Analytical Report 481853

for

Terranext

Project Manager: Chuck Gordon

WVBA

03103154

10-APR-14

Collected By: Client

3725 E. Atlanta Ave, Phoenix, AZ 85040
Ph: (602) 437-0330

Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

10-APR-14

Project Manager: **Chuck Gordon**
Terranext
4050 E. Cotton Center Blvd.
Phoenix, AZ 85040

Reference: TWA Report No(s): **481853**
WVBA
Project Address:

Chuck Gordon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the TWA Report Number(s) 481853. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by TransWest Analytical. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 481853 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting TransWest Analytical to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Skip Harden
Project Manager

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CASE NARRATIVE

Client Name: Terranext
Project Name: WVBA

Project ID: *03103154*
Work Order Number(s): *481853*

Report Date: *10-APR-14*
Date Received: *03/25/2014*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-937377 VOCs by EPA 8260B
N1:
2-Butanone, 2-Hexanone and Chloromethane recovered above acceptance criteria in the LCS/LCSD and MS/MSD. This equates to a potential high bias. Since the associate field samples were non-detect for these compounds, no further action was required.

R2:
The RPD for Acetone was outside of criteria in the LCS/LCSD pair. Since the RPD for Acetone was within criteria in the MS/MSD pair, no further action was required.

Batch: LBA-937451 VOCs by EPA 8260B
R2:
The RPD for Styrene was outside of acceptance criteria in the MS/MSD pair. Since the RPD for Styrene was with criteria in the LCS/LCSD pair, no further action was required.

Arizona Flags

All method blanks, laboratory spikes, and/or matrix spikes met quality control objectives for the parameters associated with this Work Order except as detailed below or on the Data Qualifier page of this report. Data Qualifiers used in this report are in accordance with ADEQ Arizona Data Qualifiers, Revision 3.0 9/20/2007. Data qualifiers (flags) contained within this analytical report have been issued to explain a quality control deficiency, and do not affect the quality (validity) of the data unless noted otherwise in the case narrative.

L1 The associated blank spike recovery was above laboratory acceptance limits.

M1 Matrix spike recovery was high; the associated blank spike recovery was acceptable.

M2 Matrix spike recovery was low; the associated blank spike recovery was acceptable.

N1 See case narrative.

R2 RPD/RSD exceeded the laboratory acceptance limit. See case narrative.

R5 MS/MSD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

Sample Cross Reference 481853

Terranext, Phoenix, AZ

WVBA

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AVB91-0102-1000	W	03-25-14 08:00		481853-001
AVB91-0100-23135	W	03-25-14 08:15		481853-002
AVB145-0100-01136	W	03-25-14 09:00		481853-003
AVB145-0101-01136	W	03-25-14 09:05		481853-004
AVB75-0100-27125	W	03-25-14 09:40		481853-005
AVB135-0100-14127	W	03-25-14 10:25		481853-006
AVB92-0100-21137	W	03-25-14 11:00		481853-007
AVB93-0100-21136	W	03-25-14 11:35		481853-008
AVB88-0100-25110	W	03-25-14 12:52		481853-009
AVB125-0100-19125	W	03-25-14 13:28		481853-010
AVB69-0200-03114	W	03-25-14 14:05		481853-011
AVB97-0100-22111	W	03-25-14 14:42		481853-012
AVB97-0104-1000	W	03-25-14 15:00		481853-013

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB91-0102-1000** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-001 Date Collected: 03.25.14 08.00

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.29.14 18.05

Seq Number: 937377

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Acetone	67-64-1	<20.0	20.0	ug/L	03.29.14 04.21	L1	1
Benzene	71-43-2	<0.500	0.500	ug/L	03.29.14 04.21		1
Bromobenzene	108-86-1	<1.50	1.50	ug/L	03.29.14 04.21		1
Bromochloromethane	74-97-5	<0.500	0.500	ug/L	03.29.14 04.21		1
Bromodichloromethane	75-27-4	<0.500	0.500	ug/L	03.29.14 04.21		1
Bromoform	75-25-2	<1.00	1.00	ug/L	03.29.14 04.21		1
Bromomethane	74-83-9	<5.00	5.00	ug/L	03.29.14 04.21		1
2-Butanone	78-93-3	<5.00	5.00	ug/L	03.29.14 04.21	N1	1
MTBE	1634-04-4	<2.00	2.00	ug/L	03.29.14 04.21		1
n-Butylbenzene	104-51-8	<2.50	2.50	ug/L	03.29.14 04.21		1
Sec-Butylbenzene	135-98-8	<1.50	1.50	ug/L	03.29.14 04.21		1
tert-Butylbenzene	98-06-6	<2.50	2.50	ug/L	03.29.14 04.21		1
Carbon Disulfide	75-15-0	<0.500	0.500	ug/L	03.29.14 04.21		1
Carbon Tetrachloride	56-23-5	<0.500	0.500	ug/L	03.29.14 04.21		1
Chlorobenzene	108-90-7	<0.500	0.500	ug/L	03.29.14 04.21		1
Chloroethane	75-00-3	<4.00	4.00	ug/L	03.29.14 04.21		1
Chloroform	67-66-3	<0.500	0.500	ug/L	03.29.14 04.21		1
Chloromethane	74-87-3	<5.00	5.00	ug/L	03.29.14 04.21	N1	1
2-Chlorotoluene	95-49-8	<1.50	1.50	ug/L	03.29.14 04.21		1
4-Chlorotoluene	106-43-4	<2.00	2.00	ug/L	03.29.14 04.21		1
p-Cymene (p-Isopropyltoluene)	99-87-6	<1.50	1.50	ug/L	03.29.14 04.21		1
Dibromochloromethane	124-48-1	<0.500	0.500	ug/L	03.29.14 04.21		1
1,2-Dibromo-3-Chloropropane	96-12-8	<2.00	2.00	ug/L	03.29.14 04.21		1
1,2-Dibromoethane	106-93-4	<0.500	0.500	ug/L	03.29.14 04.21		1
Dibromomethane	74-95-3	<0.500	0.500	ug/L	03.29.14 04.21		1
1,2-Dichlorobenzene	95-50-1	<1.50	1.50	ug/L	03.29.14 04.21		1
1,3-Dichlorobenzene	541-73-1	<1.50	1.50	ug/L	03.29.14 04.21		1
1,4-Dichlorobenzene	106-46-7	<1.50	1.50	ug/L	03.29.14 04.21		1
Dichlorodifluoromethane	75-71-8	<2.00	2.00	ug/L	03.29.14 04.21		1
1,1-Dichloroethane	75-34-3	<0.500	0.500	ug/L	03.29.14 04.21		1
1,2-Dichloroethane	107-06-2	<0.500	0.500	ug/L	03.29.14 04.21		1
1,1-Dichloroethene	75-35-4	<0.500	0.500	ug/L	03.29.14 04.21		1
cis-1,2-Dichloroethene	156-59-2	<0.500	0.500	ug/L	03.29.14 04.21		1
trans-1,2-dichloroethene	156-60-5	<0.500	0.500	ug/L	03.29.14 04.21		1
1,2-Dichloropropane	78-87-5	<0.500	0.500	ug/L	03.29.14 04.21		1
1,3-Dichloropropane	142-28-9	<1.00	1.00	ug/L	03.29.14 04.21		1
2,2-Dichloropropane	594-20-7	<0.500	0.500	ug/L	03.29.14 04.21		1
1,1-Dichloropropene	563-58-6	<1.00	1.00	ug/L	03.29.14 04.21		1
cis-1,3-Dichloropropene	10061-01-5	<1.00	1.00	ug/L	03.29.14 04.21		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB91-0102-1000** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-001 Date Collected: 03.25.14 08.00

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.29.14 18.05

Seq Number: 937377

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
trans-1,3-dichloropropene	10061-02-6	<0.500	0.500	ug/L	03.29.14 04.21		1
Ethylbenzene	100-41-4	<2.00	2.00	ug/L	03.29.14 04.21		1
Hexachlorobutadiene	87-68-3	<5.00	5.00	ug/L	03.29.14 04.21		1
2-Hexanone	591-78-6	<5.00	5.00	ug/L	03.29.14 04.21	N1	1
isopropylbenzene	98-82-8	<2.50	2.50	ug/L	03.29.14 04.21		1
Methylene Chloride	75-09-2	<3.00	3.00	ug/L	03.29.14 04.21		1
Iodomethane (Methyl Iodide)	74-88-4	<2.00	2.00	ug/L	03.29.14 04.21		1
4-Methyl-2-Pentanone	108-10-1	<5.00	5.00	ug/L	03.29.14 04.21		1
Naphthalene	91-20-3	<5.00	5.00	ug/L	03.29.14 04.21		1
n-Propylbenzene	103-65-1	<2.00	2.00	ug/L	03.29.14 04.21		1
Styrene	100-42-5	<1.00	1.00	ug/L	03.29.14 04.21		1
1,1,1,2-Tetrachloroethane	630-20-6	<0.500	0.500	ug/L	03.29.14 04.21		1
1,1,2,2-Tetrachloroethane	79-34-5	<0.500	0.500	ug/L	03.29.14 04.21		1
Tetrachloroethylene	127-18-4	<0.500	0.500	ug/L	03.29.14 04.21		1
Toluene	108-88-3	<2.00	2.00	ug/L	03.29.14 04.21		1
1,2,3-Trichlorobenzene	87-61-6	<5.00	5.00	ug/L	03.29.14 04.21		1
1,2,4-Trichlorobenzene	120-82-1	<5.00	5.00	ug/L	03.29.14 04.21		1
1,1,1-Trichloroethane	71-55-6	<0.500	0.500	ug/L	03.29.14 04.21		1
1,1,2-Trichloroethane	79-00-5	<0.500	0.500	ug/L	03.29.14 04.21		1
Trichloroethene	79-01-6	<0.500	0.500	ug/L	03.29.14 04.21		1
Trichlorofluoromethane	75-69-4	<2.00	2.00	ug/L	03.29.14 04.21		1
1,2,3-Trichloropropane	96-18-4	<1.00	1.00	ug/L	03.29.14 04.21		1
1,2,4-Trimethylbenzene	95-63-6	<2.00	2.00	ug/L	03.29.14 04.21		1
1,3,5-Trimethylbenzene	108-67-8	<1.50	1.50	ug/L	03.29.14 04.21		1
o-Xylene	95-47-6	<1.00	1.00	ug/L	03.29.14 04.21		1
m,p-Xylenes	179601-23-1	<2.00	2.00	ug/L	03.29.14 04.21		1
Vinyl Acetate	108-05-4	<5.00	5.00	ug/L	03.29.14 04.21		1
Vinyl Chloride	75-01-4	<0.500	0.500	ug/L	03.29.14 04.21		1
Total Xylenes	1330-20-7	<1.00	1.00	ug/L	03.29.14 04.21		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	105	%	69-133	03.29.14 04.21	
1,2-Dichloroethane-D4	17060-07-0	100	%	66-139	03.29.14 04.21	
Toluene-D8	2037-26-5	100	%	70-130	03.29.14 04.21	
4-Bromofluorobenzene	460-00-4	94	%	70-135	03.29.14 04.21	

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB91-0100-23135** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-002 Date Collected: 03.25.14 08.15

Analytical Method: Total Metals by EPA 6010B Prep Method: SW3010A

Tech: MLI % Moisture:

Analyst: MKO Date Prep: 03.29.14 12.00

Seq Number: 938244 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**0.0346**	0.0100	mg/L	04.10.14 11.55		1

Analytical Method: Metals, Dissolved, by EPA 6010B Prep Method: SW3010A

Tech: MLI % Moisture:

Analyst: MKO Date Prep: 03.31.14 10.30

Seq Number: 938235 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**0.0202**	0.0100	mg/L	04.10.14 01.57		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB91-0100-23135** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-002 Date Collected: 03.25.14 08.15

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Acetone	67-64-1	<20.0	20.0	ug/L	03.30.14 19.58		1
Benzene	71-43-2	<0.500	0.500	ug/L	03.30.14 19.58		1
Bromobenzene	108-86-1	<1.50	1.50	ug/L	03.30.14 19.58		1
Bromochloromethane	74-97-5	<0.500	0.500	ug/L	03.30.14 19.58		1
Bromodichloromethane	75-27-4	<0.500	0.500	ug/L	03.30.14 19.58		1
Bromoform	75-25-2	<1.00	1.00	ug/L	03.30.14 19.58		1
Bromomethane	74-83-9	<5.00	5.00	ug/L	03.30.14 19.58		1
2-Butanone	78-93-3	<5.00	5.00	ug/L	03.30.14 19.58		1
MTBE	1634-04-4	<2.00	2.00	ug/L	03.30.14 19.58		1
n-Butylbenzene	104-51-8	<2.50	2.50	ug/L	03.30.14 19.58		1
Sec-Butylbenzene	135-98-8	<1.50	1.50	ug/L	03.30.14 19.58		1
tert-Butylbenzene	98-06-6	<2.50	2.50	ug/L	03.30.14 19.58		1
Carbon Disulfide	75-15-0	<0.500	0.500	ug/L	03.30.14 19.58		1
Carbon Tetrachloride	56-23-5	<0.500	0.500	ug/L	03.30.14 19.58		1
Chlorobenzene	108-90-7	<0.500	0.500	ug/L	03.30.14 19.58		1
Chloroethane	75-00-3	<4.00	4.00	ug/L	03.30.14 19.58		1
Chloroform	67-66-3	<0.500	0.500	ug/L	03.30.14 19.58		1
Chloromethane	74-87-3	<5.00	5.00	ug/L	03.30.14 19.58		1
2-Chlorotoluene	95-49-8	<1.50	1.50	ug/L	03.30.14 19.58		1
4-Chlorotoluene	106-43-4	<2.00	2.00	ug/L	03.30.14 19.58		1
p-Cymene (p-Isopropyltoluene)	99-87-6	<1.50	1.50	ug/L	03.30.14 19.58		1
Dibromochloromethane	124-48-1	<0.500	0.500	ug/L	03.30.14 19.58		1
1,2-Dibromo-3-Chloropropane	96-12-8	<2.00	2.00	ug/L	03.30.14 19.58		1
1,2-Dibromoethane	106-93-4	<0.500	0.500	ug/L	03.30.14 19.58		1
Dibromomethane	74-95-3	<0.500	0.500	ug/L	03.30.14 19.58		1
1,2-Dichlorobenzene	95-50-1	<1.50	1.50	ug/L	03.30.14 19.58		1
1,3-Dichlorobenzene	541-73-1	<1.50	1.50	ug/L	03.30.14 19.58		1
1,4-Dichlorobenzene	106-46-7	<1.50	1.50	ug/L	03.30.14 19.58		1
Dichlorodifluoromethane	75-71-8	<2.00	2.00	ug/L	03.30.14 19.58		1
1,1-Dichloroethane	75-34-3	<0.500	0.500	ug/L	03.30.14 19.58		1
1,2-Dichloroethane	107-06-2	<0.500	0.500	ug/L	03.30.14 19.58		1
1,1-Dichloroethene	75-35-4	<0.500	0.500	ug/L	03.30.14 19.58		1
cis-1,2-Dichloroethene	156-59-2	<0.500	0.500	ug/L	03.30.14 19.58		1
trans-1,2-dichloroethene	156-60-5	<0.500	0.500	ug/L	03.30.14 19.58		1
1,2-Dichloropropane	78-87-5	<0.500	0.500	ug/L	03.30.14 19.58		1
1,3-Dichloropropane	142-28-9	<1.00	1.00	ug/L	03.30.14 19.58		1
2,2-Dichloropropane	594-20-7	<0.500	0.500	ug/L	03.30.14 19.58		1
1,1-Dichloropropene	563-58-6	<1.00	1.00	ug/L	03.30.14 19.58		1
cis-1,3-Dichloropropene	10061-01-5	<1.00	1.00	ug/L	03.30.14 19.58		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB91-0100-23135** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-002 Date Collected: 03.25.14 08.15

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
trans-1,3-dichloropropene	10061-02-6	<0.500	0.500	ug/L	03.30.14 19.58		1
Ethylbenzene	100-41-4	<2.00	2.00	ug/L	03.30.14 19.58		1
Hexachlorobutadiene	87-68-3	<5.00	5.00	ug/L	03.30.14 19.58		1
2-Hexanone	591-78-6	<5.00	5.00	ug/L	03.30.14 19.58		1
isopropylbenzene	98-82-8	<2.50	2.50	ug/L	03.30.14 19.58		1
Methylene Chloride	75-09-2	<3.00	3.00	ug/L	03.30.14 19.58		1
Iodomethane (Methyl Iodide)	74-88-4	<2.00	2.00	ug/L	03.30.14 19.58		1
4-Methyl-2-Pentanone	108-10-1	<5.00	5.00	ug/L	03.30.14 19.58		1
Naphthalene	91-20-3	<5.00	5.00	ug/L	03.30.14 19.58		1
n-Propylbenzene	103-65-1	<2.00	2.00	ug/L	03.30.14 19.58		1
Styrene	100-42-5	<1.00	1.00	ug/L	03.30.14 19.58	M2	1
1,1,1,2-Tetrachloroethane	630-20-6	<0.500	0.500	ug/L	03.30.14 19.58		1
1,1,2,2-Tetrachloroethane	79-34-5	<0.500	0.500	ug/L	03.30.14 19.58		1
Tetrachloroethylene	127-18-4	<0.500	0.500	ug/L	03.30.14 19.58		1
Toluene	108-88-3	<2.00	2.00	ug/L	03.30.14 19.58		1
1,2,3-Trichlorobenzene	87-61-6	<5.00	5.00	ug/L	03.30.14 19.58		1
1,2,4-Trichlorobenzene	120-82-1	<5.00	5.00	ug/L	03.30.14 19.58		1
1,1,1-Trichloroethane	71-55-6	<0.500	0.500	ug/L	03.30.14 19.58		1
1,1,2-Trichloroethane	79-00-5	<0.500	0.500	ug/L	03.30.14 19.58		1
Trichloroethene	79-01-6	<0.500	0.500	ug/L	03.30.14 19.58		1
Trichlorofluoromethane	75-69-4	<2.00	2.00	ug/L	03.30.14 19.58		1
1,2,3-Trichloropropane	96-18-4	<1.00	1.00	ug/L	03.30.14 19.58		1
1,2,4-Trimethylbenzene	95-63-6	<2.00	2.00	ug/L	03.30.14 19.58		1
1,3,5-Trimethylbenzene	108-67-8	<1.50	1.50	ug/L	03.30.14 19.58		1
o-Xylene	95-47-6	<1.00	1.00	ug/L	03.30.14 19.58		1
m,p-Xylenes	179601-23-1	<2.00	2.00	ug/L	03.30.14 19.58		1
Vinyl Acetate	108-05-4	<5.00	5.00	ug/L	03.30.14 19.58		1
Vinyl Chloride	75-01-4	<0.500	0.500	ug/L	03.30.14 19.58		1
Total Xylenes	1330-20-7	<1.00	1.00	ug/L	03.30.14 19.58		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	97	%	69-133	03.30.14 19.58	
1,2-Dichloroethane-D4	17060-07-0	96	%	66-139	03.30.14 19.58	
Toluene-D8	2037-26-5	98	%	70-130	03.30.14 19.58	
4-Bromofluorobenzene	460-00-4	95	%	70-135	03.30.14 19.58	

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB145-0100-01136** Matrix: Water Date Received:03.25.14 15.45
Lab Sample Id: 481853-003 Date Collected: 03.25.14 09.00

Analytical Method: Total Metals by EPA 6010B Prep Method: SW3010A
Tech: MLI % Moisture:
Analyst: MKO Date Prep: 03.29.14 12.00
Seq Number: 938244 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**0.0355**	0.0100	mg/L	04.10.14 12.01		1

Analytical Method: Metals, Dissolved, by EPA 6010B Prep Method: SW3010A
Tech: MLI % Moisture:
Analyst: MKO Date Prep: 03.31.14 10.30
Seq Number: 938235 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**0.0105**	0.0100	mg/L	04.10.14 02.04		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB145-0100-01136** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-003 Date Collected: 03.25.14 09.00

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Acetone	67-64-1	<20.0	20.0	ug/L	03.30.14 20.24		1
Benzene	71-43-2	<0.500	0.500	ug/L	03.30.14 20.24		1
Bromobenzene	108-86-1	<1.50	1.50	ug/L	03.30.14 20.24		1
Bromochloromethane	74-97-5	<0.500	0.500	ug/L	03.30.14 20.24		1
Bromodichloromethane	75-27-4	<0.500	0.500	ug/L	03.30.14 20.24		1
Bromoform	75-25-2	<1.00	1.00	ug/L	03.30.14 20.24		1
Bromomethane	74-83-9	<5.00	5.00	ug/L	03.30.14 20.24		1
2-Butanone	78-93-3	<5.00	5.00	ug/L	03.30.14 20.24		1
MTBE	1634-04-4	<2.00	2.00	ug/L	03.30.14 20.24		1
n-Butylbenzene	104-51-8	<2.50	2.50	ug/L	03.30.14 20.24		1
Sec-Butylbenzene	135-98-8	<1.50	1.50	ug/L	03.30.14 20.24		1
tert-Butylbenzene	98-06-6	<2.50	2.50	ug/L	03.30.14 20.24		1
Carbon Disulfide	75-15-0	<0.500	0.500	ug/L	03.30.14 20.24		1
Carbon Tetrachloride	56-23-5	<0.500	0.500	ug/L	03.30.14 20.24		1
Chlorobenzene	108-90-7	<0.500	0.500	ug/L	03.30.14 20.24		1
Chloroethane	75-00-3	<4.00	4.00	ug/L	03.30.14 20.24		1
Chloroform	67-66-3	**1.08**	0.500	ug/L	03.30.14 20.24		1
Chloromethane	74-87-3	<5.00	5.00	ug/L	03.30.14 20.24		1
2-Chlorotoluene	95-49-8	<1.50	1.50	ug/L	03.30.14 20.24		1
4-Chlorotoluene	106-43-4	<2.00	2.00	ug/L	03.30.14 20.24		1
p-Cymene (p-Isopropyltoluene)	99-87-6	<1.50	1.50	ug/L	03.30.14 20.24		1
Dibromochloromethane	124-48-1	<0.500	0.500	ug/L	03.30.14 20.24		1
1,2-Dibromo-3-Chloropropane	96-12-8	<2.00	2.00	ug/L	03.30.14 20.24		1
1,2-Dibromoethane	106-93-4	<0.500	0.500	ug/L	03.30.14 20.24		1
Dibromomethane	74-95-3	<0.500	0.500	ug/L	03.30.14 20.24		1
1,2-Dichlorobenzene	95-50-1	<1.50	1.50	ug/L	03.30.14 20.24		1
1,3-Dichlorobenzene	541-73-1	<1.50	1.50	ug/L	03.30.14 20.24		1
1,4-Dichlorobenzene	106-46-7	<1.50	1.50	ug/L	03.30.14 20.24		1
Dichlorodifluoromethane	75-71-8	<2.00	2.00	ug/L	03.30.14 20.24		1
1,1-Dichloroethane	75-34-3	<0.500	0.500	ug/L	03.30.14 20.24		1
1,2-Dichloroethane	107-06-2	<0.500	0.500	ug/L	03.30.14 20.24		1
1,1-Dichloroethene	75-35-4	<0.500	0.500	ug/L	03.30.14 20.24		1
cis-1,2-Dichloroethene	156-59-2	<0.500	0.500	ug/L	03.30.14 20.24		1
trans-1,2-dichloroethene	156-60-5	<0.500	0.500	ug/L	03.30.14 20.24		1
1,2-Dichloropropane	78-87-5	<0.500	0.500	ug/L	03.30.14 20.24		1
1,3-Dichloropropane	142-28-9	<1.00	1.00	ug/L	03.30.14 20.24		1
2,2-Dichloropropane	594-20-7	<0.500	0.500	ug/L	03.30.14 20.24		1
1,1-Dichloropropene	563-58-6	<1.00	1.00	ug/L	03.30.14 20.24		1
cis-1,3-Dichloropropene	10061-01-5	<1.00	1.00	ug/L	03.30.14 20.24		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB145-0100-01136** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-003 Date Collected: 03.25.14 09.00

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
trans-1,3-dichloropropene	10061-02-6	<0.500	0.500	ug/L	03.30.14 20.24		1
Ethylbenzene	100-41-4	<2.00	2.00	ug/L	03.30.14 20.24		1
Hexachlorobutadiene	87-68-3	<5.00	5.00	ug/L	03.30.14 20.24		1
2-Hexanone	591-78-6	<5.00	5.00	ug/L	03.30.14 20.24		1
isopropylbenzene	98-82-8	<2.50	2.50	ug/L	03.30.14 20.24		1
Methylene Chloride	75-09-2	<3.00	3.00	ug/L	03.30.14 20.24		1
Iodomethane (Methyl Iodide)	74-88-4	<2.00	2.00	ug/L	03.30.14 20.24		1
4-Methyl-2-Pentanone	108-10-1	<5.00	5.00	ug/L	03.30.14 20.24		1
Naphthalene	91-20-3	<5.00	5.00	ug/L	03.30.14 20.24		1
n-Propylbenzene	103-65-1	<2.00	2.00	ug/L	03.30.14 20.24		1
Styrene	100-42-5	<1.00	1.00	ug/L	03.30.14 20.24		1
1,1,1,2-Tetrachloroethane	630-20-6	<0.500	0.500	ug/L	03.30.14 20.24		1
1,1,2,2-Tetrachloroethane	79-34-5	<0.500	0.500	ug/L	03.30.14 20.24		1
Tetrachloroethylene	127-18-4	**3.31**	0.500	ug/L	03.30.14 20.24		1
Toluene	108-88-3	<2.00	2.00	ug/L	03.30.14 20.24		1
1,2,3-Trichlorobenzene	87-61-6	<5.00	5.00	ug/L	03.30.14 20.24		1
1,2,4-Trichlorobenzene	120-82-1	<5.00	5.00	ug/L	03.30.14 20.24		1
1,1,1-Trichloroethane	71-55-6	<0.500	0.500	ug/L	03.30.14 20.24		1
1,1,2-Trichloroethane	79-00-5	<0.500	0.500	ug/L	03.30.14 20.24		1
Trichloroethene	79-01-6	**2.17**	0.500	ug/L	03.30.14 20.24		1
Trichlorofluoromethane	75-69-4	<2.00	2.00	ug/L	03.30.14 20.24		1
1,2,3-Trichloropropane	96-18-4	<1.00	1.00	ug/L	03.30.14 20.24		1
1,2,4-Trimethylbenzene	95-63-6	<2.00	2.00	ug/L	03.30.14 20.24		1
1,3,5-Trimethylbenzene	108-67-8	<1.50	1.50	ug/L	03.30.14 20.24		1
o-Xylene	95-47-6	<1.00	1.00	ug/L	03.30.14 20.24		1
m,p-Xylenes	179601-23-1	<2.00	2.00	ug/L	03.30.14 20.24		1
Vinyl Acetate	108-05-4	<5.00	5.00	ug/L	03.30.14 20.24		1
Vinyl Chloride	75-01-4	<0.500	0.500	ug/L	03.30.14 20.24		1
Total Xylenes	1330-20-7	<1.00	1.00	ug/L	03.30.14 20.24		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	98	%	69-133	03.30.14 20.24	
1,2-Dichloroethane-D4	17060-07-0	99	%	66-139	03.30.14 20.24	
Toluene-D8	2037-26-5	99	%	70-130	03.30.14 20.24	
4-Bromofluorobenzene	460-00-4	95	%	70-135	03.30.14 20.24	

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB145-0101-01136** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-004 Date Collected: 03.25.14 09.05

Analytical Method: Total Metals by EPA 6010B Prep Method: SW3010A

Tech: MLI % Moisture:

Analyst: MKO Date Prep: 03.29.14 12.00

Seq Number: 938244 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**0.0403**	0.0100	mg/L	04.10.14 12.08		1

Analytical Method: Metals, Dissolved, by EPA 6010B Prep Method: SW3010A

Tech: MLI % Moisture:

Analyst: MKO Date Prep: 03.31.14 10.30

Seq Number: 938235 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**0.0102**	0.0100	mg/L	04.10.14 02.10		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB145-0101-01136** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-004 Date Collected: 03.25.14 09.05

