample : MSTD VMS 25 ppb 15K13424
Misc : water 15J30547
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:32:44 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,1-Dichloropropene	4.187	75	282219	25.0000000	ppb	100
37) 2,2,4-TRIMETHYLPENTANE	4.219	57	936410	25.0000000	ppb	100
38) HEPTANE	4.257	43	398718	25.0000000	ppb	100
39) BENZENE	4.331	78	929956	25.0000538	ppb	100
40) 1,2-DICHLOROETHANE	4.450	62	285592	25.0000000	ppb	100
42) TRICHLOROETHENE	4.656	130	194184	25.0000000	ppb	100
43) 1,2-DICHLOROPROPANE	4.974	62	169669	25.0000000	ppb	100
44) DIBROMOMETHANE	4.920	93	108791	25.0000000	ppb	100
45) BROMODICHLOROMETHANE	4.997	83	285839	25.0000000	ppb	100
47) 2-CHLOROETHYL VINYL ETHER	5.309	63	408600	125.0000000	ppb	100
48) CIS-1,3-DICHLOROPROPENE	5.373	75	363752	25.0000000	ppb	100
49) 4-METHYL-2-PENTANONE (...	5.737	43	805618	125.0000000	ppb	100
51) TOLUENE	5.521	91	949573	25.0000000	ppb	100
52) TRANS-1,3-DICHLOROPROPENE	5.775	75	311354	25.0000000	ppb	100
54) 1,1,2-TRICHLOROETHANE	5.884	97	161438	25.0000000	ppb	100
55) TETRACHLOROETHENE	5.769	164	138445	25.0000000	ppb	100
56) 1,3-Dichloropropane	6.071	76	312799	25.0000000	ppb	100
57) 2-HEXANONE	6.277	58	382171	125.0000000	ppb	100
58) CHLORODIBROMOMETHANE	6.013	129	161966	25.0000000	ppb	100
59) 1,2-DIBROMOETHANE	6.190	107	150737	25.0000000	ppb	100
60) CHLOROBENZENE	6.524	112	551895	25.0000000	ppb	100
61) 1,1,1,2-TETRACHLOROETHANE	6.556	133	165021	25.0000000	ppb	100
62) ETHYLBENZENE	6.515	106	313624	25.0000000	ppb	100
63) M&P-XYLENE	6.611	106	784342	50.0000000	ppb	100
64) O-XYLENE	6.920	106	382763	25.0000000	ppb	100
65) STYRENE	6.958	104	630475	24.9195271	ppb	100
66) Bromoform	7.003	173	82619	25.0000000	ppb	100
67) Isopropylbenzene	7.132	105	979794	25.0000000	ppb	100
69) Bromobenzene	7.453	77	465688	25.0000000	ppb	100
70) 1,1,2,2-TETRACHLOROETHANE	7.495	83	194219	25.0000000	ppb	100
71) 1,2,3-TRICHLOROPROPANE	7.614	110	52872	25.0000000	ppb	100
72) TRANS-1,4-DICHLORO-2-B...	7.627	53	57582	25.0000000	ppb	100
73) n-Propylbenzene	7.434	91	1208426	25.0000000	ppb	100
74) 4-ETHYLTOLUENE	7.511	105	1003511	25.0000000	ppb	100
75) 2-Chlorotoluene	7.576	126	215364	25.0000000	ppb	100
76) 4-Chlorotoluene	7.698	91	747481	25.0000000	ppb	100
77) 1,3,5-Trimethylbenzene	7.569	105	849032	25.0000000	ppb	100
78) tert-Butylbenzene	7.820	119	661604	25.0000000	ppb	100
79) 1,2,4-Trimethylbenzene	7.871	105	834619	25.0000000	ppb	100
80) sec-Butylbenzene	7.952	105	1065905	25.0000000	ppb	100
81) 1,3-DICHLOROBENZENE	8.151	146	402333	25.0000000	ppb	100
82) p-Isopropyltoluene	8.052	119	858138	25.0000000	ppb	100
83) DICYCLOPENTADIENE	8.061	66	1078911	25.0000000	ppb	100
85) 1,4-DICHLOROBENZENE	8.219	146	399906	25.0000000	ppb	100
86) 1,2,3-TRIMETHYLBENZENE	8.216	105	864060	25.0000000	ppb	100
87) 1,2-DICHLOROBENZENE	8.553	146	366328	25.0000000	ppb	100
88) n-Butylbenzene	8.386	91	858072	25.0000000	ppb	100
89) 1,2-Dibromo-3-chloropr...	9.196	157	26602	25.0000000	ppb	100
90) 1,2,4-Trichlorobenzene	9.740	180	221124	25.0000000	ppb	100
91) HEXACHLORO-1,3-BUTADIENE	9.691	225	111958	25.0000000	ppb	100
92) Naphthalene	10.013	128	511301	25.0000000	ppb	100
93) 1,2,3-Trichlorobenzene	10.167	180	195749	25.0000000	ppb	100
94) 1-Methylnaphthalene	10.881	142	263097	25.0000000	ppb	100
95) 2-Methylnaphthalene	11.013	142	219217	25.0000000	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 10A.D
Acq On : 13 Nov 2015 4:53 pm
Operator : 522
Sample : MSTD VMS 25 ppb 15K13424
Misc : water 15J30547
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:32:44 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

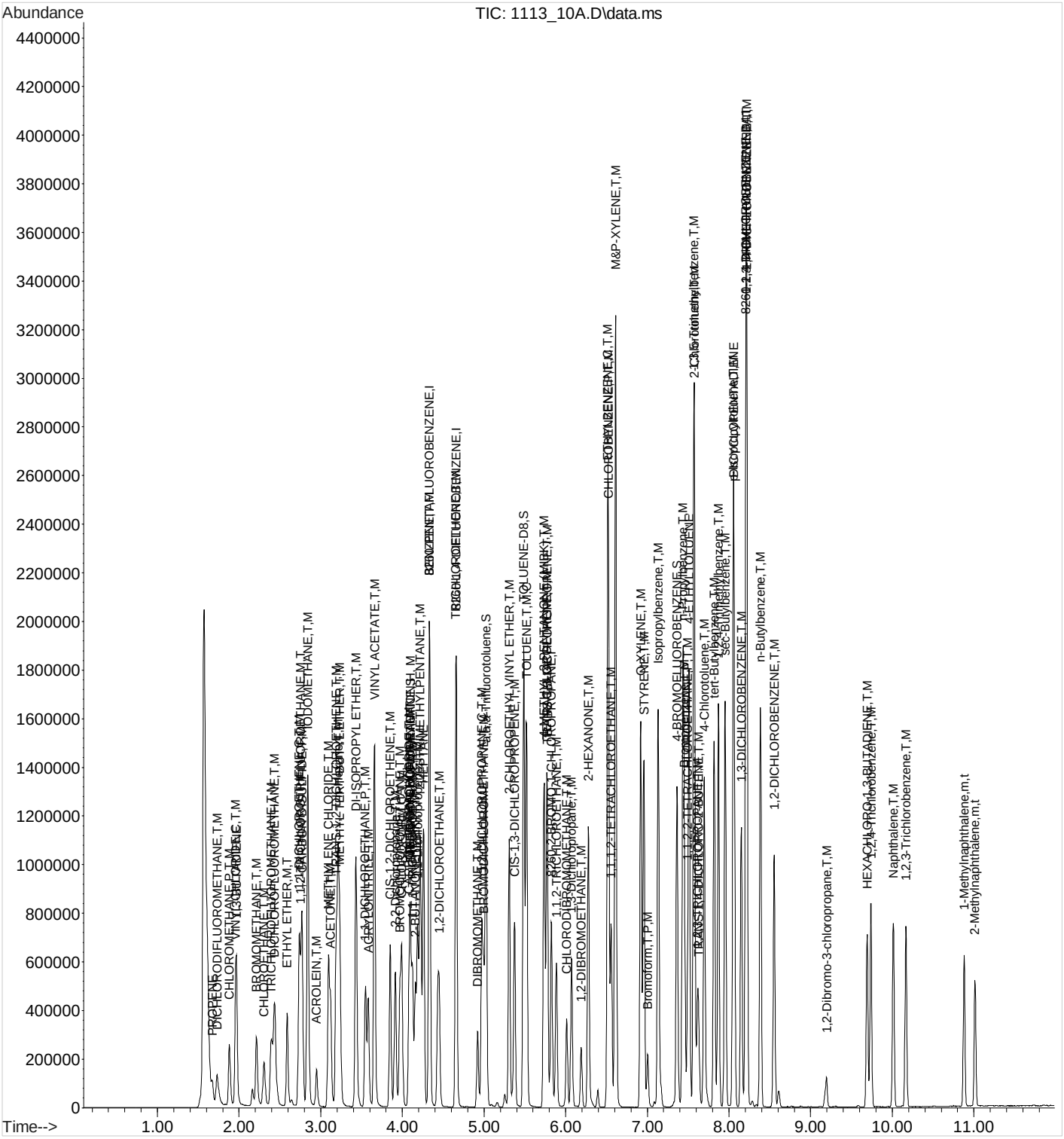
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 10A.D
Acq On : 13 Nov 2015 4:53 pm
Operator : 522
Sample : MSTD VMS 25 ppb 15K13424
Misc : water 15J30547
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:32:44 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 11A.D
Acq On : 13 Nov 2015 5:12 pm
Operator : 522
Sample : STD VMS 40 ppb 15K13424
Misc : water 15J30547
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:42:36 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.329	168	373863	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	725732	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.824	79	135733	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	343320	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.33
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.66
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.83
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.21
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.097	111	254091	45.2852878	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 113.21%			
46) a,a,a-Trifluorotoluene	5.023	146	452115	45.8110842	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 114.53%			
50) TOLUENE-D8	5.486	98	1109652	45.6663883	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 114.17%			
68) 4-BROMOFLUOROBENZENE	7.364	95	449791	45.1502559	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 112.88%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	17560442m	31.4157914	ppm	
3) PROPENE	1.670	41	60661	36.7615252	ppb	99
4) DICHLORODIFLUOROMETHANE	1.731	85	307859	38.0297103	ppb	99
5) CHLOROMETHANE	1.879	50	415664	38.5867550	ppb	100
6) VINYL CHLORIDE	1.956	62	453030	37.6556044	ppb	99
7) 1,3-BUTADIENE	1.965	39	297650	38.0849328	ppb	98
8) BROMOMETHANE	2.210	94	286951	37.6126625	ppb	100
9) CHLOROETHANE	2.303	64	294980	38.1610382	ppb	98
10) TRICHLOROFLUOROMETHANE	2.396	101	460943	38.2035897	ppb	98
11) DICHLOROFLUOROMETHANE	2.435	67	665716	38.0575954	ppb	100
12) ETHYL ETHER	2.589	59	308438	37.7981920	ppb	97
13) ACROLEIN	2.949	56	189610	190.7980126	ppb	99
14) 1,1-DICHLOROETHENE	2.734	61	528903	38.3813500	ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.756	101	290898	38.3060819	ppb	99
16) ACETONE	3.120	43	699205	185.1660897	ppb	99
17) IODOMETHANE	2.840	142	2246812	192.0894151	ppb	100
18) CARBON DISULFIDE	2.769	76	1137727	39.9915287	ppb	98
19) METHYLENE CHLORIDE	3.094	84	355988	38.3395880	ppb	99
20) ACRYLONITRILE	3.579	53	460063	193.5207147	ppb	100
21) n-Hexane	3.213	56	328702	36.8960654	ppb	97
22) TRANS-1,2-DICHLOROETHENE	3.187	96	336680	38.6664661	ppb	98
23) METHYL TERT-BUTYL ETHER	3.232	73	912573	38.3371610	ppb	100
24) 1,1-DICHLOROETHANE	3.547	63	659938	38.1445137	ppb	99
25) VINYL ACETATE	3.657	43	3076010	202.1708321	ppb	100
26) DI-ISOPROPYL ETHER	3.432	45	1254656	38.6659283	ppb	100
27) 2,2-Dichloropropane	3.914	77	489063	38.5563505	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.850	96	368400	37.8599672	ppb	99
29) 2-BUTANONE (MEK)	4.158	43	772280	190.6974722	ppb	99
30) BROMOCHLOROMETHANE	3.969	130	191095	39.3813623	ppb	97
31) TETRAHYDROFURAN	4.091	42	76426	37.6441530	ppb	98
32) CHLOROFORM	3.991	83	603725	37.8747844	ppb	100
34) 1,1,1-TRICHLOROETHANE	4.123	97	457493	37.7101881	ppb	99
35) CARBON TETRACHLORIDE	4.084	119	349310	37.5375688	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 11A.D
Acq On : 13 Nov 2015 5:12 pm
Operator : 522
Sample : STD VMS 40 ppb 15K13424
Misc : water 15J30547
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:42:36 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) 1,1-Dichloropropene	4.184	75	456255	38.3602546	ppb		100
37) 2,2,4-TRIMETHYLPENTANE	4.219	57	1482511	37.5657422	ppb		99
38) HEPTANE	4.258	43	625354	37.2151850	ppb	#	69
39) BENZENE	4.332	78	1491333	38.0516290	ppb		99
40) 1,2-DICHLOROETHANE	4.451	62	459842	38.2052187	ppb		99
42) TRICHLOROETHENE	4.657	130	312482	38.7375298	ppb		99
43) 1,2-DICHLOROPROPANE	4.972	62	272782	38.7020144	ppb		100
44) DIBROMOMETHANE	4.920	93	179899	39.8066968	ppb		99
45) BROMODICHLOROMETHANE	4.997	83	461450	38.8618550	ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.309	63	662549	195.1686265	ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.374	75	592448	39.2071441	ppb		99
49) 4-METHYL-2-PENTANONE (...	5.734	43	1286212	192.1647659	ppb		99
51) TOLUENE	5.518	91	1520419	38.5438677	ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.776	75	511234	39.5262525	ppb		99
54) 1,1,2-TRICHLOROETHANE	5.885	97	256283	37.7375509	ppb		100
55) TETRACHLOROETHENE	5.769	164	220531	37.8662286	ppb		100
56) 1,3-Dichloropropane	6.071	76	499350	37.9489164	ppb		100
57) 2-HEXANONE	6.277	58	606077	188.4949677	ppb		100
58) CHLORODIBROMOMETHANE	6.013	129	264109	38.7631468	ppb		99
59) 1,2-DIBROMOETHANE	6.190	107	243517	38.4033490	ppb		98
60) CHLOROBENZENE	6.521	112	893515	38.4862033	ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.557	133	274985	39.6122463	ppb		100
62) ETHYLBENZENE	6.515	106	507993	38.5042013	ppb		100
63) M&P-XYLENE	6.612	106	1270866	77.0342692	ppb		100
64) O-XYLENE	6.920	106	612022	38.0099034	ppb		98
65) STYRENE	6.956	104	1002874	37.6910270	ppb		99
66) Bromoform	7.004	173	137076	39.4403872	ppb		99
67) Isopropylbenzene	7.132	105	1578106	38.2878585	ppb		99
69) Bromobenzene	7.451	77	761112	38.8519842	ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.496	83	321332	39.3298187	ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.611	110	84226	37.8686758	ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.628	53	93245	38.4944828	ppb		95
73) n-Propylbenzene	7.435	91	1965720	38.6688518	ppb		99
74) 4-ETHYLTOLUENE	7.512	105	1611684	38.1783749	ppb		100
75) 2-Chlorotoluene	7.576	126	345652	38.1527324	ppb		99
76) 4-Chlorotoluene	7.695	91	1199605	38.1502854	ppb		100
77) 1,3,5-Trimethylbenzene	7.570	105	1365611	38.2351351	ppb		99
78) tert-Butylbenzene	7.817	119	1069936	38.4431848	ppb		99
79) 1,2,4-Trimethylbenzene	7.872	105	1345044	38.3096254	ppb		100
80) sec-Butylbenzene	7.952	105	1703184	37.9841796	ppb		100
81) 1,3-DICHLOROBENZENE	8.152	146	645379	38.1319360	ppb		99
82) p-Isopropyltoluene	8.052	119	1386295	38.4023856	ppb		98
83) DICYCLOPENTADIENE	8.062	66	1738287	38.2997150	ppb		100
85) 1,4-DICHLOROBENZENE	8.216	146	649711	38.5860132	ppb	#	74
86) 1,2,3-TRIMETHYLBENZENE	8.216	105	1391566	38.2496545	ppb		100
87) 1,2-DICHLOROBENZENE	8.554	146	589316	38.2072453	ppb		99
88) n-Butylbenzene	8.383	91	1362588	37.7145072	ppb		100
89) 1,2-Dibromo-3-chloropr...	9.193	157	41969	37.4698488	ppb		97
90) 1,2,4-Trichlorobenzene	9.737	180	346277	37.1925001	ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.692	225	176713	37.4870251	ppb		98
92) Naphthalene	10.013	128	810601	37.6528715	ppb		100
93) 1,2,3-Trichlorobenzene	10.168	180	305977	37.1241774	ppb		99
94) 1-Methylnaphthalene	10.881	142	421704	38.0679450	ppb		99
95) 2-Methylnaphthalene	11.013	142	345147	37.3936175	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 11A.D
Acq On : 13 Nov 2015 5:12 pm
Operator : 522
Sample : STD VMS 40 ppb 15K13424
Misc : water 15J30547
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:42:36 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

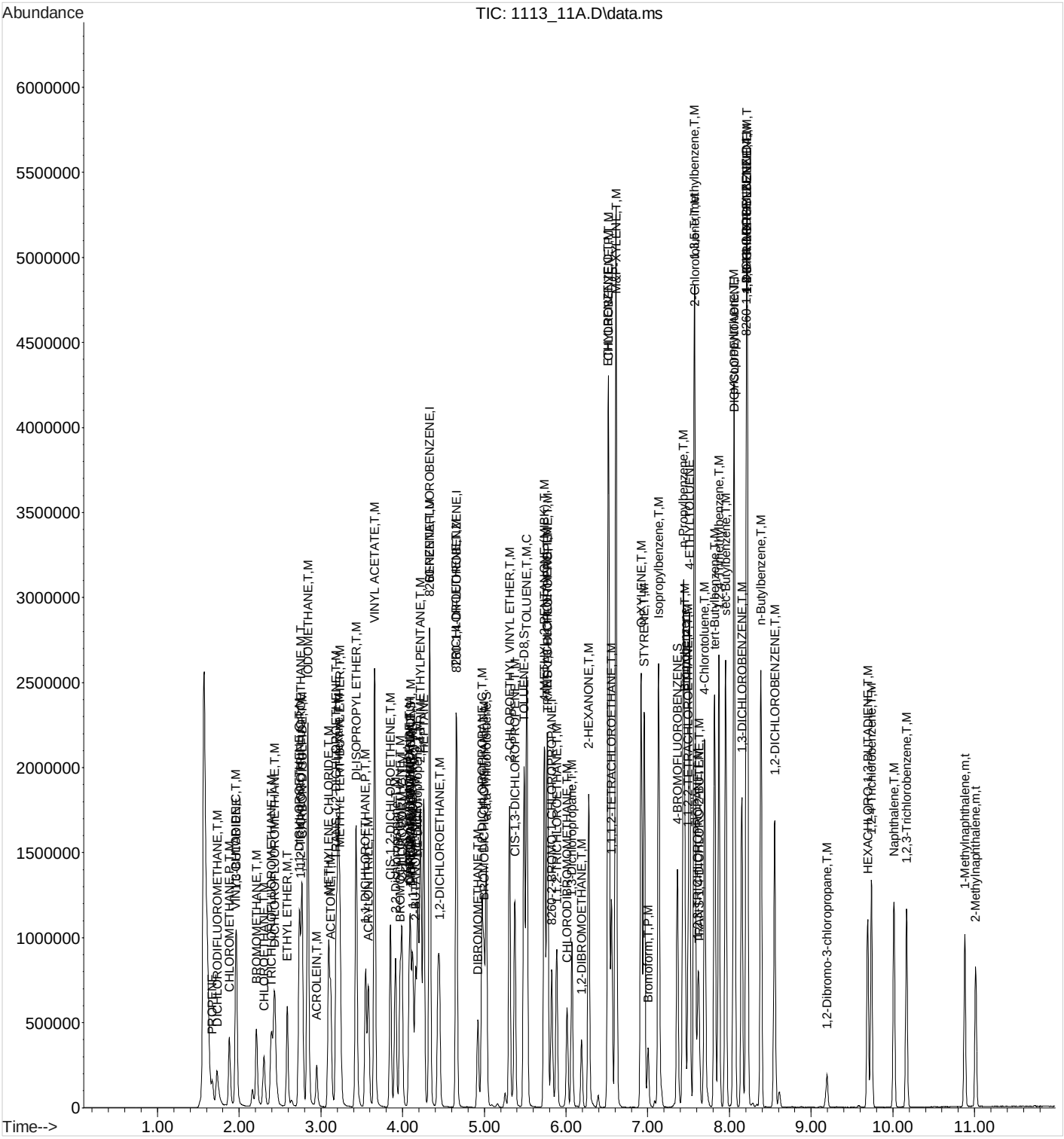
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 11A.D
Acq On : 13 Nov 2015 5:12 pm
Operator : 522
Sample : STD VMS 40 ppb 15K13424
Misc : water 15J30547
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:42:36 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 12A.D
Acq On : 13 Nov 2015 5:31 pm
Operator : 522
Sample : STD VMS 75 ppb 15K13424
Misc : water 15J30547
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:43:56 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.331	168	370550	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.659	114	719407	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	130432	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	334349	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.33
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.66
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.83
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.21
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.097	111	257831	46.3626928	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 115.91%			
46) a,a,a-Trifluorotoluene	5.026	146	457850	46.8000682	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 117.00%#			
50) TOLUENE-D8	5.486	98	1116209	46.3401034	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 115.85%#			
68) 4-BROMOFLUOROBENZENE	7.363	95	453113	47.3322633	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 118.33%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	49124646m	88.6701954	ppm	
3) PROPENE	1.672	41	110046	67.2858722	ppb	99
4) DICHLORODIFLUOROMETHANE	1.727	85	552079	68.8078613	ppb	99
5) CHLOROMETHANE	1.878	50	767975	71.9297576	ppb	99
6) VINYL CHLORIDE	1.959	62	833685	69.9149927	ppb	100
7) 1,3-BUTADIENE	1.965	39	541600	69.9184241	ppb	99
8) BROMOMETHANE	2.209	94	514106	67.9899429	ppb	99
9) CHLOROETHANE	2.303	64	538181	70.2460067	ppb	98
10) TRICHLOROFLUOROMETHANE	2.393	101	828188	69.2550665	ppb	98
11) DICHLOROFLUOROMETHANE	2.434	67	1216006	70.1380580	ppb	100
12) ETHYL ETHER	2.589	59	570815	70.5771625	ppb	96
13) ACROLEIN	2.949	56	361624	367.1432289	ppb	98
14) 1,1-DICHLOROETHENE	2.733	61	959910	70.2813995	ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.756	101	531654	70.6352931	ppb	99
16) ACETONE	3.119	43	1297400	346.6542209	ppb	99
17) IODOMETHANE	2.840	142	4204528	362.6766683	ppb	100
18) CARBON DISULFIDE	2.769	76	2109961	74.8290167	ppb	98
19) METHYLENE CHLORIDE	3.094	84	657140	71.4061562	ppb	98
20) ACRYLONITRILE	3.579	53	846454	359.2354464	ppb	100
21) n-Hexane	3.209	56	608693	68.9353023	ppb	96
22) TRANS-1,2-DICHLOROETHENE	3.187	96	623525	72.2498090	ppb	99
23) METHYL TERT-BUTYL ETHER	3.232	73	1671146	70.8324715	ppb	99
24) 1,1-DICHLOROETHANE	3.547	63	1216431	70.9385153	ppb	100
25) VINYL ACETATE	3.656	43	5312766	352.3036255	ppb	100
26) DI-ISOPROPYL ETHER	3.431	45	2326787	72.3479237	ppb	99
27) 2,2-Dichloropropane	3.913	77	881865	70.1453502	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.849	96	689296	71.4713588	ppb	100
29) 2-BUTANONE (MEK)	4.158	43	1433735	357.1944519	ppb	99
30) BROMOCHLOROMETHANE	3.968	130	349117	72.5902141	ppb	98
31) TETRAHYDROFURAN	4.094	42	137168	68.1671089	ppb	98
32) CHLOROFORM	3.991	83	1118484	70.7956305	ppb	99
34) 1,1,1-TRICHLOROETHANE	4.122	97	836574	69.5735682	ppb	99
35) CARBON TETRACHLORIDE	4.084	119	648137	70.2728564	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 12A.D
Acq On : 13 Nov 2015 5:31 pm
Operator : 522
Sample : STD VMS 75 ppb 15K13424
Misc : water 15J30547
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:43:56 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,1-Dichloropropene	4.187	75	840351	71.2853415	ppb	100
37) 2,2,4-TRIMETHYLPENTANE	4.219	57	2701406	69.0636582	ppb	100
38) HEPTANE	4.258	43	1148481	68.9578535	ppb	99
39) BENZENE	4.331	78	2757667	70.9914615	ppb	99
40) 1,2-DICHLOROETHANE	4.450	62	843887	70.7398314	ppb	100
42) TRICHLOROETHENE	4.656	130	578351	72.3269285	ppb	99
43) 1,2-DICHLOROPROPANE	4.971	62	508592	72.7928962	ppb	99
44) DIBROMOMETHANE	4.920	93	324640	72.4654570	ppb	100
45) BROMODICHLOROMETHANE	4.997	83	864689	73.4616071	ppb	99
47) 2-CHLOROETHYL VINYL ETHER	5.309	63	1286068	382.1708417	ppb	99
48) CIS-1,3-DICHLOROPROPENE	5.373	75	1115842	74.4936560	ppb	100
49) 4-METHYL-2-PENTANONE (...	5.737	43	2379489	358.6299199	ppb	100
51) TOLUENE	5.521	91	2843820	72.7270081	ppb	100
52) TRANS-1,3-DICHLOROPROPENE	5.775	75	971974	75.8092453	ppb	99
54) 1,1,2-TRICHLOROETHANE	5.884	97	474383	72.6916161	ppb	100
55) TETRACHLOROETHENE	5.769	164	410897	73.4203872	ppb	100
56) 1,3-Dichloropropane	6.071	76	928578	73.4368449	ppb	100
57) 2-HEXANONE	6.277	58	1134562	367.1989960	ppb	100
58) CHLORODIBROMOMETHANE	6.013	129	493596	75.3891333	ppb	99
59) 1,2-DIBROMOETHANE	6.190	107	450144	73.8741631	ppb	100
60) CHLOROBENZENE	6.524	112	1672715	74.9767252	ppb	99
61) 1,1,1,2-TETRACHLOROETHANE	6.556	133	510292	76.4963161	ppb	98
62) ETHYLBENZENE	6.515	106	958638	75.6147162	ppb	99
63) M&P-XYLENE	6.611	106	2372412	149.6496179	ppb	100
64) O-XYLENE	6.920	106	1139967	73.6755362	ppb	98
65) STYRENE	6.958	104	1934269	75.6501450	ppb	99
66) Bromoform	7.007	173	263308	78.8397241	ppb	99
67) Isopropylbenzene	7.132	105	2939990	74.2287340	ppb	99
69) Bromobenzene	7.454	77	1404649	74.6163057	ppb	99
70) 1,1,2,2-TETRACHLOROETHANE	7.495	83	573096	72.9955927	ppb	100
71) 1,2,3-TRICHLOROPROPANE	7.614	110	152163	71.1941483	ppb	97
72) TRANS-1,4-DICHLORO-2-B...	7.630	53	177285	76.1633823	ppb	97
73) n-Propylbenzene	7.434	91	3648792	74.6947404	ppb	99
74) 4-ETHYLTOLUENE	7.511	105	3013127	74.2773285	ppb	100
75) 2-Chlorotoluene	7.576	126	659602	75.7652099	ppb	97
76) 4-Chlorotoluene	7.698	91	2225315	73.6465341	ppb	99
77) 1,3,5-Trimethylbenzene	7.572	105	2532333	73.7832415	ppb	100
78) tert-Butylbenzene	7.820	119	1959709	73.2747661	ppb	99
79) 1,2,4-Trimethylbenzene	7.872	105	2492650	73.8812119	ppb	100
80) sec-Butylbenzene	7.952	105	3129592	72.6323673	ppb	100
81) 1,3-DICHLOROBENZENE	8.151	146	1206646	74.1916787	ppb	100
82) p-Isopropyltoluene	8.055	119	2558882	73.7656377	ppb	98
83) DICYCLOPENTADIENE	8.061	66	3204837	73.4820563	ppb	100
85) 1,4-DICHLOROBENZENE	8.219	146	1213757	74.0185395	ppb #	51
86) 1,2,3-TRIMETHYLBENZENE	8.216	105	2585467	72.9729296	ppb	99
87) 1,2-DICHLOROBENZENE	8.553	146	1096092	72.9698707	ppb	99
88) n-Butylbenzene	8.386	91	2472963	70.2846638	ppb	100
89) 1,2-Dibromo-3-chloropr...	9.193	157	78542	72.0036232	ppb	98
90) 1,2,4-Trichlorobenzene	9.740	180	634129	69.9372283	ppb	99
91) HEXACHLORO-1,3-BUTADIENE	9.691	225	318769	69.4364697	ppb	98
92) Naphthalene	10.013	128	1478707	70.5297218	ppb	100
93) 1,2,3-Trichlorobenzene	10.167	180	555183	69.1676931	ppb	99
94) 1-Methylnaphthalene	10.881	142	758172	70.2778601	ppb	99
95) 2-Methylnaphthalene	11.013	142	620010	68.9749109	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 12A.D
Acq On : 13 Nov 2015 5:31 pm
Operator : 522
Sample : STD VMS 75 ppb 15K13424
Misc : water 15J30547
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:43:56 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

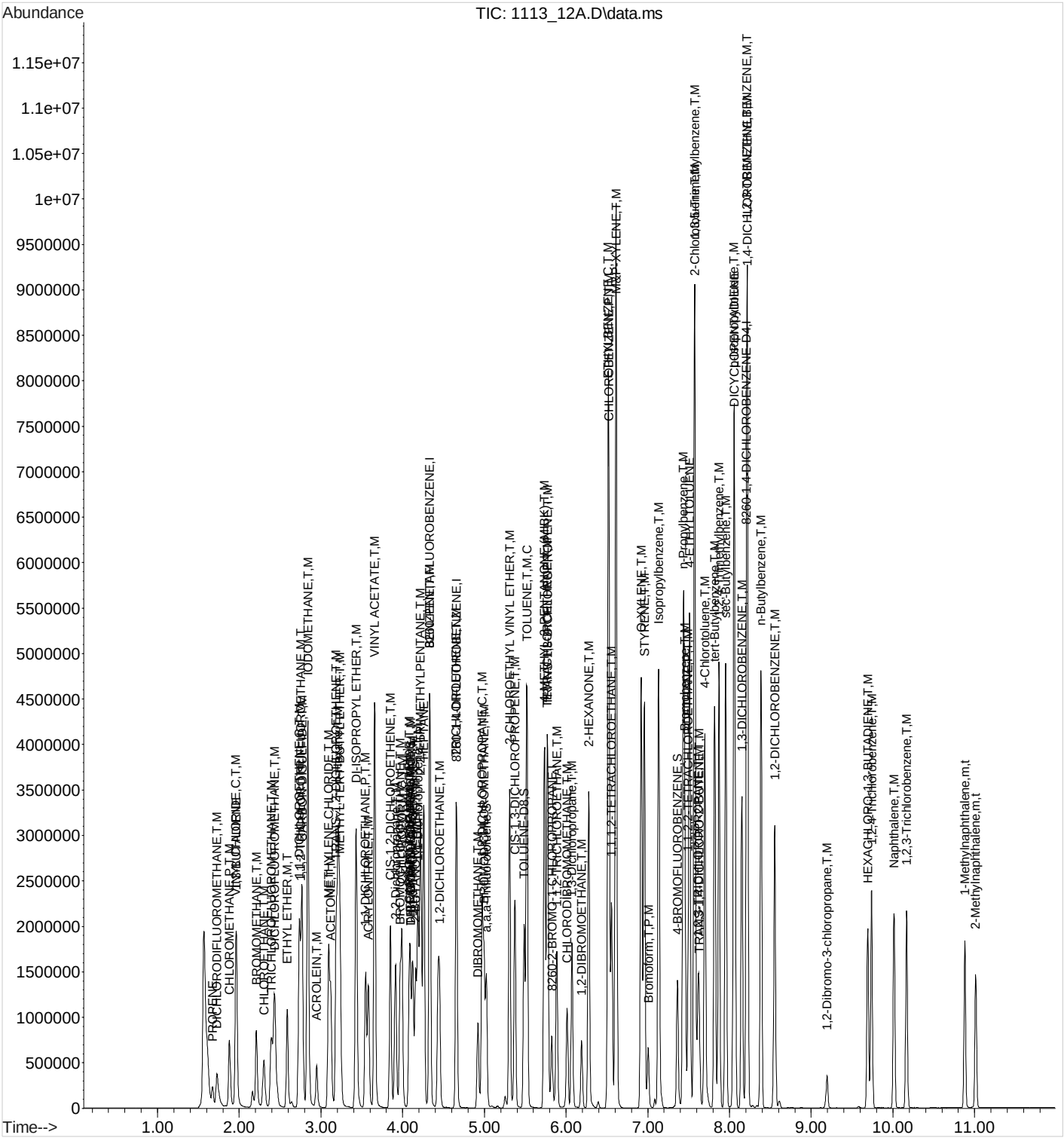
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 12A.D
Acq On : 13 Nov 2015 5:31 pm
Operator : 522
Sample : STD VMS 75 ppb 15K13424
Misc : water 15J30547
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:43:56 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 13A.D
Acq On : 13 Nov 2015 5:50 pm
Operator : 522
Sample : STD VMS 100 ppb 15K13424
Misc : water 15J30547
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:45:15 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.332	168	359190	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	709190	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	123960	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	304690	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.33
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.66
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.83
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.21
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.097	111	263563	48.8923083	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 122.23%#			
46) a,a,a-Trifluorotoluene	5.026	146	449911	46.6511050	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 116.63%#			
50) TOLUENE-D8	5.486	98	1120638	47.1942273	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 117.99%#			
68) 4-BROMOFLUOROBENZENE	7.364	95	433938	47.6958968	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 119.24%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	64287374m	119.7089141	ppm	
3) PROPENE	1.676	41	148619	93.7446604	ppb	99
4) DICHLORODIFLUOROMETHANE	1.730	85	776649	99.8583071	ppb	99
5) CHLOROMETHANE	1.882	50	1043840	100.8597830	ppb	100
6) VINYL CHLORIDE	1.959	62	1150926	99.5722477	ppb	100
7) 1,3-BUTADIENE	1.965	39	738823	98.3956644	ppb	98
8) BROMOMETHANE	2.216	94	691899	94.3968032	ppb	99
9) CHLOROETHANE	2.306	64	725410	97.6785936	ppb	98
10) TRICHLOROFLUOROMETHANE	2.396	101	1138925	98.2517566	ppb	99
11) DICHLOROFLUOROMETHANE	2.435	67	1658927	98.7115281	ppb	100
12) ETHYL ETHER	2.589	59	774534	98.7942990	ppb	97
13) ACROLEIN	2.949	56	481302	504.1021202	ppb	100
14) 1,1-DICHLOROETHENE	2.734	61	1303941	98.4896074	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.756	101	733591	100.5470287	ppb	98
16) ACETONE	3.120	43	1496969	412.6273267	ppb	97
17) IODOMETHANE	2.840	142	5878999	523.1525362	ppb	100
18) CARBON DISULFIDE	2.772	76	2956998	108.1855411	ppb	97
19) METHYLENE CHLORIDE	3.097	84	899211	100.8003276	ppb	99
20) ACRYLONITRILE	3.583	53	1133963	496.4748870	ppb	99
21) n-Hexane	3.213	56	820562	95.8688149	ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.187	96	840398	100.4593636	ppb	100
23) METHYL TERT-BUTYL ETHER	3.232	73	2241528	98.0132411	ppb	100
24) 1,1-DICHLOROETHANE	3.547	63	1677358	100.9120340	ppb	100
25) VINYL ACETATE	3.656	43	7345962	502.5365829	ppb	100
26) DI-ISOPROPYL ETHER	3.431	45	3165214	101.5301672	ppb	99
27) 2,2-Dichloropropane	3.914	77	1202772	98.6967089	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.853	96	942494	100.8155341	ppb	100
29) 2-BUTANONE (MEK)	4.158	43	1792827	460.7833541	ppb	99
30) BROMOCHLOROMETHANE	3.968	130	475741	102.0470000	ppb	99
31) TETRAHYDROFURAN	4.091	42	176956	90.7214414	ppb	99
32) CHLOROFORM	3.991	83	1520822	99.3064930	ppb	100
34) 1,1,1-TRICHLOROETHANE	4.123	97	1161648	99.6637086	ppb	99
35) CARBON TETRACHLORIDE	4.084	119	899947	100.6607834	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 13A.D
Acq On : 13 Nov 2015 5:50 pm
Operator : 522
Sample : STD VMS 100 ppb 15K13424
Misc : water 15J30547
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:45:15 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.187	75	1143790	100.0940792 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.219	57	3598312	94.9032568 ppb		100
38) HEPTANE	4.258	43	1555501	96.3502386 ppb	#	69
39) BENZENE	4.332	78	3744405	99.4419637 ppb		99
40) 1,2-DICHLOROETHANE	4.451	62	1136017	98.2397242 ppb		99
42) TRICHLOROETHENE	4.656	130	785796	99.6851351 ppb		99
43) 1,2-DICHLOROPROPANE	4.975	62	684599	99.3957445 ppb		100
44) DIBROMOMETHANE	4.920	93	438881	99.3774484 ppb		99
45) BROMODICHLOROMETHANE	4.997	83	1181958	101.8625611 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.309	63	1704530	513.8191922 ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.373	75	1511824	102.3834775 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.737	43	3060099	467.8540043 ppb		100
51) TOLUENE	5.518	91	3843103	99.6982873 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.775	75	1330274	105.2496558 ppb		100
54) 1,1,2-TRICHLOROETHANE	5.888	97	632352	101.9569158 ppb		99
55) TETRACHLOROETHENE	5.769	164	555563	104.4526832 ppb		98
56) 1,3-Dichloropropane	6.071	76	1247219	103.7865138 ppb		99
57) 2-HEXANONE	6.277	58	1450361	493.9146985 ppb		99
58) CHLORODIBROMOMETHANE	6.013	129	670571	107.7666724 ppb		100
59) 1,2-DIBROMOETHANE	6.190	107	613557	105.9494263 ppb		98
60) CHLOROBENZENE	6.525	112	2213600	104.4013822 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.560	133	670803	105.8082042 ppb		99
62) ETHYLBENZENE	6.515	106	1244851	103.3169662 ppb		99
63) M&P-XYLENE	6.611	106	3056259	202.8515085 ppb		99
64) O-XYLENE	6.920	106	1436874	97.7129890 ppb		98
65) STYRENE	6.959	104	2494684	102.6623073 ppb		99
66) Bromoform	7.007	173	347509	109.4837551 ppb		99
67) Isopropylbenzene	7.135	105	3547732	94.2496165 ppb		99
69) Bromobenzene	7.454	77	1806865	100.9936854 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.496	83	741270	99.3455166 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.614	110	198010	97.4821158 ppb		97
72) TRANS-1,4-DICHLORO-2-B...	7.631	53	228541	103.3096619 ppb		97
73) n-Propylbenzene	7.438	91	4370562	94.1414291 ppb		99
74) 4-ETHYLTOLUENE	7.512	105	3592515	93.1837137 ppb		100
75) 2-Chlorotoluene	7.576	126	810045	97.9038113 ppb		98
76) 4-Chlorotoluene	7.698	91	2783154	96.9171516 ppb		99
77) 1,3,5-Trimethylbenzene	7.573	105	3009867	92.2755852 ppb		99
78) tert-Butylbenzene	7.820	119	2288646	90.0417780 ppb		99
79) 1,2,4-Trimethylbenzene	7.872	105	2964215	92.4453339 ppb		100
80) sec-Butylbenzene	7.955	105	3594322	87.7732226 ppb		100
81) 1,3-DICHLOROBENZENE	8.151	146	1484115	96.0164093 ppb		99
82) p-Isopropyltoluene	8.055	119	2924060	88.6936868 ppb		99
83) DICYCLOPENTADIENE	8.065	66	3832600	92.4637358 ppb		100
85) 1,4-DICHLOROBENZENE	8.219	146	1499227	100.3270371 ppb	#	45
86) 1,2,3-TRIMETHYLBENZENE	8.216	105	3170945	98.2094593 ppb		99
87) 1,2-DICHLOROBENZENE	8.553	146	1361445	99.4577198 ppb		99
88) n-Butylbenzene	8.386	91	2758762	86.0397255 ppb		100
89) 1,2-Dibromo-3-chloropr...	9.196	157	104906	105.5345228 ppb		99
90) 1,2,4-Trichlorobenzene	9.740	180	736510	89.1356175 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.695	225	349505	83.5423665 ppb		98
92) Naphthalene	10.013	128	1901117	99.5040402 ppb		100
93) 1,2,3-Trichlorobenzene	10.167	180	672911	91.9955007 ppb		99
94) 1-Methylnaphthalene	10.881	142	957775	97.4217917 ppb		100
95) 2-Methylnaphthalene	11.013	142	793420	96.8584300 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 13A.D
Acq On : 13 Nov 2015 5:50 pm
Operator : 522
Sample : STD VMS 100 ppb 15K13424
Misc : water 15J30547
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:45:15 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