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Acetone	67-64-1	<20.0	20.0	ug/L	03.30.14 20.49		1
Benzene	71-43-2	<0.500	0.500	ug/L	03.30.14 20.49		1
Bromobenzene	108-86-1	<1.50	1.50	ug/L	03.30.14 20.49		1
Bromochloromethane	74-97-5	<0.500	0.500	ug/L	03.30.14 20.49		1
Bromodichloromethane	75-27-4	<0.500	0.500	ug/L	03.30.14 20.49		1
Bromoform	75-25-2	<1.00	1.00	ug/L	03.30.14 20.49		1
Bromomethane	74-83-9	<5.00	5.00	ug/L	03.30.14 20.49		1
2-Butanone	78-93-3	<5.00	5.00	ug/L	03.30.14 20.49		1
MTBE	1634-04-4	<2.00	2.00	ug/L	03.30.14 20.49		1
n-Butylbenzene	104-51-8	<2.50	2.50	ug/L	03.30.14 20.49		1
Sec-Butylbenzene	135-98-8	<1.50	1.50	ug/L	03.30.14 20.49		1
tert-Butylbenzene	98-06-6	<2.50	2.50	ug/L	03.30.14 20.49		1
Carbon Disulfide	75-15-0	<0.500	0.500	ug/L	03.30.14 20.49		1
Carbon Tetrachloride	56-23-5	<0.500	0.500	ug/L	03.30.14 20.49		1
Chlorobenzene	108-90-7	<0.500	0.500	ug/L	03.30.14 20.49		1
Chloroethane	75-00-3	<4.00	4.00	ug/L	03.30.14 20.49		1
Chloroform	67-66-3	**1.07**	0.500	ug/L	03.30.14 20.49		1
Chloromethane	74-87-3	<5.00	5.00	ug/L	03.30.14 20.49		1
2-Chlorotoluene	95-49-8	<1.50	1.50	ug/L	03.30.14 20.49		1
4-Chlorotoluene	106-43-4	<2.00	2.00	ug/L	03.30.14 20.49		1
p-Cymene (p-Isopropyltoluene)	99-87-6	<1.50	1.50	ug/L	03.30.14 20.49		1
Dibromochloromethane	124-48-1	<0.500	0.500	ug/L	03.30.14 20.49		1
1,2-Dibromo-3-Chloropropane	96-12-8	<2.00	2.00	ug/L	03.30.14 20.49		1
1,2-Dibromoethane	106-93-4	<0.500	0.500	ug/L	03.30.14 20.49		1
Dibromomethane	74-95-3	<0.500	0.500	ug/L	03.30.14 20.49		1
1,2-Dichlorobenzene	95-50-1	<1.50	1.50	ug/L	03.30.14 20.49		1
1,3-Dichlorobenzene	541-73-1	<1.50	1.50	ug/L	03.30.14 20.49		1
1,4-Dichlorobenzene	106-46-7	<1.50	1.50	ug/L	03.30.14 20.49		1
Dichlorodifluoromethane	75-71-8	<2.00	2.00	ug/L	03.30.14 20.49		1
1,1-Dichloroethane	75-34-3	<0.500	0.500	ug/L	03.30.14 20.49		1
1,2-Dichloroethane	107-06-2	<0.500	0.500	ug/L	03.30.14 20.49		1
1,1-Dichloroethene	75-35-4	<0.500	0.500	ug/L	03.30.14 20.49		1
cis-1,2-Dichloroethene	156-59-2	<0.500	0.500	ug/L	03.30.14 20.49		1
trans-1,2-dichloroethene	156-60-5	<0.500	0.500	ug/L	03.30.14 20.49		1
1,2-Dichloropropane	78-87-5	<0.500	0.500	ug/L	03.30.14 20.49		1
1,3-Dichloropropane	142-28-9	<1.00	1.00	ug/L	03.30.14 20.49		1
2,2-Dichloropropane	594-20-7	<0.500	0.500	ug/L	03.30.14 20.49		1
1,1-Dichloropropene	563-58-6	<1.00	1.00	ug/L	03.30.14 20.49		1
cis-1,3-Dichloropropene	10061-01-5	<1.00	1.00	ug/L	03.30.14 20.49		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB145-0101-01136** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-004 Date Collected: 03.25.14 09.05

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
trans-1,3-dichloropropene	10061-02-6	<0.500	0.500	ug/L	03.30.14 20.49		1
Ethylbenzene	100-41-4	<2.00	2.00	ug/L	03.30.14 20.49		1
Hexachlorobutadiene	87-68-3	<5.00	5.00	ug/L	03.30.14 20.49		1
2-Hexanone	591-78-6	<5.00	5.00	ug/L	03.30.14 20.49		1
isopropylbenzene	98-82-8	<2.50	2.50	ug/L	03.30.14 20.49		1
Methylene Chloride	75-09-2	<3.00	3.00	ug/L	03.30.14 20.49		1
Iodomethane (Methyl Iodide)	74-88-4	<2.00	2.00	ug/L	03.30.14 20.49		1
4-Methyl-2-Pentanone	108-10-1	<5.00	5.00	ug/L	03.30.14 20.49		1
Naphthalene	91-20-3	<5.00	5.00	ug/L	03.30.14 20.49		1
n-Propylbenzene	103-65-1	<2.00	2.00	ug/L	03.30.14 20.49		1
Styrene	100-42-5	<1.00	1.00	ug/L	03.30.14 20.49		1
1,1,1,2-Tetrachloroethane	630-20-6	<0.500	0.500	ug/L	03.30.14 20.49		1
1,1,2,2-Tetrachloroethane	79-34-5	<0.500	0.500	ug/L	03.30.14 20.49		1
Tetrachloroethylene	127-18-4	**3.44**	0.500	ug/L	03.30.14 20.49		1
Toluene	108-88-3	<2.00	2.00	ug/L	03.30.14 20.49		1
1,2,3-Trichlorobenzene	87-61-6	<5.00	5.00	ug/L	03.30.14 20.49		1
1,2,4-Trichlorobenzene	120-82-1	<5.00	5.00	ug/L	03.30.14 20.49		1
1,1,1-Trichloroethane	71-55-6	<0.500	0.500	ug/L	03.30.14 20.49		1
1,1,2-Trichloroethane	79-00-5	<0.500	0.500	ug/L	03.30.14 20.49		1
Trichloroethene	79-01-6	**2.19**	0.500	ug/L	03.30.14 20.49		1
Trichlorofluoromethane	75-69-4	<2.00	2.00	ug/L	03.30.14 20.49		1
1,2,3-Trichloropropane	96-18-4	<1.00	1.00	ug/L	03.30.14 20.49		1
1,2,4-Trimethylbenzene	95-63-6	<2.00	2.00	ug/L	03.30.14 20.49		1
1,3,5-Trimethylbenzene	108-67-8	<1.50	1.50	ug/L	03.30.14 20.49		1
o-Xylene	95-47-6	<1.00	1.00	ug/L	03.30.14 20.49		1
m,p-Xylenes	179601-23-1	<2.00	2.00	ug/L	03.30.14 20.49		1
Vinyl Acetate	108-05-4	<5.00	5.00	ug/L	03.30.14 20.49		1
Vinyl Chloride	75-01-4	<0.500	0.500	ug/L	03.30.14 20.49		1
Total Xylenes	1330-20-7	<1.00	1.00	ug/L	03.30.14 20.49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	96	%	69-133	03.30.14 20.49	
1,2-Dichloroethane-D4	17060-07-0	98	%	66-139	03.30.14 20.49	
Toluene-D8	2037-26-5	97	%	70-130	03.30.14 20.49	
4-Bromofluorobenzene	460-00-4	93	%	70-135	03.30.14 20.49	

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB75-0100-27125** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-005 Date Collected: 03.25.14 09.40

Analytical Method: Total Metals by EPA 6010B Prep Method: SW3010A

Tech: MLI % Moisture:

Analyst: MKO Date Prep: 03.29.14 12.00

Seq Number: 938244 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**10.2**	0.0100	mg/L	04.10.14 12.15		1

Analytical Method: Metals, Dissolved, by EPA 6010B Prep Method: SW3010A

Tech: MLI % Moisture:

Analyst: MKO Date Prep: 03.31.14 10.30

Seq Number: 938235 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	<0.0100	0.0100	mg/L	04.10.14 02.17		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB75-0100-27125** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-005 Date Collected: 03.25.14 09.40

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Acetone	67-64-1	<20.0	20.0	ug/L	03.30.14 21.15		1
Benzene	71-43-2	<0.500	0.500	ug/L	03.30.14 21.15		1
Bromobenzene	108-86-1	<1.50	1.50	ug/L	03.30.14 21.15		1
Bromochloromethane	74-97-5	<0.500	0.500	ug/L	03.30.14 21.15		1
Bromodichloromethane	75-27-4	<0.500	0.500	ug/L	03.30.14 21.15		1
Bromoform	75-25-2	<1.00	1.00	ug/L	03.30.14 21.15		1
Bromomethane	74-83-9	<5.00	5.00	ug/L	03.30.14 21.15		1
2-Butanone	78-93-3	<5.00	5.00	ug/L	03.30.14 21.15		1
MTBE	1634-04-4	<2.00	2.00	ug/L	03.30.14 21.15		1
n-Butylbenzene	104-51-8	<2.50	2.50	ug/L	03.30.14 21.15		1
Sec-Butylbenzene	135-98-8	<1.50	1.50	ug/L	03.30.14 21.15		1
tert-Butylbenzene	98-06-6	<2.50	2.50	ug/L	03.30.14 21.15		1
Carbon Disulfide	75-15-0	<0.500	0.500	ug/L	03.30.14 21.15		1
Carbon Tetrachloride	56-23-5	<0.500	0.500	ug/L	03.30.14 21.15		1
Chlorobenzene	108-90-7	<0.500	0.500	ug/L	03.30.14 21.15		1
Chloroethane	75-00-3	<4.00	4.00	ug/L	03.30.14 21.15		1
Chloroform	67-66-3	**0.680**	0.500	ug/L	03.30.14 21.15		1
Chloromethane	74-87-3	<5.00	5.00	ug/L	03.30.14 21.15		1
2-Chlorotoluene	95-49-8	<1.50	1.50	ug/L	03.30.14 21.15		1
4-Chlorotoluene	106-43-4	<2.00	2.00	ug/L	03.30.14 21.15		1
p-Cymene (p-Isopropyltoluene)	99-87-6	<1.50	1.50	ug/L	03.30.14 21.15		1
Dibromochloromethane	124-48-1	<0.500	0.500	ug/L	03.30.14 21.15		1
1,2-Dibromo-3-Chloropropane	96-12-8	<2.00	2.00	ug/L	03.30.14 21.15		1
1,2-Dibromoethane	106-93-4	<0.500	0.500	ug/L	03.30.14 21.15		1
Dibromomethane	74-95-3	<0.500	0.500	ug/L	03.30.14 21.15		1
1,2-Dichlorobenzene	95-50-1	<1.50	1.50	ug/L	03.30.14 21.15		1
1,3-Dichlorobenzene	541-73-1	<1.50	1.50	ug/L	03.30.14 21.15		1
1,4-Dichlorobenzene	106-46-7	<1.50	1.50	ug/L	03.30.14 21.15		1
Dichlorodifluoromethane	75-71-8	<2.00	2.00	ug/L	03.30.14 21.15		1
1,1-Dichloroethane	75-34-3	<0.500	0.500	ug/L	03.30.14 21.15		1
1,2-Dichloroethane	107-06-2	<0.500	0.500	ug/L	03.30.14 21.15		1
1,1-Dichloroethene	75-35-4	**0.760**	0.500	ug/L	03.30.14 21.15		1
cis-1,2-Dichloroethene	156-59-2	**0.790**	0.500	ug/L	03.30.14 21.15		1
trans-1,2-dichloroethene	156-60-5	<0.500	0.500	ug/L	03.30.14 21.15		1
1,2-Dichloropropane	78-87-5	<0.500	0.500	ug/L	03.30.14 21.15		1
1,3-Dichloropropane	142-28-9	<1.00	1.00	ug/L	03.30.14 21.15		1
2,2-Dichloropropane	594-20-7	<0.500	0.500	ug/L	03.30.14 21.15		1
1,1-Dichloropropene	563-58-6	<1.00	1.00	ug/L	03.30.14 21.15		1
cis-1,3-Dichloropropene	10061-01-5	<1.00	1.00	ug/L	03.30.14 21.15		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB75-0100-27125** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-005 Date Collected: 03.25.14 09.40

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
trans-1,3-dichloropropene	10061-02-6	<0.500	0.500	ug/L	03.30.14 21.15		1
Ethylbenzene	100-41-4	<2.00	2.00	ug/L	03.30.14 21.15		1
Hexachlorobutadiene	87-68-3	<5.00	5.00	ug/L	03.30.14 21.15		1
2-Hexanone	591-78-6	<5.00	5.00	ug/L	03.30.14 21.15		1
isopropylbenzene	98-82-8	<2.50	2.50	ug/L	03.30.14 21.15		1
Methylene Chloride	75-09-2	<3.00	3.00	ug/L	03.30.14 21.15		1
Iodomethane (Methyl Iodide)	74-88-4	<2.00	2.00	ug/L	03.30.14 21.15		1
4-Methyl-2-Pentanone	108-10-1	<5.00	5.00	ug/L	03.30.14 21.15		1
Naphthalene	91-20-3	<5.00	5.00	ug/L	03.30.14 21.15		1
n-Propylbenzene	103-65-1	<2.00	2.00	ug/L	03.30.14 21.15		1
Styrene	100-42-5	<1.00	1.00	ug/L	03.30.14 21.15		1
1,1,1,2-Tetrachloroethane	630-20-6	<0.500	0.500	ug/L	03.30.14 21.15		1
1,1,2,2-Tetrachloroethane	79-34-5	<0.500	0.500	ug/L	03.30.14 21.15		1
Tetrachloroethylene	127-18-4	**11.0**	0.500	ug/L	03.30.14 21.15		1
Toluene	108-88-3	<2.00	2.00	ug/L	03.30.14 21.15		1
1,2,3-Trichlorobenzene	87-61-6	<5.00	5.00	ug/L	03.30.14 21.15		1
1,2,4-Trichlorobenzene	120-82-1	<5.00	5.00	ug/L	03.30.14 21.15		1
1,1,1-Trichloroethane	71-55-6	<0.500	0.500	ug/L	03.30.14 21.15		1
1,1,2-Trichloroethane	79-00-5	<0.500	0.500	ug/L	03.30.14 21.15		1
Trichloroethene	79-01-6	**1.84**	0.500	ug/L	03.30.14 21.15		1
Trichlorofluoromethane	75-69-4	<2.00	2.00	ug/L	03.30.14 21.15		1
1,2,3-Trichloropropane	96-18-4	<1.00	1.00	ug/L	03.30.14 21.15		1
1,2,4-Trimethylbenzene	95-63-6	<2.00	2.00	ug/L	03.30.14 21.15		1
1,3,5-Trimethylbenzene	108-67-8	<1.50	1.50	ug/L	03.30.14 21.15		1
o-Xylene	95-47-6	<1.00	1.00	ug/L	03.30.14 21.15		1
m,p-Xylenes	179601-23-1	<2.00	2.00	ug/L	03.30.14 21.15		1
Vinyl Acetate	108-05-4	<5.00	5.00	ug/L	03.30.14 21.15		1
Vinyl Chloride	75-01-4	<0.500	0.500	ug/L	03.30.14 21.15		1
Total Xylenes	1330-20-7	<1.00	1.00	ug/L	03.30.14 21.15		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	98	%	69-133	03.30.14 21.15	
1,2-Dichloroethane-D4	17060-07-0	101	%	66-139	03.30.14 21.15	
Toluene-D8	2037-26-5	100	%	70-130	03.30.14 21.15	
4-Bromofluorobenzene	460-00-4	95	%	70-135	03.30.14 21.15	

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB135-0100-14127** Matrix: Water Date Received:03.25.14 15.45
Lab Sample Id: 481853-006 Date Collected: 03.25.14 10.25

Analytical Method: Total Metals by EPA 6010B Prep Method: SW3010A
Tech: MLI % Moisture:
Analyst: MKO Date Prep: 03.29.14 12.00
Seq Number: 938244 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**0.0251**	0.0100	mg/L	04.10.14 12.22		1

Analytical Method: Metals, Dissolved, by EPA 6010B Prep Method: SW3010A
Tech: MLI % Moisture:
Analyst: MKO Date Prep: 03.31.14 10.30
Seq Number: 938235 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	<0.0100	0.0100	mg/L	04.10.14 02.24		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB135-0100-14127** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-006 Date Collected: 03.25.14 10.25

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Acetone	67-64-1	<20.0	20.0	ug/L	03.30.14 21.41		1
Benzene	71-43-2	<0.500	0.500	ug/L	03.30.14 21.41		1
Bromobenzene	108-86-1	<1.50	1.50	ug/L	03.30.14 21.41		1
Bromochloromethane	74-97-5	<0.500	0.500	ug/L	03.30.14 21.41		1
Bromodichloromethane	75-27-4	<0.500	0.500	ug/L	03.30.14 21.41		1
Bromoform	75-25-2	<1.00	1.00	ug/L	03.30.14 21.41		1
Bromomethane	74-83-9	<5.00	5.00	ug/L	03.30.14 21.41		1
2-Butanone	78-93-3	<5.00	5.00	ug/L	03.30.14 21.41		1
MTBE	1634-04-4	<2.00	2.00	ug/L	03.30.14 21.41		1
n-Butylbenzene	104-51-8	<2.50	2.50	ug/L	03.30.14 21.41		1
Sec-Butylbenzene	135-98-8	<1.50	1.50	ug/L	03.30.14 21.41		1
tert-Butylbenzene	98-06-6	<2.50	2.50	ug/L	03.30.14 21.41		1
Carbon Disulfide	75-15-0	<0.500	0.500	ug/L	03.30.14 21.41		1
Carbon Tetrachloride	56-23-5	<0.500	0.500	ug/L	03.30.14 21.41		1
Chlorobenzene	108-90-7	<0.500	0.500	ug/L	03.30.14 21.41		1
Chloroethane	75-00-3	<4.00	4.00	ug/L	03.30.14 21.41		1
Chloroform	67-66-3	**0.610**	0.500	ug/L	03.30.14 21.41		1
Chloromethane	74-87-3	<5.00	5.00	ug/L	03.30.14 21.41		1
2-Chlorotoluene	95-49-8	<1.50	1.50	ug/L	03.30.14 21.41		1
4-Chlorotoluene	106-43-4	<2.00	2.00	ug/L	03.30.14 21.41		1
p-Cymene (p-Isopropyltoluene)	99-87-6	<1.50	1.50	ug/L	03.30.14 21.41		1
Dibromochloromethane	124-48-1	<0.500	0.500	ug/L	03.30.14 21.41		1
1,2-Dibromo-3-Chloropropane	96-12-8	<2.00	2.00	ug/L	03.30.14 21.41		1
1,2-Dibromoethane	106-93-4	<0.500	0.500	ug/L	03.30.14 21.41		1
Dibromomethane	74-95-3	<0.500	0.500	ug/L	03.30.14 21.41		1
1,2-Dichlorobenzene	95-50-1	<1.50	1.50	ug/L	03.30.14 21.41		1
1,3-Dichlorobenzene	541-73-1	<1.50	1.50	ug/L	03.30.14 21.41		1
1,4-Dichlorobenzene	106-46-7	<1.50	1.50	ug/L	03.30.14 21.41		1
Dichlorodifluoromethane	75-71-8	<2.00	2.00	ug/L	03.30.14 21.41		1
1,1-Dichloroethane	75-34-3	<0.500	0.500	ug/L	03.30.14 21.41		1
1,2-Dichloroethane	107-06-2	<0.500	0.500	ug/L	03.30.14 21.41		1
1,1-Dichloroethene	75-35-4	<0.500	0.500	ug/L	03.30.14 21.41		1
cis-1,2-Dichloroethene	156-59-2	<0.500	0.500	ug/L	03.30.14 21.41		1
trans-1,2-dichloroethene	156-60-5	<0.500	0.500	ug/L	03.30.14 21.41		1
1,2-Dichloropropane	78-87-5	<0.500	0.500	ug/L	03.30.14 21.41		1
1,3-Dichloropropane	142-28-9	<1.00	1.00	ug/L	03.30.14 21.41		1
2,2-Dichloropropane	594-20-7	<0.500	0.500	ug/L	03.30.14 21.41		1
1,1-Dichloropropene	563-58-6	<1.00	1.00	ug/L	03.30.14 21.41		1
cis-1,3-Dichloropropene	10061-01-5	<1.00	1.00	ug/L	03.30.14 21.41		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB135-0100-14127** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-006 Date Collected: 03.25.14 10.25

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
trans-1,3-dichloropropene	10061-02-6	<0.500	0.500	ug/L	03.30.14 21.41		1
Ethylbenzene	100-41-4	<2.00	2.00	ug/L	03.30.14 21.41		1
Hexachlorobutadiene	87-68-3	<5.00	5.00	ug/L	03.30.14 21.41		1
2-Hexanone	591-78-6	<5.00	5.00	ug/L	03.30.14 21.41		1
isopropylbenzene	98-82-8	<2.50	2.50	ug/L	03.30.14 21.41		1
Methylene Chloride	75-09-2	<3.00	3.00	ug/L	03.30.14 21.41		1
Iodomethane (Methyl Iodide)	74-88-4	<2.00	2.00	ug/L	03.30.14 21.41		1
4-Methyl-2-Pentanone	108-10-1	<5.00	5.00	ug/L	03.30.14 21.41		1
Naphthalene	91-20-3	<5.00	5.00	ug/L	03.30.14 21.41		1
n-Propylbenzene	103-65-1	<2.00	2.00	ug/L	03.30.14 21.41		1
Styrene	100-42-5	<1.00	1.00	ug/L	03.30.14 21.41		1
1,1,1,2-Tetrachloroethane	630-20-6	<0.500	0.500	ug/L	03.30.14 21.41		1
1,1,2,2-Tetrachloroethane	79-34-5	<0.500	0.500	ug/L	03.30.14 21.41		1
Tetrachloroethylene	127-18-4	**0.820**	0.500	ug/L	03.30.14 21.41		1
Toluene	108-88-3	<2.00	2.00	ug/L	03.30.14 21.41		1
1,2,3-Trichlorobenzene	87-61-6	<5.00	5.00	ug/L	03.30.14 21.41		1
1,2,4-Trichlorobenzene	120-82-1	<5.00	5.00	ug/L	03.30.14 21.41		1
1,1,1-Trichloroethane	71-55-6	<0.500	0.500	ug/L	03.30.14 21.41		1
1,1,2-Trichloroethane	79-00-5	<0.500	0.500	ug/L	03.30.14 21.41		1
Trichloroethene	79-01-6	<0.500	0.500	ug/L	03.30.14 21.41		1
Trichlorofluoromethane	75-69-4	<2.00	2.00	ug/L	03.30.14 21.41		1
1,2,3-Trichloropropane	96-18-4	<1.00	1.00	ug/L	03.30.14 21.41		1
1,2,4-Trimethylbenzene	95-63-6	<2.00	2.00	ug/L	03.30.14 21.41		1
1,3,5-Trimethylbenzene	108-67-8	<1.50	1.50	ug/L	03.30.14 21.41		1
o-Xylene	95-47-6	<1.00	1.00	ug/L	03.30.14 21.41		1
m,p-Xylenes	179601-23-1	<2.00	2.00	ug/L	03.30.14 21.41		1
Vinyl Acetate	108-05-4	<5.00	5.00	ug/L	03.30.14 21.41		1
Vinyl Chloride	75-01-4	<0.500	0.500	ug/L	03.30.14 21.41		1
Total Xylenes	1330-20-7	<1.00	1.00	ug/L	03.30.14 21.41		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	100	%	69-133	03.30.14 21.41	
1,2-Dichloroethane-D4	17060-07-0	104	%	66-139	03.30.14 21.41	
Toluene-D8	2037-26-5	101	%	70-130	03.30.14 21.41	
4-Bromofluorobenzene	460-00-4	95	%	70-135	03.30.14 21.41	

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB92-0100-21137** Matrix: Water Date Received:03.25.14 15.45
Lab Sample Id: 481853-007 Date Collected: 03.25.14 11.00

Analytical Method: Total Metals by EPA 6010B Prep Method: SW3010A
Tech: MLI % Moisture:
Analyst: MKO Date Prep: 03.29.14 12.00
Seq Number: 938244 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**0.0220**	0.0100	mg/L	04.10.14 12.28		1

Analytical Method: Metals, Dissolved, by EPA 6010B Prep Method: SW3010A
Tech: MLI % Moisture:
Analyst: MKO Date Prep: 03.31.14 10.30
Seq Number: 938235 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**0.0120**	0.0100	mg/L	04.10.14 02.31		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB92-0100-21137** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-007 Date Collected: 03.25.14 11.00

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Acetone	67-64-1	<20.0	20.0	ug/L	03.30.14 22.07		1
Benzene	71-43-2	<0.500	0.500	ug/L	03.30.14 22.07		1
Bromobenzene	108-86-1	<1.50	1.50	ug/L	03.30.14 22.07		1
Bromochloromethane	74-97-5	<0.500	0.500	ug/L	03.30.14 22.07		1
Bromodichloromethane	75-27-4	<0.500	0.500	ug/L	03.30.14 22.07		1
Bromoform	75-25-2	<1.00	1.00	ug/L	03.30.14 22.07		1
Bromomethane	74-83-9	<5.00	5.00	ug/L	03.30.14 22.07		1
2-Butanone	78-93-3	<5.00	5.00	ug/L	03.30.14 22.07		1
MTBE	1634-04-4	<2.00	2.00	ug/L	03.30.14 22.07		1
n-Butylbenzene	104-51-8	<2.50	2.50	ug/L	03.30.14 22.07		1
Sec-Butylbenzene	135-98-8	<1.50	1.50	ug/L	03.30.14 22.07		1
tert-Butylbenzene	98-06-6	<2.50	2.50	ug/L	03.30.14 22.07		1
Carbon Disulfide	75-15-0	<0.500	0.500	ug/L	03.30.14 22.07		1
Carbon Tetrachloride	56-23-5	<0.500	0.500	ug/L	03.30.14 22.07		1
Chlorobenzene	108-90-7	<0.500	0.500	ug/L	03.30.14 22.07		1
Chloroethane	75-00-3	<4.00	4.00	ug/L	03.30.14 22.07		1
Chloroform	67-66-3	<0.500	0.500	ug/L	03.30.14 22.07		1
Chloromethane	74-87-3	<5.00	5.00	ug/L	03.30.14 22.07		1
2-Chlorotoluene	95-49-8	<1.50	1.50	ug/L	03.30.14 22.07		1
4-Chlorotoluene	106-43-4	<2.00	2.00	ug/L	03.30.14 22.07		1
p-Cymene (p-Isopropyltoluene)	99-87-6	<1.50	1.50	ug/L	03.30.14 22.07		1
Dibromochloromethane	124-48-1	<0.500	0.500	ug/L	03.30.14 22.07		1
1,2-Dibromo-3-Chloropropane	96-12-8	<2.00	2.00	ug/L	03.30.14 22.07		1
1,2-Dibromoethane	106-93-4	<0.500	0.500	ug/L	03.30.14 22.07		1
Dibromomethane	74-95-3	<0.500	0.500	ug/L	03.30.14 22.07		1
1,2-Dichlorobenzene	95-50-1	<1.50	1.50	ug/L	03.30.14 22.07		1
1,3-Dichlorobenzene	541-73-1	<1.50	1.50	ug/L	03.30.14 22.07		1
1,4-Dichlorobenzene	106-46-7	<1.50	1.50	ug/L	03.30.14 22.07		1
Dichlorodifluoromethane	75-71-8	<2.00	2.00	ug/L	03.30.14 22.07		1
1,1-Dichloroethane	75-34-3	<0.500	0.500	ug/L	03.30.14 22.07		1
1,2-Dichloroethane	107-06-2	<0.500	0.500	ug/L	03.30.14 22.07		1
1,1-Dichloroethene	75-35-4	<0.500	0.500	ug/L	03.30.14 22.07		1
cis-1,2-Dichloroethene	156-59-2	<0.500	0.500	ug/L	03.30.14 22.07		1
trans-1,2-dichloroethene	156-60-5	<0.500	0.500	ug/L	03.30.14 22.07		1
1,2-Dichloropropane	78-87-5	<0.500	0.500	ug/L	03.30.14 22.07		1
1,3-Dichloropropane	142-28-9	<1.00	1.00	ug/L	03.30.14 22.07		1
2,2-Dichloropropane	594-20-7	<0.500	0.500	ug/L	03.30.14 22.07		1
1,1-Dichloropropene	563-58-6	<1.00	1.00	ug/L	03.30.14 22.07		1
cis-1,3-Dichloropropene	10061-01-5	<1.00	1.00	ug/L	03.30.14 22.07		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB92-0100-21137** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-007 Date Collected: 03.25.14 11.00

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
trans-1,3-dichloropropene	10061-02-6	<0.500	0.500	ug/L	03.30.14 22.07		1
Ethylbenzene	100-41-4	<2.00	2.00	ug/L	03.30.14 22.07		1
Hexachlorobutadiene	87-68-3	<5.00	5.00	ug/L	03.30.14 22.07		1
2-Hexanone	591-78-6	<5.00	5.00	ug/L	03.30.14 22.07		1
isopropylbenzene	98-82-8	<2.50	2.50	ug/L	03.30.14 22.07		1
Methylene Chloride	75-09-2	<3.00	3.00	ug/L	03.30.14 22.07		1
Iodomethane (Methyl Iodide)	74-88-4	<2.00	2.00	ug/L	03.30.14 22.07		1
4-Methyl-2-Pentanone	108-10-1	<5.00	5.00	ug/L	03.30.14 22.07		1
Naphthalene	91-20-3	<5.00	5.00	ug/L	03.30.14 22.07		1
n-Propylbenzene	103-65-1	<2.00	2.00	ug/L	03.30.14 22.07		1
Styrene	100-42-5	<1.00	1.00	ug/L	03.30.14 22.07		1
1,1,1,2-Tetrachloroethane	630-20-6	<0.500	0.500	ug/L	03.30.14 22.07		1
1,1,2,2-Tetrachloroethane	79-34-5	<0.500	0.500	ug/L	03.30.14 22.07		1
Tetrachloroethylene	127-18-4	**1.08**	0.500	ug/L	03.30.14 22.07		1
Toluene	108-88-3	<2.00	2.00	ug/L	03.30.14 22.07		1
1,2,3-Trichlorobenzene	87-61-6	<5.00	5.00	ug/L	03.30.14 22.07		1
1,2,4-Trichlorobenzene	120-82-1	<5.00	5.00	ug/L	03.30.14 22.07		1
1,1,1-Trichloroethane	71-55-6	<0.500	0.500	ug/L	03.30.14 22.07		1
1,1,2-Trichloroethane	79-00-5	<0.500	0.500	ug/L	03.30.14 22.07		1
Trichloroethene	79-01-6	<0.500	0.500	ug/L	03.30.14 22.07		1
Trichlorofluoromethane	75-69-4	<2.00	2.00	ug/L	03.30.14 22.07		1
1,2,3-Trichloropropane	96-18-4	<1.00	1.00	ug/L	03.30.14 22.07		1
1,2,4-Trimethylbenzene	95-63-6	<2.00	2.00	ug/L	03.30.14 22.07		1
1,3,5-Trimethylbenzene	108-67-8	<1.50	1.50	ug/L	03.30.14 22.07		1
o-Xylene	95-47-6	<1.00	1.00	ug/L	03.30.14 22.07		1
m,p-Xylenes	179601-23-1	<2.00	2.00	ug/L	03.30.14 22.07		1
Vinyl Acetate	108-05-4	<5.00	5.00	ug/L	03.30.14 22.07		1
Vinyl Chloride	75-01-4	<0.500	0.500	ug/L	03.30.14 22.07		1
Total Xylenes	1330-20-7	<1.00	1.00	ug/L	03.30.14 22.07		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	98	%	69-133	03.30.14 22.07	
1,2-Dichloroethane-D4	17060-07-0	102	%	66-139	03.30.14 22.07	
Toluene-D8	2037-26-5	99	%	70-130	03.30.14 22.07	
4-Bromofluorobenzene	460-00-4	94	%	70-135	03.30.14 22.07	

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB93-0100-21136** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-008 Date Collected: 03.25.14 11.35

Analytical Method: Total Metals by EPA 6010B Prep Method: SW3010A

Tech: MLI % Moisture:

Analyst: MKO Date Prep: 03.29.14 12.00

Seq Number: 938244 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**0.0239**	0.0100	mg/L	04.10.14 12.35		1

Analytical Method: Metals, Dissolved, by EPA 6010B Prep Method: SW3010A

Tech: MLI % Moisture:

Analyst: MKO Date Prep: 03.31.14 10.30

Seq Number: 938235 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	<0.0100	0.0100	mg/L	04.10.14 02.51		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB93-0100-21136** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-008 Date Collected: 03.25.14 11.35

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Acetone	67-64-1	<20.0	20.0	ug/L	03.30.14 22.32		1
Benzene	71-43-2	<0.500	0.500	ug/L	03.30.14 22.32		1
Bromobenzene	108-86-1	<1.50	1.50	ug/L	03.30.14 22.32		1
Bromochloromethane	74-97-5	<0.500	0.500	ug/L	03.30.14 22.32		1
Bromodichloromethane	75-27-4	<0.500	0.500	ug/L	03.30.14 22.32		1
Bromoform	75-25-2	<1.00	1.00	ug/L	03.30.14 22.32		1
Bromomethane	74-83-9	<5.00	5.00	ug/L	03.30.14 22.32		1
2-Butanone	78-93-3	<5.00	5.00	ug/L	03.30.14 22.32		1
MTBE	1634-04-4	<2.00	2.00	ug/L	03.30.14 22.32		1
n-Butylbenzene	104-51-8	<2.50	2.50	ug/L	03.30.14 22.32		1
Sec-Butylbenzene	135-98-8	<1.50	1.50	ug/L	03.30.14 22.32		1
tert-Butylbenzene	98-06-6	<2.50	2.50	ug/L	03.30.14 22.32		1
Carbon Disulfide	75-15-0	<0.500	0.500	ug/L	03.30.14 22.32		1
Carbon Tetrachloride	56-23-5	<0.500	0.500	ug/L	03.30.14 22.32		1
Chlorobenzene	108-90-7	<0.500	0.500	ug/L	03.30.14 22.32		1
Chloroethane	75-00-3	<4.00	4.00	ug/L	03.30.14 22.32		1
Chloroform	67-66-3	<0.500	0.500	ug/L	03.30.14 22.32		1
Chloromethane	74-87-3	<5.00	5.00	ug/L	03.30.14 22.32		1
2-Chlorotoluene	95-49-8	<1.50	1.50	ug/L	03.30.14 22.32		1
4-Chlorotoluene	106-43-4	<2.00	2.00	ug/L	03.30.14 22.32		1
p-Cymene (p-Isopropyltoluene)	99-87-6	<1.50	1.50	ug/L	03.30.14 22.32		1
Dibromochloromethane	124-48-1	<0.500	0.500	ug/L	03.30.14 22.32		1
1,2-Dibromo-3-Chloropropane	96-12-8	<2.00	2.00	ug/L	03.30.14 22.32		1
1,2-Dibromoethane	106-93-4	<0.500	0.500	ug/L	03.30.14 22.32		1
Dibromomethane	74-95-3	<0.500	0.500	ug/L	03.30.14 22.32		1
1,2-Dichlorobenzene	95-50-1	<1.50	1.50	ug/L	03.30.14 22.32		1
1,3-Dichlorobenzene	541-73-1	<1.50	1.50	ug/L	03.30.14 22.32		1
1,4-Dichlorobenzene	106-46-7	<1.50	1.50	ug/L	03.30.14 22.32		1
Dichlorodifluoromethane	75-71-8	<2.00	2.00	ug/L	03.30.14 22.32		1
1,1-Dichloroethane	75-34-3	<0.500	0.500	ug/L	03.30.14 22.32		1
1,2-Dichloroethane	107-06-2	<0.500	0.500	ug/L	03.30.14 22.32		1
1,1-Dichloroethene	75-35-4	<0.500	0.500	ug/L	03.30.14 22.32		1
cis-1,2-Dichloroethene	156-59-2	<0.500	0.500	ug/L	03.30.14 22.32		1
trans-1,2-dichloroethene	156-60-5	<0.500	0.500	ug/L	03.30.14 22.32		1
1,2-Dichloropropane	78-87-5	<0.500	0.500	ug/L	03.30.14 22.32		1
1,3-Dichloropropane	142-28-9	<1.00	1.00	ug/L	03.30.14 22.32		1
2,2-Dichloropropane	594-20-7	<0.500	0.500	ug/L	03.30.14 22.32		1
1,1-Dichloropropene	563-58-6	<1.00	1.00	ug/L	03.30.14 22.32		1
cis-1,3-Dichloropropene	10061-01-5	<1.00	1.00	ug/L	03.30.14 22.32		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB93-0100-21136** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-008 Date Collected: 03.25.14 11.35

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
trans-1,3-dichloropropene	10061-02-6	<0.500	0.500	ug/L	03.30.14 22.32		1
Ethylbenzene	100-41-4	<2.00	2.00	ug/L	03.30.14 22.32		1
Hexachlorobutadiene	87-68-3	<5.00	5.00	ug/L	03.30.14 22.32		1
2-Hexanone	591-78-6	<5.00	5.00	ug/L	03.30.14 22.32		1
isopropylbenzene	98-82-8	<2.50	2.50	ug/L	03.30.14 22.32		1
Methylene Chloride	75-09-2	<3.00	3.00	ug/L	03.30.14 22.32		1
Iodomethane (Methyl Iodide)	74-88-4	<2.00	2.00	ug/L	03.30.14 22.32		1
4-Methyl-2-Pentanone	108-10-1	<5.00	5.00	ug/L	03.30.14 22.32		1
Naphthalene	91-20-3	<5.00	5.00	ug/L	03.30.14 22.32		1
n-Propylbenzene	103-65-1	<2.00	2.00	ug/L	03.30.14 22.32		1
Styrene	100-42-5	<1.00	1.00	ug/L	03.30.14 22.32		1
1,1,1,2-Tetrachloroethane	630-20-6	<0.500	0.500	ug/L	03.30.14 22.32		1
1,1,2,2-Tetrachloroethane	79-34-5	<0.500	0.500	ug/L	03.30.14 22.32		1
Tetrachloroethylene	127-18-4	**13.3**	0.500	ug/L	03.30.14 22.32		1
Toluene	108-88-3	<2.00	2.00	ug/L	03.30.14 22.32		1
1,2,3-Trichlorobenzene	87-61-6	<5.00	5.00	ug/L	03.30.14 22.32		1
1,2,4-Trichlorobenzene	120-82-1	<5.00	5.00	ug/L	03.30.14 22.32		1
1,1,1-Trichloroethane	71-55-6	<0.500	0.500	ug/L	03.30.14 22.32		1
1,1,2-Trichloroethane	79-00-5	<0.500	0.500	ug/L	03.30.14 22.32		1
Trichloroethene	79-01-6	<0.500	0.500	ug/L	03.30.14 22.32		1
Trichlorofluoromethane	75-69-4	<2.00	2.00	ug/L	03.30.14 22.32		1
1,2,3-Trichloropropane	96-18-4	<1.00	1.00	ug/L	03.30.14 22.32		1
1,2,4-Trimethylbenzene	95-63-6	<2.00	2.00	ug/L	03.30.14 22.32		1
1,3,5-Trimethylbenzene	108-67-8	<1.50	1.50	ug/L	03.30.14 22.32		1
o-Xylene	95-47-6	<1.00	1.00	ug/L	03.30.14 22.32		1
m,p-Xylenes	179601-23-1	<2.00	2.00	ug/L	03.30.14 22.32		1
Vinyl Acetate	108-05-4	<5.00	5.00	ug/L	03.30.14 22.32		1
Vinyl Chloride	75-01-4	<0.500	0.500	ug/L	03.30.14 22.32		1
Total Xylenes	1330-20-7	<1.00	1.00	ug/L	03.30.14 22.32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	98	%	69-133	03.30.14 22.32	
1,2-Dichloroethane-D4	17060-07-0	102	%	66-139	03.30.14 22.32	
Toluene-D8	2037-26-5	98	%	70-130	03.30.14 22.32	
4-Bromofluorobenzene	460-00-4	94	%	70-135	03.30.14 22.32	

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB88-0100-25110** Matrix: Water Date Received:03.25.14 15.45
Lab Sample Id: 481853-009 Date Collected: 03.25.14 12.52

Analytical Method: Total Metals by EPA 6010B Prep Method: SW3010A
Tech: MLI % Moisture:
Analyst: MKO Date Prep: 03.29.14 12.00
Seq Number: 938244 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**0.0688**	0.0100	mg/L	04.10.14 12.42		1

Analytical Method: Metals, Dissolved, by EPA 6010B Prep Method: SW3010A
Tech: MLI % Moisture:
Analyst: MKO Date Prep: 03.31.14 10.30
Seq Number: 938235 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**0.0672**	0.0100	mg/L	04.10.14 02.57		1

Analytical Method: Total Cyanide by EPA 335.4 Prep Method: E335.4P
Tech: BFO % Moisture:
Analyst: BFO Date Prep: 04.01.14 09.44
Seq Number: 937504 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Cyanide, Total	57-12-5	<0.0100	0.0100	mg/L	04.01.14 12.01		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB88-0100-25110** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-009 Date Collected: 03.25.14 12.52

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Acetone	67-64-1	<20.0	20.0	ug/L	03.30.14 22.58		1
Benzene	71-43-2	<0.500	0.500	ug/L	03.30.14 22.58		1
Bromobenzene	108-86-1	<1.50	1.50	ug/L	03.30.14 22.58		1
Bromochloromethane	74-97-5	<0.500	0.500	ug/L	03.30.14 22.58		1
Bromodichloromethane	75-27-4	<0.500	0.500	ug/L	03.30.14 22.58		1
Bromoform	75-25-2	<1.00	1.00	ug/L	03.30.14 22.58		1
Bromomethane	74-83-9	<5.00	5.00	ug/L	03.30.14 22.58		1
2-Butanone	78-93-3	<5.00	5.00	ug/L	03.30.14 22.58		1
MTBE	1634-04-4	<2.00	2.00	ug/L	03.30.14 22.58		1
n-Butylbenzene	104-51-8	<2.50	2.50	ug/L	03.30.14 22.58		1
Sec-Butylbenzene	135-98-8	<1.50	1.50	ug/L	03.30.14 22.58		1
tert-Butylbenzene	98-06-6	<2.50	2.50	ug/L	03.30.14 22.58		1
Carbon Disulfide	75-15-0	<0.500	0.500	ug/L	03.30.14 22.58		1
Carbon Tetrachloride	56-23-5	<0.500	0.500	ug/L	03.30.14 22.58		1
Chlorobenzene	108-90-7	<0.500	0.500	ug/L	03.30.14 22.58		1
Chloroethane	75-00-3	<4.00	4.00	ug/L	03.30.14 22.58		1
Chloroform	67-66-3	<0.500	0.500	ug/L	03.30.14 22.58		1
Chloromethane	74-87-3	<5.00	5.00	ug/L	03.30.14 22.58		1
2-Chlorotoluene	95-49-8	<1.50	1.50	ug/L	03.30.14 22.58		1
4-Chlorotoluene	106-43-4	<2.00	2.00	ug/L	03.30.14 22.58		1
p-Cymene (p-Isopropyltoluene)	99-87-6	<1.50	1.50	ug/L	03.30.14 22.58		1
Dibromochloromethane	124-48-1	<0.500	0.500	ug/L	03.30.14 22.58		1
1,2-Dibromo-3-Chloropropane	96-12-8	<2.00	2.00	ug/L	03.30.14 22.58		1
1,2-Dibromoethane	106-93-4	<0.500	0.500	ug/L	03.30.14 22.58		1
Dibromomethane	74-95-3	<0.500	0.500	ug/L	03.30.14 22.58		1
1,2-Dichlorobenzene	95-50-1	<1.50	1.50	ug/L	03.30.14 22.58		1
1,3-Dichlorobenzene	541-73-1	<1.50	1.50	ug/L	03.30.14 22.58		1
1,4-Dichlorobenzene	106-46-7	<1.50	1.50	ug/L	03.30.14 22.58		1
Dichlorodifluoromethane	75-71-8	<2.00	2.00	ug/L	03.30.14 22.58		1
1,1-Dichloroethane	75-34-3	<0.500	0.500	ug/L	03.30.14 22.58		1
1,2-Dichloroethane	107-06-2	<0.500	0.500	ug/L	03.30.14 22.58		1
1,1-Dichloroethene	75-35-4	<0.500	0.500	ug/L	03.30.14 22.58		1
cis-1,2-Dichloroethene	156-59-2	<0.500	0.500	ug/L	03.30.14 22.58		1
trans-1,2-dichloroethene	156-60-5	<0.500	0.500	ug/L	03.30.14 22.58		1
1,2-Dichloropropane	78-87-5	<0.500	0.500	ug/L	03.30.14 22.58		1
1,3-Dichloropropane	142-28-9	<1.00	1.00	ug/L	03.30.14 22.58		1
2,2-Dichloropropane	594-20-7	<0.500	0.500	ug/L	03.30.14 22.58		1
1,1-Dichloropropene	563-58-6	<1.00	1.00	ug/L	03.30.14 22.58		1
cis-1,3-Dichloropropene	10061-01-5	<1.00	1.00	ug/L	03.30.14 22.58		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB88-0100-25110** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-009 Date Collected: 03.25.14 12.52

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
trans-1,3-dichloropropene	10061-02-6	<0.500	0.500	ug/L	03.30.14 22.58		1
Ethylbenzene	100-41-4	<2.00	2.00	ug/L	03.30.14 22.58		1
Hexachlorobutadiene	87-68-3	<5.00	5.00	ug/L	03.30.14 22.58		1
2-Hexanone	591-78-6	<5.00	5.00	ug/L	03.30.14 22.58		1
isopropylbenzene	98-82-8	<2.50	2.50	ug/L	03.30.14 22.58		1
Methylene Chloride	75-09-2	<3.00	3.00	ug/L	03.30.14 22.58		1
Iodomethane (Methyl Iodide)	74-88-4	<2.00	2.00	ug/L	03.30.14 22.58		1
4-Methyl-2-Pentanone	108-10-1	<5.00	5.00	ug/L	03.30.14 22.58		1
Naphthalene	91-20-3	<5.00	5.00	ug/L	03.30.14 22.58		1
n-Propylbenzene	103-65-1	<2.00	2.00	ug/L	03.30.14 22.58		1
Styrene	100-42-5	<1.00	1.00	ug/L	03.30.14 22.58		1
1,1,1,2-Tetrachloroethane	630-20-6	<0.500	0.500	ug/L	03.30.14 22.58		1
1,1,2,2-Tetrachloroethane	79-34-5	<0.500	0.500	ug/L	03.30.14 22.58		1
Tetrachloroethylene	127-18-4	**79.6**	0.500	ug/L	03.30.14 22.58		1
Toluene	108-88-3	<2.00	2.00	ug/L	03.30.14 22.58		1
1,2,3-Trichlorobenzene	87-61-6	<5.00	5.00	ug/L	03.30.14 22.58		1
1,2,4-Trichlorobenzene	120-82-1	<5.00	5.00	ug/L	03.30.14 22.58		1
1,1,1-Trichloroethane	71-55-6	<0.500	0.500	ug/L	03.30.14 22.58		1
1,1,2-Trichloroethane	79-00-5	<0.500	0.500	ug/L	03.30.14 22.58		1
Trichloroethene	79-01-6	<0.500	0.500	ug/L	03.30.14 22.58		1
Trichlorofluoromethane	75-69-4	<2.00	2.00	ug/L	03.30.14 22.58		1
1,2,3-Trichloropropane	96-18-4	<1.00	1.00	ug/L	03.30.14 22.58		1
1,2,4-Trimethylbenzene	95-63-6	<2.00	2.00	ug/L	03.30.14 22.58		1
1,3,5-Trimethylbenzene	108-67-8	<1.50	1.50	ug/L	03.30.14 22.58		1
o-Xylene	95-47-6	<1.00	1.00	ug/L	03.30.14 22.58		1
m,p-Xylenes	179601-23-1	<2.00	2.00	ug/L	03.30.14 22.58		1
Vinyl Acetate	108-05-4	<5.00	5.00	ug/L	03.30.14 22.58		1
Vinyl Chloride	75-01-4	<0.500	0.500	ug/L	03.30.14 22.58		1
Total Xylenes	1330-20-7	<1.00	1.00	ug/L	03.30.14 22.58		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	99	%	69-133	03.30.14 22.58	
1,2-Dichloroethane-D4	17060-07-0	103	%	66-139	03.30.14 22.58	
Toluene-D8	2037-26-5	98	%	70-130	03.30.14 22.58	
4-Bromofluorobenzene	460-00-4	94	%	70-135	03.30.14 22.58	

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB125-0100-19125** Matrix: Water Date Received:03.25.14 15.45
Lab Sample Id: 481853-010 Date Collected: 03.25.14 13.28

Analytical Method: Total Metals by EPA 6010B Prep Method: SW3010A
Tech: MLI % Moisture:
Analyst: MKO Date Prep: 03.29.14 12.00
Seq Number: 938244 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**0.303**	0.0100	mg/L	04.10.14 13.02		1

Analytical Method: Metals, Dissolved, by EPA 6010B Prep Method: SW3010A
Tech: MLI % Moisture:
Analyst: MKO Date Prep: 03.31.14 10.30
Seq Number: 938235 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**0.296**	0.0100	mg/L	04.10.14 03.04		1

Analytical Method: Total Cyanide by EPA 335.4 Prep Method: E335.4P
Tech: BFO % Moisture:
Analyst: BFO Date Prep: 04.01.14 09.44
Seq Number: 937504 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Cyanide, Total	57-12-5	<0.0100	0.0100	mg/L	04.01.14 12.02		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB125-0100-19125** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-010 Date Collected: 03.25.14 13.28

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Acetone	67-64-1	<20.0	20.0	ug/L	03.30.14 23.24		1
Benzene	71-43-2	<0.500	0.500	ug/L	03.30.14 23.24		1
Bromobenzene	108-86-1	<1.50	1.50	ug/L	03.30.14 23.24		1
Bromochloromethane	74-97-5	<0.500	0.500	ug/L	03.30.14 23.24		1
Bromodichloromethane	75-27-4	<0.500	0.500	ug/L	03.30.14 23.24		1
Bromoform	75-25-2	<1.00	1.00	ug/L	03.30.14 23.24		1
Bromomethane	74-83-9	<5.00	5.00	ug/L	03.30.14 23.24		1
2-Butanone	78-93-3	<5.00	5.00	ug/L	03.30.14 23.24		1
MTBE	1634-04-4	<2.00	2.00	ug/L	03.30.14 23.24		1
n-Butylbenzene	104-51-8	<2.50	2.50	ug/L	03.30.14 23.24		1
Sec-Butylbenzene	135-98-8	<1.50	1.50	ug/L	03.30.14 23.24		1
tert-Butylbenzene	98-06-6	<2.50	2.50	ug/L	03.30.14 23.24		1
Carbon Disulfide	75-15-0	<0.500	0.500	ug/L	03.30.14 23.24		1
Carbon Tetrachloride	56-23-5	<0.500	0.500	ug/L	03.30.14 23.24		1
Chlorobenzene	108-90-7	<0.500	0.500	ug/L	03.30.14 23.24		1
Chloroethane	75-00-3	<4.00	4.00	ug/L	03.30.14 23.24		1
Chloroform	67-66-3	<0.500	0.500	ug/L	03.30.14 23.24		1
Chloromethane	74-87-3	<5.00	5.00	ug/L	03.30.14 23.24		1
2-Chlorotoluene	95-49-8	<1.50	1.50	ug/L	03.30.14 23.24		1
4-Chlorotoluene	106-43-4	<2.00	2.00	ug/L	03.30.14 23.24		1
p-Cymene (p-Isopropyltoluene)	99-87-6	<1.50	1.50	ug/L	03.30.14 23.24		1
Dibromochloromethane	124-48-1	<0.500	0.500	ug/L	03.30.14 23.24		1
1,2-Dibromo-3-Chloropropane	96-12-8	<2.00	2.00	ug/L	03.30.14 23.24		1
1,2-Dibromoethane	106-93-4	<0.500	0.500	ug/L	03.30.14 23.24		1
Dibromomethane	74-95-3	<0.500	0.500	ug/L	03.30.14 23.24		1
1,2-Dichlorobenzene	95-50-1	<1.50	1.50	ug/L	03.30.14 23.24		1
1,3-Dichlorobenzene	541-73-1	<1.50	1.50	ug/L	03.30.14 23.24		1
1,4-Dichlorobenzene	106-46-7	<1.50	1.50	ug/L	03.30.14 23.24		1
Dichlorodifluoromethane	75-71-8	<2.00	2.00	ug/L	03.30.14 23.24		1
1,1-Dichloroethane	75-34-3	<0.500	0.500	ug/L	03.30.14 23.24		1
1,2-Dichloroethane	107-06-2	<0.500	0.500	ug/L	03.30.14 23.24		1
1,1-Dichloroethene	75-35-4	<0.500	0.500	ug/L	03.30.14 23.24		1
cis-1,2-Dichloroethene	156-59-2	<0.500	0.500	ug/L	03.30.14 23.24		1
trans-1,2-dichloroethene	156-60-5	<0.500	0.500	ug/L	03.30.14 23.24		1
1,2-Dichloropropane	78-87-5	<0.500	0.500	ug/L	03.30.14 23.24		1
1,3-Dichloropropane	142-28-9	<1.00	1.00	ug/L	03.30.14 23.24		1
2,2-Dichloropropane	594-20-7	<0.500	0.500	ug/L	03.30.14 23.24		1
1,1-Dichloropropene	563-58-6	<1.00	1.00	ug/L	03.30.14 23.24		1
cis-1,3-Dichloropropene	10061-01-5	<1.00	1.00	ug/L	03.30.14 23.24		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB125-0100-19125** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-010 Date Collected: 03.25.14 13.28

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
trans-1,3-dichloropropene	10061-02-6	<0.500	0.500	ug/L	03.30.14 23.24		1
Ethylbenzene	100-41-4	<2.00	2.00	ug/L	03.30.14 23.24		1
Hexachlorobutadiene	87-68-3	<5.00	5.00	ug/L	03.30.14 23.24		1
2-Hexanone	591-78-6	<5.00	5.00	ug/L	03.30.14 23.24		1
isopropylbenzene	98-82-8	<2.50	2.50	ug/L	03.30.14 23.24		1
Methylene Chloride	75-09-2	<3.00	3.00	ug/L	03.30.14 23.24		1
Iodomethane (Methyl Iodide)	74-88-4	<2.00	2.00	ug/L	03.30.14 23.24		1
4-Methyl-2-Pentanone	108-10-1	<5.00	5.00	ug/L	03.30.14 23.24		1
Naphthalene	91-20-3	<5.00	5.00	ug/L	03.30.14 23.24		1
n-Propylbenzene	103-65-1	<2.00	2.00	ug/L	03.30.14 23.24		1
Styrene	100-42-5	<1.00	1.00	ug/L	03.30.14 23.24		1
1,1,1,2-Tetrachloroethane	630-20-6	<0.500	0.500	ug/L	03.30.14 23.24		1
1,1,2,2-Tetrachloroethane	79-34-5	<0.500	0.500	ug/L	03.30.14 23.24		1
Tetrachloroethylene	127-18-4	**25.8**	0.500	ug/L	03.30.14 23.24		1
Toluene	108-88-3	<2.00	2.00	ug/L	03.30.14 23.24		1
1,2,3-Trichlorobenzene	87-61-6	<5.00	5.00	ug/L	03.30.14 23.24		1
1,2,4-Trichlorobenzene	120-82-1	<5.00	5.00	ug/L	03.30.14 23.24		1
1,1,1-Trichloroethane	71-55-6	<0.500	0.500	ug/L	03.30.14 23.24		1
1,1,2-Trichloroethane	79-00-5	<0.500	0.500	ug/L	03.30.14 23.24		1
Trichloroethene	79-01-6	<0.500	0.500	ug/L	03.30.14 23.24		1
Trichlorofluoromethane	75-69-4	<2.00	2.00	ug/L	03.30.14 23.24		1
1,2,3-Trichloropropane	96-18-4	<1.00	1.00	ug/L	03.30.14 23.24		1
1,2,4-Trimethylbenzene	95-63-6	<2.00	2.00	ug/L	03.30.14 23.24		1
1,3,5-Trimethylbenzene	108-67-8	<1.50	1.50	ug/L	03.30.14 23.24		1
o-Xylene	95-47-6	<1.00	1.00	ug/L	03.30.14 23.24		1
m,p-Xylenes	179601-23-1	<2.00	2.00	ug/L	03.30.14 23.24		1
Vinyl Acetate	108-05-4	<5.00	5.00	ug/L	03.30.14 23.24		1
Vinyl Chloride	75-01-4	<0.500	0.500	ug/L	03.30.14 23.24		1
Total Xylenes	1330-20-7	<1.00	1.00	ug/L	03.30.14 23.24		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	99	%	69-133	03.30.14 23.24	
1,2-Dichloroethane-D4	17060-07-0	104	%	66-139	03.30.14 23.24	
Toluene-D8	2037-26-5	100	%	70-130	03.30.14 23.24	
4-Bromofluorobenzene	460-00-4	93	%	70-135	03.30.14 23.24	

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB69-0200-03114** Matrix: Water Date Received:03.25.14 15.45
Lab Sample Id: 481853-011 Date Collected: 03.25.14 14.05

Analytical Method: Total Metals by EPA 6010B Prep Method: SW3010A
Tech: MLI % Moisture:
Analyst: MKO Date Prep: 03.29.14 12.00
Seq Number: 938244 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	**0.0122**	0.0100	mg/L	04.10.14 13.08		1

Analytical Method: Metals, Dissolved, by EPA 6010B Prep Method: SW3010A
Tech: MLI % Moisture:
Analyst: MKO Date Prep: 03.31.14 10.30
Seq Number: 938235 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	<0.0100	0.0100	mg/L	04.10.14 03.10		1

Analytical Method: Total Cyanide by EPA 335.4 Prep Method: E335.4P
Tech: BFO % Moisture:
Analyst: BFO Date Prep: 04.01.14 09.44
Seq Number: 937504 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Cyanide, Total	57-12-5	<0.0100	0.0100	mg/L	04.01.14 12.07		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB69-0200-03114** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-011 Date Collected: 03.25.14 14.05