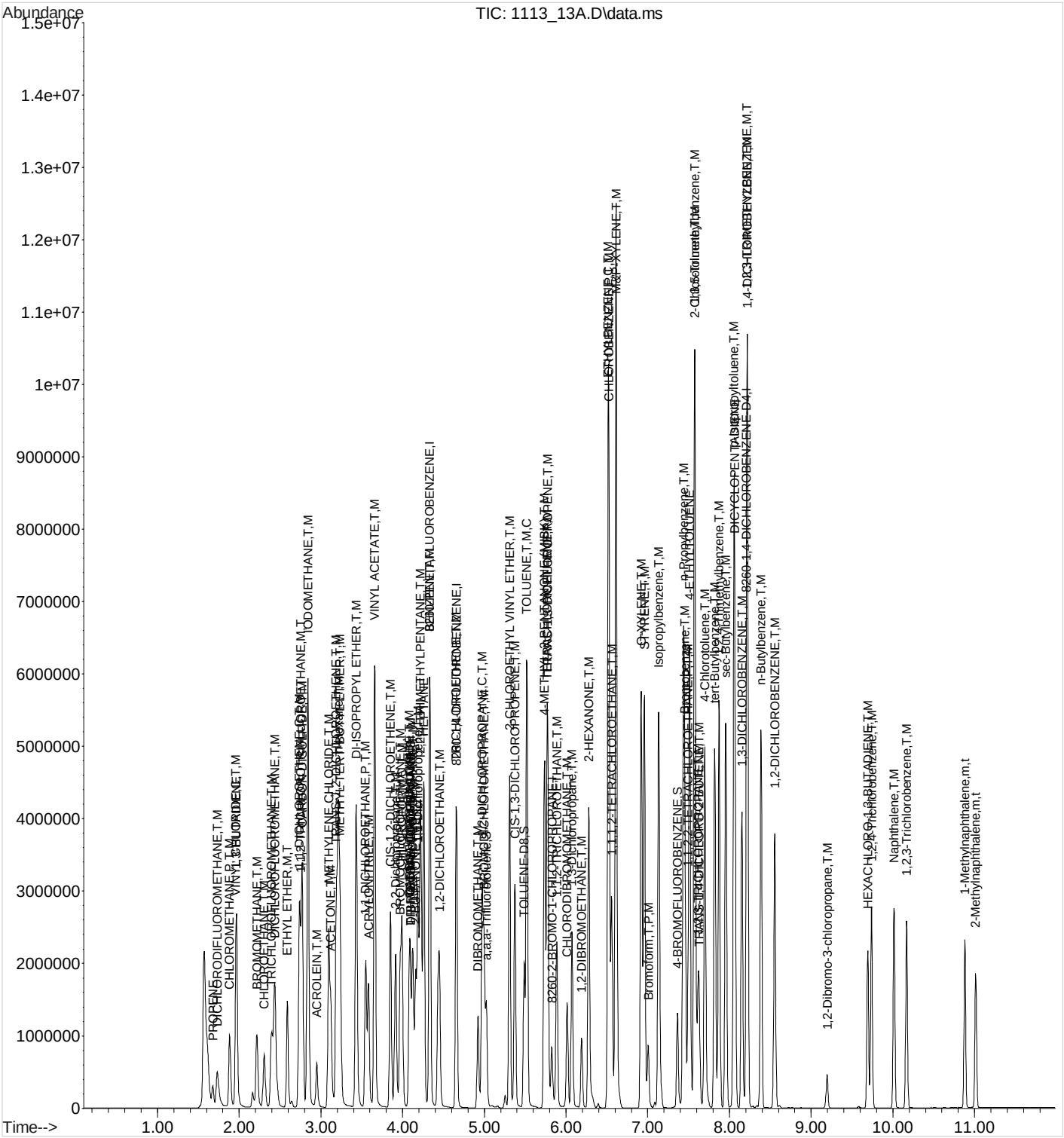
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 13A.D
Acq On : 13 Nov 2015 5:50 pm
Operator : 522
Sample : STD VMS 100 ppb 15K13424
Misc : water 15J30547
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:45:15 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 14A.D
Acq On : 13 Nov 2015 6:09 pm
Operator : 522
Sample : STD VMS 200 ppb 15K13424
Misc : water 15J30547
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:46:27 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.332	168	375051	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	741527	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	132737	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	352650	40.0000000 ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.33
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.66
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.83
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.21
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.097	111	277329	49.2703100 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 123.18%#		
46) a,a,a-Trifluorotoluene	5.023	146	478041	47.4063048 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 118.52%#		
50) TOLUENE-D8	5.486	98	1188244	47.8591300 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 119.65%#		
68) 4-BROMOFLUOROBENZENE	7.364	95	478362	49.1020448 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 122.76%#		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	173735822m	309.8304448 ppm	
3) PROPENE	1.676	41	299500	180.9268165 ppb	98
4) DICHLORODIFLUOROMETHANE	1.730	85	1549085	190.7517672 ppb	98
5) CHLOROMETHANE	1.882	50	2118538	196.0443191 ppb	99
6) VINYL CHLORIDE	1.962	62	2305927	191.0602640 ppb	99
7) 1,3-BUTADIENE	1.965	39	1517900	193.6032422 ppb	99
8) BROMOMETHANE	2.210	94	1247152	162.9550715 ppb	100
9) CHLOROETHANE	2.296	64	1404723	181.1508860 ppb	98
10) TRICHLOROFLUOROMETHANE	2.390	101	2281837	188.5227320 ppb	98
11) DICHLOROFLUOROMETHANE	2.431	67	3285683	187.2406627 ppb	100
12) ETHYL ETHER	2.586	59	1557225	190.2289777 ppb	97
13) ACROLEIN	2.949	56	992808	995.8640047 ppb	99
14) 1,1-DICHLOROETHENE	2.734	61	2621709	189.6491322 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.753	101	1482580	194.6109592 ppb	98
16) ACETONE	3.119	43	3577663	944.4490159 ppb	98
17) IODOMETHANE	2.840	142	12319367	1049.8983459 ppb	100
18) CARBON DISULFIDE	2.769	76	6005612	210.4308312 ppb	97
19) METHYLENE CHLORIDE	3.094	84	1815869	194.9479877 ppb	99
20) ACRYLONITRILE	3.579	53	2391310	1002.6934799 ppb	99
21) n-Hexane	3.210	56	1706993	190.9992260 ppb	94
22) TRANS-1,2-DICHLOROETHENE	3.187	96	1742038	199.4329651 ppb	98
23) METHYL TERT-BUTYL ETHER	3.232	73	4684433	196.1695173 ppb #	6
24) 1,1-DICHLOROETHANE	3.547	63	3418648	196.9724519 ppb	100
25) VINYL ACETATE	3.653	43	13979293	915.8790436 ppb	99
26) DI-ISOPROPYL ETHER	3.431	45	6576088	202.0196196 ppb	98
27) 2,2-Dichloropropane	3.914	77	2376382	186.7538335 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.849	96	1926698	197.3769425 ppb	100
29) 2-BUTANONE (MEK)	4.158	43	4008125	986.5828560 ppb	100
30) BROMOCHLOROMETHANE	3.968	130	975465	200.3896384 ppb	98
31) TETRAHYDROFURAN	4.094	42	381434	187.2828289 ppb	98
32) CHLOROFORM	3.991	83	3123596	195.3385799 ppb	100
34) 1,1,1-TRICHLOROETHANE	4.123	97	2383775	195.8671775 ppb	99
35) CARBON TETRACHLORIDE	4.084	119	1868394	200.1454611 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 14A.D
Acq On : 13 Nov 2015 6:09 pm
Operator : 522
Sample : STD VMS 200 ppb 15K13424
Misc : water 15J30547
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:46:27 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.187	75	2358635	197.6772732 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.219	57	7590521	191.7289945 ppb		98
38) HEPTANE	4.258	43	3267942	193.8611342 ppb	#	68
39) BENZENE	4.332	78	7735713	196.7528960 ppb		99
40) 1,2-DICHLOROETHANE	4.451	62	2302896	190.7262804 ppb		99
42) TRICHLOROETHENE	4.656	130	1633277	198.1600341 ppb		99
43) 1,2-DICHLOROPROPANE	4.971	62	1441545	200.1683314 ppb		100
44) DIBROMOMETHANE	4.920	93	907550	196.5383281 ppb		99
45) BROMODICHLOROMETHANE	4.997	83	2475854	204.0672031 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.309	63	3924223	1131.3448022 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.373	75	3165743	205.0406313 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.737	43	6608598	966.3174958 ppb		100
51) TOLUENE	5.518	91	8068694	200.1910018 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.775	75	2809879	212.6193734 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.888	97	1338909	201.6036654 ppb		99
55) TETRACHLOROETHENE	5.769	164	1187285	208.4638897 ppb		99
56) 1,3-Dichloropropane	6.071	76	2613241	203.0800394 ppb		100
57) 2-HEXANONE	6.277	58	3168522	1007.6788286 ppb		99
58) CHLORODIBROMOMETHANE	6.013	129	1427092	214.1811502 ppb		99
59) 1,2-DIBROMOETHANE	6.190	107	1278299	206.1416335 ppb		98
60) CHLOROBENZENE	6.524	112	4857517	213.9493647 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.557	133	1441544	212.3448927 ppb		100
62) ETHYLBENZENE	6.518	106	2769984	214.6945908 ppb		99
63) M&P-XYLENE	6.611	106	6931437	429.6362688 ppb		91
64) O-XYLENE	6.920	106	3213934	204.1080510 ppb		98
65) STYRENE	6.959	104	5520329	212.1534069 ppb		98
66) Bromoform	7.007	173	753352	221.6517391 ppb		99
67) Isopropylbenzene	7.135	105	8245884	204.5764212 ppb		99
69) Bromobenzene	7.454	77	4006646	209.1409408 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.499	83	1612622	201.8338471 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.614	110	425585	195.6652514 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.631	53	497505	210.0215388 ppb		95
73) n-Propylbenzene	7.438	91	10287124	206.9317095 ppb		99
74) 4-ETHYLTOLUENE	7.515	105	8496734	205.8178402 ppb		100
75) 2-Chlorotoluene	7.576	126	1892267	213.5809128 ppb		97
76) 4-Chlorotoluene	7.698	91	6303783	205.0001734 ppb		99
77) 1,3,5-Trimethylbenzene	7.573	105	7112313	203.6291429 ppb		99
78) tert-Butylbenzene	7.820	119	5418534	199.0842082 ppb		98
79) 1,2,4-Trimethylbenzene	7.872	105	6918568	201.5027967 ppb		100
80) sec-Butylbenzene	7.955	105	8588347	195.8593078 ppb		100
81) 1,3-DICHLOROBENZENE	8.151	146	3424605	206.9083238 ppb		99
82) p-Isopropyltoluene	8.055	119	7013658	198.6737928 ppb		99
83) DICYCLOPENTADIENE	8.065	66	8960612	201.8855257 ppb		100
85) 1,4-DICHLOROBENZENE	8.219	146	3494109	202.0232498 ppb	#	36
86) 1,2,3-TRIMETHYLBENZENE	8.216	105	7288296	195.0315741 ppb		100
87) 1,2-DICHLOROBENZENE	8.553	146	3062426	193.2939730 ppb		99
88) n-Butylbenzene	8.386	91	6694569	180.3938452 ppb		100
89) 1,2-Dibromo-3-chloropr...	9.193	157	224389	195.0338969 ppb		99
90) 1,2,4-Trichlorobenzene	9.740	180	1614282	168.7976308 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.692	225	763723	157.7260991 ppb		99
92) Naphthalene	10.013	128	3968661	179.4693069 ppb		100
93) 1,2,3-Trichlorobenzene	10.167	180	1378752	162.8581240 ppb		99
94) 1-Methylnaphthalene	10.881	142	1767336	155.3195245 ppb		100
95) 2-Methylnaphthalene	11.013	142	1403720	148.0570466 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 14A.D
Acq On : 13 Nov 2015 6:09 pm
Operator : 522
Sample : STD VMS 200 ppb 15K13424
Misc : water 15J30547
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:46:27 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration

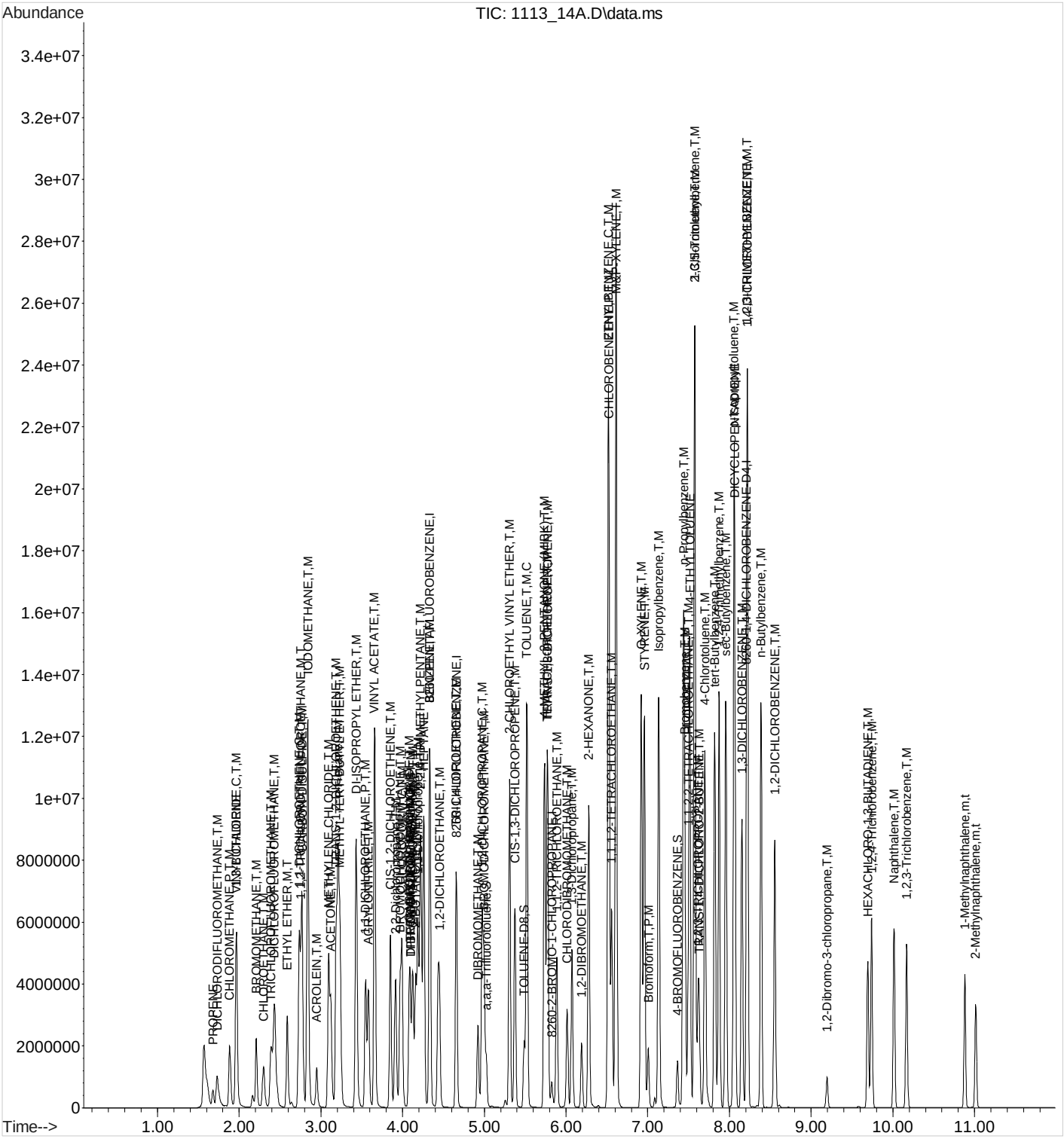
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 14A.D
Acq On : 13 Nov 2015 6:09 pm
Operator : 522
Sample : STD VMS 200 ppb 15K13424
Misc : water 15J30547
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:46:27 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:32:27 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 19A.D
Acq On : 13 Nov 2015 7:44 pm
Operator : 522
Sample : STD AP9 1a ppb 15H20824
Misc : water 15J30547
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:59:28 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:57:48 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.33
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.66
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.82
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.21
96) AP9-PENTAFLUOROBENZENE	4.332	168	332636	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	645384	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	113108	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	278814	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			

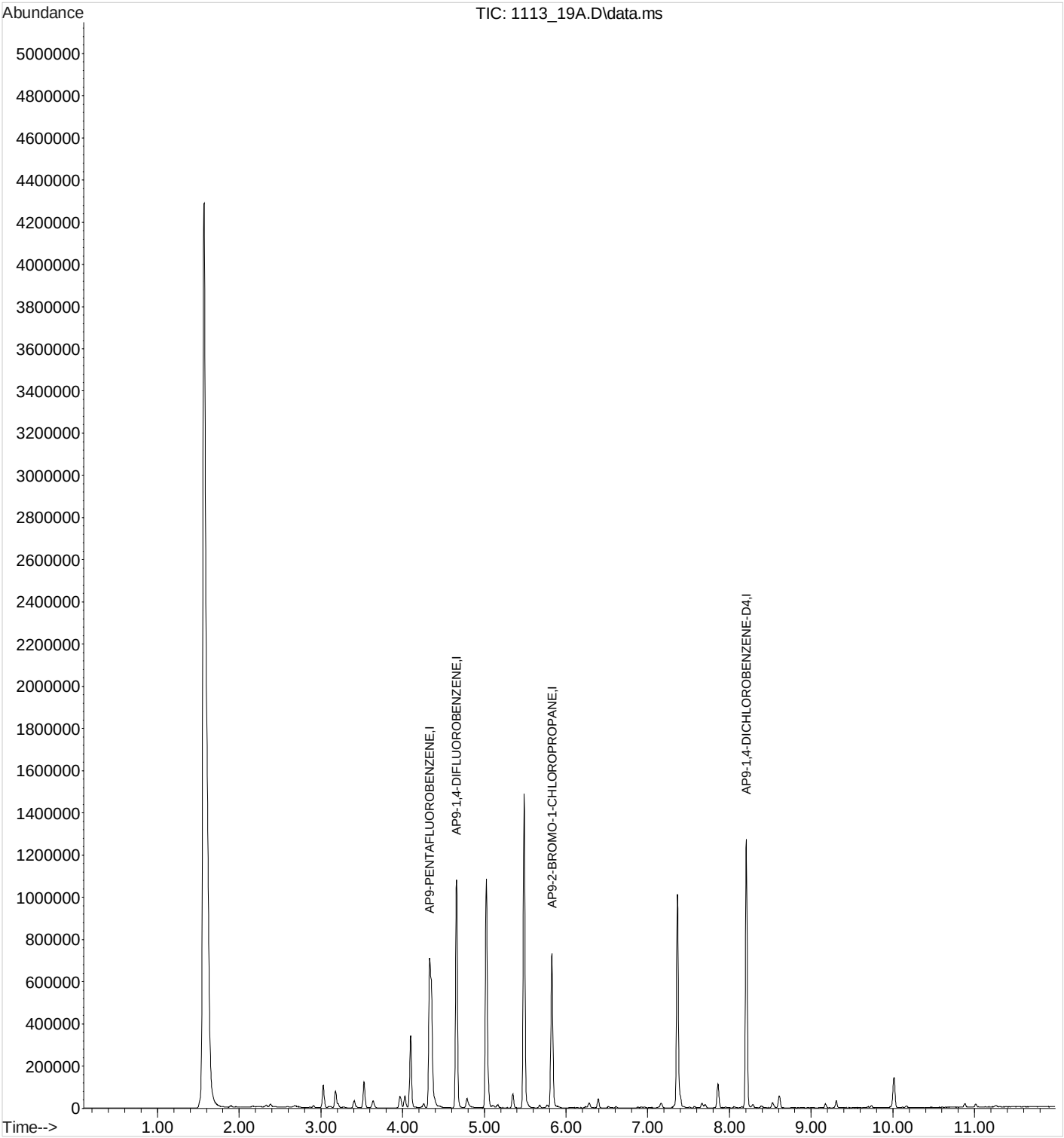
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 19A.D
Acq On : 13 Nov 2015 7:44 pm
Operator : 522
Sample : STD AP9 1a ppb 15H20824
Misc : water 15J30547
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:59:28 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:57:48 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 20A.D
Acq On : 13 Nov 2015 8:02 pm
Operator : 522
Sample : STD AP9 2.5a ppb 15H20824
Misc : water 15J30547
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:04:25 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:57:48 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.33
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.66
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.82
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.21
96)	AP9-PENTAFLUOROBENZENE	4.331	168	342787	40.0000000	ppb	0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.659	114	665472	40.0000000	ppb	0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.827	79	115773	40.0000000	ppb	# 0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.206	152	288126	40.0000000	ppb	0.00
System Monitoring Compounds							
33)	DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
	Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46)	a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
	Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50)	TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
	Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68)	4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
	Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			