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Acetone	67-64-1	<20.0	20.0	ug/L	03.30.14 23.50		1
Benzene	71-43-2	<0.500	0.500	ug/L	03.30.14 23.50		1
Bromobenzene	108-86-1	<1.50	1.50	ug/L	03.30.14 23.50		1
Bromochloromethane	74-97-5	<0.500	0.500	ug/L	03.30.14 23.50		1
Bromodichloromethane	75-27-4	<0.500	0.500	ug/L	03.30.14 23.50		1
Bromoform	75-25-2	<1.00	1.00	ug/L	03.30.14 23.50		1
Bromomethane	74-83-9	<5.00	5.00	ug/L	03.30.14 23.50		1
2-Butanone	78-93-3	<5.00	5.00	ug/L	03.30.14 23.50		1
MTBE	1634-04-4	<2.00	2.00	ug/L	03.30.14 23.50		1
n-Butylbenzene	104-51-8	<2.50	2.50	ug/L	03.30.14 23.50		1
Sec-Butylbenzene	135-98-8	<1.50	1.50	ug/L	03.30.14 23.50		1
tert-Butylbenzene	98-06-6	<2.50	2.50	ug/L	03.30.14 23.50		1
Carbon Disulfide	75-15-0	<0.500	0.500	ug/L	03.30.14 23.50		1
Carbon Tetrachloride	56-23-5	<0.500	0.500	ug/L	03.30.14 23.50		1
Chlorobenzene	108-90-7	<0.500	0.500	ug/L	03.30.14 23.50		1
Chloroethane	75-00-3	<4.00	4.00	ug/L	03.30.14 23.50		1
Chloroform	67-66-3	**0.710**	0.500	ug/L	03.30.14 23.50		1
Chloromethane	74-87-3	<5.00	5.00	ug/L	03.30.14 23.50		1
2-Chlorotoluene	95-49-8	<1.50	1.50	ug/L	03.30.14 23.50		1
4-Chlorotoluene	106-43-4	<2.00	2.00	ug/L	03.30.14 23.50		1
p-Cymene (p-Isopropyltoluene)	99-87-6	<1.50	1.50	ug/L	03.30.14 23.50		1
Dibromochloromethane	124-48-1	<0.500	0.500	ug/L	03.30.14 23.50		1
1,2-Dibromo-3-Chloropropane	96-12-8	<2.00	2.00	ug/L	03.30.14 23.50		1
1,2-Dibromoethane	106-93-4	<0.500	0.500	ug/L	03.30.14 23.50		1
Dibromomethane	74-95-3	<0.500	0.500	ug/L	03.30.14 23.50		1
1,2-Dichlorobenzene	95-50-1	<1.50	1.50	ug/L	03.30.14 23.50		1
1,3-Dichlorobenzene	541-73-1	<1.50	1.50	ug/L	03.30.14 23.50		1
1,4-Dichlorobenzene	106-46-7	<1.50	1.50	ug/L	03.30.14 23.50		1
Dichlorodifluoromethane	75-71-8	<2.00	2.00	ug/L	03.30.14 23.50		1
1,1-Dichloroethane	75-34-3	<0.500	0.500	ug/L	03.30.14 23.50		1
1,2-Dichloroethane	107-06-2	<0.500	0.500	ug/L	03.30.14 23.50		1
1,1-Dichloroethene	75-35-4	<0.500	0.500	ug/L	03.30.14 23.50		1
cis-1,2-Dichloroethene	156-59-2	<0.500	0.500	ug/L	03.30.14 23.50		1
trans-1,2-dichloroethene	156-60-5	<0.500	0.500	ug/L	03.30.14 23.50		1
1,2-Dichloropropane	78-87-5	<0.500	0.500	ug/L	03.30.14 23.50		1
1,3-Dichloropropane	142-28-9	<1.00	1.00	ug/L	03.30.14 23.50		1
2,2-Dichloropropane	594-20-7	<0.500	0.500	ug/L	03.30.14 23.50		1
1,1-Dichloropropene	563-58-6	<1.00	1.00	ug/L	03.30.14 23.50		1
cis-1,3-Dichloropropene	10061-01-5	<1.00	1.00	ug/L	03.30.14 23.50		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB69-0200-03114** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-011 Date Collected: 03.25.14 14.05

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
trans-1,3-dichloropropene	10061-02-6	<0.500	0.500	ug/L	03.30.14 23.50		1
Ethylbenzene	100-41-4	<2.00	2.00	ug/L	03.30.14 23.50		1
Hexachlorobutadiene	87-68-3	<5.00	5.00	ug/L	03.30.14 23.50		1
2-Hexanone	591-78-6	<5.00	5.00	ug/L	03.30.14 23.50		1
isopropylbenzene	98-82-8	<2.50	2.50	ug/L	03.30.14 23.50		1
Methylene Chloride	75-09-2	<3.00	3.00	ug/L	03.30.14 23.50		1
Iodomethane (Methyl Iodide)	74-88-4	<2.00	2.00	ug/L	03.30.14 23.50		1
4-Methyl-2-Pentanone	108-10-1	<5.00	5.00	ug/L	03.30.14 23.50		1
Naphthalene	91-20-3	<5.00	5.00	ug/L	03.30.14 23.50		1
n-Propylbenzene	103-65-1	<2.00	2.00	ug/L	03.30.14 23.50		1
Styrene	100-42-5	<1.00	1.00	ug/L	03.30.14 23.50		1
1,1,1,2-Tetrachloroethane	630-20-6	<0.500	0.500	ug/L	03.30.14 23.50		1
1,1,2,2-Tetrachloroethane	79-34-5	<0.500	0.500	ug/L	03.30.14 23.50		1
Tetrachloroethylene	127-18-4	**6.01**	0.500	ug/L	03.30.14 23.50		1
Toluene	108-88-3	<2.00	2.00	ug/L	03.30.14 23.50		1
1,2,3-Trichlorobenzene	87-61-6	<5.00	5.00	ug/L	03.30.14 23.50		1
1,2,4-Trichlorobenzene	120-82-1	<5.00	5.00	ug/L	03.30.14 23.50		1
1,1,1-Trichloroethane	71-55-6	<0.500	0.500	ug/L	03.30.14 23.50		1
1,1,2-Trichloroethane	79-00-5	<0.500	0.500	ug/L	03.30.14 23.50		1
Trichloroethene	79-01-6	<0.500	0.500	ug/L	03.30.14 23.50		1
Trichlorofluoromethane	75-69-4	<2.00	2.00	ug/L	03.30.14 23.50		1
1,2,3-Trichloropropane	96-18-4	<1.00	1.00	ug/L	03.30.14 23.50		1
1,2,4-Trimethylbenzene	95-63-6	<2.00	2.00	ug/L	03.30.14 23.50		1
1,3,5-Trimethylbenzene	108-67-8	<1.50	1.50	ug/L	03.30.14 23.50		1
o-Xylene	95-47-6	<1.00	1.00	ug/L	03.30.14 23.50		1
m,p-Xylenes	179601-23-1	<2.00	2.00	ug/L	03.30.14 23.50		1
Vinyl Acetate	108-05-4	<5.00	5.00	ug/L	03.30.14 23.50		1
Vinyl Chloride	75-01-4	<0.500	0.500	ug/L	03.30.14 23.50		1
Total Xylenes	1330-20-7	<1.00	1.00	ug/L	03.30.14 23.50		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	99	%	69-133	03.30.14 23.50	
1,2-Dichloroethane-D4	17060-07-0	105	%	66-139	03.30.14 23.50	
Toluene-D8	2037-26-5	100	%	70-130	03.30.14 23.50	
4-Bromofluorobenzene	460-00-4	94	%	70-135	03.30.14 23.50	

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB97-0100-22111** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-012 Date Collected: 03.25.14 14.42

Analytical Method: Total Metals by EPA 6010B Prep Method: SW3010A

Tech: MLI % Moisture:

Analyst: MKO Date Prep: 03.29.14 12.00

Seq Number: 938244 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	<0.0100	0.0100	mg/L	04.10.14 13.15		1

Analytical Method: Metals, Dissolved, by EPA 6010B Prep Method: SW3010A

Tech: MLI % Moisture:

Analyst: MKO Date Prep: 03.31.14 10.30

Seq Number: 938235 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	<0.0100	0.0100	mg/L	04.10.14 03.17		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB97-0100-22111** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-012 Date Collected: 03.25.14 14.42

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Acetone	67-64-1	<20.0	20.0	ug/L	03.31.14 01.07		1
Benzene	71-43-2	<0.500	0.500	ug/L	03.31.14 01.07		1
Bromobenzene	108-86-1	<1.50	1.50	ug/L	03.31.14 01.07		1
Bromochloromethane	74-97-5	<0.500	0.500	ug/L	03.31.14 01.07		1
Bromodichloromethane	75-27-4	<0.500	0.500	ug/L	03.31.14 01.07		1
Bromoform	75-25-2	<1.00	1.00	ug/L	03.31.14 01.07		1
Bromomethane	74-83-9	<5.00	5.00	ug/L	03.31.14 01.07		1
2-Butanone	78-93-3	<5.00	5.00	ug/L	03.31.14 01.07		1
MTBE	1634-04-4	<2.00	2.00	ug/L	03.31.14 01.07		1
n-Butylbenzene	104-51-8	<2.50	2.50	ug/L	03.31.14 01.07		1
Sec-Butylbenzene	135-98-8	<1.50	1.50	ug/L	03.31.14 01.07		1
tert-Butylbenzene	98-06-6	<2.50	2.50	ug/L	03.31.14 01.07		1
Carbon Disulfide	75-15-0	<0.500	0.500	ug/L	03.31.14 01.07		1
Carbon Tetrachloride	56-23-5	<0.500	0.500	ug/L	03.31.14 01.07		1
Chlorobenzene	108-90-7	<0.500	0.500	ug/L	03.31.14 01.07		1
Chloroethane	75-00-3	<4.00	4.00	ug/L	03.31.14 01.07		1
Chloroform	67-66-3	**0.810**	0.500	ug/L	03.31.14 01.07		1
Chloromethane	74-87-3	<5.00	5.00	ug/L	03.31.14 01.07		1
2-Chlorotoluene	95-49-8	<1.50	1.50	ug/L	03.31.14 01.07		1
4-Chlorotoluene	106-43-4	<2.00	2.00	ug/L	03.31.14 01.07		1
p-Cymene (p-Isopropyltoluene)	99-87-6	<1.50	1.50	ug/L	03.31.14 01.07		1
Dibromochloromethane	124-48-1	<0.500	0.500	ug/L	03.31.14 01.07		1
1,2-Dibromo-3-Chloropropane	96-12-8	<2.00	2.00	ug/L	03.31.14 01.07		1
1,2-Dibromoethane	106-93-4	<0.500	0.500	ug/L	03.31.14 01.07		1
Dibromomethane	74-95-3	<0.500	0.500	ug/L	03.31.14 01.07		1
1,2-Dichlorobenzene	95-50-1	<1.50	1.50	ug/L	03.31.14 01.07		1
1,3-Dichlorobenzene	541-73-1	<1.50	1.50	ug/L	03.31.14 01.07		1
1,4-Dichlorobenzene	106-46-7	<1.50	1.50	ug/L	03.31.14 01.07		1
Dichlorodifluoromethane	75-71-8	<2.00	2.00	ug/L	03.31.14 01.07		1
1,1-Dichloroethane	75-34-3	<0.500	0.500	ug/L	03.31.14 01.07		1
1,2-Dichloroethane	107-06-2	<0.500	0.500	ug/L	03.31.14 01.07		1
1,1-Dichloroethene	75-35-4	<0.500	0.500	ug/L	03.31.14 01.07		1
cis-1,2-Dichloroethene	156-59-2	<0.500	0.500	ug/L	03.31.14 01.07		1
trans-1,2-dichloroethene	156-60-5	<0.500	0.500	ug/L	03.31.14 01.07		1
1,2-Dichloropropane	78-87-5	<0.500	0.500	ug/L	03.31.14 01.07		1
1,3-Dichloropropane	142-28-9	<1.00	1.00	ug/L	03.31.14 01.07		1
2,2-Dichloropropane	594-20-7	<0.500	0.500	ug/L	03.31.14 01.07		1
1,1-Dichloropropene	563-58-6	<1.00	1.00	ug/L	03.31.14 01.07		1
cis-1,3-Dichloropropene	10061-01-5	<1.00	1.00	ug/L	03.31.14 01.07		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB97-0100-22111** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-012 Date Collected: 03.25.14 14.42

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
trans-1,3-dichloropropene	10061-02-6	<0.500	0.500	ug/L	03.31.14 01.07		1
Ethylbenzene	100-41-4	<2.00	2.00	ug/L	03.31.14 01.07		1
Hexachlorobutadiene	87-68-3	<5.00	5.00	ug/L	03.31.14 01.07		1
2-Hexanone	591-78-6	<5.00	5.00	ug/L	03.31.14 01.07		1
isopropylbenzene	98-82-8	<2.50	2.50	ug/L	03.31.14 01.07		1
Methylene Chloride	75-09-2	<3.00	3.00	ug/L	03.31.14 01.07		1
Iodomethane (Methyl Iodide)	74-88-4	<2.00	2.00	ug/L	03.31.14 01.07		1
4-Methyl-2-Pentanone	108-10-1	<5.00	5.00	ug/L	03.31.14 01.07		1
Naphthalene	91-20-3	<5.00	5.00	ug/L	03.31.14 01.07		1
n-Propylbenzene	103-65-1	<2.00	2.00	ug/L	03.31.14 01.07		1
Styrene	100-42-5	<1.00	1.00	ug/L	03.31.14 01.07		1
1,1,1,2-Tetrachloroethane	630-20-6	<0.500	0.500	ug/L	03.31.14 01.07		1
1,1,2,2-Tetrachloroethane	79-34-5	<0.500	0.500	ug/L	03.31.14 01.07		1
Tetrachloroethylene	127-18-4	**0.720**	0.500	ug/L	03.31.14 01.07		1
Toluene	108-88-3	<2.00	2.00	ug/L	03.31.14 01.07		1
1,2,3-Trichlorobenzene	87-61-6	<5.00	5.00	ug/L	03.31.14 01.07		1
1,2,4-Trichlorobenzene	120-82-1	<5.00	5.00	ug/L	03.31.14 01.07		1
1,1,1-Trichloroethane	71-55-6	<0.500	0.500	ug/L	03.31.14 01.07		1
1,1,2-Trichloroethane	79-00-5	<0.500	0.500	ug/L	03.31.14 01.07		1
Trichloroethene	79-01-6	<0.500	0.500	ug/L	03.31.14 01.07		1
Trichlorofluoromethane	75-69-4	<2.00	2.00	ug/L	03.31.14 01.07		1
1,2,3-Trichloropropane	96-18-4	<1.00	1.00	ug/L	03.31.14 01.07		1
1,2,4-Trimethylbenzene	95-63-6	<2.00	2.00	ug/L	03.31.14 01.07		1
1,3,5-Trimethylbenzene	108-67-8	<1.50	1.50	ug/L	03.31.14 01.07		1
o-Xylene	95-47-6	<1.00	1.00	ug/L	03.31.14 01.07		1
m,p-Xylenes	179601-23-1	<2.00	2.00	ug/L	03.31.14 01.07		1
Vinyl Acetate	108-05-4	<5.00	5.00	ug/L	03.31.14 01.07		1
Vinyl Chloride	75-01-4	<0.500	0.500	ug/L	03.31.14 01.07		1
Total Xylenes	1330-20-7	<1.00	1.00	ug/L	03.31.14 01.07		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	97	%	69-133	03.31.14 01.07	
1,2-Dichloroethane-D4	17060-07-0	98	%	66-139	03.31.14 01.07	
Toluene-D8	2037-26-5	99	%	70-130	03.31.14 01.07	
4-Bromofluorobenzene	460-00-4	94	%	70-135	03.31.14 01.07	

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB97-0104-1000** Matrix: Water Date Received:03.25.14 15.45
Lab Sample Id: 481853-013 Date Collected: 03.25.14 15.00

Analytical Method: Total Metals by EPA 6010B Prep Method: SW3010A
Tech: MLI % Moisture:
Analyst: MKO Date Prep: 03.29.14 12.00
Seq Number: 938244 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	<0.0100	0.0100	mg/L	04.10.14 13.21		1

Analytical Method: Metals, Dissolved, by EPA 6010B Prep Method: SW3010A
Tech: MLI % Moisture:
Analyst: MKO Date Prep: 03.31.14 10.30
Seq Number: 938235 SUB: AZ0765

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chromium	7440-47-3	<0.0100	0.0100	mg/L	04.10.14 03.23		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB97-0104-1000** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-013 Date Collected: 03.25.14 15.00

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Acetone	67-64-1	<20.0	20.0	ug/L	03.31.14 01.33		1
Benzene	71-43-2	<0.500	0.500	ug/L	03.31.14 01.33		1
Bromobenzene	108-86-1	<1.50	1.50	ug/L	03.31.14 01.33		1
Bromochloromethane	74-97-5	<0.500	0.500	ug/L	03.31.14 01.33		1
Bromodichloromethane	75-27-4	<0.500	0.500	ug/L	03.31.14 01.33		1
Bromoform	75-25-2	<1.00	1.00	ug/L	03.31.14 01.33		1
Bromomethane	74-83-9	<5.00	5.00	ug/L	03.31.14 01.33		1
2-Butanone	78-93-3	<5.00	5.00	ug/L	03.31.14 01.33		1
MTBE	1634-04-4	<2.00	2.00	ug/L	03.31.14 01.33		1
n-Butylbenzene	104-51-8	<2.50	2.50	ug/L	03.31.14 01.33		1
Sec-Butylbenzene	135-98-8	<1.50	1.50	ug/L	03.31.14 01.33		1
tert-Butylbenzene	98-06-6	<2.50	2.50	ug/L	03.31.14 01.33		1
Carbon Disulfide	75-15-0	<0.500	0.500	ug/L	03.31.14 01.33		1
Carbon Tetrachloride	56-23-5	<0.500	0.500	ug/L	03.31.14 01.33		1
Chlorobenzene	108-90-7	<0.500	0.500	ug/L	03.31.14 01.33		1
Chloroethane	75-00-3	<4.00	4.00	ug/L	03.31.14 01.33		1
Chloroform	67-66-3	<0.500	0.500	ug/L	03.31.14 01.33		1
Chloromethane	74-87-3	<5.00	5.00	ug/L	03.31.14 01.33		1
2-Chlorotoluene	95-49-8	<1.50	1.50	ug/L	03.31.14 01.33		1
4-Chlorotoluene	106-43-4	<2.00	2.00	ug/L	03.31.14 01.33		1
p-Cymene (p-Isopropyltoluene)	99-87-6	<1.50	1.50	ug/L	03.31.14 01.33		1
Dibromochloromethane	124-48-1	<0.500	0.500	ug/L	03.31.14 01.33		1
1,2-Dibromo-3-Chloropropane	96-12-8	<2.00	2.00	ug/L	03.31.14 01.33		1
1,2-Dibromoethane	106-93-4	<0.500	0.500	ug/L	03.31.14 01.33		1
Dibromomethane	74-95-3	<0.500	0.500	ug/L	03.31.14 01.33		1
1,2-Dichlorobenzene	95-50-1	<1.50	1.50	ug/L	03.31.14 01.33		1
1,3-Dichlorobenzene	541-73-1	<1.50	1.50	ug/L	03.31.14 01.33		1
1,4-Dichlorobenzene	106-46-7	<1.50	1.50	ug/L	03.31.14 01.33		1
Dichlorodifluoromethane	75-71-8	<2.00	2.00	ug/L	03.31.14 01.33		1
1,1-Dichloroethane	75-34-3	<0.500	0.500	ug/L	03.31.14 01.33		1
1,2-Dichloroethane	107-06-2	<0.500	0.500	ug/L	03.31.14 01.33		1
1,1-Dichloroethene	75-35-4	<0.500	0.500	ug/L	03.31.14 01.33		1
cis-1,2-Dichloroethene	156-59-2	<0.500	0.500	ug/L	03.31.14 01.33		1
trans-1,2-dichloroethene	156-60-5	<0.500	0.500	ug/L	03.31.14 01.33		1
1,2-Dichloropropane	78-87-5	<0.500	0.500	ug/L	03.31.14 01.33		1
1,3-Dichloropropane	142-28-9	<1.00	1.00	ug/L	03.31.14 01.33		1
2,2-Dichloropropane	594-20-7	<0.500	0.500	ug/L	03.31.14 01.33		1
1,1-Dichloropropene	563-58-6	<1.00	1.00	ug/L	03.31.14 01.33		1
cis-1,3-Dichloropropene	10061-01-5	<1.00	1.00	ug/L	03.31.14 01.33		1

Certificate of Analytical Results 481853

Terranext, Phoenix, AZ

WVBA

Sample Id: **AVB97-0104-1000** Matrix: Water Date Received:03.25.14 15.45

Lab Sample Id: 481853-013 Date Collected: 03.25.14 15.00

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C

Tech: OEM % Moisture:

Analyst: OEM Date Prep: 03.30.14 17.42

Seq Number: 937451

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
trans-1,3-dichloropropene	10061-02-6	<0.500	0.500	ug/L	03.31.14 01.33		1
Ethylbenzene	100-41-4	<2.00	2.00	ug/L	03.31.14 01.33		1
Hexachlorobutadiene	87-68-3	<5.00	5.00	ug/L	03.31.14 01.33		1
2-Hexanone	591-78-6	<5.00	5.00	ug/L	03.31.14 01.33		1
isopropylbenzene	98-82-8	<2.50	2.50	ug/L	03.31.14 01.33		1
Methylene Chloride	75-09-2	<3.00	3.00	ug/L	03.31.14 01.33		1
Iodomethane (Methyl Iodide)	74-88-4	<2.00	2.00	ug/L	03.31.14 01.33		1
4-Methyl-2-Pentanone	108-10-1	<5.00	5.00	ug/L	03.31.14 01.33		1
Naphthalene	91-20-3	<5.00	5.00	ug/L	03.31.14 01.33		1
n-Propylbenzene	103-65-1	<2.00	2.00	ug/L	03.31.14 01.33		1
Styrene	100-42-5	<1.00	1.00	ug/L	03.31.14 01.33		1
1,1,1,2-Tetrachloroethane	630-20-6	<0.500	0.500	ug/L	03.31.14 01.33		1
1,1,2,2-Tetrachloroethane	79-34-5	<0.500	0.500	ug/L	03.31.14 01.33		1
Tetrachloroethylene	127-18-4	<0.500	0.500	ug/L	03.31.14 01.33		1
Toluene	108-88-3	<2.00	2.00	ug/L	03.31.14 01.33		1
1,2,3-Trichlorobenzene	87-61-6	<5.00	5.00	ug/L	03.31.14 01.33		1
1,2,4-Trichlorobenzene	120-82-1	<5.00	5.00	ug/L	03.31.14 01.33		1
1,1,1-Trichloroethane	71-55-6	<0.500	0.500	ug/L	03.31.14 01.33		1
1,1,2-Trichloroethane	79-00-5	<0.500	0.500	ug/L	03.31.14 01.33		1
Trichloroethene	79-01-6	<0.500	0.500	ug/L	03.31.14 01.33		1
Trichlorofluoromethane	75-69-4	<2.00	2.00	ug/L	03.31.14 01.33		1
1,2,3-Trichloropropane	96-18-4	<1.00	1.00	ug/L	03.31.14 01.33		1
1,2,4-Trimethylbenzene	95-63-6	<2.00	2.00	ug/L	03.31.14 01.33		1
1,3,5-Trimethylbenzene	108-67-8	<1.50	1.50	ug/L	03.31.14 01.33		1
o-Xylene	95-47-6	<1.00	1.00	ug/L	03.31.14 01.33		1
m,p-Xylenes	179601-23-1	<2.00	2.00	ug/L	03.31.14 01.33		1
Vinyl Acetate	108-05-4	<5.00	5.00	ug/L	03.31.14 01.33		1
Vinyl Chloride	75-01-4	<0.500	0.500	ug/L	03.31.14 01.33		1
Total Xylenes	1330-20-7	<1.00	1.00	ug/L	03.31.14 01.33		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	94	%	69-133	03.31.14 01.33	
1,2-Dichloroethane-D4	17060-07-0	98	%	66-139	03.31.14 01.33	
Toluene-D8	2037-26-5	94	%	70-130	03.31.14 01.33	
4-Bromofluorobenzene	460-00-4	93	%	70-135	03.31.14 01.33	

QC Summary 481853

Terranext
WVBA

Analytical Method: **Total Metals by EPA 6010B** Prep Method: SW3010A
Seq Number: 938244 Matrix: Water Date Prep: 03.29.14
MB Sample Id: 653162-1-BLK LCS Sample Id: 653162-1-BKS LCSD Sample Id: 653162-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	<0.0100	1.00	1.06	106	1.06	106	80-120	0	20	mg/L	04.10.14 10:29	

Analytical Method: **Total Metals by EPA 6010B** Prep Method: SW3010A
Seq Number: 938244 Matrix: Water Date Prep: 03.29.14
Parent Sample Id: 481938-001 MS Sample Id: 481938-001 S MSD Sample Id: 481938-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	<0.0100	1.00	1.06	106	1.04	104	75-125	2	20	mg/L	04.10.14 10:49	

Analytical Method: **Metals, Dissolved, by EPA 6010B** Prep Method: SW3010A
Seq Number: 938235 Matrix: Water Date Prep: 03.31.14
MB Sample Id: 653233-1-BLK LCS Sample Id: 653233-1-BKS LCSD Sample Id: 653233-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	<0.0100	1.00	1.07	107	1.08	108	80-120	1	20	mg/L	04.10.14 00:18	

Analytical Method: **Metals, Dissolved, by EPA 6010B** Prep Method: SW3010A
Seq Number: 938235 Matrix: Water Date Prep: 03.31.14
Parent Sample Id: 481683-002 MS Sample Id: 481683-002 S MSD Sample Id: 481683-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chromium	0.0295	1.00	1.08	105	1.14	111	75-125	5	20	mg/L	04.10.14 00:38	

Analytical Method: **Total Cyanide by EPA 335.4** Prep Method: E335.4P
Seq Number: 937504 Matrix: Water Date Prep: 04.01.14
MB Sample Id: 653293-1-BLK LCS Sample Id: 653293-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Cyanide, Total	<0.0100	0.200	0.196	98	90-110	mg/L	04.01.14 11:54	

Analytical Method: **Total Cyanide by EPA 335.4** Prep Method: E335.4P
Seq Number: 937504 Matrix: Waste Water Date Prep: 04.01.14
Parent Sample Id: 481675-001 MS Sample Id: 481675-001 S MSD Sample Id: 481675-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Cyanide, Total	<0.0100	0.200	0.199	100	0.194	97	85-115	3	20	mg/L	04.01.14 11:58	

QC Summary 481853

Terranext

WVBA

Analytical Method:	**Total Cyanide by EPA 335.4**			Prep Method:	E335.4P
Seq Number:	937504	Matrix:	Surface Water	Date Prep:	04.01.14
Parent Sample Id:	481918-015	MS Sample Id:	481918-015 S	MSD Sample Id:	481918-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Cyanide, Total	<0.0100	0.200	0.196	98	0.201	101	85-115	3	20	mg/L	04.01.14 12:19	

QC Summary 481853

Terranext
WVBA

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C
Seq Number: 937377 Matrix: Water Date Prep: 03.29.14
MB Sample Id: 653207-1-BLK LCS Sample Id: 653207-1-BKS LCSD Sample Id: 653207-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acetone	<20.0	40.0	98.6	247	64.6	162	55-165	42	28	ug/L	03.28.14 20:08	L1R2
Benzene	<0.500	20.0	19.1	96	19.4	97	70-130	2	20	ug/L	03.28.14 20:08	
Bromobenzene	<1.50	20.0	18.3	92	18.3	92	70-130	0	20	ug/L	03.28.14 20:08	
Bromochloromethane	<0.500	20.0	19.1	96	19.0	95	67-125	1	24	ug/L	03.28.14 20:08	
Bromodichloromethane	<0.500	20.0	19.9	100	19.9	100	70-130	0	20	ug/L	03.28.14 20:08	
Bromoform	<1.00	20.0	16.7	84	17.0	85	69-130	2	20	ug/L	03.28.14 20:08	
Bromomethane	<5.00	20.0	15.7	79	12.9	65	58-138	20	25	ug/L	03.28.14 20:08	
2-Butanone	<5.00	40.0	69.8	175	55.0	138	58-146	24	27	ug/L	03.28.14 20:08	N1
MTBE	<2.00	20.0	21.6	108	21.7	109	70-130	0	21	ug/L	03.28.14 20:08	
n-Butylbenzene	<2.50	20.0	19.7	99	20.1	101	58-128	2	20	ug/L	03.28.14 20:08	
Sec-Butylbenzene	<1.50	20.0	19.0	95	19.2	96	61-133	1	20	ug/L	03.28.14 20:08	
tert-Butylbenzene	<2.50	20.0	18.5	93	18.9	95	65-128	2	20	ug/L	03.28.14 20:08	
Carbon Disulfide	<0.500	20.0	21.8	109	22.3	112	59-138	2	22	ug/L	03.28.14 20:08	
Carbon Tetrachloride	<0.500	20.0	17.6	88	18.2	91	57-140	3	21	ug/L	03.28.14 20:08	
Chlorobenzene	<0.500	20.0	18.5	93	18.3	92	70-130	1	20	ug/L	03.28.14 20:08	
Chloroethane	<4.00	20.0	18.4	92	16.6	83	60-146	10	24	ug/L	03.28.14 20:08	
Chloroform	<0.500	20.0	20.4	102	20.6	103	66-128	1	24	ug/L	03.28.14 20:08	
Chloromethane	<5.00	20.0	28.0	140	29.6	148	47-144	6	26	ug/L	03.28.14 20:08	N1
2-Chlorotoluene	<1.50	20.0	19.8	99	20.2	101	70-130	2	20	ug/L	03.28.14 20:08	
4-Chlorotoluene	<2.00	20.0	19.8	99	19.8	99	70-130	0	28	ug/L	03.28.14 20:08	
p-Cymene (p-Isopropyltoluene)	<1.50	20.0	19.0	95	19.2	96	67-135	1	20	ug/L	03.28.14 20:08	
Dibromochloromethane	<0.500	20.0	18.2	91	18.4	92	70-130	1	20	ug/L	03.28.14 20:08	
1,2-Dibromo-3-Chloropropane	<2.00	20.0	16.9	85	18.2	91	60-128	7	21	ug/L	03.28.14 20:08	
1,2-Dibromoethane	<0.500	20.0	17.2	86	17.2	86	70-130	0	20	ug/L	03.28.14 20:08	
Dibromomethane	<0.500	20.0	19.4	97	19.0	95	70-130	2	23	ug/L	03.28.14 20:08	
1,2-Dichlorobenzene	<1.50	20.0	18.5	93	18.7	94	70-130	1	20	ug/L	03.28.14 20:08	
1,3-Dichlorobenzene	<1.50	20.0	18.6	93	19.1	96	70-130	3	20	ug/L	03.28.14 20:08	
1,4-Dichlorobenzene	<1.50	20.0	18.6	93	18.5	93	70-130	1	20	ug/L	03.28.14 20:08	
Dichlorodifluoromethane	<2.00	20.0	23.0	115	22.2	111	9-134	4	27	ug/L	03.28.14 20:08	
1,1-Dichloroethane	<0.500	20.0	22.4	112	22.3	112	66-132	0	20	ug/L	03.28.14 20:08	
1,2-Dichloroethane	<0.500	20.0	20.8	104	21.0	105	70-130	1	20	ug/L	03.28.14 20:08	
1,1-Dichloroethene	<0.500	20.0	22.6	113	23.0	115	58-144	2	21	ug/L	03.28.14 20:08	
cis-1,2-Dichloroethene	<0.500	20.0	19.7	99	19.6	98	67-129	1	24	ug/L	03.28.14 20:08	
trans-1,2-dichloroethene	<0.500	20.0	22.5	113	23.1	116	63-137	3	21	ug/L	03.28.14 20:08	
1,2-Dichloropropane	<0.500	20.0	22.2	111	22.2	111	70-130	0	20	ug/L	03.28.14 20:08	
1,3-Dichloropropane	<1.00	20.0	20.6	103	20.6	103	70-130	0	20	ug/L	03.28.14 20:08	
2,2-Dichloropropane	<0.500	20.0	20.8	104	20.9	105	60-141	0	24	ug/L	03.28.14 20:08	
1,1-Dichloropropene	<1.00	20.0	20.2	101	20.8	104	64-135	3	20	ug/L	03.28.14 20:08	
cis-1,3-Dichloropropene	<1.00	20.0	19.7	99	20.0	100	70-130	2	20	ug/L	03.28.14 20:08	
trans-1,3-dichloropropene	<0.500	20.0	20.6	103	20.4	102	70-130	1	20	ug/L	03.28.14 20:08	
Ethylbenzene	<2.00	20.0	18.6	93	18.5	93	70-130	1	20	ug/L	03.28.14 20:08	
Hexachlorobutadiene	<5.00	20.0	18.6	93	19.5	98	54-145	5	22	ug/L	03.28.14 20:08	
2-Hexanone	<5.00	40.0	54.5	136	48.2	121	65-129	12	20	ug/L	03.28.14 20:08	N1
isopropylbenzene	<2.50	20.0	18.7	94	18.7	94	70-130	0	20	ug/L	03.28.14 20:08	
Methylene Chloride	<3.00	20.0	20.4	102	20.5	103	61-127	0	20	ug/L	03.28.14 20:08	
Iodomethane (Methyl Iodide)	<2.00	20.0	18.8	94	20.1	101	68-128	7	22	ug/L	03.28.14 20:08	
4-Methyl-2-Pentanone	<5.00	40.0	45.5	114	44.7	112	67-131	2	21	ug/L	03.28.14 20:08	
Naphthalene	<5.00	20.0	17.3	87	19.2	96	64-133	10	27	ug/L	03.28.14 20:08	
n-Propylbenzene	<2.00	20.0	19.4	97	19.5	98	65-128	1	20	ug/L	03.28.14 20:08	
Styrene	<1.00	20.0	17.7	89	17.5	88	70-130	1	20	ug/L	03.28.14 20:08	
1,1,1,2-Tetrachloroethane	<0.500	20.0	18.7	94	18.8	94	70-130	1	20	ug/L	03.28.14 20:08	
1,1,2,2-Tetrachloroethane	<0.500	20.0	19.3	97	20.1	101	70-130	4	20	ug/L	03.28.14 20:08	

QC Summary 481853

Terranext

WVBA

Analytical Method: **VOCs by EPA 8260B** Prep Method: SW5030C

Seq Number: 937377 Matrix: Water Date Prep: 03.29.14

MB Sample Id: 653207-1-BLK LCS Sample Id: 653207-1-BKS LCSD Sample Id: 653207-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Tetrachloroethylene	<0.500	20.0	17.3	87	17.2	86	63-127	1	20	ug/L	03.28.14 20:08	
Toluene	<2.00	20.0	17.5	88	17.8	89	70-130	2	20	ug/L	03.28.14 20:08	
1,2,3-Trichlorobenzene	<5.00	20.0	17.3	87	18.7	94	66-131	8	27	ug/L	03.28.14 20:08	
1,2,4-Trichlorobenzene	<5.00	20.0	17.4	87	18.4	92	69-127	6	20	ug/L	03.28.14 20:08	
1,1,1-Trichloroethane	<0.500	20.0	19.7	99	19.8	99	62-133	1	20	ug/L	03.28.14 20:08	
1,1,2-Trichloroethane	<0.500	20.0	19.7	99	20.1	101	70-130	2	20	ug/L	03.28.14 20:08	
Trichloroethene	<0.500	20.0	18.5	93	18.8	94	70-130	2	20	ug/L	03.28.14 20:08	
Trichlorofluoromethane	<2.00	20.0	20.8	104	20.7	104	45-151	0	22	ug/L	03.28.14 20:08	
1,2,3-Trichloropropane	<1.00	20.0	18.8	94	19.6	98	70-130	4	20	ug/L	03.28.14 20:08	
1,2,4-Trimethylbenzene	<2.00	20.0	18.6	93	18.8	94	70-130	1	20	ug/L	03.28.14 20:08	
1,3,5-Trimethylbenzene	<1.50	20.0	18.7	94	18.8	94	70-130	1	20	ug/L	03.28.14 20:08	
o-Xylene	<1.00	20.0	17.0	85	16.9	85	70-130	1	20	ug/L	03.28.14 20:08	
m,p-Xylenes	<2.00	40.0	34.3	86	34.6	87	70-130	1	20	ug/L	03.28.14 20:08	
Vinyl Acetate	<5.00	20.0	27.3	137	27.4	137	52-142	0	22	ug/L	03.28.14 20:08	
Vinyl Chloride	<0.500	20.0	21.2	106	23.4	117	43-120	10	25	ug/L	03.28.14 20:08	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	101		103		103		69-133	%	03.28.14 20:08
1,2-Dichloroethane-D4	98		100		100		66-139	%	03.28.14 20:08
Toluene-D8	99		99		99		70-130	%	03.28.14 20:08
4-Bromofluorobenzene	92		98		96		70-135	%	03.28.14 20:08

QC Summary 481853

Terranext
WVBA

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C
Seq Number: 937451 Matrix: Water Date Prep: 03.30.14
MB Sample Id: 653208-1-BLK LCS Sample Id: 653208-1-BKS LCSD Sample Id: 653208-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acetone	<20.0	40.0	39.7	99	40.0	100	55-165	1	28	ug/L	03.30.14 19:06	
Benzene	<0.500	20.0	19.7	99	19.7	99	70-130	0	20	ug/L	03.30.14 19:06	
Bromobenzene	<1.50	20.0	18.8	94	18.7	94	70-130	1	20	ug/L	03.30.14 19:06	
Bromochloromethane	<0.500	20.0	19.0	95	19.9	100	67-125	5	24	ug/L	03.30.14 19:06	
Bromodichloromethane	<0.500	20.0	20.2	101	20.2	101	70-130	0	20	ug/L	03.30.14 19:06	
Bromoform	<1.00	20.0	19.3	97	19.4	97	69-130	1	20	ug/L	03.30.14 19:06	
Bromomethane	<5.00	20.0	23.5	118	19.0	95	58-138	21	25	ug/L	03.30.14 19:06	
2-Butanone	<5.00	40.0	38.7	97	39.8	100	58-146	3	27	ug/L	03.30.14 19:06	
MTBE	<2.00	20.0	20.1	101	20.8	104	70-130	3	21	ug/L	03.30.14 19:06	
n-Butylbenzene	<2.50	20.0	19.1	96	19.8	99	58-128	4	20	ug/L	03.30.14 19:06	
Sec-Butylbenzene	<1.50	20.0	19.0	95	19.3	97	61-133	2	20	ug/L	03.30.14 19:06	
tert-Butylbenzene	<2.50	20.0	18.8	94	18.7	94	65-128	1	20	ug/L	03.30.14 19:06	
Carbon Disulfide	<0.500	20.0	20.0	100	20.3	102	59-138	1	22	ug/L	03.30.14 19:06	
Carbon Tetrachloride	<0.500	20.0	20.2	101	20.1	101	57-140	0	21	ug/L	03.30.14 19:06	
Chlorobenzene	<0.500	20.0	19.4	97	19.4	97	70-130	0	20	ug/L	03.30.14 19:06	
Chloroethane	<4.00	20.0	21.8	109	21.0	105	60-146	4	24	ug/L	03.30.14 19:06	
Chloroform	<0.500	20.0	19.5	98	19.7	99	66-128	1	24	ug/L	03.30.14 19:06	
Chloromethane	<5.00	20.0	19.1	96	19.2	96	47-144	1	26	ug/L	03.30.14 19:06	
2-Chlorotoluene	<1.50	20.0	19.4	97	19.1	96	70-130	2	20	ug/L	03.30.14 19:06	
4-Chlorotoluene	<2.00	20.0	19.3	97	19.0	95	70-130	2	28	ug/L	03.30.14 19:06	
p-Cymene (p-Isopropyltoluene)	<1.50	20.0	19.2	96	19.5	98	67-135	2	20	ug/L	03.30.14 19:06	
Dibromochloromethane	<0.500	20.0	19.8	99	20.1	101	70-130	2	20	ug/L	03.30.14 19:06	
1,2-Dibromo-3-Chloropropane	<2.00	20.0	18.3	92	18.8	94	60-128	3	21	ug/L	03.30.14 19:06	
1,2-Dibromoethane	<0.500	20.0	19.8	99	19.8	99	70-130	0	20	ug/L	03.30.14 19:06	
Dibromomethane	<0.500	20.0	19.6	98	19.5	98	70-130	1	23	ug/L	03.30.14 19:06	
1,2-Dichlorobenzene	<1.50	20.0	19.8	99	20.0	100	70-130	1	20	ug/L	03.30.14 19:06	
1,3-Dichlorobenzene	<1.50	20.0	19.6	98	19.8	99	70-130	1	20	ug/L	03.30.14 19:06	
1,4-Dichlorobenzene	<1.50	20.0	20.4	102	20.6	103	70-130	1	20	ug/L	03.30.14 19:06	
Dichlorodifluoromethane	<2.00	20.0	19.6	98	19.8	99	9-134	1	27	ug/L	03.30.14 19:06	
1,1-Dichloroethane	<0.500	20.0	19.6	98	19.8	99	66-132	1	20	ug/L	03.30.14 19:06	
1,2-Dichloroethane	<0.500	20.0	19.8	99	19.9	100	70-130	1	20	ug/L	03.30.14 19:06	
1,1-Dichloroethene	<0.500	20.0	19.8	99	20.4	102	58-144	3	21	ug/L	03.30.14 19:06	
cis-1,2-Dichloroethene	<0.500	20.0	19.8	99	20.4	102	67-129	3	24	ug/L	03.30.14 19:06	
trans-1,2-dichloroethene	<0.500	20.0	19.9	100	20.4	102	63-137	2	21	ug/L	03.30.14 19:06	
1,2-Dichloropropane	<0.500	20.0	19.7	99	19.3	97	70-130	2	20	ug/L	03.30.14 19:06	
1,3-Dichloropropane	<1.00	20.0	19.7	99	20.1	101	70-130	2	20	ug/L	03.30.14 19:06	
2,2-Dichloropropane	<0.500	20.0	19.5	98	20.1	101	60-141	3	24	ug/L	03.30.14 19:06	
1,1-Dichloropropene	<1.00	20.0	20.4	102	20.2	101	64-135	1	20	ug/L	03.30.14 19:06	
cis-1,3-Dichloropropene	<1.00	20.0	21.2	106	19.8	99	70-130	7	20	ug/L	03.30.14 19:06	
trans-1,3-dichloropropene	<0.500	20.0	19.7	99	19.9	100	70-130	1	20	ug/L	03.30.14 19:06	
Ethylbenzene	<2.00	20.0	20.3	102	20.7	104	70-130	2	20	ug/L	03.30.14 19:06	
Hexachlorobutadiene	<5.00	20.0	17.3	87	20.0	100	54-145	14	22	ug/L	03.30.14 19:06	
2-Hexanone	<5.00	40.0	39.1	98	39.9	100	65-129	2	20	ug/L	03.30.14 19:06	
isopropylbenzene	<2.50	20.0	19.6	98	20.1	101	70-130	3	20	ug/L	03.30.14 19:06	
Methylene Chloride	<3.00	20.0	19.0	95	19.5	98	61-127	3	20	ug/L	03.30.14 19:06	
Iodomethane (Methyl Iodide)	<2.00	20.0	18.8	94	20.0	100	68-128	6	22	ug/L	03.30.14 19:06	
4-Methyl-2-Pentanone	<5.00	40.0	39.9	100	39.9	100	67-131	0	21	ug/L	03.30.14 19:06	
Naphthalene	<5.00	20.0	17.9	90	20.4	102	64-133	13	27	ug/L	03.30.14 19:06	
n-Propylbenzene	<2.00	20.0	19.6	98	19.6	98	65-128	0	20	ug/L	03.30.14 19:06	
Styrene	<1.00	20.0	19.7	99	20.1	101	70-130	2	20	ug/L	03.30.14 19:06	
1,1,1,2-Tetrachloroethane	<0.500	20.0	19.6	98	19.5	98	70-130	1	20	ug/L	03.30.14 19:06	
1,1,2,2-Tetrachloroethane	<0.500	20.0	19.9	100	20.3	102	70-130	2	20	ug/L	03.30.14 19:06	

QC Summary 481853

Terranext
WVBA

Analytical Method: **VOCs by EPA 8260B** Prep Method: SW5030C
Seq Number: 937451 Matrix: Water Date Prep: 03.30.14
MB Sample Id: 653208-1-BLK LCS Sample Id: 653208-1-BKS LCSD Sample Id: 653208-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Tetrachloroethylene	<0.500	20.0	20.0	100	20.2	101	63-127	1	20	ug/L	03.30.14 19:06	
Toluene	<2.00	20.0	19.8	99	20.0	100	70-130	1	20	ug/L	03.30.14 19:06	
1,2,3-Trichlorobenzene	<5.00	20.0	16.4	82	19.1	96	66-131	15	27	ug/L	03.30.14 19:06	
1,2,4-Trichlorobenzene	<5.00	20.0	18.3	92	19.9	100	69-127	8	20	ug/L	03.30.14 19:06	
1,1,1-Trichloroethane	<0.500	20.0	19.9	100	20.6	103	62-133	3	20	ug/L	03.30.14 19:06	
1,1,2-Trichloroethane	<0.500	20.0	18.8	94	19.0	95	70-130	1	20	ug/L	03.30.14 19:06	
Trichloroethene	<0.500	20.0	19.9	100	19.6	98	70-130	2	20	ug/L	03.30.14 19:06	
Trichlorofluoromethane	<2.00	20.0	20.0	100	20.3	102	45-151	1	22	ug/L	03.30.14 19:06	
1,2,3-Trichloropropane	<1.00	20.0	20.1	101	19.7	99	70-130	2	20	ug/L	03.30.14 19:06	
1,2,4-Trimethylbenzene	<2.00	20.0	19.2	96	19.1	96	70-130	1	20	ug/L	03.30.14 19:06	
1,3,5-Trimethylbenzene	<1.50	20.0	19.5	98	19.4	97	70-130	1	20	ug/L	03.30.14 19:06	
o-Xylene	<1.00	20.0	19.6	98	19.8	99	70-130	1	20	ug/L	03.30.14 19:06	
m,p-Xylenes	<2.00	40.0	39.4	99	40.2	101	70-130	2	20	ug/L	03.30.14 19:06	
Vinyl Acetate	<5.00	20.0	20.8	104	21.5	108	52-142	3	22	ug/L	03.30.14 19:06	
Vinyl Chloride	<0.500	20.0	19.5	98	19.5	98	43-120	0	25	ug/L	03.30.14 19:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	97		96		98		69-133	%	03.30.14 19:06
1,2-Dichloroethane-D4	94		98		97		66-139	%	03.30.14 19:06
Toluene-D8	97		96		98		70-130	%	03.30.14 19:06
4-Bromofluorobenzene	92		99		99		70-135	%	03.30.14 19:06

QC Summary 481853

Terranext
WVBA

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C
Seq Number: 937377 Matrix: Ground Water Date Prep: 03.29.14
Parent Sample Id: 481685-004 MS Sample Id: 481685-004 S MSD Sample Id: 481685-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acetone	<20.0	40.0	63.4	159	62.3	156	35-160	2	20	ug/L	03.29.14 02:11	
Benzene	<0.500	20.0	19.6	98	20.0	100	69-130	2	20	ug/L	03.29.14 02:11	
Bromobenzene	<1.50	20.0	18.7	94	19.0	95	70-130	2	20	ug/L	03.29.14 02:11	
Bromochloromethane	<0.500	20.0	20.5	103	20.7	104	63-119	1	22	ug/L	03.29.14 02:11	
Bromodichloromethane	<0.500	20.0	21.0	105	20.8	104	70-130	1	20	ug/L	03.29.14 02:11	
Bromoform	<1.00	20.0	17.8	89	17.4	87	57-121	2	20	ug/L	03.29.14 02:11	
Bromomethane	<5.00	20.0	11.7	59	12.8	64	53-141	9	22	ug/L	03.29.14 02:11	
2-Butanone	<5.00	40.0	59.3	148	61.5	154	46-136	4	22	ug/L	03.29.14 02:11	N1
MTBE	<2.00	20.0	23.5	118	24.6	123	65-127	5	20	ug/L	03.29.14 02:11	
n-Butylbenzene	<2.50	20.0	19.6	98	19.8	99	65-127	1	20	ug/L	03.29.14 02:11	
Sec-Butylbenzene	<1.50	20.0	19.3	97	19.6	98	70-130	2	20	ug/L	03.29.14 02:11	
tert-Butylbenzene	<2.50	20.0	18.7	94	18.9	95	70-130	1	20	ug/L	03.29.14 02:11	
Carbon Disulfide	<0.500	20.0	22.0	110	22.5	113	58-145	2	28	ug/L	03.29.14 02:11	
Carbon Tetrachloride	<0.500	20.0	17.8	89	17.9	90	60-152	1	20	ug/L	03.29.14 02:11	
Chlorobenzene	<0.500	20.0	18.8	94	18.5	93	70-130	2	20	ug/L	03.29.14 02:11	
Chloroethane	<4.00	20.0	16.7	84	16.7	84	59-153	0	20	ug/L	03.29.14 02:11	
Chloroform	<0.500	20.0	21.4	107	21.7	109	65-123	1	22	ug/L	03.29.14 02:11	
Chloromethane	<5.00	20.0	29.6	148	30.5	153	47-148	3	22	ug/L	03.29.14 02:11	N1
2-Chlorotoluene	<1.50	20.0	20.2	101	20.4	102	70-130	1	20	ug/L	03.29.14 02:11	
4-Chlorotoluene	<2.00	20.0	19.9	100	20.1	101	70-130	1	20	ug/L	03.29.14 02:11	
p-Cymene (p-Isopropyltoluene)	<1.50	20.0	18.9	95	19.3	97	70-130	2	20	ug/L	03.29.14 02:11	
Dibromochloromethane	<0.500	20.0	19.2	96	19.1	96	70-130	1	20	ug/L	03.29.14 02:11	
1,2-Dibromo-3-Chloropropane	<2.00	20.0	19.3	97	19.6	98	50-117	2	22	ug/L	03.29.14 02:11	
1,2-Dibromoethane	<0.500	20.0	18.4	92	18.4	92	67-117	0	20	ug/L	03.29.14 02:11	
Dibromomethane	<0.500	20.0	20.6	103	20.8	104	66-115	1	20	ug/L	03.29.14 02:11	
1,2-Dichlorobenzene	<1.50	20.0	19.0	95	19.5	98	70-130	3	20	ug/L	03.29.14 02:11	
1,3-Dichlorobenzene	<1.50	20.0	19.1	96	19.7	99	70-130	3	20	ug/L	03.29.14 02:11	
1,4-Dichlorobenzene	<1.50	20.0	18.8	94	18.9	95	70-130	1	20	ug/L	03.29.14 02:11	
Dichlorodifluoromethane	<2.00	20.0	22.7	114	22.7	114	16-151	0	33	ug/L	03.29.14 02:11	
1,1-Dichloroethane	<0.500	20.0	23.3	117	23.6	118	66-129	1	20	ug/L	03.29.14 02:11	
1,2-Dichloroethane	<0.500	20.0	22.1	111	21.9	110	64-126	1	20	ug/L	03.29.14 02:11	
1,1-Dichloroethene	<0.500	20.0	22.9	115	23.3	117	65-152	2	20	ug/L	03.29.14 02:11	
cis-1,2-Dichloroethene	<0.500	20.0	20.3	102	20.7	104	66-126	2	20	ug/L	03.29.14 02:11	
trans-1,2-dichloroethene	<0.500	20.0	23.4	117	25.1	126	66-135	7	20	ug/L	03.29.14 02:11	
1,2-Dichloropropane	<0.500	20.0	23.3	117	23.4	117	70-130	0	20	ug/L	03.29.14 02:11	
1,3-Dichloropropane	<1.00	20.0	21.8	109	21.7	109	67-115	0	20	ug/L	03.29.14 02:11	
2,2-Dichloropropane	<0.500	20.0	20.3	102	20.5	103	62-145	1	20	ug/L	03.29.14 02:11	
1,1-Dichloropropene	<1.00	20.0	20.5	103	20.4	102	72-140	0	20	ug/L	03.29.14 02:11	
cis-1,3-Dichloropropene	<1.00	20.0	20.5	103	20.6	103	67-122	0	20	ug/L	03.29.14 02:11	
trans-1,3-dichloropropene	<0.500	20.0	20.9	105	20.9	105	70-130	0	20	ug/L	03.29.14 02:11	
Ethylbenzene	2.13	20.0	21.0	94	20.5	92	70-130	2	20	ug/L	03.29.14 02:11	
Hexachlorobutadiene	<5.00	20.0	17.4	87	18.1	91	68-143	4	20	ug/L	03.29.14 02:11	
2-Hexanone	<5.00	40.0	52.5	131	51.7	129	52-122	2	33	ug/L	03.29.14 02:11	N1
isopropylbenzene	<2.50	20.0	19.3	97	19.2	96	70-130	1	20	ug/L	03.29.14 02:11	
Methylene Chloride	<3.00	20.0	21.7	109	22.1	111	59-121	2	20	ug/L	03.29.14 02:11	
Iodomethane (Methyl Iodide)	<2.00	20.0	21.7	109	21.9	110	66-127	1	20	ug/L	03.29.14 02:11	
4-Methyl-2-Pentanone	<5.00	40.0	50.9	127	51.6	129	53-125	1	20	ug/L	03.29.14 02:11	M1
Naphthalene	<5.00	20.0	21.8	109	23.4	117	54-129	7	26	ug/L	03.29.14 02:11	
n-Propylbenzene	<2.00	20.0	21.2	106	21.8	109	69-126	3	20	ug/L	03.29.14 02:11	
Styrene	<1.00	20.0	17.7	89	17.6	88	49-142	1	37	ug/L	03.29.14 02:11	
1,1,1,2-Tetrachloroethane	<0.500	20.0	19.4	97	18.8	94	70-130	3	20	ug/L	03.29.14 02:11	
1,1,2,2-Tetrachloroethane	<0.500	20.0	21.3	107	21.3	107	64-122	0	20	ug/L	03.29.14 02:11	

QC Summary 481853

Terranext
WVBA

Analytical Method: **VOCs by EPA 8260B** Prep Method: SW5030C
Seq Number: 937377 Matrix: Ground Water Date Prep: 03.29.14
Parent Sample Id: 481685-004 MS Sample Id: 481685-004 S MSD Sample Id: 481685-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Tetrachloroethylene	<0.500	20.0	16.9	85	17.0	85	69-130	1	20	ug/L	03.29.14 02:11	
Toluene	<2.00	20.0	19.0	95	17.7	89	70-130	7	20	ug/L	03.29.14 02:11	
1,2,3-Trichlorobenzene	<5.00	20.0	17.6	88	18.1	91	61-126	3	24	ug/L	03.29.14 02:11	
1,2,4-Trichlorobenzene	<5.00	20.0	17.6	88	18.0	90	64-123	2	20	ug/L	03.29.14 02:11	
1,1,1-Trichloroethane	<0.500	20.0	20.5	103	20.6	103	68-136	0	20	ug/L	03.29.14 02:11	
1,1,2-Trichloroethane	<0.500	20.0	21.6	108	21.0	105	65-112	3	20	ug/L	03.29.14 02:11	
Trichloroethene	<0.500	20.0	18.7	94	19.0	95	70-130	2	20	ug/L	03.29.14 02:11	
Trichlorofluoromethane	<2.00	20.0	20.8	104	21.3	107	53-171	2	20	ug/L	03.29.14 02:11	
1,2,3-Trichloropropane	<1.00	20.0	20.2	101	20.9	105	58-116	3	20	ug/L	03.29.14 02:11	
1,2,4-Trimethylbenzene	<2.00	20.0	18.7	94	19.0	95	67-128	2	22	ug/L	03.29.14 02:11	
1,3,5-Trimethylbenzene	<1.50	20.0	18.7	94	19.0	95	70-130	2	20	ug/L	03.29.14 02:11	
o-Xylene	<1.00	20.0	17.3	87	17.1	86	70-130	1	20	ug/L	03.29.14 02:11	
m,p-Xylenes	<2.00	40.0	34.4	86	34.2	86	70-130	1	20	ug/L	03.29.14 02:11	
Vinyl Acetate	<5.00	20.0	26.6	133	26.8	134	43-133	1	23	ug/L	03.29.14 02:11	M1
Vinyl Chloride	<0.500	20.0	22.4	112	22.7	114	46-132	1	21	ug/L	03.29.14 02:11	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	108		107		69-133	%	03.29.14 02:11
1,2-Dichloroethane-D4	106		103		66-139	%	03.29.14 02:11
Toluene-D8	101		97		70-130	%	03.29.14 02:11
4-Bromofluorobenzene	99		95		70-135	%	03.29.14 02:11