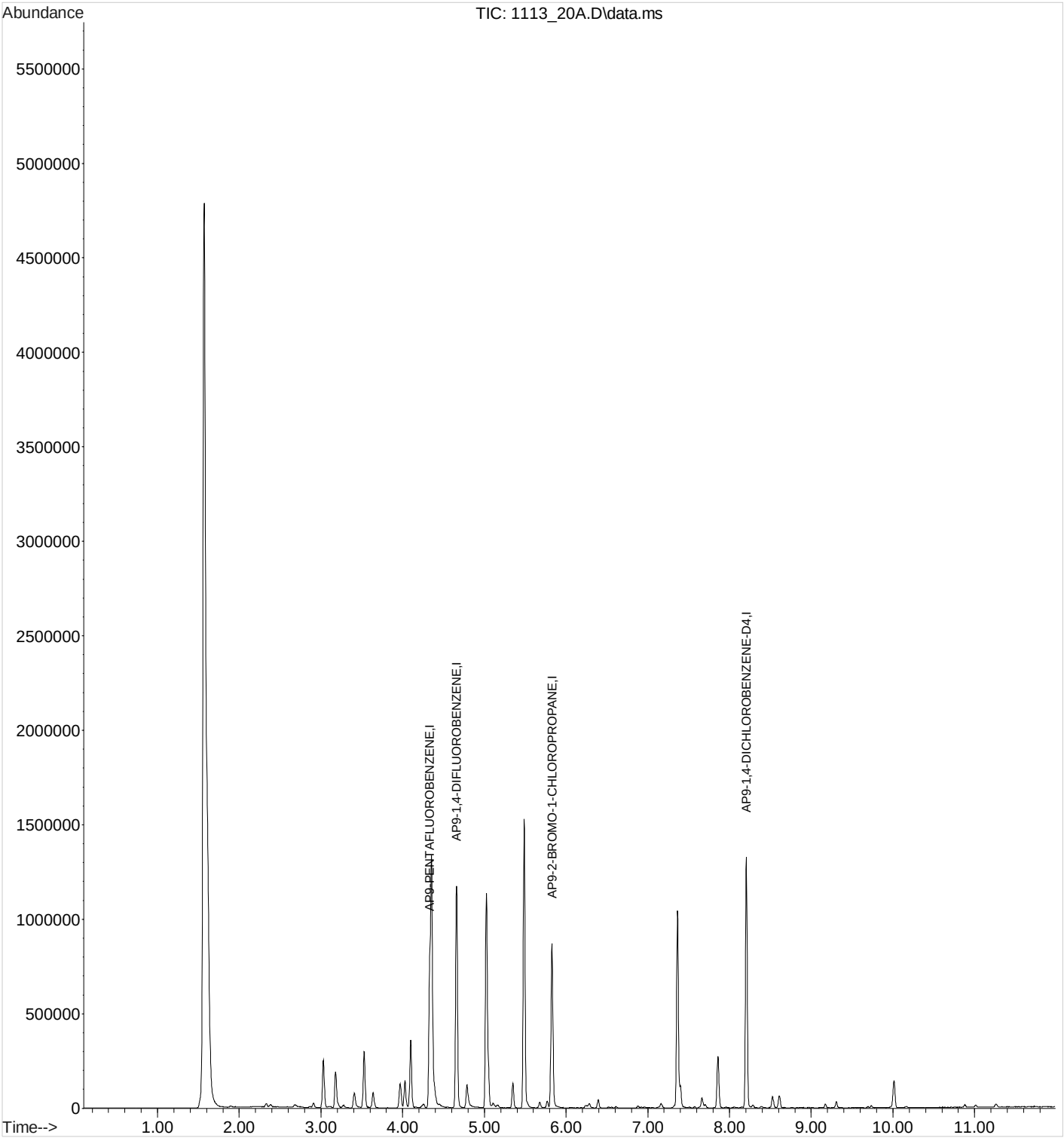
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 20A.D
Acq On : 13 Nov 2015 8:02 pm
Operator : 522
Sample : STD AP9 2.5a ppb 15H20824
Misc : water 15J30547
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:04:25 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:57:48 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 21A.D
Acq On : 13 Nov 2015 8:21 pm
Operator : 522
Sample : STD AP9 5a ppb 15H20824
Misc : water 15J30547
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:05:11 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:57:48 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.33
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.66
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.82
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.21
96) AP9-PENTAFLUOROBENZENE	4.332	168	328804	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	631180	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.824	79	112374	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	283768	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			

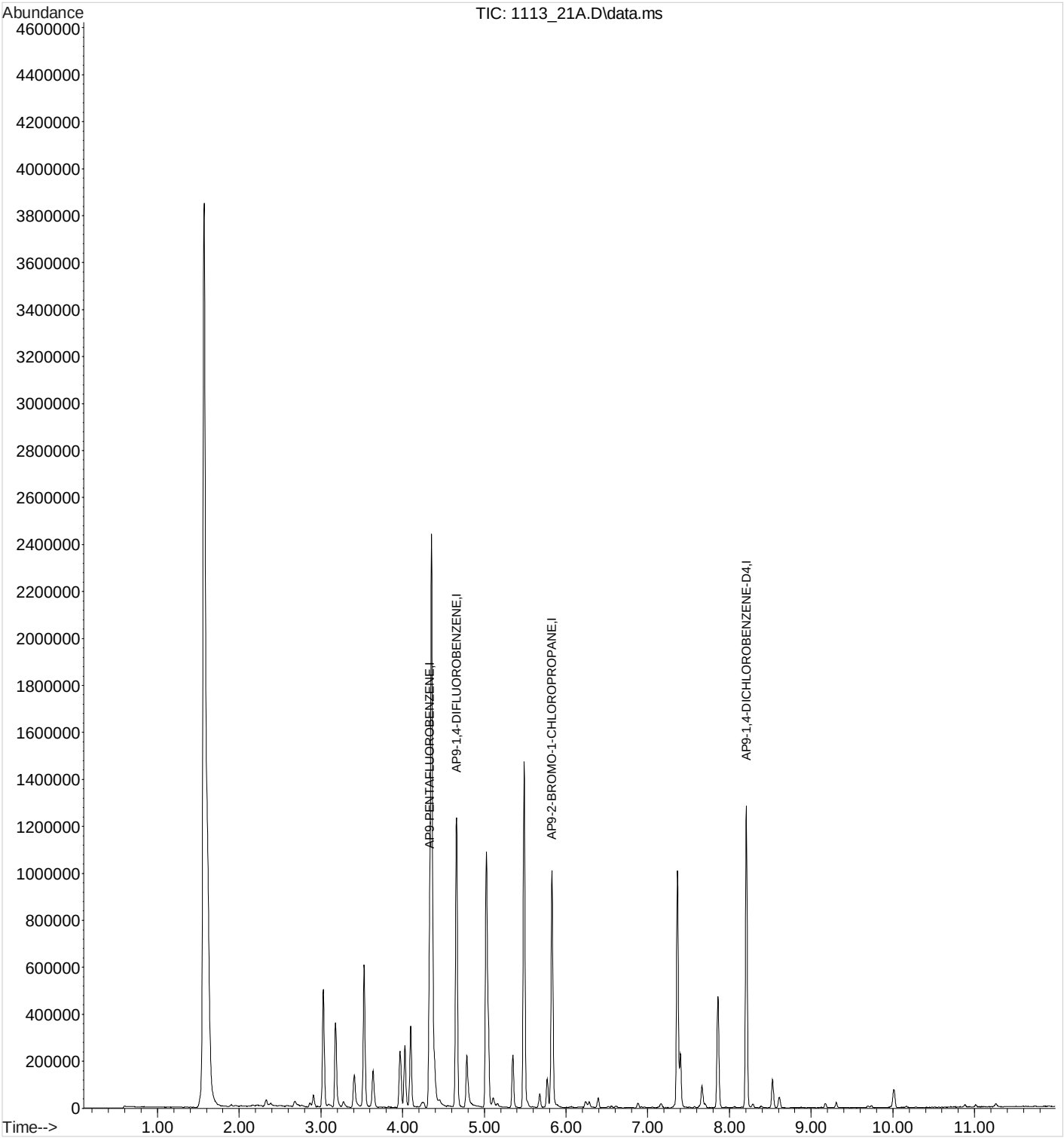
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 21A.D
Acq On : 13 Nov 2015 8:21 pm
Operator : 522
Sample : STD AP9 5a ppb 15H20824
Misc : water 15J30547
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:05:11 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:57:48 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 22A.D
Acq On : 13 Nov 2015 8:40 pm
Operator : 522
Sample : STD AP9 7.5a ppb 15H20824
Misc : water 15J30547
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:06:00 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:57:48 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.33
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.66
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.82
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.21
96) AP9-PENTAFLUOROBENZENE	4.332	168	350937	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.659	114	668726	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	118063	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	294994	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			

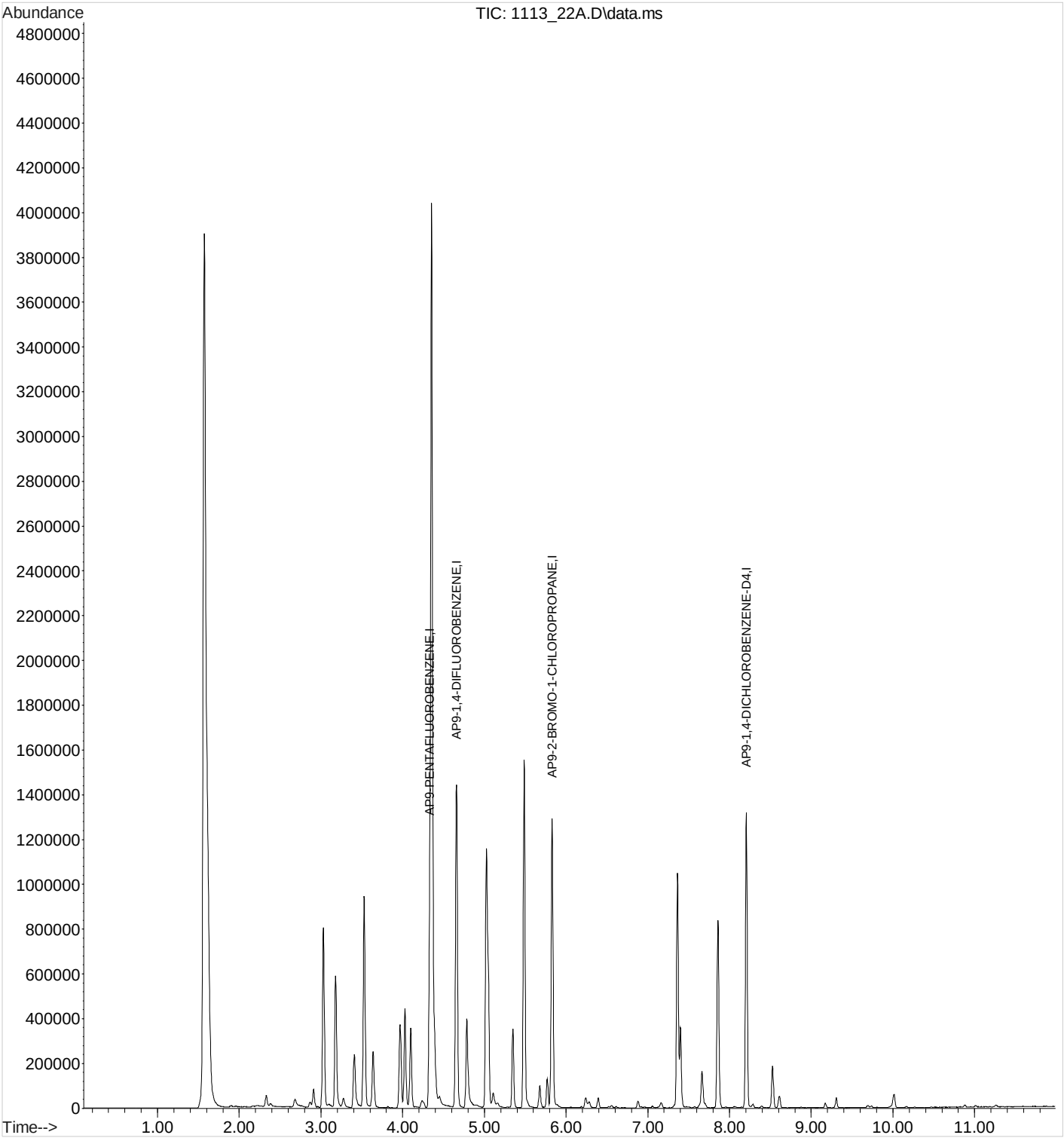
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 22A.D
Acq On : 13 Nov 2015 8:40 pm
Operator : 522
Sample : STD AP9 7.5a ppb 15H20824
Misc : water 15J30547
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:06:00 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:57:48 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 23A.D
Acq On : 13 Nov 2015 8:59 pm
Operator : 522
Sample : MSTD AP9 10a ppb 15H20824
Misc : water 15J30547
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:56:18 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.33
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.66
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.82
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.21
96) AP9-PENTAFLUOROBENZENE	4.332	168	323411	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	633046	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	109627	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	278897	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			

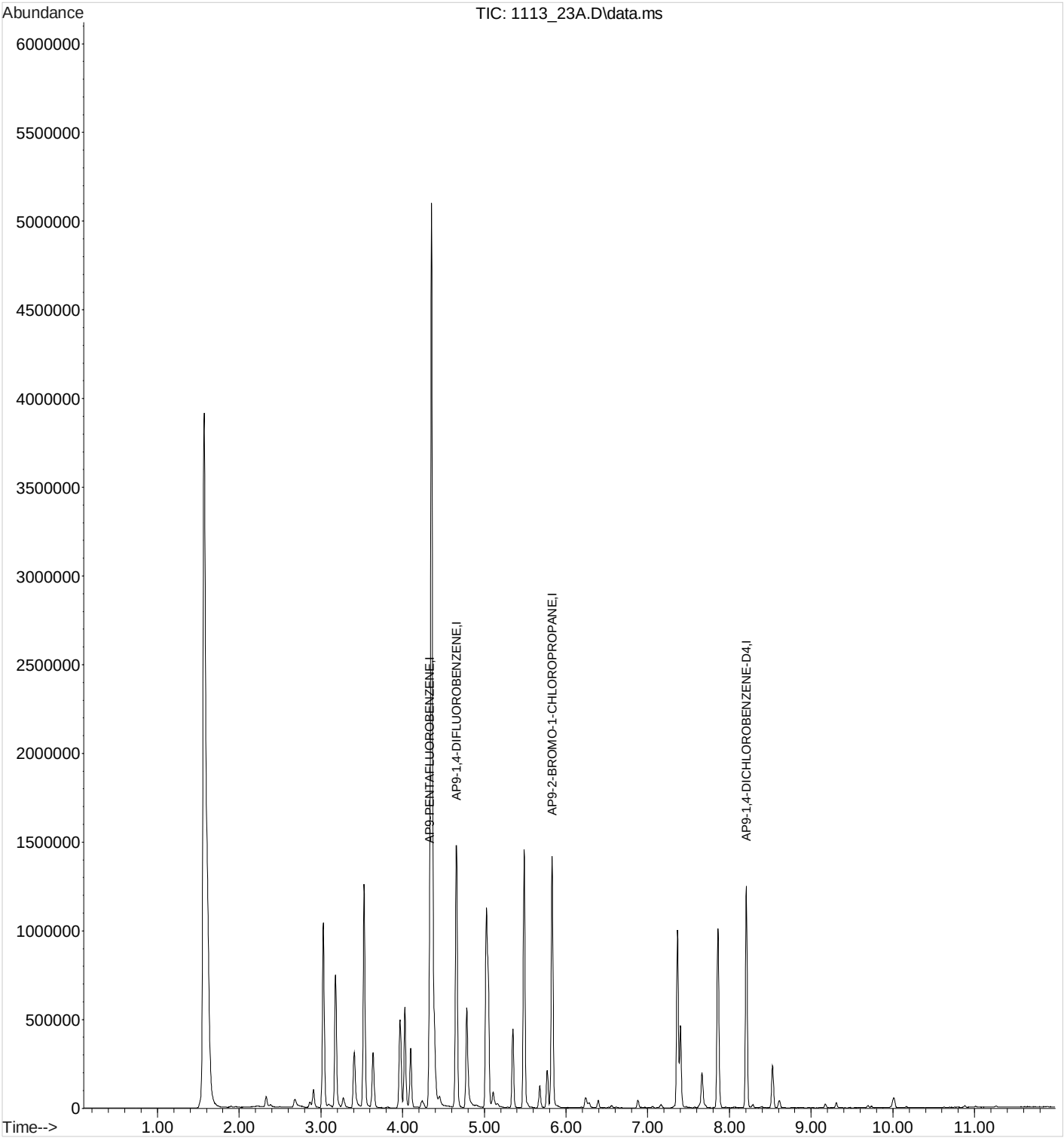
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 23A.D
Acq On : 13 Nov 2015 8:59 pm
Operator : 522
Sample : MSTD AP9 10a ppb 15H20824
Misc : water 15J30547
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:56:18 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 24A.D
Acq On : 13 Nov 2015 9:19 pm
Operator : 522
Sample : STD AP9 12.5a ppb 15H20824
Misc : water 15J30547
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:06:51 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:57:48 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.33
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.66
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.82
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.21
96) AP9-PENTAFLUOROBENZENE	4.328	168	341237	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.659	114	661139	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.823	79	117425	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	280813	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			

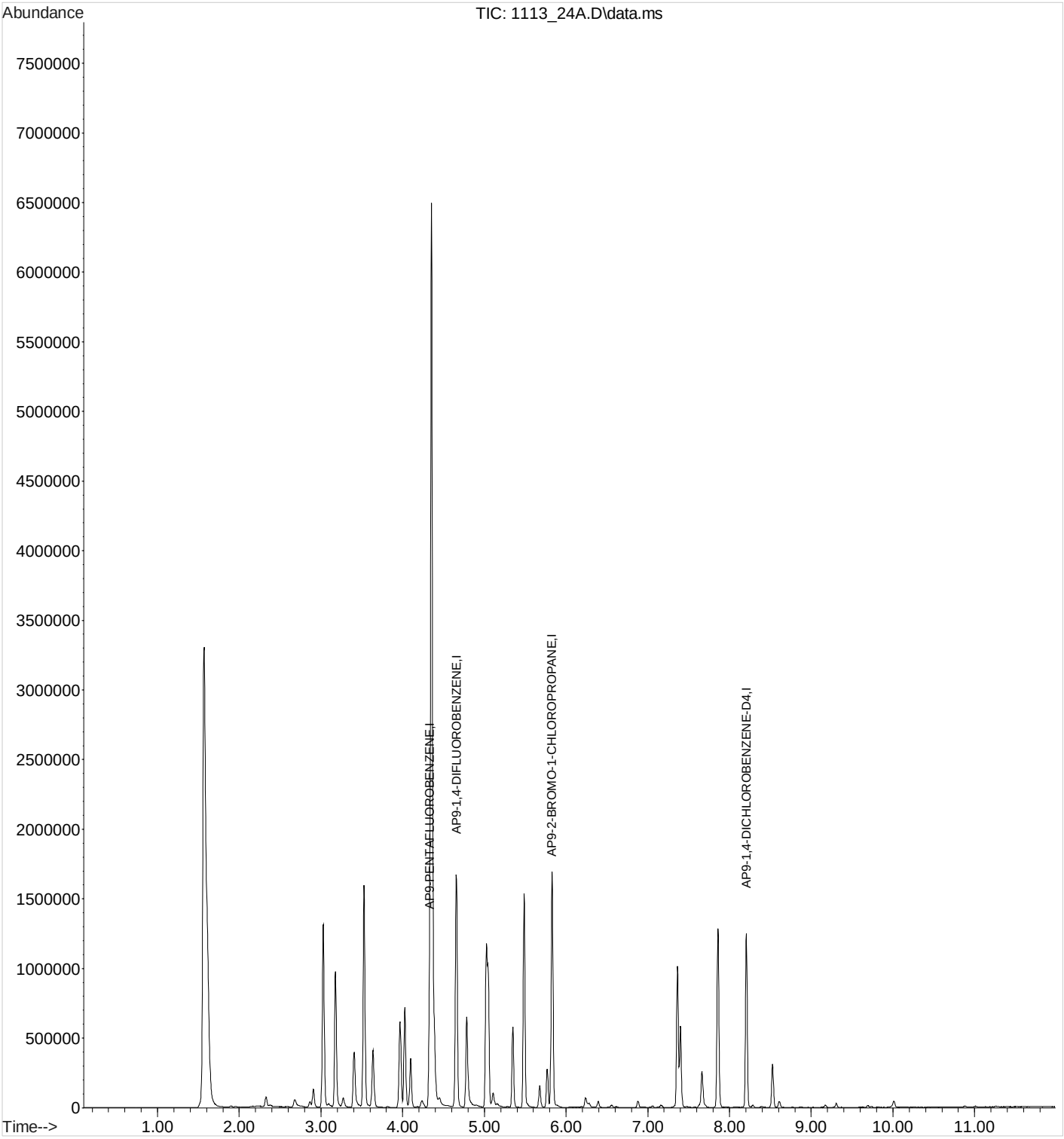
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 24A.D
Acq On : 13 Nov 2015 9:19 pm
Operator : 522
Sample : STD AP9 12.5a ppb 15H20824
Misc : water 15J30547
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:06:51 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:57:48 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 25A.D
Acq On : 13 Nov 2015 9:38 pm
Operator : 522
Sample : STD AP9 15a ppb 15H20824
Misc : water 15J30547
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:07:39 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:57:48 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.33
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.66
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.82
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.21
96) AP9-PENTAFLUOROBENZENE	4.332	168	344022	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	665748	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	119229	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	284970	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			