QC Summary 481853

Terranext
WVBA

Analytical Method: VOCs by EPA 8260B Prep Method: SW5030C
Seq Number: 937451 Matrix: Water Date Prep: 03.30.14
Parent Sample Id: 481853-002 MS Sample Id: 481853-002 S MSD Sample Id: 481853-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acetone	<20.0	40.0	49.0	123	53.5	134	35-160	9	20	ug/L	03.31.14 00:16	
Benzene	<0.500	20.0	20.8	104	20.4	102	69-130	2	20	ug/L	03.31.14 00:16	
Bromobenzene	<1.50	20.0	18.9	95	18.7	94	70-130	1	20	ug/L	03.31.14 00:16	
Bromochloromethane	<0.500	20.0	20.5	103	21.5	108	63-119	5	22	ug/L	03.31.14 00:16	
Bromodichloromethane	<0.500	20.0	21.5	108	21.3	107	70-130	1	20	ug/L	03.31.14 00:16	
Bromoform	<1.00	20.0	20.3	102	20.8	104	57-121	2	20	ug/L	03.31.14 00:16	
Bromomethane	<5.00	20.0	16.4	82	15.8	79	53-141	4	22	ug/L	03.31.14 00:16	
2-Butanone	<5.00	40.0	45.9	115	48.5	121	46-136	6	22	ug/L	03.31.14 00:16	
MTBE	<2.00	20.0	22.2	111	23.1	116	65-127	4	20	ug/L	03.31.14 00:16	
n-Butylbenzene	<2.50	20.0	19.5	98	19.1	96	65-127	2	20	ug/L	03.31.14 00:16	
Sec-Butylbenzene	<1.50	20.0	19.1	96	18.7	94	70-130	2	20	ug/L	03.31.14 00:16	
tert-Butylbenzene	<2.50	20.0	18.9	95	18.8	94	70-130	1	20	ug/L	03.31.14 00:16	
Carbon Disulfide	<0.500	20.0	21.2	106	20.8	104	58-145	2	28	ug/L	03.31.14 00:16	
Carbon Tetrachloride	<0.500	20.0	21.1	106	20.6	103	60-152	2	20	ug/L	03.31.14 00:16	
Chlorobenzene	<0.500	20.0	19.7	99	19.2	96	70-130	3	20	ug/L	03.31.14 00:16	
Chloroethane	<4.00	20.0	20.3	102	18.3	92	59-153	10	20	ug/L	03.31.14 00:16	
Chloroform	<0.500	20.0	21.4	107	21.1	106	65-123	1	22	ug/L	03.31.14 00:16	
Chloromethane	<5.00	20.0	19.9	100	20.0	100	47-148	1	22	ug/L	03.31.14 00:16	
2-Chlorotoluene	<1.50	20.0	19.4	97	19.4	97	70-130	0	20	ug/L	03.31.14 00:16	
4-Chlorotoluene	<2.00	20.0	19.4	97	18.6	93	70-130	4	20	ug/L	03.31.14 00:16	
p-Cymene (p-Isopropyltoluene)	<1.50	20.0	19.0	95	18.7	94	70-130	2	20	ug/L	03.31.14 00:16	
Dibromochloromethane	<0.500	20.0	20.9	105	20.5	103	70-130	2	20	ug/L	03.31.14 00:16	
1,2-Dibromo-3-Chloropropane	<2.00	20.0	21.1	106	22.2	111	50-117	5	22	ug/L	03.31.14 00:16	
1,2-Dibromoethane	<0.500	20.0	21.1	106	21.2	106	67-117	0	20	ug/L	03.31.14 00:16	
Dibromomethane	<0.500	20.0	21.2	106	21.6	108	66-115	2	20	ug/L	03.31.14 00:16	
1,2-Dichlorobenzene	<1.50	20.0	19.9	100	20.1	101	70-130	1	20	ug/L	03.31.14 00:16	
1,3-Dichlorobenzene	<1.50	20.0	19.7	99	19.9	100	70-130	1	20	ug/L	03.31.14 00:16	
1,4-Dichlorobenzene	<1.50	20.0	20.7	104	19.9	100	70-130	4	20	ug/L	03.31.14 00:16	
Dichlorodifluoromethane	<2.00	20.0	21.3	107	20.6	103	16-151	3	33	ug/L	03.31.14 00:16	
1,1-Dichloroethane	<0.500	20.0	20.8	104	21.0	105	66-129	1	20	ug/L	03.31.14 00:16	
1,2-Dichloroethane	<0.500	20.0	21.7	109	21.5	108	64-126	1	20	ug/L	03.31.14 00:16	
1,1-Dichloroethene	<0.500	20.0	21.4	107	20.8	104	65-152	3	20	ug/L	03.31.14 00:16	
cis-1,2-Dichloroethene	<0.500	20.0	20.6	103	20.8	104	66-126	1	20	ug/L	03.31.14 00:16	
trans-1,2-dichloroethene	<0.500	20.0	21.1	106	20.9	105	66-135	1	20	ug/L	03.31.14 00:16	
1,2-Dichloropropane	<0.500	20.0	20.9	105	21.0	105	70-130	0	20	ug/L	03.31.14 00:16	
1,3-Dichloropropane	<1.00	20.0	21.2	106	20.6	103	67-115	3	20	ug/L	03.31.14 00:16	
2,2-Dichloropropane	<0.500	20.0	20.6	103	20.5	103	62-145	0	20	ug/L	03.31.14 00:16	
1,1-Dichloropropene	<1.00	20.0	21.4	107	20.4	102	72-140	5	20	ug/L	03.31.14 00:16	
cis-1,3-Dichloropropene	<1.00	20.0	21.0	105	20.7	104	67-122	1	20	ug/L	03.31.14 00:16	
trans-1,3-dichloropropene	<0.500	20.0	20.6	103	20.5	103	70-130	0	20	ug/L	03.31.14 00:16	
Ethylbenzene	<2.00	20.0	21.0	105	19.8	99	70-130	6	20	ug/L	03.31.14 00:16	
Hexachlorobutadiene	<5.00	20.0	20.1	101	19.0	95	68-143	6	20	ug/L	03.31.14 00:16	
2-Hexanone	<5.00	40.0	45.8	115	47.1	118	52-122	3	33	ug/L	03.31.14 00:16	
isopropylbenzene	<2.50	20.0	20.1	101	19.5	98	70-130	3	20	ug/L	03.31.14 00:16	
Methylene Chloride	<3.00	20.0	20.6	103	20.4	102	59-121	1	20	ug/L	03.31.14 00:16	
Iodomethane (Methyl Iodide)	<2.00	20.0	21.3	107	20.2	101	66-127	5	20	ug/L	03.31.14 00:16	
4-Methyl-2-Pentanone	<5.00	40.0	46.6	117	48.5	121	53-125	4	20	ug/L	03.31.14 00:16	
Naphthalene	<5.00	20.0	21.4	107	23.5	118	54-129	9	26	ug/L	03.31.14 00:16	
n-Propylbenzene	<2.00	20.0	19.5	98	19.1	96	69-126	2	20	ug/L	03.31.14 00:16	
Styrene	<1.00	20.0	7.47	37	13.1	66	49-142	55	37	ug/L	03.31.14 00:16	M2R2
1,1,1,2-Tetrachloroethane	<0.500	20.0	20.3	102	19.4	97	70-130	5	20	ug/L	03.31.14 00:16	
1,1,2,2-Tetrachloroethane	<0.500	20.0	22.2	111	22.9	115	64-122	3	20	ug/L	03.31.14 00:16	

QC Summary 481853

Terranext
WVBA

Analytical Method: **VOCs by EPA 8260B** Prep Method: SW5030C
Seq Number: 937451 Matrix: Water Date Prep: 03.30.14
Parent Sample Id: 481853-002 MS Sample Id: 481853-002 S MSD Sample Id: 481853-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Tetrachloroethylene	<0.500	20.0	20.6	103	19.8	99	69-130	4	20	ug/L	03.31.14 00:16	
Toluene	<2.00	20.0	19.9	100	19.8	99	70-130	1	20	ug/L	03.31.14 00:16	
1,2,3-Trichlorobenzene	<5.00	20.0	18.7	94	20.0	100	61-126	7	24	ug/L	03.31.14 00:16	
1,2,4-Trichlorobenzene	<5.00	20.0	19.5	98	20.1	101	64-123	3	20	ug/L	03.31.14 00:16	
1,1,1-Trichloroethane	<0.500	20.0	21.4	107	21.0	105	68-136	2	20	ug/L	03.31.14 00:16	
1,1,2-Trichloroethane	<0.500	20.0	20.2	101	20.3	102	65-112	0	20	ug/L	03.31.14 00:16	
Trichloroethene	<0.500	20.0	20.5	103	19.9	100	70-130	3	20	ug/L	03.31.14 00:16	
Trichlorofluoromethane	<2.00	20.0	21.4	107	20.6	103	53-171	4	20	ug/L	03.31.14 00:16	
1,2,3-Trichloropropane	<1.00	20.0	21.4	107	21.7	109	58-116	1	20	ug/L	03.31.14 00:16	
1,2,4-Trimethylbenzene	<2.00	20.0	19.2	96	18.9	95	67-128	2	22	ug/L	03.31.14 00:16	
1,3,5-Trimethylbenzene	<1.50	20.0	19.3	97	19.2	96	70-130	1	20	ug/L	03.31.14 00:16	
o-Xylene	<1.00	20.0	20.3	102	19.4	97	70-130	5	20	ug/L	03.31.14 00:16	
m,p-Xylenes	<2.00	40.0	40.5	101	39.2	98	70-130	3	20	ug/L	03.31.14 00:16	
Vinyl Acetate	<5.00	20.0	12.2	61	18.0	90	43-133	38	23	ug/L	03.31.14 00:16	R5
Vinyl Chloride	<0.500	20.0	20.0	100	19.0	95	46-132	5	21	ug/L	03.31.14 00:16	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	101		101		69-133	%	03.31.14 00:16
1,2-Dichloroethane-D4	105		105		66-139	%	03.31.14 00:16
Toluene-D8	100		97		70-130	%	03.31.14 00:16
4-Bromofluorobenzene	102		99		70-135	%	03.31.14 00:16

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Work Order No: 481 853

Page 1 of 2

Project Manager:	Chuck Gordon	Bill to: (if different)	
Company Name:	Terranext	Company Name:	
Address:	4850 E Cotton Center Blvd #73	Address:	
City, State ZIP:	Phx AZ 85040	City, State ZIP:	
Phone:	480-496-4100	Email:	cgordon@terranext.net

Work Order Comments

PAF & EDD
Level III

Project Name:	WUBA
Project Number:	03103154
P.O. Number:	
Sampler's Name:	Ray Ashlock

SAMPLE RECEIPT

Temperature (°C):	4.8	Temp Blank Present:	Yes
Received Intact:	Yes No N/A	Wet Ice / Blue Ice	
Cooler Custody Seals:	Yes No N/A	Total Containers:	
Sample Custody Seals:	Yes No N/A		

ANALYSIS REQUEST (PLEASE CHECK METHOD NUMBER)

TAT: ☑ Routine ☐ Rush - Prelim ☐ Rush - Final

Prelim Due Date:

Final Due Date:

Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	Number of Containers	Volatile Organics 8260B ☒ / 624 ☐ / 524.2 ☐	Acrolein ☐ / Acrylonitrile ☐ / 2-CEVE ☐ / 8260B ☐ / 624 ☐	Semi-Volatile Organics 8270C ☐ / 625 ☐	Organochlorine Pesticides 8081A ☐ / 608 ☐	Oil & Grease (1664-HEM) ☐ / TPH (1664-HEM-SGT) ☐	Metals (See Below) Total ☒ Hardness ☐ / Ca Hardness ☐	Metals (See Below) Dissolved ☒ / TCLP ☐	Total Hexavalent Cr ☐ / Dissolved Hexavalent Cr ☐	Total Cyanide ☒ / Amenable (Free) Cyanide ☐	BOD ☐	pH ☐ Cond. ☐ Alk ☐ TDS ☐ TSS ☐ / Cl ☐ SO4 ☐ F ☐ Ortho-P ☐	NO2 ☐ / NO3 (300.0) ☐	NO2+NO3 (353.2) ☐	TKN ☐ / NH3 ☐ / COD ☐ / Total-P ☐	Coliform ☐ / E. Coli (CFU/MPN) ☐ / HPC ☐ / Fecal (CFU/MPN) ☐	Sample Comments
AuB 91-0102-1000	W	3/25/14	0800	1	1	X															
AuB 91-0100-23135			0815	2	5	X					X	X									
AuB 145-0100-01136			0900	3	5	X					X	X									
AuB 145-0101-01136			0905	4	5	X					X	X									
AuB 75-0100-27135			0940	5	5	X					X	X									
AuB 135-0100-14137			1025	6	5	X					X	X									
AuB 92-0100-21137			1100	7	5	X					X	X									
AuB 93-0100-21136			1135	8	5	X					X	X									
AuB 88-0100-25110			1252	9	6	X					X	X		X							
AuB 125-0100-19135			1328	10	6	X					X	X		X							

Total 200.7 / 6010B: 8RCRA 13PPM Al Sb As Ba Be B Cd Ca (Cr) Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Tl Sn V Zn

Circle Method(s) and Metal(s) to be analyzed 200.8 / 6020: Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Other: 245.1 / 7470A: Hg

Dissolved / TCLP 200.7 / 6010B: 8RCRA 13PPM Al Sb As Ba Be B Cd Ca (Cr) Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Tl Sn V Zn

Circle Method(s) and Metal(s) to be analyzed 200.8 / 6020: Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Other: 245.1 / 7470A: Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Ray Ash		3/25/14 1545
2		
3		

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C.O.C. Serial # 14062

Chain of Custody

XENCO Laboratories

Committed to Excellence in Service and Quality Since 1990 SDBE

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Trans West Analytical Services 3725 E. Atlanta Ave. • Phoenix, AZ 85040 • Ph: (602) 437-0330 •• 3860 S. Palo Verde Rd., Suite 301 • Tucson, AZ 85714 • Ph: (520)975-2962

Work Order No: 481853

Page 2 of 2

Project Manager:	Chuck Gordon	Bill to: (if different)	
Company Name:	Terranext	Company Name:	
Address:	4050 E Cotton Center Blvd #73	Address:	
City, State ZIP:	PHX AZ 85040	City, State ZIP:	
Phone:	480-496-4100	Email:	cgordon@terranext.net

Work Order Comments

PDF & EDD
Level III

Project Name:	WUBA
Project Number:	031031501
P.O. Number:	
Sampler's Name:	Roy Ashloth

SAMPLE RECEIPT

Temperature (°C):	1.8	Temp Blank Present:	Yes
Received Intact:	Yes No N/A	Wet Ice / Blue Ice	
Cooler Custody Seals:	Yes No N/A	Total Containers:	
Sample Custody Seals:	Yes No N/A		

ANALYSIS REQUEST (PLEASE CHECK METHOD NUMBER)

TAT

- [x] Routine
- [ ] Rush - Prelim
- [ ] Rush - Final

Prelim Due Date:

Final Due Date:

Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	Number of Containers	Volatile Organics 8260B ☒ / 624 ☐ / 524.2 ☐	Acrolein 8260B ☐ / Acrylonitrile 624 ☐ / 2-CEVE ☐	Semi-Volatile Organics 8270C ☐ / 625 ☐	Organochlorine Pesticides 8081A ☐ / 608 ☐	Oil & Grease (1664-HEM) ☐ / TPH (1664-HEM-SGT) ☐	Metals (See Below) Total ☒ Hardness ☐ / Ca Hardness ☐	Metals (See Below) Dissolved ☒ / TCLP ☐	Total Hexavalent Cr ☐ / Dissolved Hexavalent Cr ☐	Total Cyanide ☒ / Amenable (Free) Cyanide ☐	BOD ☐	pH ☐ Cond. ☐ Alk ☐ TDS ☐ TSS ☐ / Cl ☐ SO4 ☐ F ☐ Ortho-P ☐	NO2 ☐ NO3 (300.0) ☐	NO2+NO3 (353.2) ☐	TKN ☐ NH3 ☐ COD ☐ Total-P ☐	Colilert ☐ E. Coli (CFU/MPN) ☐ / HPC ☐ Fecal (CFU/MPN) ☐	Sample Comments
AuB 69-0210-0314	W	3/25/14	1405	11	6	X					X	X		X							
AuB97-0100-0211	W	3/25/14	1442	12	5	X					X	X									
AuB97-0104-1000	W	3/25/14	1500	13	5	X					X	X									

Total 200.7 / 6010B: 8RCRA 13PPM Al Sb As Ba Be B Cd Ca (Cr) Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Tl Sn V Zn

Circle Method(s) and Metal(s) to be analyzed 200.8 / 6020: Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Other: 245.1 / 7470A: Hg

Dissolved / TCLP 200.7 / 6010B: 8RCRA 13PPM Al Sb As Ba Be B Cd Ca (Cr) Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Tl Sn V Zn

Circle Method(s) and Metal(s) to be analyzed 200.8 / 6020: Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Other: 245.1 / 7470A: Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Roy Ash		3/25/14 1545
2		
3		

Upon signing this COC, you accept Xenco terms and conditions unless otherwise agreed upon in writing. Reports are intellectual property of Xenco until paid.
Samples will be held 30 days after the final report is emailed unless herby requested.
Rush charges and collection fees are pre-approved if necessary.

C.O.C. Serial # 16713

TRANS WEST ANALYTICAL

Sample Receipt Checklist

Client Name: Terrangyt

Date and Time Received: 3/25/14 1545

Work Order Number: 481853

Checked by: SH / TM

Checklist completed by: [signature] Date: 3/25/14

Logged In by: SH Date: 3/25/14

Matrix: W Courier Name: Client TWA _____

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑	
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	Not Present ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Samples received same day of collection?	Yes ☑	No ☐	Temp: 1.8	Wet Ice Present ☑
Where was the temperature reading taken at?	Sample ☐	Temp Blank ☑	Other:	
VOA Water – VOA vials have zero headspace?	Yes ☑	No ☐	N/A ☐	
Water – Microbiological bottles have ≤ 2.5 cm headspace?	Yes ☐	No ☐	N/A ☑	
Water – All sample pH's acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	Checked by: SH

If **No**, list all samples and bottle types that are not acceptable in Additional Comments section. Also state any correction actions.

Sulfide Water – Bottles have zero headspace?	Yes ☐	No ☐	N/A ☑	(zero headspace ≤ than neck of bottle)
Dissolved Water Analytes – Field Filtered?	Yes ☐	No ☑	N/A ☐	

Are samples received deemed acceptable? Yes ☑ No ☐ If **No** then complete section below

PM Notified Date: _____ Init: _____ PM Init: _____

Client Notified Date: _____ Init: _____ L/M ☐ Date: _____ L/M ☐ Date: _____

Contact Name: _____ Action to take: Analyze ☐ Cancel ☐ Hold ☐ Other:

Changes/Comments made on original COC? Yes ☐ N/A ☐ Init: _____ Date: _____

Changes made in LIMS? Yes ☐ N/A ☐ Init: _____ Date: _____

Additional Comments: _____

CS-002-SRChecklist RV8

Volatile Organics by SW8260B

Sample Analysis

Method 8260B

Run ID 140328B **Date of Run 3/28/14** **Analyst JM** **Page # 10**

Acquisition Method **SC8260**

Standard ID's			**Syringe IDs:**
CCV Std	Prep Log #	GCMSVOA-6079	V-126
BFB Std	Prep Log #	GCMSVOA-6077	V-024
Internal Std	Prep Log #	GCMSVOA-6078	V-029
Surrogates	Prep Log #	GCMSVOA-6077	V-024
Bench Spike	Prep Log #	NA	NA
Secondary spike	Prep Log #	GCMSVOA-6076	NA
Methanol	RL #	07-22-24	V-141

Soil Blank & Sample Preparation

Name	Extract amount in µl	IS amount in µl
Method Blank	100	10
QC Samples	100	10
Matrix Samples	100	10

Aqueous Blank & Sample Preparation

Name	Surrogate	Secondary Spike	Sample amount in ml	IS amount in µl
Method Blank	10	NA	5.0	10
QC Samples	10	10	5.0	10
Matrix Samples	10	NA	5.0	10

CCV Preparation

Standard Name	Standard amt added in µl	Reagent Water amt in mL	Methanol amt added in µl
CCV #1	10	5	80
Internal Standard	10		
Surrogate Standard	10		

Aqueous Dilutions

Dilution	Sample
1X	5 mL
2X	2.5 mL
5X	1 mL
10X	500 µl
20X	250 µl
50X	100 µl
100 X	50 µl
200 X	25 µl
500 X	10 µl

VOA-003-Inst10RunLog RV1
Create a book by attaching a copy of the Injection Log and number it in consecutive order up to 100.

Injection Log

Directory: h:\voa\a228\140328b

11

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	14	14032814.d	1.	BFB	TUNE CHECK	28 Mar 14 18:05
2	15	14032815.d	1.	CCV	CCV	28 Mar 14 18:30
3	16	14032816.d	1.	BLK	BLK	28 Mar 14 18:56
4	1	14032817.d	1.	BKS	BKS	28 Mar 14 20:08
5	3	14032818.d	1.	BSD	BSD	28 Mar 14 20:34
6	4	14032819.d	1.	481858-003	SMP	28 Mar 14 21:00
7	5	14032820.d	1.	481954-005 S	MS	28 Mar 14 21:26
8	6	14032821.d	1.	481954-005 SD	MSD	28 Mar 14 21:52
9	7	14032822.d	1.	~~481685-004~~	SMP	28 Mar 14 22:18
10	8	14032823.d	1.	481848-003	SMP	28 Mar 14 22:44
11	9	14032824.d	1.	481848-004	SMP	28 Mar 14 23:10
12	10	14032825.d	1.	481685-009	SMP	28 Mar 14 23:36
13	11	14032826.d	1.	481848-001	SMP	29 Mar 14 00:02
14	12	14032827.d	1.	481848-005	SMP	29 Mar 14 00:27
15	13	14032828.d	1.	481848-006	SMP	29 Mar 14 00:53
16	14	14032829.d	1.	481852-001	SMP	29 Mar 14 01:19
17	15	14032830.d	1.	481852-002	SMP	29 Mar 14 01:45
18	16	14032831.d	1.	481685-004 S	MS	29 Mar 14 02:11
19	1	14032832.d	1.	481685-004 SD	MSD	29 Mar 14 02:37
20	3	14032833.d	1.	481852-003	SMP	29 Mar 14 03:03
21	4	14032834.d	1.	481852-004	SMP	29 Mar 14 03:29
22	5	14032835.d	1.	481852-005	SMP	29 Mar 14 03:55
23	6	14032836.d	1.	481853-001	SMP	29 Mar 14 04:21
24	7	14032837.d	1.	481685-005	SMP	29 Mar 14 04:48
25	8	14032838.d	10.	481685-006	SMP	29 Mar 14 05:14
26	9	14032839.d	10.	481685-007	SMP	29 Mar 14 05:40
27	10	14032840.d	10.	481685-008	SMP	29 Mar 14 06:06

pH <2 SOILS
pH <2
NR

SOILS
653207 653158
937377 937324

DM 3/29/14

GC/MS QA-QC Check Report

Tune File : H:\VOA\A228\140328B\14032814.D
Tune Time : 28 Mar 2014 18:05

Daily Calibration File : H:\VOA\A228\140328B\14032815.D

353470 610061 520668

248326

File	Sample	Surrogate Recovery %				Internal Standard Responses		
14032815.D	CCV	102	99	99	99	353470	610061	520668
				248326				
14032816.D	BLK	101	98	99	92	350094	606707	520565
				246741				
14032817.D	BKS	103	100	99	98	351835	614953	547411
				255168				
14032818.D	BSD	103	100	99	96	364001	627482	554832
				256532				
14032819.D	481858-003	105	100	101	92	341183	590849	521225
				235895				
14032820.D	481954-005	103	98	100	96	360483	637798	566842
				253964				
14032821.D	481954-005	108	103	101	96	324106	584446	529356
				243700				
14032822.D	481685-004	106	95	101	93	370133	654343	566855
				255968				
14032823.D	481848-003	113	102	101	92	328268	611186	537803
				244983				
14032824.D	481848-004	107	96	100	92	366912	660224	571400
				257308				
14032825.D	481685-009	106	97	100	91	363365	639416	547888
				242123				
14032826.D	481848-001	105	98	100	91	365580	641895	548703
				253454				
14032827.D	481848-005	105	98	98	90	359931	638210	542463
				239937				
14032828.D								

	481848-006	105	99	100	94	351726	617746	531414
				245015				
14032829.D								
	481852-001	102	97	99	90	360172	627408	546667
				254003				
14032830.D								
	481852-002	105	100	100	93	344782	604783	520619
				242456				
14032831.D								
	481685-004	108	106	101	99	324151	572029	515956
				238042				
14032832.D								
	481685-004	107	103	97	95	329401	589718	536755
				240867				
14032833.D								
	481852-003	105	97	98	91	358963	640307	560484
				251313				

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

Created: Sat Mar 29 16:48:35 2014 GCMS 10

GC/MS QA-QC Check Report

Tune File : H:\VOA\A228\140328B\14032814.D
Tune Time : 28 Mar 2014 18:05

Daily Calibration File : H:\VOA\A228\140328B\14032815.D

14032834
14032835 ok

						353470	610061	520668
						248326		

File	Sample	Surrogate Recovery %				Internal Standard Responses		
14032836.D								
	481853-001	105	100	100	94	321432	568881	504019
				235018				
14032837.D								
	481685-005	103	96	102	91	360195	632637	557155
				254499				
14032838.D								
	481685-006	102	95	98	91	379643	669173	561018
				255760				
14032839.D								
	481685-007	100	95	97	88	366621	640314	555000
				253272				
14032840.D								
(fails)	481685-008	104	98	98	91	348298	623601	537622
				243743				

NR

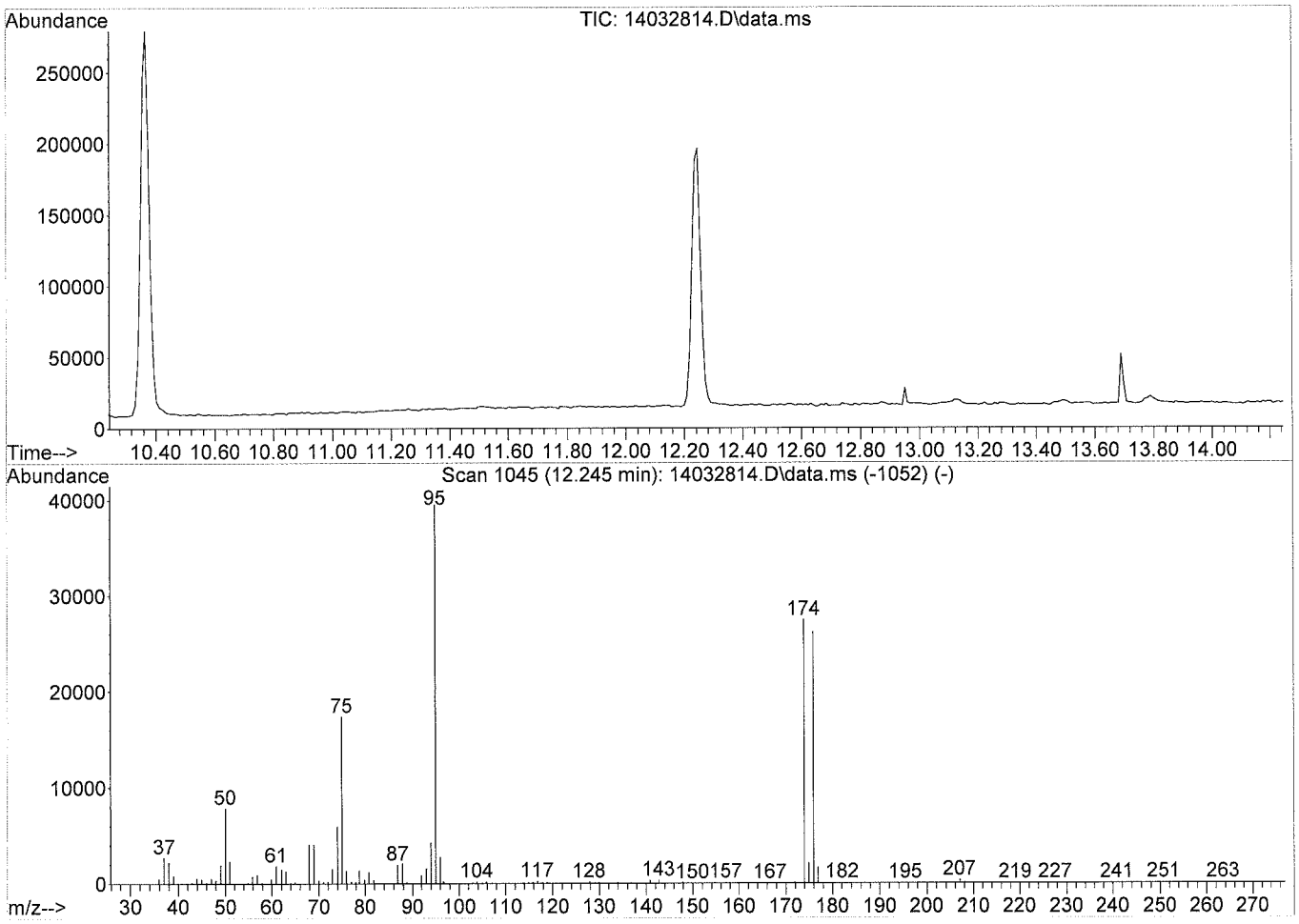
(fails) - fails 12hr time check * - fails criteria

Created: Sat Mar 29 16:51:19 2014 GCMS 10

Data Path : H:\VOA\A228\140328B\
Data File : 14032814.D
Acq On : 28 Mar 2014 18:05
Operator : JM
Sample : BFB
Misc : TUNE CHECK
ALS Vial : 14 Sample Multiplier: 1

Integration File: RTEINT.P

Method : H:\VOA\A228\METHODS\140327.M
Title : 8260B_S
Last Update : Thu Mar 27 15:18:06 2014



Spectrum Information: Scan 1045

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.8	7828	PASS
75	95	30	60	44.0	17355	PASS
95	95	100	100	100.0	39474	PASS
96	95	5	9	6.9	2731	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.5	27417	PASS
175	174	5	9	7.5	2051	PASS
176	174	95	101	95.3	26128	PASS
177	176	5	9	6.3	1652	PASS

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032815.D
Acq On : 28 Mar 2014 18:30
Operator : JM
Sample : CCV
Misc : CCV
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 28 19:43:17 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.471	168	353470	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.159	114	610061	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.425	117	520668	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.118	152	248326	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.506	113	255241	50.82 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 101.64%		
45) 1,2-Dichloroethane-d4	8.823	65	327136	49.48 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 98.96%		
46) Toluene-d8	10.358	98	820285	49.30 ug/L	-0.01
Spiked Amount 50.000	Range 63 - 126		Recovery = 98.60%		
66) 4-Bromofluorobenzene	12.236	95	353484	49.55 ug/L	-0.01
Spiked Amount 50.000	Range 62 - 123		Recovery = 99.10%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.992	85	109022	22.14 ug/L	99
3) Chloromethane	4.362	50	136699	27.03 ug/L	98
4) Vinyl chloride	4.538	62	132882	22.46 ug/L	99
5) 1,3-Butadiene	4.600	54	60211	21.98 ug/L	92
6) Bromomethane	4.953	94	22431	14.58 ug/L	94
7) Chloroethane	5.103	64	50129	21.10 ug/L	97
8) Trichlorofluoromethane	5.535	101	184256	21.22 ug/L	97
9) Acrolein	6.090	56	97587	127.78 ug/L	99
10) Trichlorotrifluoroethane	6.214	151	62180	19.74 ug/L #	79
11) 1,1-Dichloroethene	6.249	61	167811	22.34 ug/L	95
12) Methylene chloride	6.787	84	129320	20.50 ug/L	88
13) Acrylonitrile	7.042	53	50145	23.03 ug/L	99
14) trans-1,2-Dichloroethene	7.113	61	166097	22.73 ug/L	97
15) n-Hexane	7.377	57	152569	24.90 ug/L	94
16) 1,1-Dichloroethane	7.545	63	193650	22.05 ug/L	97
17) Cyclohexane	8.665	84	149018	21.69 ug/L #	68
18) 2,2-Dichloropropane	8.118	77	162275	20.54 ug/L	100
19) cis-1,2-Dichloroethene	8.100	96	126131	19.97 ug/L	88
20) Chloroform	8.356	83	208142	20.37 ug/L	98
21) Bromochloromethane	8.330	128	48053	18.80 ug/L	88
23) 1,1,1-Trichloroethane	8.585	97	161349	19.63 ug/L	96
24) Acetone	6.266	43	129534	61.42 ug/L	99
25) 2-Butanone	8.065	43	145272	52.18 ug/L	94
26) Carbon Disulfide	6.593	76	379696	21.89 ug/L	98
27) Iodomethane	6.469	142	130273	20.18 ug/L	94
28) Vinyl acetate	7.519	43	648663	25.80 ug/L	98
29) Methyl tert-butyl ether	7.086	73	269580	21.26 ug/L	95
31) 1,1-Dichloropropene	8.718	75	147524	20.60 ug/L	96
32) Carbon tetrachloride	8.744	117	112321	17.86 ug/L	97
33) 1,2-Dichloroethane	8.894	62	160954	21.01 ug/L	99
34) Benzene	8.912	78	394476	19.17 ug/L	97
35) 2,2,4-Trimethylpentane	8.938	57	408057	23.11 ug/L #	96
36) n-Heptane	9.053	57	91268	23.19 ug/L	90
37) Trichloroethene	9.423	95	111786	18.62 ug/L	97