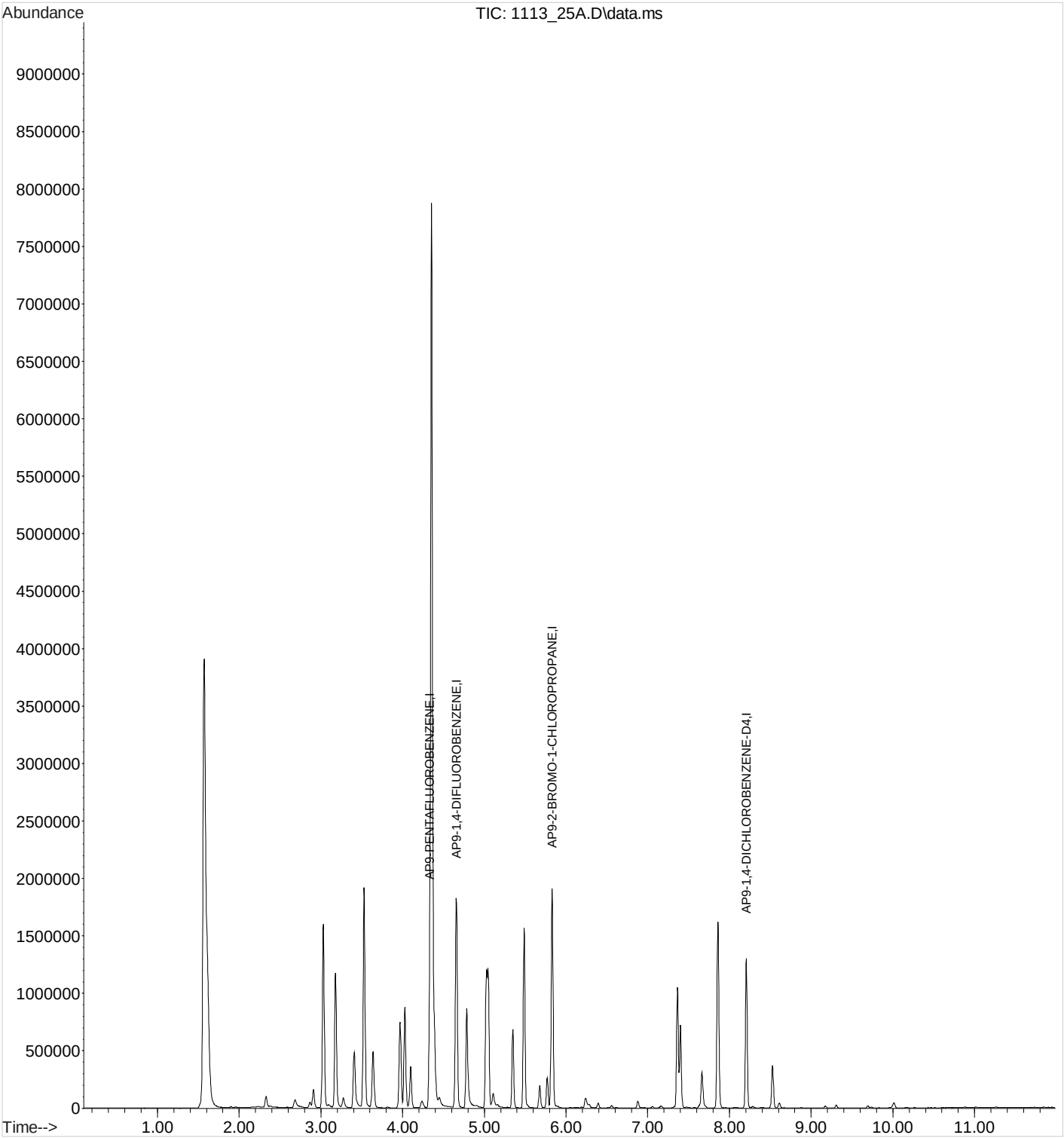
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 25A.D
Acq On : 13 Nov 2015 9:38 pm
Operator : 522
Sample : STD AP9 15a ppb 15H20824
Misc : water 15J30547
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:07:39 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:57:48 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 26A.D
Acq On : 13 Nov 2015 9:57 pm
Operator : 522
Sample : STD AP9 17.5a ppb 15H20824
Misc : water 15J30547
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:08:27 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:57:48 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.33
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.66
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.82
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.21
96) AP9-PENTAFLUOROBENZENE	4.332	168	362217	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.659	114	697281	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	125885	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	297468	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			

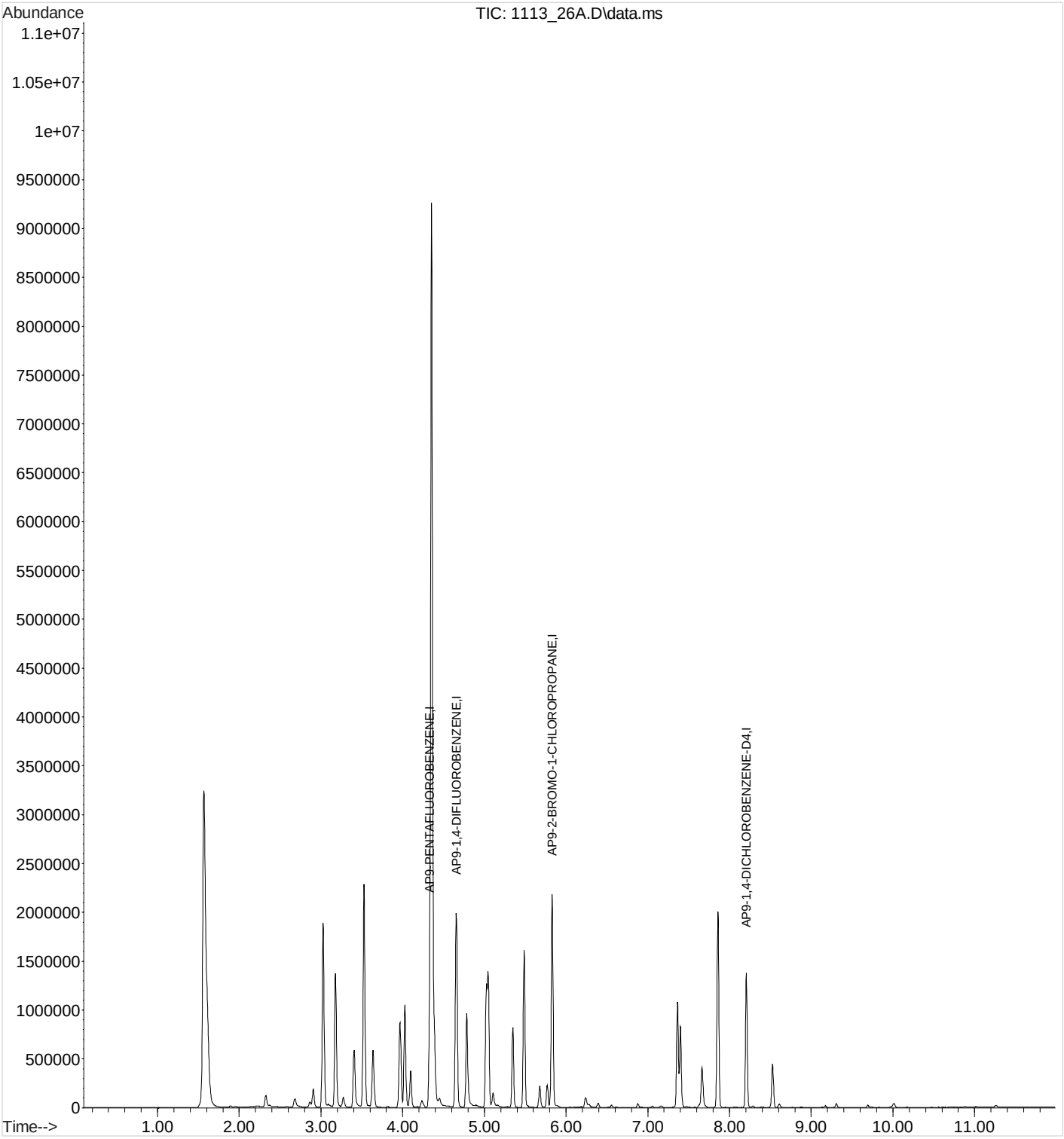
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 26A.D
Acq On : 13 Nov 2015 9:57 pm
Operator : 522
Sample : STD AP9 17.5a ppb 15H20824
Misc : water 15J30547
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:08:27 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:57:48 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 27A.D
Acq On : 13 Nov 2015 10:16 pm
Operator : 522
Sample : STD AP9 20a ppb 15H20824
Misc : water 15J30547
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:09:11 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:57:48 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.33
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.66
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.82
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.21
96) AP9-PENTAFLUOROBENZENE	4.331	168	365013	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.659	114	703926	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	126386	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	313865	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#			

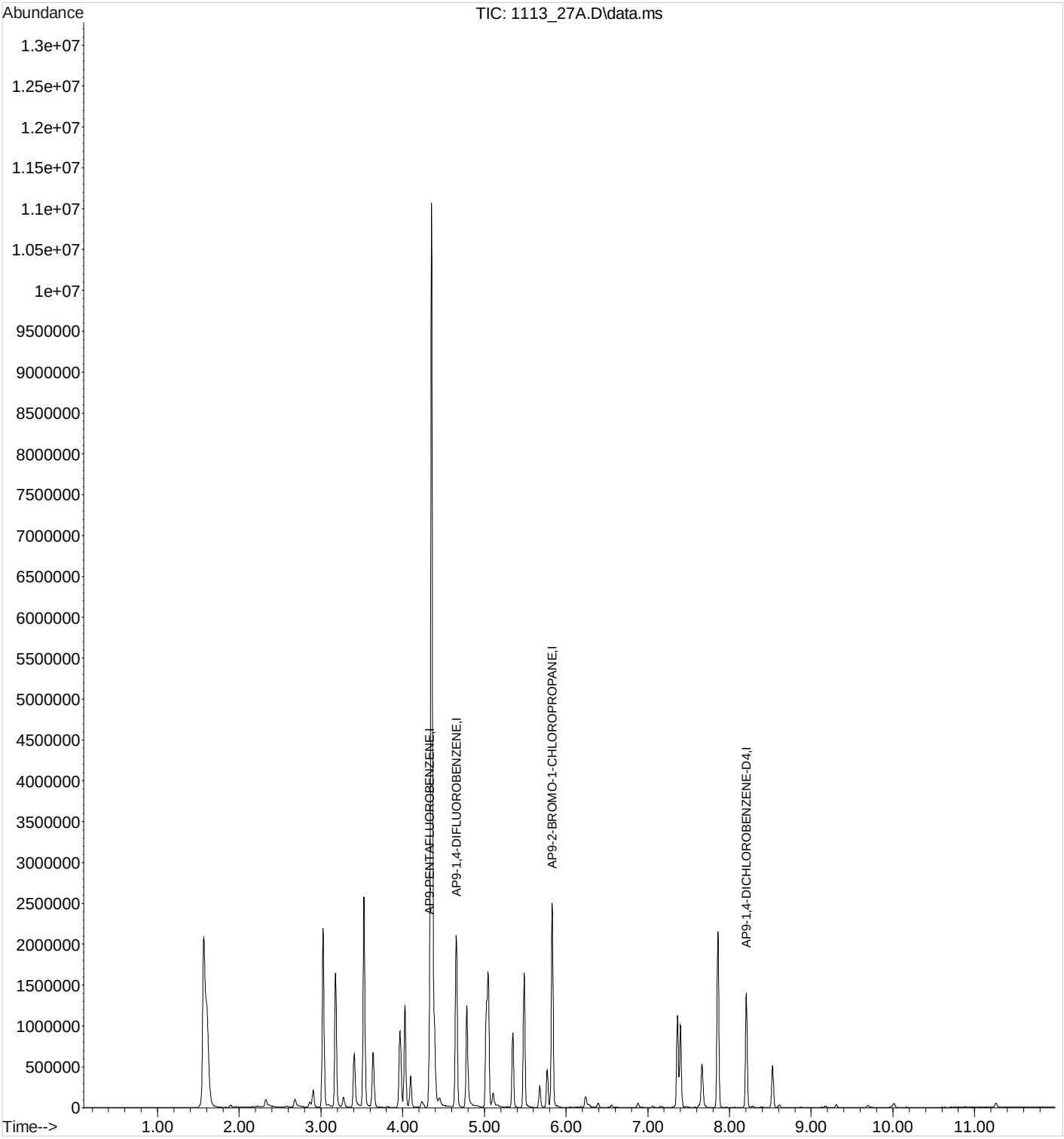
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 27A.D
Acq On : 13 Nov 2015 10:16 pm
Operator : 522
Sample : STD AP9 20a ppb 15H20824
Misc : water 15J30547
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 11:09:11 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:57:48 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 01A.D
Acq On : 13 Nov 2015 2:01 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:53:33 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration

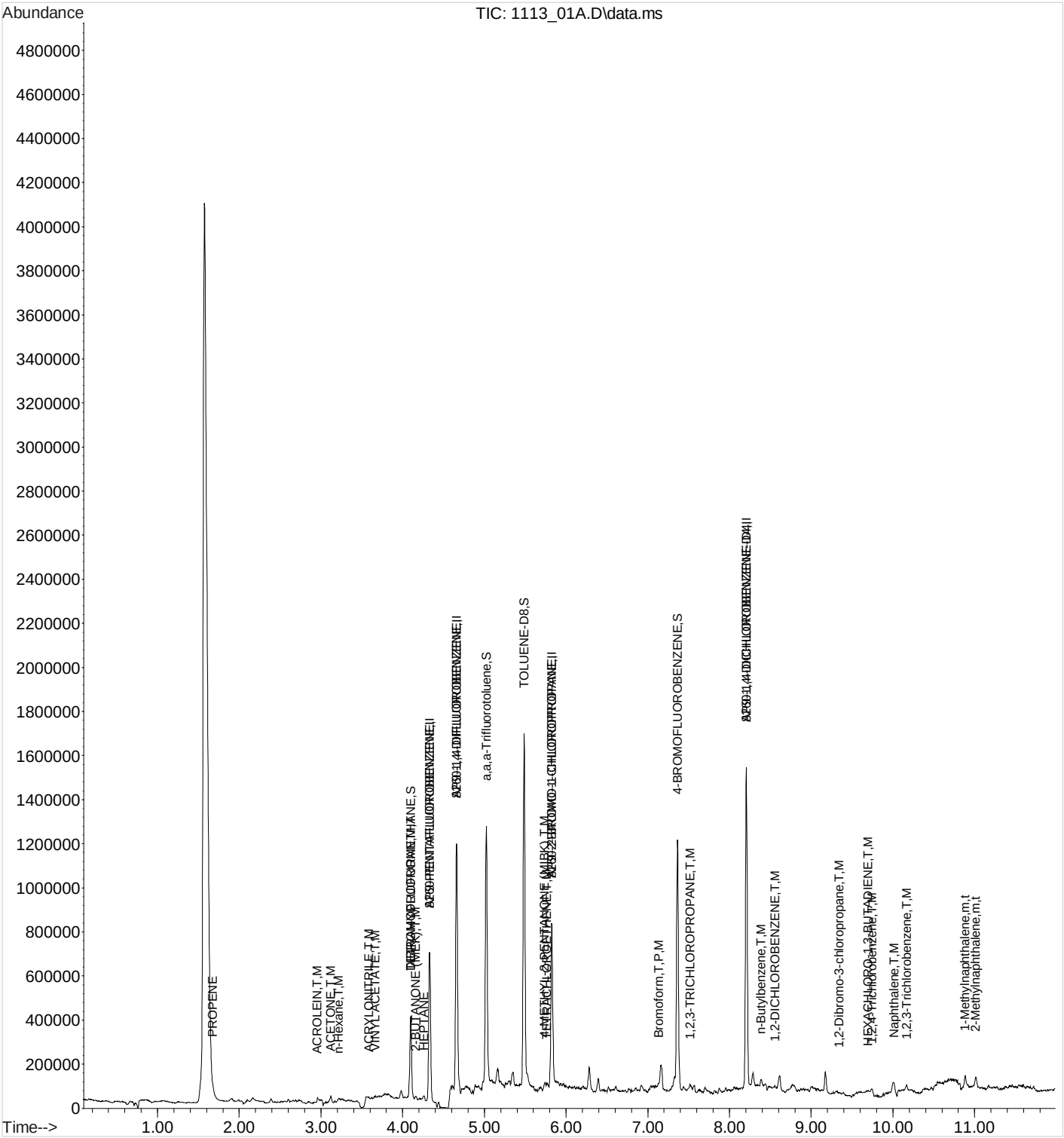
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.332	168	344831	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	691872	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.823	79	129642	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	316202	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.332	168	344831	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	691872	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.823	79	129642	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	316202	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.097	111	191326	38.6310051	ppb		0.00
Spiked Amount 40.000	Range 79 - 121			Recovery = 96.58%			
46) a,a,a-Trifluorotoluene	5.023	146	390717	41.8398316	ppb		0.00
Spiked Amount 40.000	Range 90 - 116			Recovery = 104.60%			
50) TOLUENE-D8	5.486	98	908618	39.8691797	ppb		0.00
Spiked Amount 40.000	Range 90 - 115			Recovery = 99.67%			
68) 4-BROMOFLUOROBENZENE	7.364	95	376907	39.8805370	ppb		0.00
Spiked Amount 40.000	Range 80 - 120			Recovery = 99.70%			
Target Compounds							Qvalue
3) PROPENE	1.673	41	1462	0.9326783	ppb		87
13) ACROLEIN	2.955	56	844	0.8673136	ppb	#	11
16) ACETONE	3.119	43	24795	7.4448867	ppb		98
20) ACRYLONITRILE	3.586	53	1491	0.7066386	ppb	#	65
21) n-Hexane	3.213	56	4993	0.6057580	ppb	#	60
25) VINYL ACETATE	3.660	43	5144	0.3819951	ppb	#	74
29) 2-BUTANONE (MEK)	4.158	43	23463	6.3835763	ppb		98
31) TETRAHYDROFURAN	4.097	42	1196	0.6304881	ppb	#	75
38) HEPTANE	4.258	43	8342	0.5399565	ppb	#	85
49) 4-METHYL-2-PENTANONE (...	5.737	43	10579	1.7689880	ppb		92
55) TETRACHLOROETHENE	5.762	164	1837	0.3294161	ppb	#	27
66) Bromoform	7.132	173	997	0.3038988	ppb	#	61
71) 1,2,3-TRICHLOROPROPANE	7.518	110	1293	0.6112881	ppb	#	25
87) 1,2-DICHLOROBENZENE	8.556	146	4430	0.3175571	ppb		94
88) n-Butylbenzene	8.386	91	11262	0.3611215	ppb		96
89) 1,2-Dibromo-3-chloropr...	9.341	157	632	0.6178602	ppb	#	1
90) 1,2,4-Trichlorobenzene	9.743	180	7222	0.8863505	ppb	#	90
91) HEXACHLORO-1,3-BUTADIENE	9.695	225	1539	0.3830565	ppb	#	84
92) Naphthalene	10.013	128	18354	0.9735617	ppb		96
93) 1,2,3-Trichlorobenzene	10.167	180	6784	0.9282653	ppb		97
94) 1-Methylnaphthalene	10.881	142	20799	2.1588704	ppb	#	95
95) 2-Methylnaphthalene	11.013	142	19480	2.4585948	ppb		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 01A.D
Acq On : 13 Nov 2015 2:01 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:53:33 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 01A.D
Acq On : 13 Nov 2015 2:01 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:53:33 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration

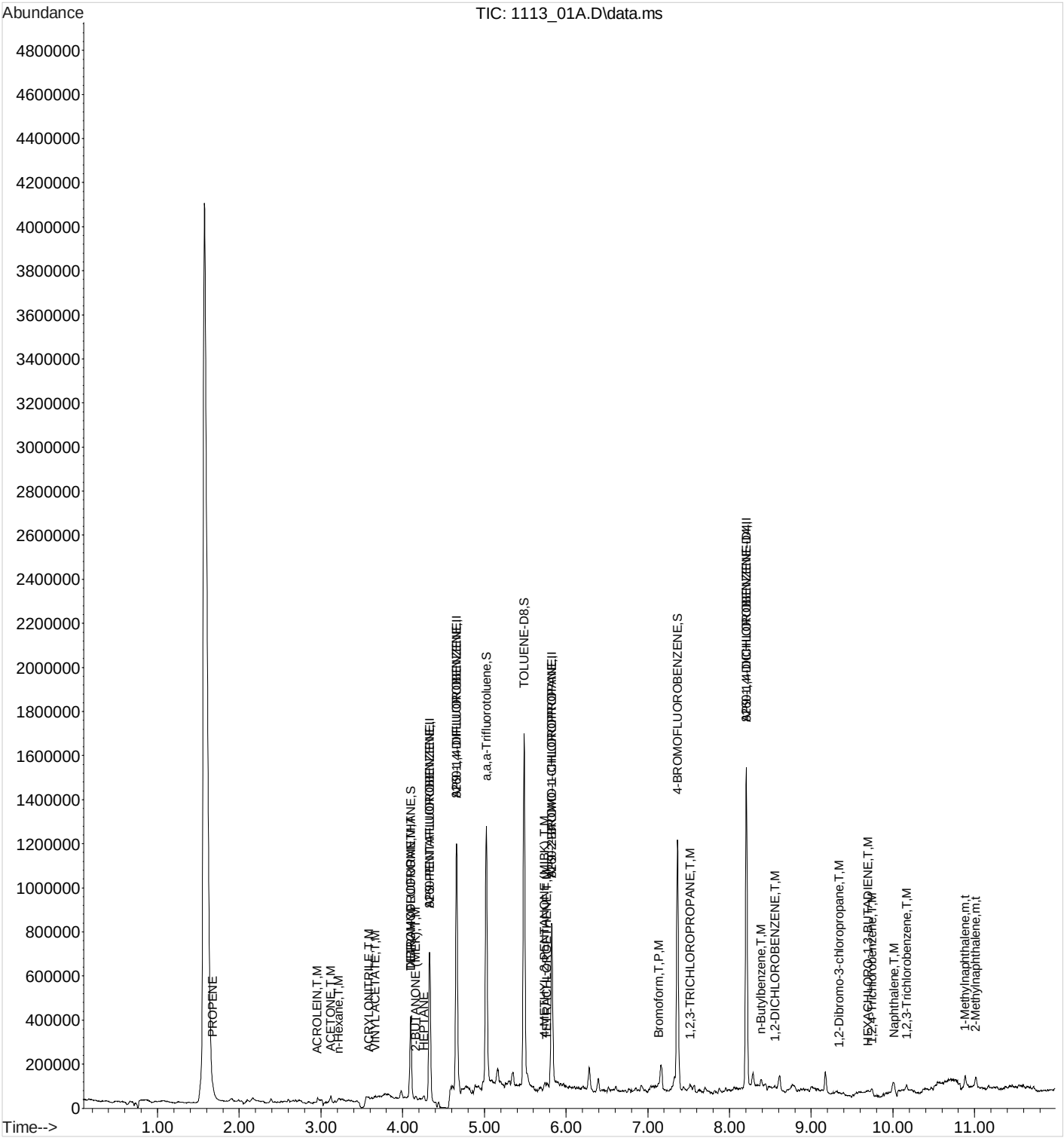
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.332	168	344831	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	691872	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.823	79	129642	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	316202	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.332	168	344831	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	691872	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.823	79	129642	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	316202	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.097	111	191326	38.6310051	ppb		0.00
Spiked Amount 40.000	Range 79 - 121			Recovery = 96.58%			
46) a,a,a-Trifluorotoluene	5.023	146	390717	41.8398316	ppb		0.00
Spiked Amount 40.000	Range 90 - 116			Recovery = 104.60%			
50) TOLUENE-D8	5.486	98	908618	39.8691797	ppb		0.00
Spiked Amount 40.000	Range 90 - 115			Recovery = 99.67%			
68) 4-BROMOFLUOROBENZENE	7.364	95	376907	39.8805370	ppb		0.00
Spiked Amount 40.000	Range 80 - 120			Recovery = 99.70%			
Target Compounds							Qvalue
3) PROPENE	1.673	41	1462	0.9326783	ppb		87
13) ACROLEIN	2.955	56	844	0.8673136	ppb	#	11
16) ACETONE	3.119	43	24795	7.4448867	ppb		98
20) ACRYLONITRILE	3.586	53	1491	0.7066386	ppb	#	65
21) n-Hexane	3.213	56	4993	0.6057580	ppb	#	60
25) VINYL ACETATE	3.660	43	5144	0.3819951	ppb	#	74
29) 2-BUTANONE (MEK)	4.158	43	23463	6.3835763	ppb		98
31) TETRAHYDROFURAN	4.097	42	1196	0.6304881	ppb	#	75
38) HEPTANE	4.258	43	8342	0.5399565	ppb	#	85
49) 4-METHYL-2-PENTANONE (...	5.737	43	10579	1.7689880	ppb		92
55) TETRACHLOROETHENE	5.762	164	1837	0.3294161	ppb	#	27
66) Bromoform	7.132	173	997	0.3038988	ppb	#	61
71) 1,2,3-TRICHLOROPROPANE	7.518	110	1293	0.6112881	ppb	#	25
87) 1,2-DICHLOROBENZENE	8.556	146	4430	0.3175571	ppb		94
88) n-Butylbenzene	8.386	91	11262	0.3611215	ppb		96
89) 1,2-Dibromo-3-chloropr...	9.341	157	632	0.6178602	ppb	#	1
90) 1,2,4-Trichlorobenzene	9.743	180	7222	0.8863505	ppb	#	90
91) HEXACHLORO-1,3-BUTADIENE	9.695	225	1539	0.3830565	ppb	#	84
92) Naphthalene	10.013	128	18354	0.9735617	ppb		96
93) 1,2,3-Trichlorobenzene	10.167	180	6784	0.9282653	ppb		97
94) 1-Methylnaphthalene	10.881	142	20799	2.1588704	ppb	#	95
95) 2-Methylnaphthalene	11.013	142	19480	2.4585948	ppb		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 01A.D
Acq On : 13 Nov 2015 2:01 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:53:33 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 02A.D
Acq On : 13 Nov 2015 2:20 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:53:37 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration

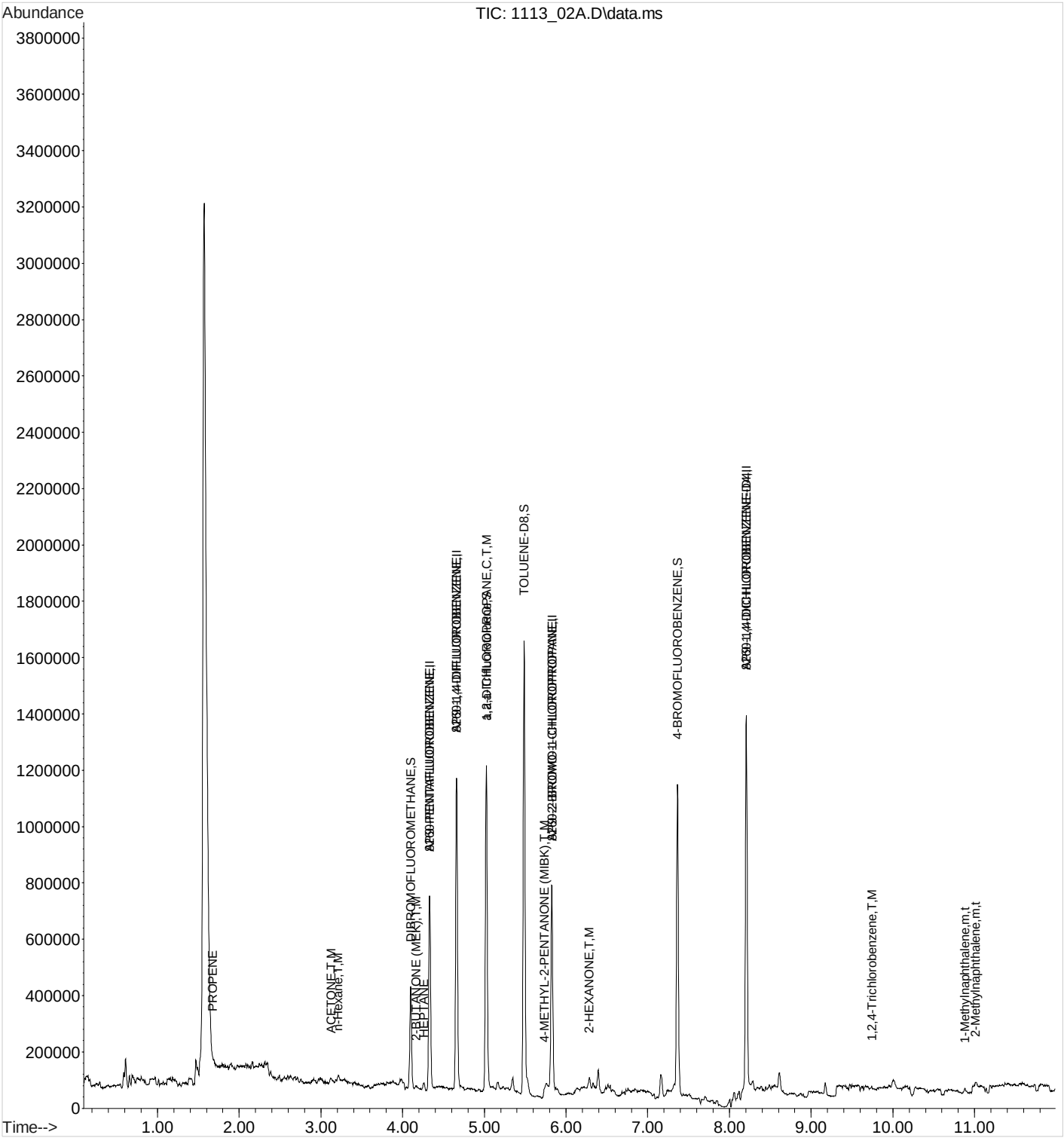
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.332	168	354281	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	692784	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	124328	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	304695	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.332	168	354281	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	692784	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	124328	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	304695	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.100	111	191310	37.5974272	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 93.99%			
46) a,a,a-Trifluorotoluene	5.023	146	380260	40.6664414	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.67%			
50) TOLUENE-D8	5.486	98	896742	39.2962747	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 98.24%			
68) 4-BROMOFLUOROBENZENE	7.364	95	357111	39.4009594	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.50%			
Target Compounds						Qvalue
3) PROPENE	1.673	41	2069	1.2847050	ppb #	66
16) ACETONE	3.123	43	10046	2.9359293	ppb	99
21) n-Hexane	3.210	56	4219	0.4982021	ppb #	73
29) 2-BUTANONE (MEK)	4.162	43	8086	2.1412762	ppb #	83
38) HEPTANE	4.261	43	8540	0.5380280	ppb	91
43) 1,2-DICHLOROPROPANE	5.023	62	8325	1.2888873	ppb #	46
49) 4-METHYL-2-PENTANONE (...	5.737	43	2006	0.3349956	ppb #	76
57) 2-HEXANONE	6.280	58	6906	2.2941402	ppb	81
90) 1,2,4-Trichlorobenzene	9.740	180	3727	0.4746863	ppb #	64
94) 1-Methylnaphthalene	10.882	142	5864	0.6316513	ppb	97
95) 2-Methylnaphthalene	11.013	142	5128	0.6716535	ppb	92

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 02A.D
Acq On : 13 Nov 2015 2:20 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:53:37 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 02A.D
Acq On : 13 Nov 2015 2:20 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:53:37 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration

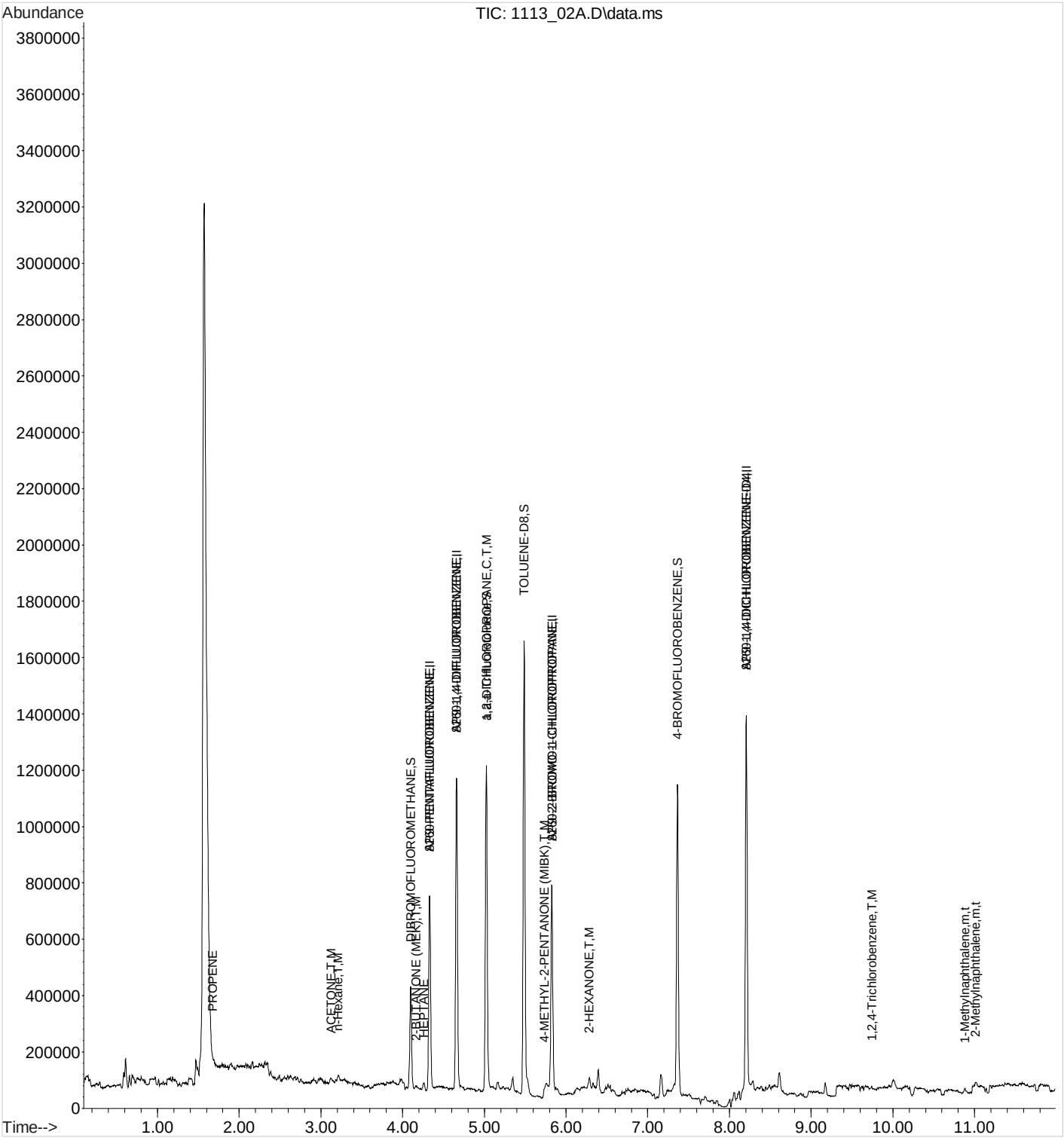
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.332	168	354281	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	692784	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	124328	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	304695	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.332	168	354281	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	692784	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	124328	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	304695	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.100	111	191310	37.5974272 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 93.99%		
46) a,a,a-Trifluorotoluene	5.023	146	380260	40.6664414 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.67%		
50) TOLUENE-D8	5.486	98	896742	39.2962747 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 98.24%		
68) 4-BROMOFLUOROBENZENE	7.364	95	357111	39.4009594 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.50%		
Target Compounds					Qvalue
3) PROPENE	1.673	41	2069	1.2847050 ppb #	66
16) ACETONE	3.123	43	10046	2.9359293 ppb	99
21) n-Hexane	3.210	56	4219	0.4982021 ppb #	73
29) 2-BUTANONE (MEK)	4.162	43	8086	2.1412762 ppb #	83
38) HEPTANE	4.261	43	8540	0.5380280 ppb	91
43) 1,2-DICHLOROPROPANE	5.023	62	8325	1.2888873 ppb #	46
49) 4-METHYL-2-PENTANONE (...	5.737	43	2006	0.3349956 ppb #	76
57) 2-HEXANONE	6.280	58	6906	2.2941402 ppb	81
90) 1,2,4-Trichlorobenzene	9.740	180	3727	0.4746863 ppb #	64
94) 1-Methylnaphthalene	10.882	142	5864	0.6316513 ppb	97
95) 2-Methylnaphthalene	11.013	142	5128	0.6716535 ppb	92

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 02A.D
Acq On : 13 Nov 2015 2:20 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:53:37 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 15A.D
Acq On : 13 Nov 2015 6:28 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:54:53 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.331	168	331363	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.659	114	658721	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	114362	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	272269	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.331	168	331363	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.659	114	658721	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	114362	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	272269	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.100	111	180646	37.9570676	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 94.89%			
46) a,a,a-Trifluorotoluene	5.026	146	355293	39.9611997	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 99.90%			
50) TOLUENE-D8	5.486	98	848705	39.1144269	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 97.79%			
68) 4-BROMOFLUOROBENZENE	7.364	95	332960	39.9376804	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 99.84%			
Target Compounds						Qvalue
3) PROPENE	1.669	41	2680	1.7791869	ppb #	77
5) CHLOROMETHANE	1.878	50	4130	0.4179012	ppb #	93
6) VINYL CHLORIDE	1.949	62	4939	0.4757462	ppb #	94
7) 1,3-BUTADIENE	1.962	39	3217	0.5002838	ppb	86
8) BROMOMETHANE	2.216	94	2519	0.3902177	ppb #	87
9) CHLOROETHANE	2.303	64	3189	0.4599153	ppb #	73
10) TRICHLOROFLUOROMETHANE	2.399	101	4495	0.4240137	ppb #	86
11) DICHLOROFLUOROMETHANE	2.434	67	5946	0.3941936	ppb	94
13) ACROLEIN	2.949	56	3928	4.2005628	ppb	89
14) 1,1-DICHLOROETHENE	2.737	61	5073	0.4204238	ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.750	101	2848	0.4232833	ppb #	91
16) ACETONE	3.119	43	24531	7.6649888	ppb	95
17) IODOMETHANE	2.843	142	13547	1.3486983	ppb	96
18) CARBON DISULFIDE	2.772	76	12211	0.4820768	ppb #	76
19) METHYLENE CHLORIDE	3.094	84	3282	0.3938244	ppb	98
20) ACRYLONITRILE	3.586	53	10515	5.1859849	ppb	95
21) n-Hexane	3.213	56	7786	0.9830016	ppb #	72
22) TRANS-1,2-DICHLOROETHENE	3.187	96	3079	0.4026949	ppb	96
24) 1,1-DICHLOROETHANE	3.547	63	4708	0.3191461	ppb	92
25) VINYL ACETATE	3.659	43	31856	2.4617861	ppb	95
27) 2,2-Dichloropropane	3.910	77	4257	0.3869704	ppb #	86
28) CIS-1,2-DICHLOROETHENE	3.852	96	2778	0.3299918	ppb	84
29) 2-BUTANONE (MEK)	4.161	43	40161	11.3707031	ppb	91
30) BROMOCHLOROMETHANE	3.968	130	1510	0.3647581	ppb	92
31) TETRAHYDROFURAN	4.094	42	3355	1.8405200	ppb	95
32) CHLOROFORM	3.991	83	4207	0.3116927	ppb #	95
34) 1,1,1-TRICHLOROETHANE	4.126	97	3846	0.3761388	ppb	94
35) CARBON TETRACHLORIDE	4.087	119	3182	0.4055300	ppb	84
36) 1,1-Dichloropropene	4.184	75	4730	0.4564167	ppb #	86
37) 2,2,4-TRIMETHYLPENTANE	4.219	57	13042	0.3950674	ppb	91
38) HEPTANE	4.258	43	13927	0.9380986	ppb	97
39) BENZENE	4.331	78	14115	0.4186040	ppb #	52
40) 1,2-DICHLOROETHANE	4.450	62	4071	0.3983931	ppb #	88