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032815.D
Acq On : 28 Mar 2014 18:30
Operator : JM
Sample : CCV
Misc : CCV
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 28 19:43:17 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

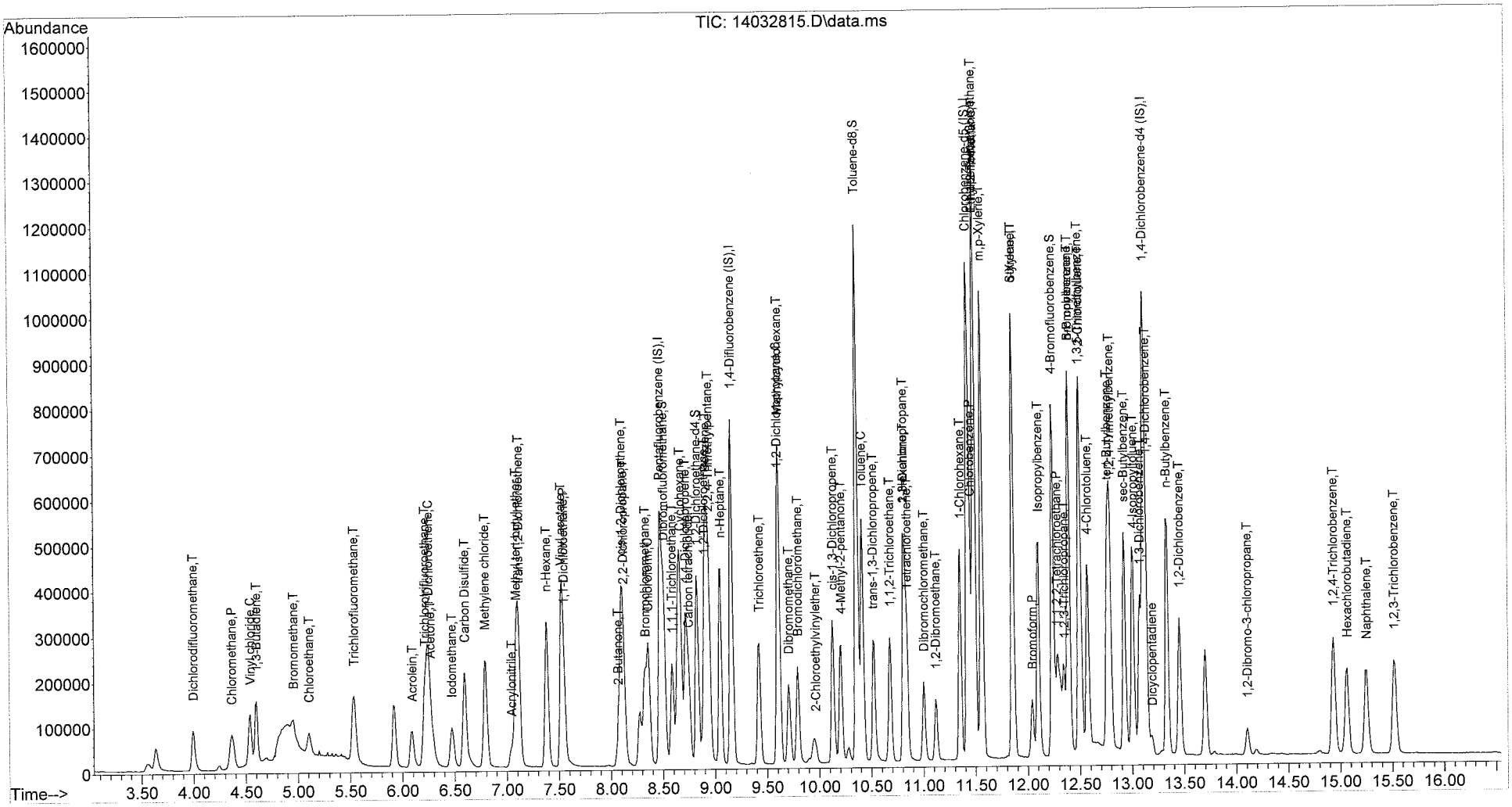
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.599	63	105761	21.70 ug/L	93
39) Bromodichloromethane	9.793	83	148614	19.57 ug/L	99
40) Methylcyclohexane	9.608	56	47830	22.28 ug/L	87
41) Dibromomethane	9.705	93	84272	19.00 ug/L	96
42) cis-1,3-Dichloropropene	10.128	75	178939	19.66 ug/L	96
43) 2-Chloroethylvinylether	9.961	63	12435	24.89 ug/L	94
44) 4-Methyl-2-pentanone	10.208	43	243524	41.91 ug/L	97
48) Toluene	10.411	92	243313	18.12 ug/L	93
49) trans-1,3-Dichloropropene	10.516	75	150467	20.78 ug/L	91
50) 1,1,2-Trichloroethane	10.675	83	85304	20.24 ug/L	96
51) 1,3-Dichloropropane	10.807	76	165288	20.91 ug/L	91
52) Tetrachloroethene	10.843	166	88184	17.99 ug/L	94
53) Dibromochloromethane	11.001	129	87007	18.88 ug/L	99
54) 1,2-Dibromoethane	11.116	107	103260	17.79 ug/L	100
55) 1-Chlorohexane	11.354	91	160950	19.88 ug/L	90
56) Chlorobenzene	11.451	112	211681	18.88 ug/L	95
57) n-Nonane	11.495	57	187927	24.20 ug/L	95
58) 1,1,1,2-Tetrachloroethane	11.486	131	69973	18.83 ug/L	95
59) Ethylbenzene	11.486	91	470049	19.22 ug/L	97
60) m,p-Xylene	11.557	106	294272	35.14 ug/L #	82
61) o-Xylene	11.857	106	136807	17.41 ug/L #	86
62) Styrene	11.857	104	255021	17.96 ug/L	93
63) Isopropylbenzene	12.104	105	367596	19.46 ug/L	96
64) Bromoform	12.042	173	62872	17.23 ug/L	98
65) 1,1,2,2-Tetrachloroethane	12.280	83	134168	19.45 ug/L	94
67) 2-Hexanone	10.807	43	172816	45.70 ug/L	95
69) 1,2,3-Trichloropropane	12.350	110	31116	18.00 ug/L	91
70) n-Propylbenzene	12.395	91	504223	19.70 ug/L	98
71) Bromobenzene	12.395	156	90071	18.40 ug/L	85
72) 1,3,5-Trimethylbenzene	12.491	105	323150	18.63 ug/L	96
73) 2-Chlorotoluene	12.500	91	335001	19.72 ug/L	95
74) 4-Chlorotoluene	12.571	91	303626	20.07 ug/L	94
75) tert-Butylbenzene	12.765	119	246225	18.84 ug/L	100
76) 1,2,4-Trimethylbenzene	12.791	105	327997	18.77 ug/L	98
77) sec-Butylbenzene	12.924	105	407160	19.29 ug/L	98
78) 4-Isopropyltoluene	13.012	119	274636	19.26 ug/L	96
79) 1,3-Dichlorobenzene	13.073	146	145401	18.64 ug/L	97
80) 1,4-Dichlorobenzene	13.135	146	159131	18.98 ug/L	98
81) Dicyclopentadiene	13.188	66	44132	22.10 ug/L	98
82) n-Butylbenzene	13.329	92	230017	19.52 ug/L	95
83) 1,2-Dichlorobenzene	13.453	146	137559	18.60 ug/L	93
84) 1,2-Dibromo-3-chloropr...	14.105	157	17714	16.74 ug/L #	88
85) 1,2,4-Trichlorobenzene	14.934	180	115254	17.80 ug/L	97
86) Hexachlorobutadiene	15.066	190	27072	18.79 ug/L	90
87) Naphthalene	15.251	128	210516	17.10 ug/L	99
88) 1,2,3-Trichlorobenzene	15.516	180	100464	17.12 ug/L	94

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032815.D
Acq On : 28 Mar 2014 18:30
Operator : JM
Sample : CCV
Misc : CCV
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 28 19:43:17 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration



Continuing Calibration Evaluation

CCV
3/28/2014 18:30

14032815.D
GCMS 10

Name	Fit	AvgRF/Amt	CCRF/Conc	%Rec	LCL	UCL
Pentafluorobenzene (IS)	IS	206104.000	353470.000	XXXXXX	103052	412208
Dichlorodifluoromethane	L	20.000	22.137	111	31	155
Chloromethane	L	20.000	27.034	135	47	139
Vinyl chloride	A	0.837	0.940	112	80	120
1,3-Butadiene	A	0.387	0.426	110	68	130
Bromomethane	A	0.218	0.159	73	16	180
Chloroethane	A	0.336	0.355	105	43	155
Trichlorofluoromethane	A	1.228	1.303	106	61	135
Acrolein	A	0.108	0.138	128	70	130
Trichlorotrifluoroethane	L	20.000	19.741	99	58	147
1,1-Dichloroethene	A	1.062	1.187	112	80	120
Methylene chloride	A	0.893	0.915	102	64	133
Acrylonitrile	A	0.308	0.355	115	68	130
trans-1,2-Dichloroethene	A	1.034	1.175	114	67	131
n-Hexane	A	0.867	1.079	124	68	130
1,1-Dichloroethane	A	1.242	1.370	110	66	132
Cyclohexane	A	0.972	1.054	108	70	130
2,2-Dichloropropane	A	1.118	1.148	103	67	136
cis-1,2-Dichloroethene	A	0.894	0.892	100	68	129
Chloroform	A	1.446	1.472	102	80	120
Bromochloromethane	A	0.361	0.340	94	68	130
Dibromofluoromethane	A	0.711	0.722	102	70	130
1,1,1-Trichloroethane	A	1.163	1.141	98	70	130
Acetone	L	40.000	61.416	154	51	171
2-Butanone	L	40.000	52.177	130	63	136
Carbon Disulfide	L	20.000	21.888	109	56	138
Iodomethane	A	0.913	0.921	101	44	153
Vinyl acetate	A	3.556	4.588	129	68	130
Methyl tert-butyl ether	A	1.793	1.907	106	71	129
1,4-Difluorobenzene (IS)	IS	321165.000	610061.000	XXXXXX	160583	642330
1,1-Dichloropropene	A	0.587	0.605	103	74	127
Carbon tetrachloride	A	0.516	0.460	89	74	133
1,2-Dichloroethane	L	20.000	21.014	105	68	130
Benzene	A	1.687	1.617	96	68	130
2,2,4-Trimethylpentane	A	1.447	1.672	116	70	130
n-Heptane	A	0.323	0.374	116	70	130
Trichloroethene	A	0.492	0.458	93	78	123
1,2-Dichloropropane	L	20.000	21.700	108	68	130
Bromodichloromethane	L	20.000	19.575	98	76	122
Methylcyclohexane	A	0.176	0.196	111	70	130
Dibromomethane	L	20.000	19.003	95	77	120
cis-1,3-Dichloropropene	A	0.746	0.733	98	79	121
2-Chloroethylvinylether	Q	20.000	24.887	124	62	131
4-Methyl-2-pentanone	A	0.476	0.499	105	68	126
1,2-Dichloroethane-d4	A	0.542	0.536	99	70	130

Toluene-d8	A	1.364	1.345	99	70	130	
Chlorobenzene-d5 (IS)	IS	276901.000	520668.000	XXXXXX	138451	553802	
Toluene	A	1.289	1.168	91	80	120	
trans-1,3-Dichloropropene	L	20.000	20.783	104	76	121	
1,1,2-Trichloroethane	L	20.000	20.244	101	71	125	
1,3-Dichloropropane	L	20.000	20.910	105	74	124	
Tetrachloroethene	L	20.000	17.992	90	71	130	
Dibromochloromethane	L	20.000	18.881	94	68	130	
1,2-Dibromoethane	A	0.557	0.496	89	77	121	
1-Chlorohexane	A	0.777	0.773	99	68	130	
Chlorobenzene	L	20.000	18.876	94	47	139	
n-Nonane	A	0.746	0.902	121	70	130	
1,1,1,2-Tetrachloroethane	L	20.000	18.835	94	79	119	
Ethylbenzene	A	2.349	2.257	96	80	120	
m,p-Xylene	A	0.804	0.706	88	79	122	
o-Xylene	A	0.754	0.657	87	79	121	
Styrene	A	1.364	1.224	90	79	121	
Isopropylbenzene	L	20.000	19.456	97	78	122	
Bromoform	L	20.000	17.226	86	75	121	
1,1,2,2-Tetrachloroethane	L	20.000	19.450	97	70	122	
4-Bromofluorobenzene	A	0.685	0.679	99	70	130	
2-Hexanone	L	40.000	45.705	114	67	124	
1,4-Dichlorobenzene-d4 (IS)	IS	138315.000	248326.000	XXXXXX	69158	276630	
1,2,3-Trichloropropane	L	20.000	17.998	90	74	119	
n-Propylbenzene	A	5.152	5.076	99	70	121	
Bromobenzene	L	20.000	18.401	92	80	120	
1,3,5-Trimethylbenzene	A	3.493	3.253	93	80	120	
2-Chlorotoluene	L	20.000	19.717	99	78	122	
4-Chlorotoluene	L	20.000	20.074	100	77	123	
tert-Butylbenzene	A	2.632	2.479	94	80	120	
1,2,4-Trimethylbenzene	A	3.519	3.302	94	79	121	
sec-Butylbenzene	A	4.250	4.099	96	77	124	
4-Isopropyltoluene	A	2.872	2.765	96	79	120	
1,3-Dichlorobenzene	L	20.000	18.641	93	80	120	
1,4-Dichlorobenzene	L	20.000	18.977	95	80	120	
Dicyclopentadiene	L	20.000	22.102	111	80	120	
n-Butylbenzene	A	2.372	2.316	98	76	124	
1,2-Dichlorobenzene	L	20.000	18.598	93	80	120	
1,2-Dibromo-3-chloropropane	L	20.000	16.737	84	70	118	
1,2,4-Trichlorobenzene	L	20.000	17.799	89	75	125	
Hexachlorobutadiene	L	20.000	18.787	94	73	128	
Naphthalene	L	20.000	17.103	86	74	125	
1,2,3-Trichlorobenzene	L	20.000	17.121	86	69	127	

SPCCs out = 0 CCCs out = 0

Evaluate Continuing Calibration Report

Data Path : H:\VOA\A228\140328B\
Data File : 14032815.D
Acq On : 28 Mar 2014 18:30
Operator : JM
Sample : CCV
Misc : CCV
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 28 19:43:17 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene (IS)	1.000	1.000	0.0	177	0.00
2	T	Dichlorodifluoromethane	0.774	0.771	0.4	187	0.00
3	P	Chloromethane	0.790	0.967	-22.4#	223#	-0.02
4	C	Vinyl chloride	0.837	0.940	-12.3	203#	0.00
5	T	1,3-Butadiene	0.387	0.426	-10.1	203#	0.00
6	T	Bromomethane	0.218	0.159	27.1#	121	0.00
7	T	Chloroethane	0.336	0.355	-5.7	196	0.00
8	T	Trichlorofluoromethane	1.228	1.303	-6.1	195	0.00
9	T	Acrolein	0.108	0.092#	14.8	154	0.00
10	T	Trichlorotrifluoroethane	0.478	0.440	7.9	172	0.00
11	C	1,1-Dichloroethene	1.062	1.187	-11.8	207#	0.00
12	T	Methylene chloride	0.893	0.915	-2.5	192	0.00
13	T	Acrylonitrile	0.308	0.355	-15.3	218#	0.00
14	T	trans-1,2-Dichloroethene	1.034	1.175	-13.6	206#	0.00
15	T	n-Hexane	0.867	1.079	-24.5#	238#	0.00
16	P	1,1-Dichloroethane	1.242	1.370	-10.3	204#	0.00
17	T	Cyclohexane	0.972	1.054	-8.4	197	-0.01
18	T	2,2-Dichloropropane	1.118	1.148	-2.7	191	0.00
19	T	cis-1,2-Dichloroethene	0.894	0.892	0.2	185	0.00
20	C	Chloroform	1.446	1.472	-1.8	186	0.00
21	T	Bromochloromethane	0.361	0.340	5.8	173	0.00
22	S	Dibromofluoromethane	0.711	0.722	-1.5	185	0.00
23	T	1,1,1-Trichloroethane	1.163	1.141	1.9	180	0.00
24	T	Acetone	0.430	0.458	-6.5	264#	0.00
25	T	2-Butanone	0.439	0.514	-17.1	241#	0.00
26	T	Carbon Disulfide	2.587	2.685	-3.8	200	0.00
27	T	Iodomethane	0.913	0.921	-0.9	173	0.00
28	T	Vinyl acetate	3.556	4.588	-29.0#	220#	0.00
29	T	Methyl tert-butyl ether	1.793	1.907	-6.4	192	0.00
30	I	1,4-Difluorobenzene (IS)	1.000	1.000	0.0	194	0.00
31	T	1,1-Dichloropropene	0.587	0.605	-3.1	200	0.00
32	T	Carbon tetrachloride	0.516	0.460	10.9	175	0.00
33	T	1,2-Dichloroethane	0.694	0.660	4.9	193	0.00
34	T	Benzene	1.687	1.617	4.1	195	0.00
35	T	2,2,4-Trimethylpentane	1.447	1.672	-15.5	227#	0.00
36	T	n-Heptane	0.323	0.374	-15.8	230#	0.00
37	T	Trichloroethene	0.492	0.458	6.9	189	0.00
38	C	1,2-Dichloropropane	0.434	0.433	0.2	210#	-0.01
39	T	Bromodichloromethane	0.671	0.609	9.2	184	0.00
40	T	Methylcyclohexane	0.176	0.196	-11.4	221#	-0.01
41	T	Dibromomethane	0.393	0.345	12.2	176	0.00
42	T	cis-1,3-Dichloropropene	0.746	0.733	1.7	198	0.00
43	T	2-Chloroethylvinylether	0.045	0.051#	-13.3	222#	-0.01
44	T	4-Methyl-2-pentanone	0.476	0.499	-4.8	220#	0.00
45	S	1,2-Dichloroethane-d4	0.542	0.536	1.1	194	0.00
46	S	Toluene-d8	1.364	1.345	1.4	193	-0.01

Evaluate Continuing Calibration Report

Data Path : H:\VOA\A228\140328B\
Data File : 14032815.D
Acq On : 28 Mar 2014 18:30
Operator : JM
Sample : CCV
Misc : CCV
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 28 19:43:17 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47	I	Chlorobenzene-d5 (IS)	1.000	1.000	0.0	187	0.00
48	C	Toluene	1.289	1.168	9.4	180	-0.01
49	T	trans-1,3-Dichloropropene	0.738	0.722	2.2	193	-0.01
50	T	1,1,2-Trichloroethane	0.458	0.410	10.5	189	0.00
51	T	1,3-Dichloropropane	0.831	0.794	4.5	191	-0.01
52	T	Tetrachloroethene	0.512	0.423	17.4	163	0.00
53	T	Dibromochloromethane	0.476	0.418	12.2	176	0.00
54	T	1,2-Dibromoethane	0.557	0.496	11.0	178	0.00
55	T	1-Chlorohexane	0.777	0.773	0.5	191	0.00
56	P	Chlorobenzene	1.191	1.016	14.7	178	0.00
57	T	n-Nonane	0.746	0.902	-20.9#	246#	0.00
58	T	1,1,1,2-Tetrachloroethane	0.398	0.336	15.6	175	0.00
59	C	Ethylbenzene	2.349	2.257	3.9	188	0.00
60	T	m,p-Xylene	0.804	0.706	12.2	172	-0.01
61	T	o-Xylene	0.754	0.657	12.9	173	0.00
62	T	Styrene	1.364	1.224	10.3	174	0.00
63	T	Isopropylbenzene	1.899	1.765	7.1	181	0.00
64	P	Bromoform	0.384	0.302	21.4#	165	0.00
65	P	1,1,2,2-Tetrachloroethane	0.763	0.644	15.6	176	-0.01
66	S	4-Bromofluorobenzene	0.685	0.679	0.9	193	-0.01
67	T	2-Hexanone	0.402	0.415	-3.2	222#	-0.01
68	I	1,4-Dichlorobenzene-d4 (IS)	1.000	1.000	0.0	186	0.00
69	T	1,2,3-Trichloropropane	0.384	0.313	18.5	170	0.00
70	T	n-Propylbenzene	5.152	5.076	1.5	194	0.00
71	T	Bromobenzene	1.091	0.907	16.9	170	0.00
72	T	1,3,5-Trimethylbenzene	3.493	3.253	6.9	185	0.00
73	T	2-Chlorotoluene	3.662	3.373	7.9	182	-0.01
74	T	4-Chlorotoluene	3.201	3.057	4.5	191	-0.01
75	T	tert-Butylbenzene	2.632	2.479	5.8	187	0.00
76	T	1,2,4-Trimethylbenzene	3.519	3.302	6.2	186	0.00
77	T	sec-Butylbenzene	4.250	4.099	3.6	191	0.00
78	T	4-Isopropyltoluene	2.872	2.765	3.7	190	0.00
79	T	1,3-Dichlorobenzene	1.751	1.464	16.4	172	0.00
80	T	1,4-Dichlorobenzene	1.861	1.602	13.9	183	0.00
81		Dicyclopentadiene	0.418	0.444	-6.2	219#	0.00
82	T	n-Butylbenzene	2.372	2.316	2.4	196	-0.01
83	T	1,2-Dichlorobenzene	1.654	1.385	16.3	173	-0.01
84	T	1,2-Dibromo-3-chloropropane	0.230	0.178	22.6#	158	-0.01
85	T	1,2,4-Trichlorobenzene	1.413	1.160	17.9	177	0.00
86	T	Hexachlorobutadiene	0.322	0.273	15.2	185	0.00
87	T	Naphthalene	2.605	2.119	18.7	173	0.00
88	T	1,2,3-Trichlorobenzene	1.298	1.011	22.1#	173	-0.02

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032816.D
Acq On : 28 Mar 2014 18:56
Operator : JM
Sample : BLK
Misc : BLK
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 29 16:14:08 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

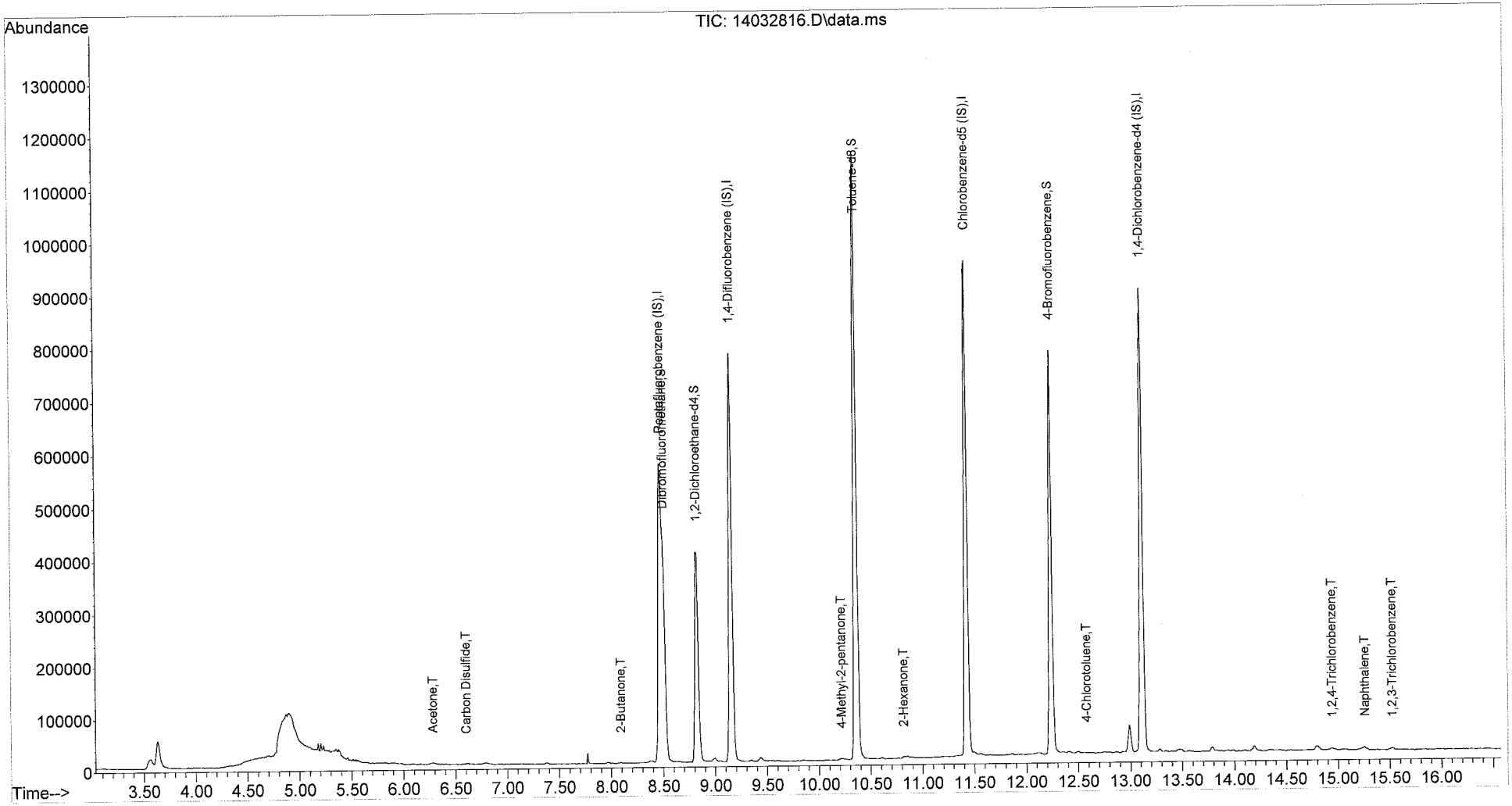
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.474	168	350094	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.153	114	606707	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.428	117	520565	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.112	152	246741	50.00 ug/L	-0.01
System Monitoring Compounds					
22) Dibromofluoromethane	8.500	113	250906	50.43 ug/L	-0.02
Spiked Amount 50.000	Range 52 - 140		Recovery = 100.86%		
45) 1,2-Dichloroethane-d4	8.818	65	321895	48.96 ug/L	-0.02
Spiked Amount 50.000	Range 54 - 133		Recovery = 97.92%		
46) Toluene-d8	10.361	98	817816	49.43 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 98.86%		
66) 4-Bromofluorobenzene	12.239	95	327888	45.97 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 91.94%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.986	85	299	Below Cal #	61
3) Chloromethane	4.347	50	871	Below Cal #	76
10) Trichlorotrifluoroethane	6.234	151	120	Below Cal #	38
24) Acetone	6.278	43	7373	1.53 ug/L #	87
25) 2-Butanone	8.086	43	3174	2.29 ug/L #	79
26) Carbon Disulfide	6.596	76	1225	0.42 ug/L #	1
39) Bromodichloromethane	9.805	83	210	Below Cal #	78
41) Dibromomethane	9.708	93	682	Below Cal #	80
44) 4-Methyl-2-pentanone	10.211	43	4253	0.74 ug/L	89
50) 1,1,2-Trichloroethane	10.687	83	566	Below Cal #	68
51) 1,3-Dichloropropane	10.810	76	754	Below Cal #	1
52) Tetrachloroethene	10.837	166	310	Below Cal #	81
58) 1,1,1,2-Tetrachloroethane	11.463	131	80	Below Cal #	1
65) 1,1,2,2-Tetrachloroethane	12.283	83	2046	Below Cal	81
67) 2-Hexanone	10.810	43	5415	2.54 ug/L	88
74) 4-Chlorotoluene	12.574	91	941	0.62 ug/L #	80
85) 1,2,4-Trichlorobenzene	14.937	180	1288	0.56 ug/L	95
87) Naphthalene	15.254	128	6097	1.15 ug/L	97
88) 1,2,3-Trichlorobenzene	15.519	180	2080	0.50 ug/L #	85