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 15A.D
Acq On : 13 Nov 2015 6:28 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:54:53 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration

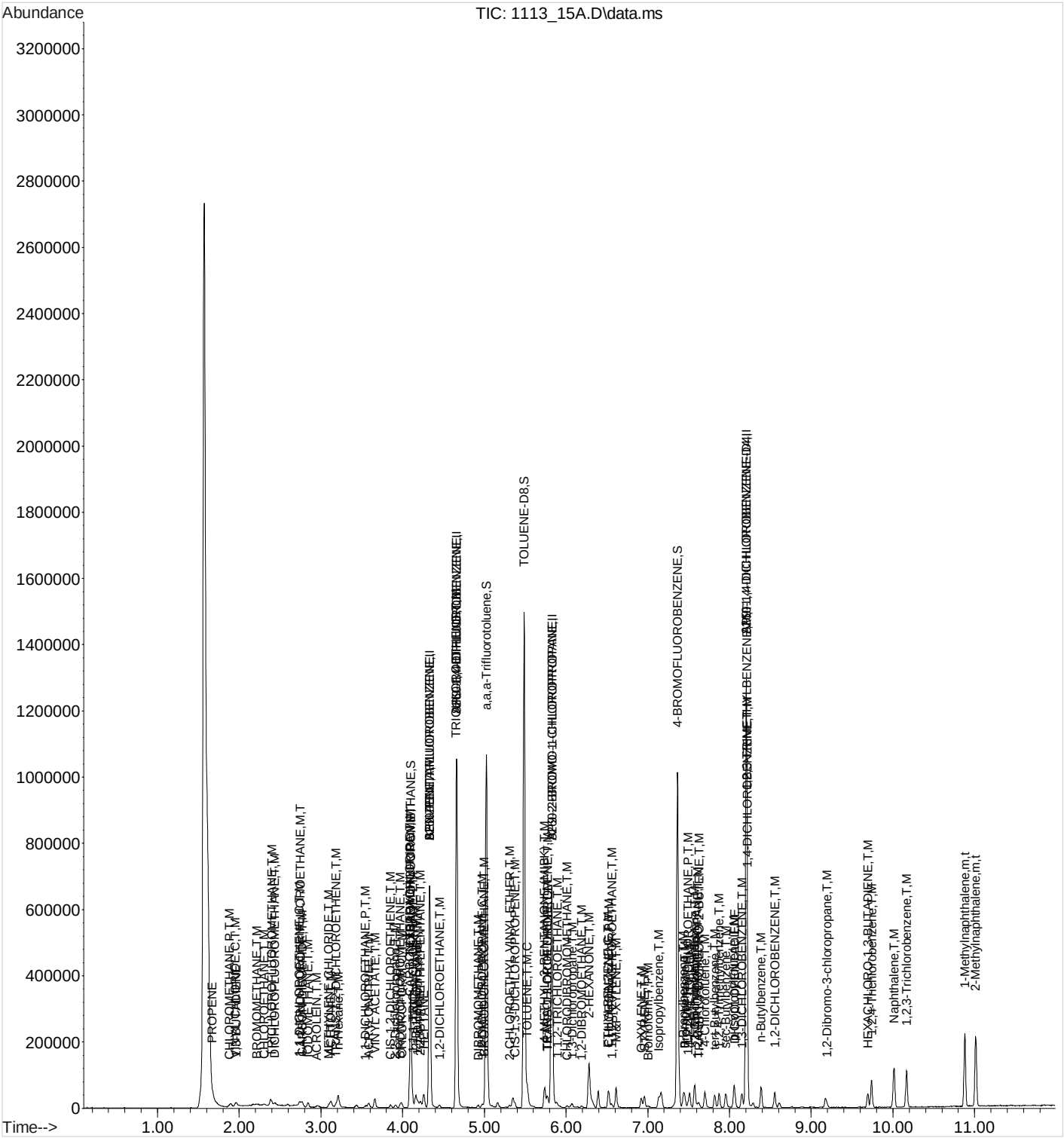
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
42)	TRICHLOROETHENE	4.656	130	3076	0.4273179 ppb		90
43)	1,2-DICHLOROPROPANE	4.975	62	1989	0.3238634 ppb		97
44)	DIBROMOMETHANE	4.923	93	2124	0.5256996 ppb		91
45)	BROMODICHLOROMETHANE	4.994	83	3530	0.3372115 ppb	#	56
47)	2-CHLOROETHYL VINYL ETHER	5.309	63	2158	0.7606511 ppb	#	86
48)	CIS-1,3-DICHLOROPROPENE	5.373	75	5722	0.4382569 ppb	#	97
49)	4-METHYL-2-PENTANONE (...	5.737	43	49477	8.6897616 ppb		99
51)	TOLUENE	5.521	91	16671	0.4642076 ppb		89
52)	TRANS-1,3-DICHLOROPROPENE	5.775	75	6041	0.5384339 ppb	#	96
54)	1,1,2-TRICHLOROETHANE	5.891	97	2584	0.4543440 ppb		96
55)	TETRACHLOROETHENE	5.772	164	2875	0.5844368 ppb		95
56)	1,3-Dichloropropane	6.074	76	5650	0.5133045 ppb		98
57)	2-HEXANONE	6.280	58	54365	19.6336021 ppb		95
58)	CHLORODIBROMOMETHANE	6.010	129	2583	0.4595555 ppb		95
59)	1,2-DIBROMOETHANE	6.190	107	3607	0.6878695 ppb		97
60)	CHLOROBENZENE	6.524	112	12002	0.6164470 ppb		95
61)	1,1,1,2-TETRACHLOROETHANE	6.560	133	2190	0.3729818 ppb	#	99
62)	ETHYLBENZENE	6.515	106	5693	0.5140366 ppb		97
63)	M&P-XYLENE	6.611	106	15015	1.0865755 ppb		93
64)	O-XYLENE	6.920	106	6907	0.5266919 ppb		98
65)	STYRENE	6.958	104	14397	0.6697356 ppb		92
66)	Bromoform	7.003	173	1964	0.6786397 ppb	#	83
67)	Isopropylbenzene	7.135	105	18447	0.5476643 ppb		98
69)	Bromobenzene	7.450	77	14245	0.8668192 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.495	83	5060	0.7377205 ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.611	110	1791	0.9598581 ppb		86
72)	TRANS-1,4-DICHLORO-2-B...	7.630	53	1992	1.0044490 ppb	#	87
73)	n-Propylbenzene	7.434	91	30551	0.7200010 ppb		97
74)	4-ETHYLTOLUENE	7.515	105	25780	0.7502042 ppb		94
75)	2-Chlorotoluene	7.576	126	5943	0.7607310 ppb		75
76)	4-Chlorotoluene	7.698	91	22557	0.8673521 ppb		98
77)	1,3,5-Trimethylbenzene	7.573	105	20387	0.7210253 ppb		98
78)	tert-Butylbenzene	7.820	119	16797	0.7499728 ppb		99
79)	1,2,4-Trimethylbenzene	7.872	105	22508	0.7992063 ppb		99
80)	sec-Butylbenzene	7.952	105	28494	0.8023194 ppb		98
81)	1,3-DICHLOROBENZENE	8.151	146	15752	1.1327256 ppb		94
82)	p-Isopropyltoluene	8.055	119	26009	0.9133266 ppb		97
83)	DICYCLOPENTADIENE	8.064	66	22199	0.6106362 ppb		99
85)	1,4-DICHLOROBENZENE	8.219	146	16867	1.2421348 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.216	105	26707	0.9236902 ppb		99
87)	1,2-DICHLOROBENZENE	8.553	146	16626	1.3841154 ppb		98
88)	n-Butylbenzene	8.386	91	31656	1.1788547 ppb		100
89)	1,2-Dibromo-3-chloropr...	9.193	157	2431	2.7600982 ppb		90
90)	1,2,4-Trichlorobenzene	9.740	180	20954	2.9866296 ppb		96
91)	HEXACHLORO-1,3-BUTADIENE	9.695	225	6232	1.8014330 ppb		96
92)	Naphthalene	10.013	128	78426	4.8312471 ppb		99
93)	1,2,3-Trichlorobenzene	10.167	180	28827	4.5809141 ppb		97
94)	1-Methylnaphthalene	10.881	142	90680	10.9310541 ppb		99
95)	2-Methylnaphthalene	11.013	142	88169	12.9235055 ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 15A.D
Acq On : 13 Nov 2015 6:28 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:54:53 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 15A.D
Acq On : 13 Nov 2015 6:28 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:54:53 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.331	168	331363	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.659	114	658721	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	114362	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	272269	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.331	168	331363	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.659	114	658721	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	114362	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	272269	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.100	111	180646	37.9570676 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 94.89%		
46) a,a,a-Trifluorotoluene	5.026	146	355293	39.9611997 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 99.90%		
50) TOLUENE-D8	5.486	98	848705	39.1144269 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 97.79%		
68) 4-BROMOFLUOROBENZENE	7.364	95	332960	39.9376804 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 99.84%		
Target Compounds					Qvalue
3) PROPENE	1.669	41	2680	1.7791869 ppb #	77
5) CHLOROMETHANE	1.878	50	4130	0.4179012 ppb #	93
6) VINYL CHLORIDE	1.949	62	4939	0.4757462 ppb #	94
7) 1,3-BUTADIENE	1.962	39	3217	0.5002838 ppb	86
8) BROMOMETHANE	2.216	94	2519	0.3902177 ppb #	87
9) CHLOROETHANE	2.303	64	3189	0.4599153 ppb #	73
10) TRICHLOROFLUOROMETHANE	2.399	101	4495	0.4240137 ppb #	86
11) DICHLOROFLUOROMETHANE	2.434	67	5946	0.3941936 ppb	94
13) ACROLEIN	2.949	56	3928	4.2005628 ppb	89
14) 1,1-DICHLOROETHENE	2.737	61	5073	0.4204238 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.750	101	2848	0.4232833 ppb #	91
16) ACETONE	3.119	43	24531	7.6649888 ppb	95
17) IODOMETHANE	2.843	142	13547	1.3486983 ppb	96
18) CARBON DISULFIDE	2.772	76	12211	0.4820768 ppb #	76
19) METHYLENE CHLORIDE	3.094	84	3282	0.3938244 ppb	98
20) ACRYLONITRILE	3.586	53	10515	5.1859849 ppb	95
21) n-Hexane	3.213	56	7786	0.9830016 ppb #	72
22) TRANS-1,2-DICHLOROETHENE	3.187	96	3079	0.4026949 ppb	96
24) 1,1-DICHLOROETHANE	3.547	63	4708	0.3191461 ppb	92
25) VINYL ACETATE	3.659	43	31856	2.4617861 ppb	95
27) 2,2-Dichloropropane	3.910	77	4257	0.3869704 ppb #	86
28) CIS-1,2-DICHLOROETHENE	3.852	96	2778	0.3299918 ppb	84
29) 2-BUTANONE (MEK)	4.161	43	40161	11.3707031 ppb	91
30) BROMOCHLOROMETHANE	3.968	130	1510	0.3647581 ppb	92
31) TETRAHYDROFURAN	4.094	42	3355	1.8405200 ppb	95
32) CHLOROFORM	3.991	83	4207	0.3116927 ppb #	95
34) 1,1,1-TRICHLOROETHANE	4.126	97	3846	0.3761388 ppb	94
35) CARBON TETRACHLORIDE	4.087	119	3182	0.4055300 ppb	84
36) 1,1-Dichloropropene	4.184	75	4730	0.4564167 ppb #	86
37) 2,2,4-TRIMETHYLPENTANE	4.219	57	13042	0.3950674 ppb	91
38) HEPTANE	4.258	43	13927	0.9380986 ppb	97
39) BENZENE	4.331	78	14115	0.4186040 ppb #	52
40) 1,2-DICHLOROETHANE	4.450	62	4071	0.3983931 ppb #	88

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 15A.D
Acq On : 13 Nov 2015 6:28 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:54:53 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration

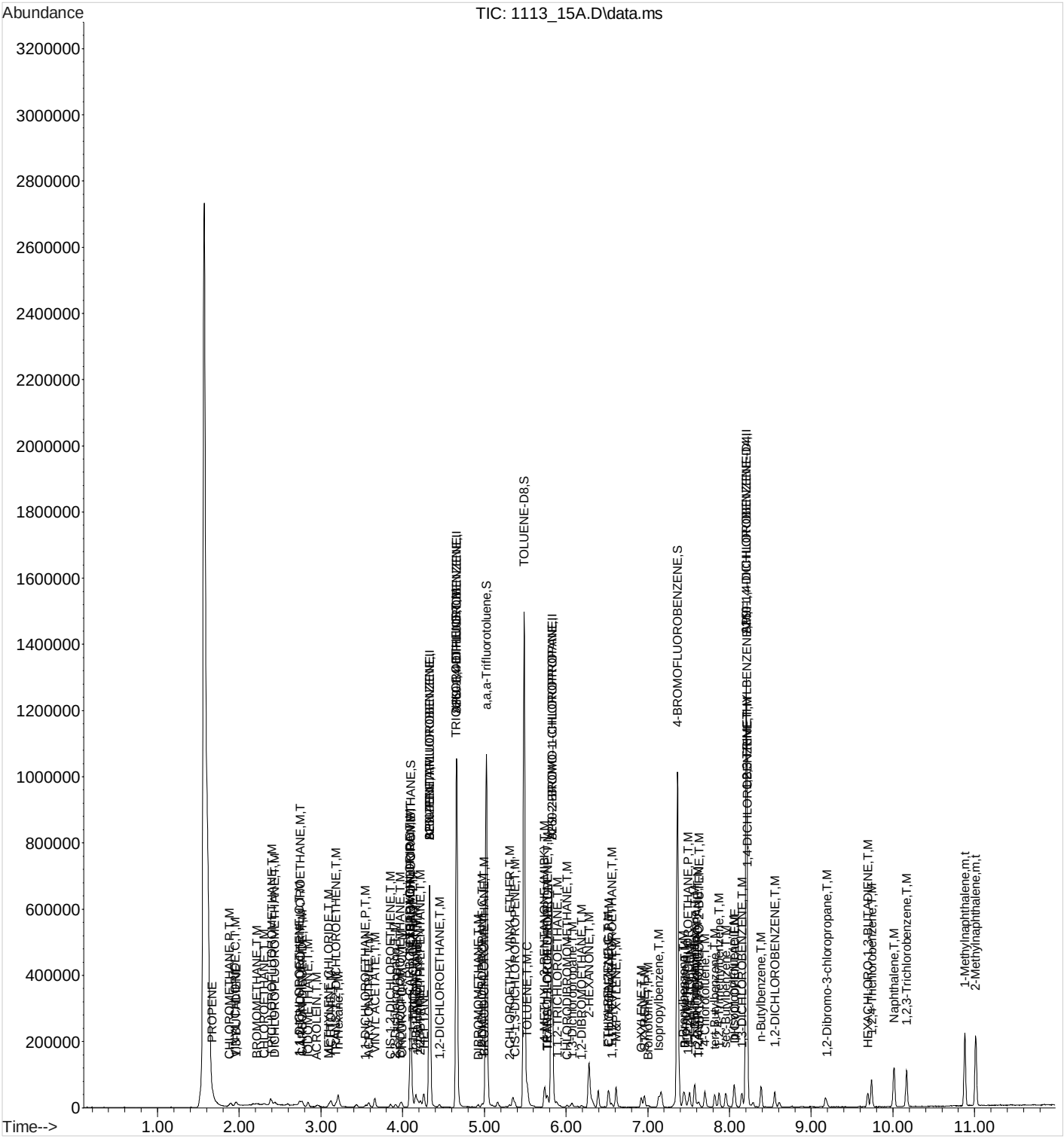
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
42)	TRICHLOROETHENE	4.656	130	3076	0.4273179 ppb		90
43)	1,2-DICHLOROPROPANE	4.975	62	1989	0.3238634 ppb		97
44)	DIBROMOMETHANE	4.923	93	2124	0.5256996 ppb		91
45)	BROMODICHLOROMETHANE	4.994	83	3530	0.3372115 ppb	#	56
47)	2-CHLOROETHYL VINYL ETHER	5.309	63	2158	0.7606511 ppb	#	86
48)	CIS-1,3-DICHLOROPROPENE	5.373	75	5722	0.4382569 ppb	#	97
49)	4-METHYL-2-PENTANONE (...	5.737	43	49477	8.6897616 ppb		99
51)	TOLUENE	5.521	91	16671	0.4642076 ppb		89
52)	TRANS-1,3-DICHLOROPROPENE	5.775	75	6041	0.5384339 ppb	#	96
54)	1,1,2-TRICHLOROETHANE	5.891	97	2584	0.4543440 ppb		96
55)	TETRACHLOROETHENE	5.772	164	2875	0.5844368 ppb		95
56)	1,3-Dichloropropane	6.074	76	5650	0.5133045 ppb		98
57)	2-HEXANONE	6.280	58	54365	19.6336021 ppb		95
58)	CHLORODIBROMOMETHANE	6.010	129	2583	0.4595555 ppb		95
59)	1,2-DIBROMOETHANE	6.190	107	3607	0.6878695 ppb		97
60)	CHLOROBENZENE	6.524	112	12002	0.6164470 ppb		95
61)	1,1,1,2-TETRACHLOROETHANE	6.560	133	2190	0.3729818 ppb	#	99
62)	ETHYLBENZENE	6.515	106	5693	0.5140366 ppb		97
63)	M&P-XYLENE	6.611	106	15015	1.0865755 ppb		93
64)	O-XYLENE	6.920	106	6907	0.5266919 ppb		98
65)	STYRENE	6.958	104	14397	0.6697356 ppb		92
66)	Bromoform	7.003	173	1964	0.6786397 ppb	#	83
67)	Isopropylbenzene	7.135	105	18447	0.5476643 ppb		98
69)	Bromobenzene	7.450	77	14245	0.8668192 ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.495	83	5060	0.7377205 ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.611	110	1791	0.9598581 ppb		86
72)	TRANS-1,4-DICHLORO-2-B...	7.630	53	1992	1.0044490 ppb	#	87
73)	n-Propylbenzene	7.434	91	30551	0.7200010 ppb		97
74)	4-ETHYLTOLUENE	7.515	105	25780	0.7502042 ppb		94
75)	2-Chlorotoluene	7.576	126	5943	0.7607310 ppb		75
76)	4-Chlorotoluene	7.698	91	22557	0.8673521 ppb		98
77)	1,3,5-Trimethylbenzene	7.573	105	20387	0.7210253 ppb		98
78)	tert-Butylbenzene	7.820	119	16797	0.7499728 ppb		99
79)	1,2,4-Trimethylbenzene	7.872	105	22508	0.7992063 ppb		99
80)	sec-Butylbenzene	7.952	105	28494	0.8023194 ppb		98
81)	1,3-DICHLOROBENZENE	8.151	146	15752	1.1327256 ppb		94
82)	p-Isopropyltoluene	8.055	119	26009	0.9133266 ppb		97
83)	DICYCLOPENTADIENE	8.064	66	22199	0.6106362 ppb		99
85)	1,4-DICHLOROBENZENE	8.219	146	16867	1.2421348 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.216	105	26707	0.9236902 ppb		99
87)	1,2-DICHLOROBENZENE	8.553	146	16626	1.3841154 ppb		98
88)	n-Butylbenzene	8.386	91	31656	1.1788547 ppb		100
89)	1,2-Dibromo-3-chloropr...	9.193	157	2431	2.7600982 ppb		90
90)	1,2,4-Trichlorobenzene	9.740	180	20954	2.9866296 ppb		96
91)	HEXACHLORO-1,3-BUTADIENE	9.695	225	6232	1.8014330 ppb		96
92)	Naphthalene	10.013	128	78426	4.8312471 ppb		99
93)	1,2,3-Trichlorobenzene	10.167	180	28827	4.5809141 ppb		97
94)	1-Methylnaphthalene	10.881	142	90680	10.9310541 ppb		99
95)	2-Methylnaphthalene	11.013	142	88169	12.9235055 ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 15A.D
Acq On : 13 Nov 2015 6:28 pm
Operator : 522
Sample : INSTBLK
Misc : water 15J30547
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:54:53 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 17A.D
Acq On : 13 Nov 2015 7:05 pm
Operator : 522
Sample : INSTBLK VMS
Misc : water 15J30547
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:55:23 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration

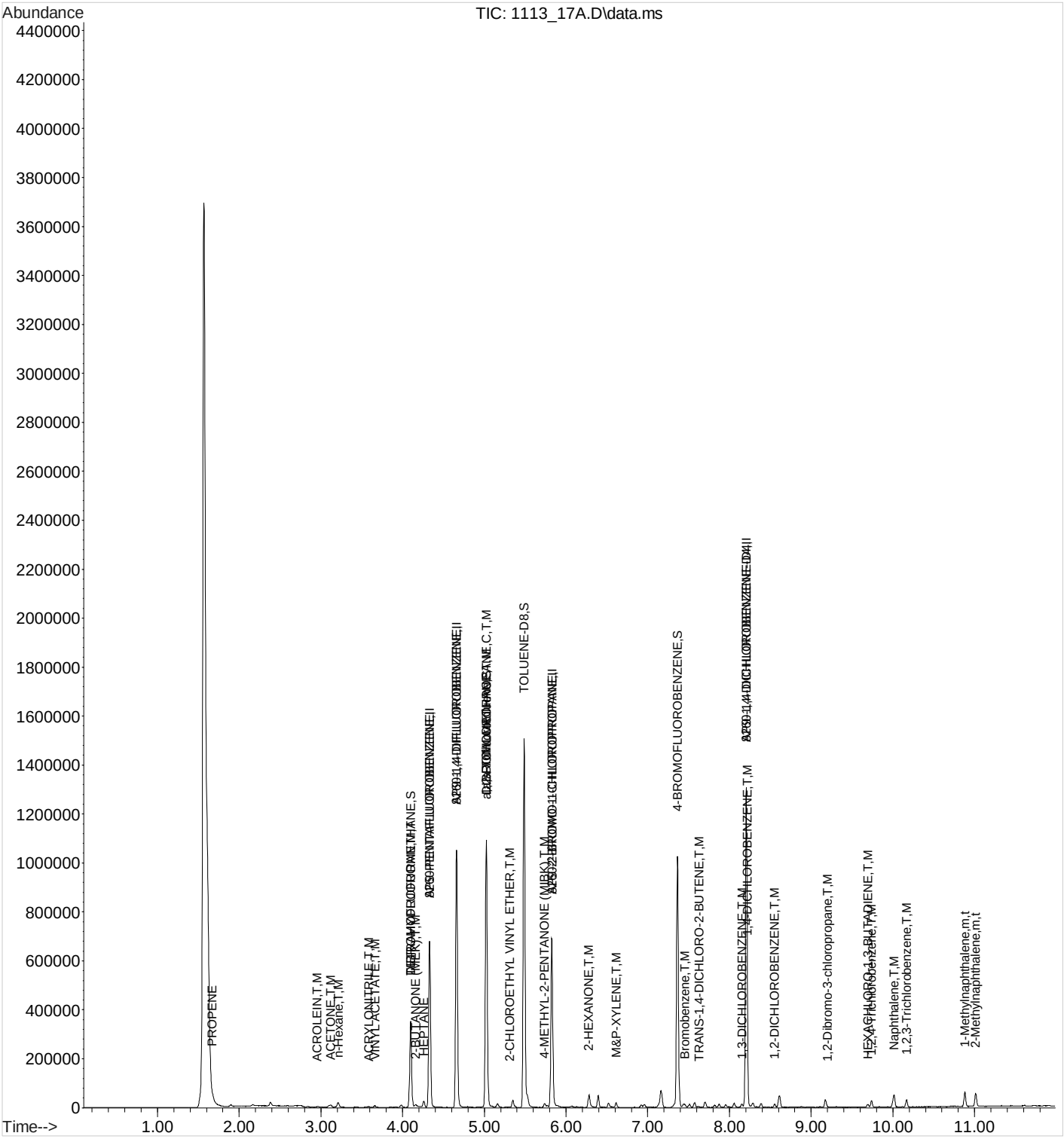
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.332	168	341771	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	659655	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	113621	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	287376	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.332	168	341771	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	659655	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	113621	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	287376	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.097	111	180927	36.8584009 ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 92.15%		
46) a,a,a-Trifluorotoluene	5.026	146	358390	40.2524575 ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 100.63%		
50) TOLUENE-D8	5.486	98	849040	39.0744625 ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 97.69%		
68) 4-BROMOFLUOROBENZENE	7.364	95	330410	39.8902807 ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 99.73%		
Target Compounds					Qvalue
3) PROPENE	1.669	41	1312	0.8444801 ppb #	23
13) ACROLEIN	2.952	56	989	1.0254184 ppb #	53
16) ACETONE	3.119	43	9667	2.9285780 ppb	99
20) ACRYLONITRILE	3.582	53	2553	1.2207918 ppb	94
21) n-Hexane	3.213	56	4047	0.4953839 ppb	82
25) VINYL ACETATE	3.660	43	7524	0.5637372 ppb	99
29) 2-BUTANONE (MEK)	4.158	43	9967	2.7359998 ppb	97
31) TETRAHYDROFURAN	4.097	42	1127	0.5994331 ppb #	83
38) HEPTANE	4.258	43	8356	0.5457052 ppb	93
43) 1,2-DICHLOROPROPANE	5.023	62	7839	1.2745954 ppb #	60
44) DIBROMOMETHANE	5.023	93	1365	0.3373653 ppb #	1
47) 2-CHLOROETHYL VINYL ETHER	5.309	63	883	0.3107988 ppb #	49
49) 4-METHYL-2-PENTANONE (...	5.737	43	11122	1.9506172 ppb	98
57) 2-HEXANONE	6.277	58	14794	5.3776105 ppb	88
63) M&P-XYLENE	6.611	106	4561	0.3322139 ppb	93
69) Bromobenzene	7.450	77	4997	0.3060544 ppb	93
72) TRANS-1,4-DICHLORO-2-B...	7.627	53	676	0.3430903 ppb #	26
81) 1,3-DICHLOROBENZENE	8.151	146	4721	0.3417009 ppb	99
85) 1,4-DICHLOROBENZENE	8.219	146	5593	0.3902325 ppb #	1
87) 1,2-DICHLOROBENZENE	8.550	146	4800	0.3785938 ppb	94
89) 1,2-Dibromo-3-chloropr...	9.200	157	531	0.5711916 ppb #	54
90) 1,2,4-Trichlorobenzene	9.737	180	6989	0.9437939 ppb	95
91) HEXACHLORO-1,3-BUTADIENE	9.695	225	2000	0.5477323 ppb #	85
92) Naphthalene	10.013	128	23107	1.3486227 ppb	100
93) 1,2,3-Trichlorobenzene	10.167	180	7483	1.1266166 ppb	92
94) 1-Methylnaphthalene	10.881	142	23824	2.7209021 ppb	95
95) 2-Methylnaphthalene	11.013	142	21461	2.9803143 ppb	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 17A.D
Acq On : 13 Nov 2015 7:05 pm
Operator : 522
Sample : INSTBLK VMS
Misc : water 15J30547
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:55:23 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 17A.D
Acq On : 13 Nov 2015 7:05 pm
Operator : 522
Sample : INSTBLK VMS
Misc : water 15J30547
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:55:23 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration

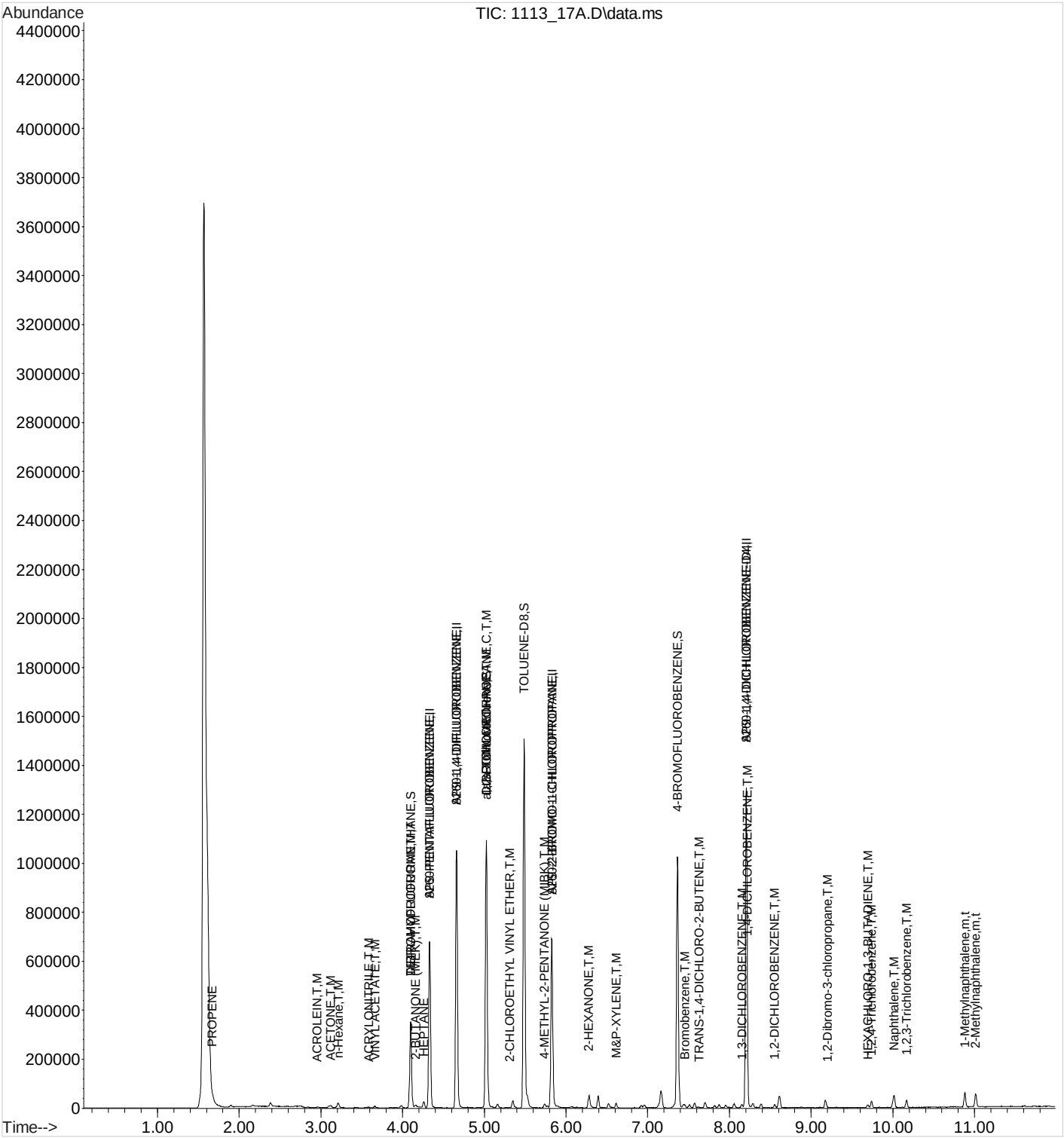
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.332	168	341771	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.660	114	659655	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.827	79	113621	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.206	152	287376	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.332	168	341771	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.660	114	659655	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.827	79	113621	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.206	152	287376	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.097	111	180927	36.8584009	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 92.15%			
46) a,a,a-Trifluorotoluene	5.026	146	358390	40.2524575	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 100.63%			
50) TOLUENE-D8	5.486	98	849040	39.0744625	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 97.69%			
68) 4-BROMOFLUOROBENZENE	7.364	95	330410	39.8902807	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 99.73%			
Target Compounds						Qvalue
3) PROPENE	1.669	41	1312	0.8444801	ppb #	23
13) ACROLEIN	2.952	56	989	1.0254184	ppb #	53
16) ACETONE	3.119	43	9667	2.9285780	ppb	99
20) ACRYLONITRILE	3.582	53	2553	1.2207918	ppb	94
21) n-Hexane	3.213	56	4047	0.4953839	ppb	82
25) VINYL ACETATE	3.660	43	7524	0.5637372	ppb	99
29) 2-BUTANONE (MEK)	4.158	43	9967	2.7359998	ppb	97
31) TETRAHYDROFURAN	4.097	42	1127	0.5994331	ppb #	83
38) HEPTANE	4.258	43	8356	0.5457052	ppb	93
43) 1,2-DICHLOROPROPANE	5.023	62	7839	1.2745954	ppb #	60
44) DIBROMOMETHANE	5.023	93	1365	0.3373653	ppb #	1
47) 2-CHLOROETHYL VINYL ETHER	5.309	63	883	0.3107988	ppb #	49
49) 4-METHYL-2-PENTANONE (...	5.737	43	11122	1.9506172	ppb	98
57) 2-HEXANONE	6.277	58	14794	5.3776105	ppb	88
63) M&P-XYLENE	6.611	106	4561	0.3322139	ppb	93
69) Bromobenzene	7.450	77	4997	0.3060544	ppb	93
72) TRANS-1,4-DICHLORO-2-B...	7.627	53	676	0.3430903	ppb #	26
81) 1,3-DICHLOROBENZENE	8.151	146	4721	0.3417009	ppb	99
85) 1,4-DICHLOROBENZENE	8.219	146	5593	0.3902325	ppb #	1
87) 1,2-DICHLOROBENZENE	8.550	146	4800	0.3785938	ppb	94
89) 1,2-Dibromo-3-chloropr...	9.200	157	531	0.5711916	ppb #	54
90) 1,2,4-Trichlorobenzene	9.737	180	6989	0.9437939	ppb	95
91) HEXACHLORO-1,3-BUTADIENE	9.695	225	2000	0.5477323	ppb #	85
92) Naphthalene	10.013	128	23107	1.3486227	ppb	100
93) 1,2,3-Trichlorobenzene	10.167	180	7483	1.1266166	ppb	92
94) 1-Methylnaphthalene	10.881	142	23824	2.7209021	ppb	95
95) 2-Methylnaphthalene	11.013	142	21461	2.9803143	ppb	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\111315A\
Data File : 1113 17A.D
Acq On : 13 Nov 2015 7:05 pm
Operator : 522
Sample : INSTBLK VMS
Misc : water 15J30547
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 16 10:55:23 2015
Quant Method : C:\MSDchem\1\methods\V820K13O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 16 10:49:49 2015
Response via : Initial Calibration



V820K13O.M Mon Nov 16 10:55:29 2015 Page: 2

CHAIN-OF-CUSTODY RECORD

URS

8181 East Tufts Avenue
Denver , CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

8/1/09

PROJECT NAME	PROJECT NUMBER
Holloman AFB	60425210.23446543.0055AB
Project Manager: Sheri Fling	**Sample Manager:** Katie Abbott
Project Mgr Phone: (303) 332-5297	**Sample Mgr Phone:** (303) 875-0351

Lab: ESC

Cooler # D229

TESTS / CONTAINER TYPE AND PRESERVATIVE

Sample ID	Date	Time	Matrix	Total Containers	VOCs 8260B (2x40ml V Amb, HCl, < 6C)	PAHs 8270 SIM (3x40ml V Amb, < 6C)	SVOCs 8270 (2x100ml G Amb, < 6C)	Tot Metals/6020/7470A (1x500ml P, HNO3, < 6C)	Dis Metals/6020/7470A (1x500ml P, HNO3, < 6C)	TDS A2540C (1x250ml P, < 6C)	Nitrate + Sulfate E9056 (1x125ml P, < 6C)	Sulfide SM4500S (1x125ml Amb, NaOH+ZnAc, < 6C)	RSK 175 Methane (2x40ml V Amb, HCl, < 6C)	Tot Metals/6020/7470A plus Iron (1x500ml P, HNO3, < 6C)	Dis Metals/6020/7470A plus Iron (1x500ml P, HNO3, < 6C)	Remarks
TU503-TMW13-ND01	11/13/15	1120	GW	1					X							VOCs ONLY
TU503-TMW13-NT01	↓	↓	GW	28	X	X	X	X		X						↓ 01

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Katie	Signature	Signature	Signature
Printed Name: Katie Abbott	Printed Name	Printed Name	Printed Name
Firm: URS	Firm	Firm	Firm
Date/Time: 11/13/15 1530	Date/Time	Date/Time	Date/Time: 11/14/15 0900

Special Instructions:
1. All soil samples require percent moisture.
2. The circled analyses represent those analyses for which bottles are contained in this cooler.
3. The total number of containers represents all containers for a given sample ID regardless of the cooler in which they are contained.
4. Level IV package required.
5. VOCs/SVOCs/PAHs analyte lists are included in the site-specific QAPPs
6. Metals analyte list:
   6020 - Aluminum, Barium, Beryllium, Copper , Manganese, Vanadium, Zinc, Antimony, Arsenic, Cadmium, Chromium, Cobalt , Lead, Nickel, Selenium, Silver, Thallium, (plus Iron, as noted).
   7470A - Mercury
7. Dissolved metals are field filtered

4xp

Container Key: P = Poly Amb = Amber V = Vial G = Glass

3.4 COCSI JW 7

CHAIN-OF-CUSTODY RECORD

URS
8181 East Tufts Avenue
Denver, CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

801109

PROJECT NAME	PROJECT NUMBER
Holloman AFB	60425210.23446543.0055AB
Project Manager: Sheri Fling	**Sample Manager:** Katie Abbott
Project Mgr Phone: (303) 332-5297	**Sample Mgr Phone:** (303) 875-0351

Lab: ESC

Cooler #_____

TESTS / CONTAINER TYPE AND PRESERVATIVE

Sample ID	Date	Time	Matrix	Total Containers	VOCs 8260B (2x40ml V Amb, HCl, < 6C)	PAHs 8270 SIM (3x40ml V Amb, < 6C)	SVOCs 8270 (2x100ml G Amb, < 6C)	Tot Metals/6020/7470A (1x500ml P, HNO3, < 6C)	Dis Metals/6020/7470A (1x500ml P, HNO3, < 6C)	TDS A2540C (1x250ml P, < 6C)	Nitrate + Sulfate E9056 (1x125ml P, < 6C)	Sulfide SM4500S (1x125ml Amb, NaOH+ZnAc, < 6C)	RSK 175 Methane (2x40ml V Amb, HCl, < 6C)	Tot Metals/6020/7470A plus Iron (1x500ml P, HNO3, < 6C)	Dis Metals/6020/7470A plus Iron (1x500ml P, HNO3, < 6C)										Remarks
TU503-TMW14-NT01	11/13/15	1130	GW	~~8~~ 2	X	X	X	X		X														02	VOCs ONLY
TU503-TMW14-ND01	↓	↓	GW	~~1~~					X																

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: KAH	Signature:	Signature:	Signature:
Printed Name: Katie Abbott	Printed Name:	Printed Name:	Printed Name:
Firm: URS	Firm:	Firm:	Firm:
Date/Time: 11/13/15 1530	Date/Time:	Date/Time:	Date/Time: 11/14/15 0900

Special Instructions:
1. All soil samples require percent moisture.
2. The circled analyses represent those analyses for which bottles are contained in this cooler.
3. The total number of containers represents all containers for a given sample ID regardless of the cooler in which they are contained.
4. Level IV package required.
5. VOCs/SVOCs/PAHs analyte lists are included in the site-specific QAPPs
6. Metals analyte list:
   6020 - Aluminum, Barium, Beryllium, Copper, Manganese, Vanadium, Zinc, Antimony, Arsenic, Cadmium, Chromium, Cobalt, Lead, Nickel, Selenium, Silver, Thallium, (plus Iron, as noted).
   7470A - Mercury
7. Dissolved metals are field filtered

Container Key: P = Poly Amb = Amber V = Vial G = Glass

4up

3.4 JW7 COCS

ESC Lab Sciences

Login Confirmation Report

November 15, 2015 - 00:03

YOUR LAB OF CHOICE

Account: URSTAZ - URS Corporation - Tucson AZ - 1088308

Login #	**L801109**	Receive Date: 11/14/2015	TSR: Pam Langford
Template #		Entered: 11/14/2015	By: Matt Shacklock
Report to:	Sheri Fling	Lab Project Number: URSTAZ-DOD HOLLOMAN	**Report MDL: Y**
	8181 E. Tufts Avenue	Client Project # 60425210.23446543.00	**HDC: N**
	Denver, CO 80237	Project Description:	PO #
		Collected By: Katie Abbott	PO Req: Y
Phone:	(303) 740-3909 FAX:	Reg. State: NM	Terms: 90
Email:	sheri.fling@urs.com; stan.gladych@urs.com,bmock@esclabsciences.com,tmellette@esclabsciences.com		Quote #

Proj/Acct Comments: PO #' 312575 Metals list: ICP -Al ICP/MS-Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Ni, Se, Ag, Tl, V, Zn plus HG

Matrix	Test	Sample ID	Collection Date	Design ID	Method	Unit Price
L801109-01		**TU503-TMW13-NT01**	**11/13/2015 11:20**	**Site:**	**Est. Due Date*: 11/20/2015 - R5**	
			Sample Description: Holloman AFB			
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00
Misc	DISPOSAL	Sample Disposal Charge				$ 0.00
Misc	ENERGY	Energy Surcharge				$ 0.00
Misc	HARDCOPY	Hardcopy Report Charge				$ 0.00
Misc	SHIPPING	Inbound Transport Charge				$ 0.00
L801109-02		**TU503-TMW14-NT01**	**11/13/2015 11:30**	**Site:**	**Est. Due Date*: 11/20/2015 - R5**	
			Sample Description: Holloman AFB			
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00

Information Only - Not An Invoice - Do Not Pay! Total: $ 92.00

*** Due Date listed is an estimate based on average workloads. Please communicate required dates to your TSR.**