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032816.D
Acq On : 28 Mar 2014 18:56
Operator : JM
Sample : BLK
Misc : BLK
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 29 16:14:08 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032817.D
Acq On : 28 Mar 2014 20:08
Operator : JM
Sample : BKS
Misc : BKS
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 29 16:14:27 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.474	168	351835	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.153	114	614953	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.428	117	547411	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.112	152	255168	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.501	113	258036	51.61 ug/L	-0.02
Spiked Amount 50.000	Range 52 - 140		Recovery = 103.22%		
45) 1,2-Dichloroethane-d4	8.818	65	333213	50.00 ug/L	-0.01
Spiked Amount 50.000	Range 54 - 133		Recovery = 100.00%		
46) Toluene-d8	10.361	98	832967	49.67 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 99.34%		
66) 4-Bromofluorobenzene	12.239	95	366376	48.84 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 97.68%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.986	85	112608	23.01 ug/L	96
3) Chloromethane	4.339	50	140922	28.01 ug/L	98
4) Vinyl chloride	4.524	62	124874	21.20 ug/L	99
5) 1,3-Butadiene	4.586	54	55657	20.42 ug/L	93
6) Bromomethane	4.939	94	24052	15.71 ug/L #	96
7) Chloroethane	5.088	64	43385	18.35 ug/L	92
8) Trichlorofluoromethane	5.512	101	179880	20.81 ug/L	97
9) Acrolein	6.085	56	98096	129.05 ug/L	99
10) Trichlorotrifluoroethane	6.208	151	60695	19.36 ug/L	84
11) 1,1-Dichloroethene	6.235	61	169247	22.64 ug/L	92
12) Methylene chloride	6.790	84	128240	20.42 ug/L	88
13) Acrylonitrile	7.037	53	50868	23.47 ug/L	99
14) trans-1,2-Dichloroethene	7.108	61	163605	22.50 ug/L	98
15) n-Hexane	7.372	57	150734	24.71 ug/L	89
16) 1,1-Dichloroethane	7.540	63	195591	22.37 ug/L	97
17) Cyclohexane	8.668	84	150147	21.96 ug/L	89
18) 2,2-Dichloropropane	8.113	77	163863	20.83 ug/L	98
19) cis-1,2-Dichloroethene	8.095	96	123555	19.65 ug/L	86
20) Chloroform	8.351	83	207780	20.42 ug/L	97
21) Bromochloromethane	8.324	128	48528	19.08 ug/L	85
23) 1,1,1-Trichloroethane	8.580	97	160874	19.66 ug/L	96
24) Acetone	6.261	43	204324	98.57 ug/L	96
25) 2-Butanone	8.060	43	194564	69.80 ug/L	93
26) Carbon Disulfide	6.587	76	376375	21.80 ug/L	98
27) Iodomethane	6.464	142	121017	18.84 ug/L	95
28) Vinyl acetate	7.513	43	682685	27.28 ug/L	98
29) Methyl tert-butyl ether	7.081	73	272865	21.62 ug/L	96
31) 1,1-Dichloropropene	8.712	75	145753	20.19 ug/L	94
32) Carbon tetrachloride	8.748	117	111433	17.57 ug/L	99
33) 1,2-Dichloroethane	8.889	62	160964	20.84 ug/L	99
34) Benzene	8.906	78	396998	19.14 ug/L	97
35) 2,2,4-Trimethylpentane	8.933	57	410712	23.08 ug/L	97
36) n-Heptane	9.047	57	91397	23.04 ug/L	88
37) Trichloroethene	9.418	95	112080	18.52 ug/L	96

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032817.D
Acq On : 28 Mar 2014 20:08
Operator : JM
Sample : BKS
Misc : BKS
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 29 16:14:27 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

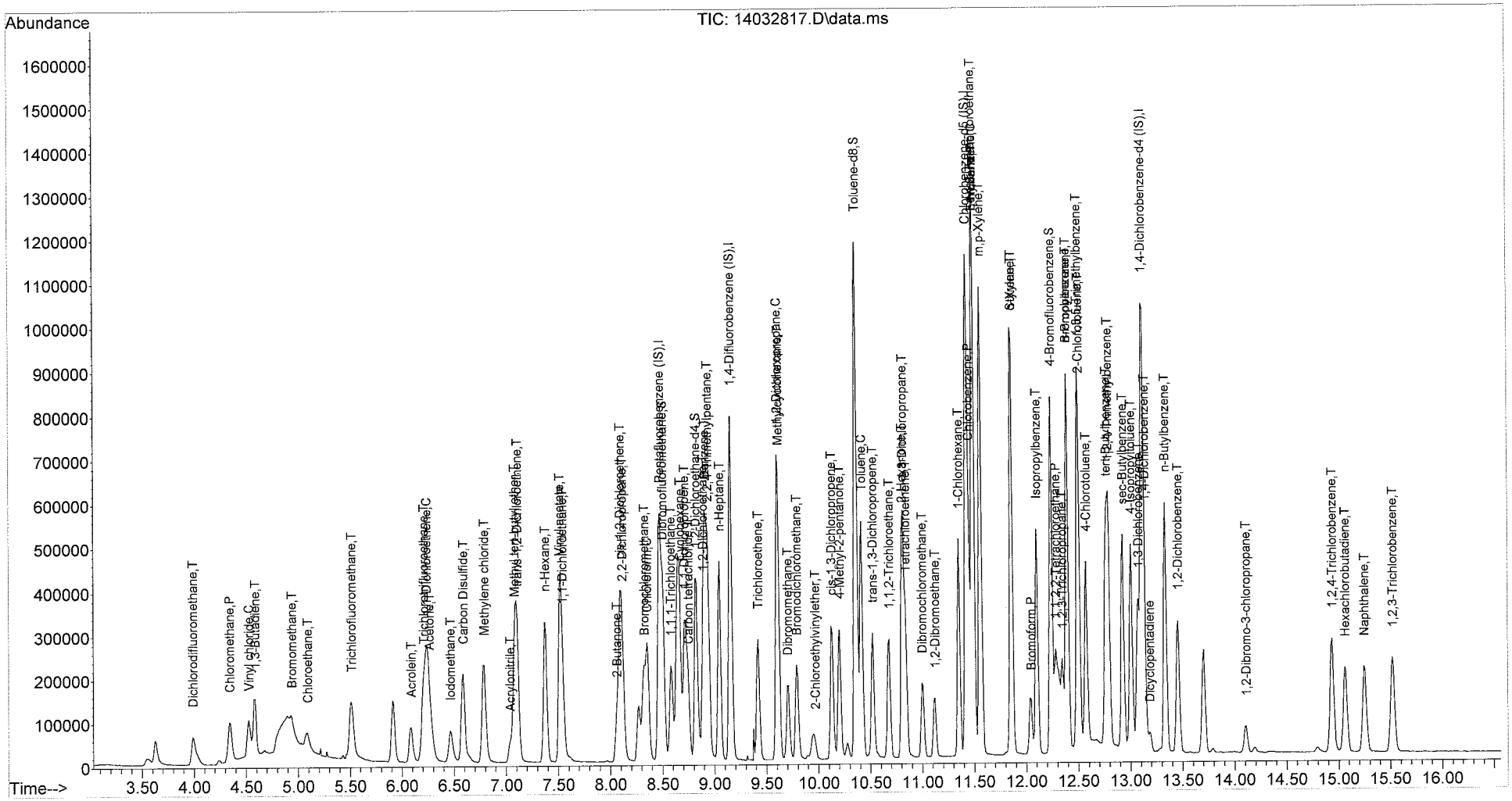
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.603	63	108953	22.18 ug/L	95
39) Bromodichloromethane	9.788	83	152285	19.91 ug/L	98
40) Methylcyclohexane	9.612	56	48778	22.54 ug/L	89
41) Dibromomethane	9.700	93	86804	19.43 ug/L	95
42) cis-1,3-Dichloropropene	10.123	75	181095	19.73 ug/L	94
43) 2-Chloroethylvinylether	9.964	63	14846	28.94 ug/L	97
44) 4-Methyl-2-pentanone	10.203	43	266533	45.51 ug/L	97
48) Toluene	10.414	92	246732	17.48 ug/L	96
49) trans-1,3-Dichloropropene	10.520	75	156417	20.55 ug/L	93
50) 1,1,2-Trichloroethane	10.679	83	87453	19.73 ug/L	98
51) 1,3-Dichloropropane	10.811	76	171267	20.60 ug/L	91
52) Tetrachloroethene	10.837	166	89247	17.30 ug/L	92
53) Dibromochloromethane	10.996	129	88298	18.23 ug/L	97
54) 1,2-Dibromoethane	11.120	107	105002	17.21 ug/L	99
55) 1-Chlorohexane	11.349	91	161995	19.04 ug/L #	84
56) Chlorobenzene	11.446	112	217570	18.45 ug/L	93
57) n-Nonane	11.490	57	190072	23.28 ug/L	98
58) 1,1,1,2-Tetrachloroethane	11.481	131	72890	18.66 ug/L	98
59) Ethylbenzene	11.490	91	479046	18.63 ug/L	98
60) m,p-Xylene	11.560	106	302069	34.31 ug/L #	86
61) o-Xylene	11.860	106	140628	17.02 ug/L	90
62) Styrene	11.860	104	263607	17.66 ug/L	95
63) Isopropylbenzene	12.098	105	371058	18.68 ug/L	95
64) Bromoform	12.045	173	64085	16.71 ug/L	99
65) 1,1,2,2-Tetrachloroethane	12.283	83	140001	19.30 ug/L	97
67) 2-Hexanone	10.802	43	217677	54.53 ug/L	96
69) 1,2,3-Trichloropropane	12.345	110	33424	18.79 ug/L	85
70) n-Propylbenzene	12.389	91	509472	19.38 ug/L	95
71) Bromobenzene	12.389	156	92120	18.31 ug/L #	75
72) 1,3,5-Trimethylbenzene	12.495	105	332916	18.67 ug/L	98
73) 2-Chlorotoluene	12.504	91	345251	19.77 ug/L	97
74) 4-Chlorotoluene	12.574	91	308111	19.83 ug/L	96
75) tert-Butylbenzene	12.768	119	248686	18.51 ug/L	97
76) 1,2,4-Trimethylbenzene	12.786	105	333060	18.55 ug/L	96
77) sec-Butylbenzene	12.927	105	411330	18.96 ug/L	99
78) 4-Isopropyltoluene	13.006	119	277721	18.95 ug/L	94
79) 1,3-Dichlorobenzene	13.077	146	149028	18.59 ug/L	97
80) 1,4-Dichlorobenzene	13.139	146	160154	18.59 ug/L	99
81) Dicyclopentadiene	13.183	66	46523	22.65 ug/L #	97
82) n-Butylbenzene	13.333	92	238104	19.67 ug/L	96
83) 1,2-Dichlorobenzene	13.456	146	140573	18.50 ug/L	94
84) 1,2-Dibromo-3-chloropr...	14.109	157	18387	16.90 ug/L	90
85) 1,2,4-Trichlorobenzene	14.937	180	115554	17.38 ug/L	98
86) Hexachlorobutadiene	15.061	190	27516	18.58 ug/L	93
87) Naphthalene	15.246	128	219313	17.33 ug/L	99
88) 1,2,3-Trichlorobenzene	15.519	180	104274	17.29 ug/L	97

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032817.D
Acq On : 28 Mar 2014 20:08
Operator : JM
Sample : BKS
Misc : BKS
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 29 16:14:27 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032818.D
Acq On : 28 Mar 2014 20:34
Operator : JM
Sample : BSD
Misc : BSD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 29 16:14:35 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.466	168	364001	50.00 ug/L	-0.01
30) 1,4-Difluorobenzene (IS)	9.153	114	627482	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.419	117	554832	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.112	152	256532	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.501	113	265776	51.38 ug/L	-0.02
Spiked Amount 50.000	Range 52 - 140		Recovery = 102.76%		
45) 1,2-Dichloroethane-d4	8.818	65	341535	50.22 ug/L	-0.01
Spiked Amount 50.000	Range 54 - 133		Recovery = 100.44%		
46) Toluene-d8	10.352	98	851008	49.73 ug/L	-0.02
Spiked Amount 50.000	Range 63 - 126		Recovery = 99.46%		
66) 4-Bromofluorobenzene	12.239	95	366782	48.24 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 96.48%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.986	85	112619	22.21 ug/L	98
3) Chloromethane	4.357	50	154096	29.63 ug/L	99
4) Vinyl chloride	4.524	62	142458	23.38 ug/L	99
5) 1,3-Butadiene	4.586	54	66578	23.61 ug/L	97
6) Bromomethane	4.939	94	20363	12.86 ug/L #	94
7) Chloroethane	5.088	64	40510	16.56 ug/L	93
8) Trichlorofluoromethane	5.521	101	185510	20.74 ug/L	94
9) Acrolein	6.076	56	100220	127.43 ug/L	98
10) Trichlorotrifluoroethane	6.208	151	63027	19.43 ug/L	83
11) 1,1-Dichloroethene	6.235	61	178135	23.03 ug/L	90
12) Methylene chloride	6.781	84	133078	20.48 ug/L	84
13) Acrylonitrile	7.028	53	53672	23.94 ug/L	98
14) trans-1,2-Dichloroethene	7.108	61	173946	23.12 ug/L	97
15) n-Hexane	7.372	57	160823	25.49 ug/L	94
16) 1,1-Dichloroethane	7.540	63	201282	22.25 ug/L	96
17) Cyclohexane	8.660	84	154923	21.90 ug/L #	71
18) 2,2-Dichloropropane	8.113	77	169782	20.86 ug/L	99
19) cis-1,2-Dichloroethene	8.086	96	127728	19.63 ug/L	88
20) Chloroform	8.351	83	217192	20.64 ug/L	97
21) Bromochloromethane	8.316	128	50027	19.01 ug/L	80
23) 1,1,1-Trichloroethane	8.580	97	167915	19.83 ug/L	97
24) Acetone	6.261	43	140095	64.61 ug/L	97
25) 2-Butanone	8.060	43	157793	54.97 ug/L	95
26) Carbon Disulfide	6.579	76	398665	22.31 ug/L	98
27) Iodomethane	6.464	142	133353	20.06 ug/L	95
28) Vinyl acetate	7.513	43	710034	27.43 ug/L	98
29) Methyl tert-butyl ether	7.081	73	283352	21.70 ug/L	96
31) 1,1-Dichloropropene	8.712	75	153279	20.81 ug/L	97
32) Carbon tetrachloride	8.739	117	117934	18.23 ug/L	98
33) 1,2-Dichloroethane	8.889	62	165169	20.96 ug/L	99
34) Benzene	8.906	78	411496	19.44 ug/L	97
35) 2,2,4-Trimethylpentane	8.933	57	432510	23.81 ug/L	96
36) n-Heptane	9.039	57	97247	24.02 ug/L	88
37) Trichloroethene	9.409	95	115858	18.77 ug/L	93

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032818.D
Acq On : 28 Mar 2014 20:34
Operator : JM
Sample : BSD
Misc : BSD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 29 16:14:35 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

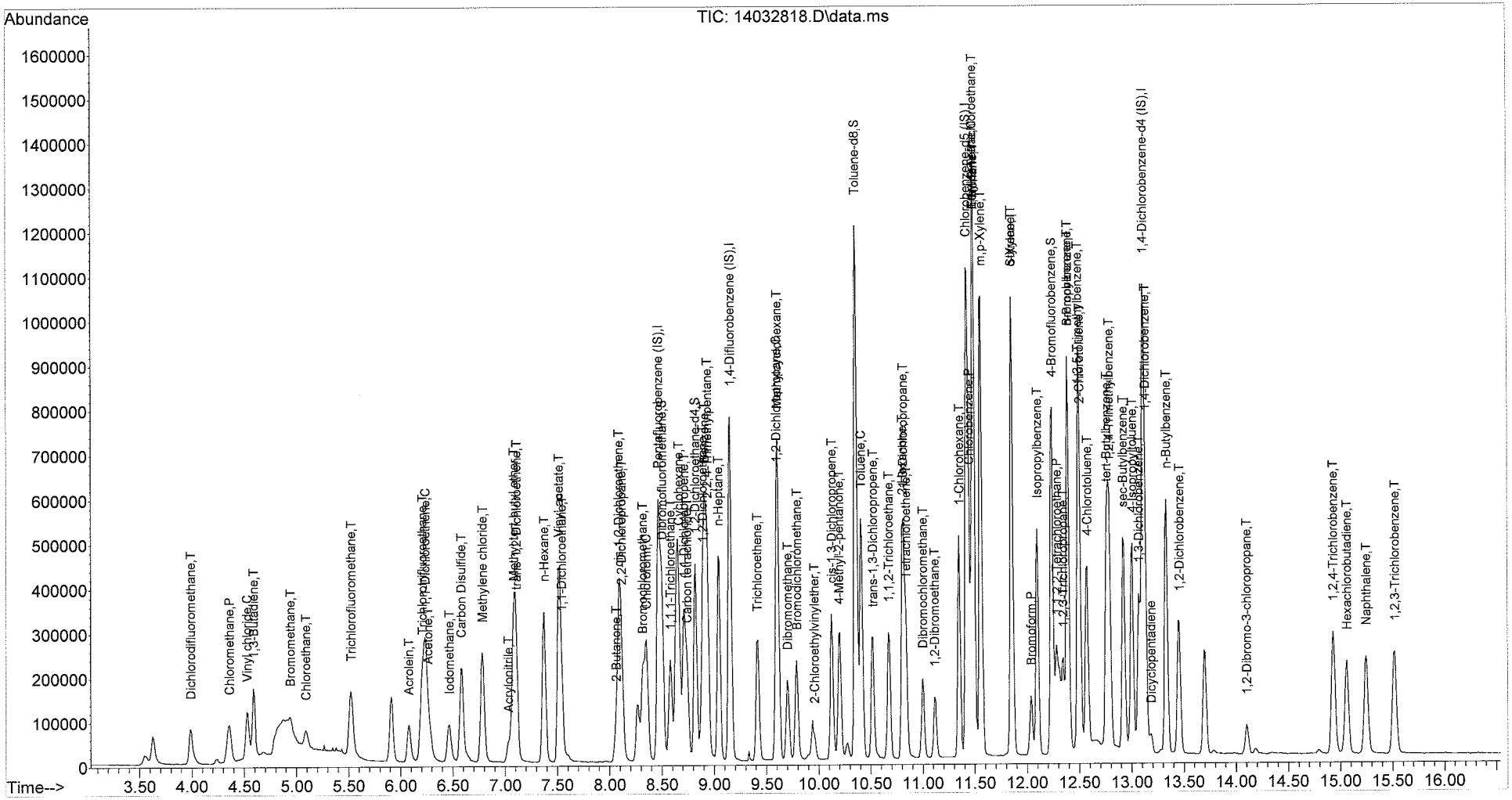
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.594	63	111399	22.23 ug/L	92
39) Bromodichloromethane	9.788	83	155074	19.87 ug/L	99
40) Methylcyclohexane	9.603	56	49821	22.56 ug/L	89
41) Dibromomethane	9.700	93	86843	19.04 ug/L	96
42) cis-1,3-Dichloropropene	10.123	75	187304	20.00 ug/L	96
43) 2-Chloroethylvinylether	9.956	63	16654	31.46 ug/L	94
44) 4-Methyl-2-pentanone	10.194	43	266924	44.67 ug/L	95
48) Toluene	10.405	92	253977	17.75 ug/L	97
49) trans-1,3-Dichloropropene	10.520	75	157181	20.37 ug/L	95
50) 1,1,2-Trichloroethane	10.670	83	90095	20.06 ug/L	97
51) 1,3-Dichloropropane	10.811	76	173851	20.63 ug/L	95
52) Tetrachloroethene	10.837	166	90097	17.23 ug/L	94
53) Dibromochloromethane	10.996	129	90271	18.38 ug/L	98
54) 1,2-Dibromoethane	11.111	107	106547	17.23 ug/L	100
55) 1-Chlorohexane	11.349	91	166974	19.36 ug/L	91
56) Chlorobenzene	11.446	112	218821	18.31 ug/L	96
57) n-Nonane	11.490	57	196089	23.70 ug/L	97
58) 1,1,1,2-Tetrachloroethane	11.481	131	74476	18.81 ug/L	99
59) Ethylbenzene	11.481	91	482737	18.52 ug/L	97
60) m,p-Xylene	11.560	106	308882	34.62 ug/L #	89
61) o-Xylene	11.851	106	141376	16.89 ug/L #	85
62) Styrene	11.851	104	265208	17.53 ug/L #	91
63) Isopropylbenzene	12.098	105	377221	18.74 ug/L	95
64) Bromoform	12.037	173	66219	17.03 ug/L	100
65) 1,1,2,2-Tetrachloroethane	12.283	83	147809	20.12 ug/L	98
67) 2-Hexanone	10.802	43	194399	48.18 ug/L	94
69) 1,2,3-Trichloropropane	12.345	110	35134	19.63 ug/L	91
70) n-Propylbenzene	12.389	91	514832	19.48 ug/L	97
71) Bromobenzene	12.389	156	92639	18.32 ug/L #	78
72) 1,3,5-Trimethylbenzene	12.486	105	336673	18.79 ug/L	96
73) 2-Chlorotoluene	12.504	91	353999	20.17 ug/L	97
74) 4-Chlorotoluene	12.574	91	309060	19.79 ug/L	97
75) tert-Butylbenzene	12.760	119	255166	18.90 ug/L	99
76) 1,2,4-Trimethylbenzene	12.786	105	339388	18.80 ug/L	97
77) sec-Butylbenzene	12.918	105	417555	19.15 ug/L	97
78) 4-Isopropyltoluene	13.006	119	283261	19.22 ug/L	95
79) 1,3-Dichlorobenzene	13.068	146	153594	19.06 ug/L	96
80) 1,4-Dichlorobenzene	13.130	146	160524	18.54 ug/L	95
81) Dicyclopentadiene	13.183	66	45273	21.95 ug/L #	96
82) n-Butylbenzene	13.333	92	244367	20.08 ug/L	95
83) 1,2-Dichlorobenzene	13.456	146	143018	18.72 ug/L	96
84) 1,2-Dibromo-3-chloropr...	14.100	157	19957	18.15 ug/L #	88
85) 1,2,4-Trichlorobenzene	14.929	180	123402	18.43 ug/L	97
86) Hexachlorobutadiene	15.061	190	29024	19.50 ug/L	94
87) Naphthalene	15.246	128	245735	19.24 ug/L	100
88) 1,2,3-Trichlorobenzene	15.519	180	113686	18.74 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032818.D
Acq On : 28 Mar 2014 20:34
Operator : JM
Sample : BSD
Misc : BSD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 29 16:14:35 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032831.D
Acq On : 29 Mar 2014 2:11
Operator : JM
Sample : 481685-004 S
Misc : MS
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 29 16:29:34 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.463	168	324151	50.00 ug/L	-0.02
30) 1,4-Difluorobenzene (IS)	9.150	114	572029	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.417	117	515956	50.00 ug/L	-0.01
68) 1,4-Dichlorobenzene-d4...	13.109	152	238042	50.00 ug/L	-0.01
System Monitoring Compounds					
22) Dibromofluoromethane	8.498	113	249073	54.07 ug/L	-0.02
Spiked Amount 50.000	Range 52 - 140		Recovery = 108.14%		
45) 1,2-Dichloroethane-d4	8.815	65	327480	52.82 ug/L	-0.02
Spiked Amount 50.000	Range 54 - 133		Recovery = 105.64%		
46) Toluene-d8	10.350	98	786258	50.40 ug/L	-0.02
Spiked Amount 50.000	Range 63 - 126		Recovery = 100.80%		
66) 4-Bromofluorobenzene	12.237	95	349683	49.46 ug/L	-0.01
Spiked Amount 50.000	Range 62 - 123		Recovery = 98.92%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.984	85	102225	22.66 ug/L	99
3) Chloromethane	4.354	50	136904	29.56 ug/L	97
4) Vinyl chloride	4.521	62	121504	22.39 ug/L	99
5) 1,3-Butadiene	4.583	54	54468	21.69 ug/L	92
6) Bromomethane	4.936	94	16481	11.68 ug/L #	98
7) Chloroethane	5.077	64	36400	16.71 ug/L	89
8) Trichlorofluoromethane	5.509	101	165431	20.77 ug/L	92
9) Acrolein	6.073	56	98681	140.90 ug/L	98
10) Trichlorotrifluoroethane	6.205	151	56714	19.63 ug/L #	86
11) 1,1-Dichloroethene	6.232	61	157672	22.89 ug/L	93
12) Methylene chloride	6.779	84	125690	21.72 ug/L	89
13) Acrylonitrile	7.034	53	53650	26.87 ug/L	97
14) trans-1,2-Dichloroethene	7.096	61	156694	23.39 ug/L	95
15) n-Hexane	7.369	57	143215	25.49 ug/L	95
16) 1,1-Dichloroethane	7.528	63	187760	23.31 ug/L	96
17) Cyclohexane	8.657	84	139558	22.15 ug/L #	67
18) 2,2-Dichloropropane	8.110	77	146847	20.26 ug/L	99
19) cis-1,2-Dichloroethene	8.084	96	117822	20.34 ug/L	87
20) Chloroform	8.348	83	200777	21.42 ug/L	97
21) Bromochloromethane	8.313	128	48007	20.49 ug/L	82
23) 1,1,1-Trichloroethane	8.577	97	154253	20.46 ug/L	98
24) Acetone	6.258	43	122539	63.42 ug/L	99
25) 2-Butanone	8.057	43	151864	59.32 ug/L	95
26) Carbon Disulfide	6.576	76	350276	22.02 ug/L	97
27) Iodomethane	6.461	142	128584	21.72 ug/L	98
28) Vinyl acetate	7.510	43	612560	26.57 ug/L	98
29) Methyl tert-butyl ether	7.078	73	272948	23.48 ug/L	93
31) 1,1-Dichloropropene	8.710	75	137356	20.45 ug/L	96
32) Carbon tetrachloride	8.736	117	104860	17.78 ug/L	99
33) 1,2-Dichloroethane	8.886	62	158371	22.11 ug/L	98
34) Benzene	8.904	78	379013	19.64 ug/L	96
35) 2,2,4-Trimethylpentane	8.930	57	414490	25.03 ug/L	98
36) n-Heptane	9.036	57	89338	24.21 ug/L #	89
37) Trichloroethene	9.406	95	105309	18.71 ug/L	92

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032831.D
Acq On : 29 Mar 2014 2:11
Operator : JM
Sample : 481685-004 S
Misc : MS
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 29 16:29:34 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

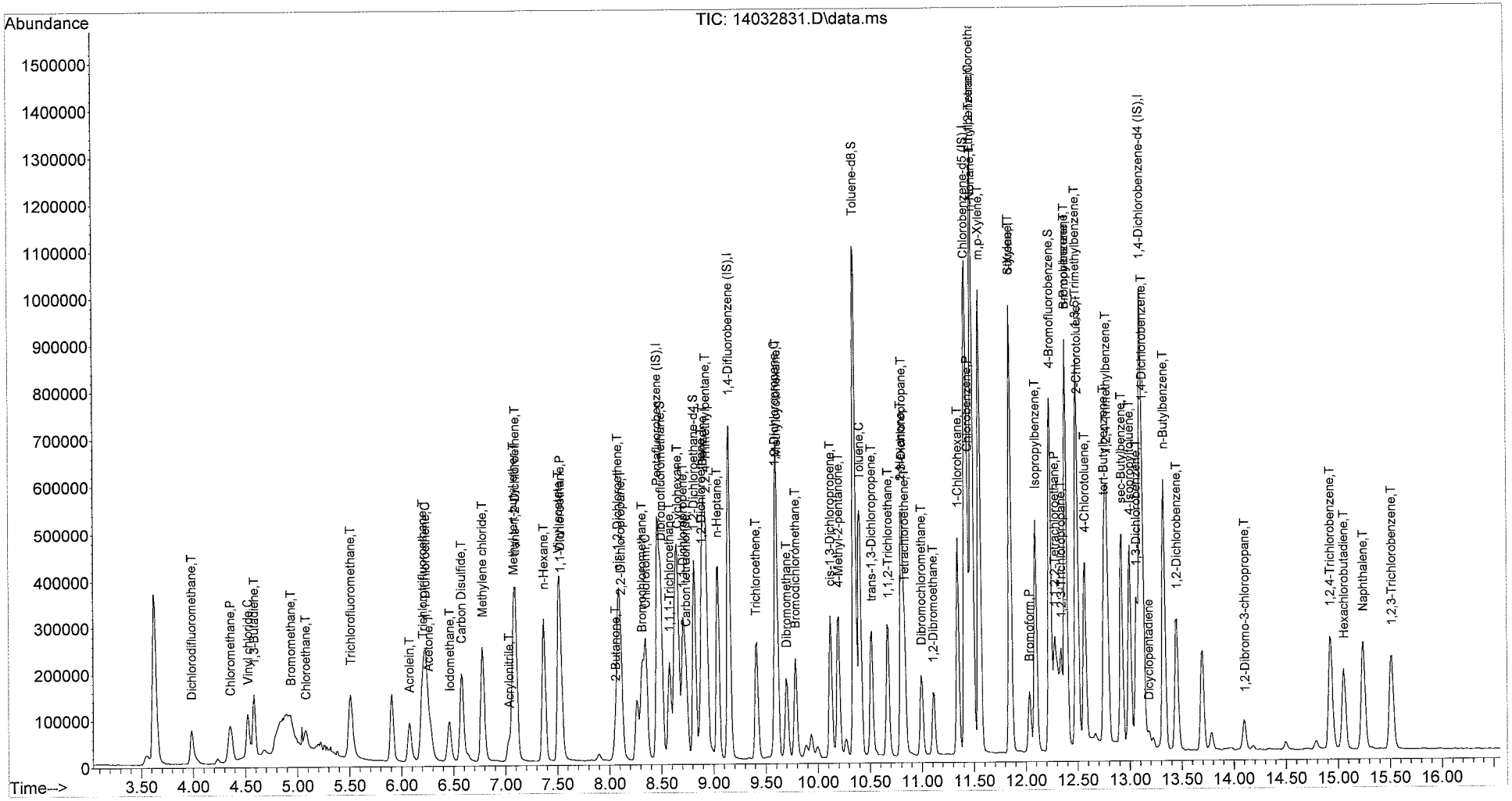
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.591	63	106177	23.25 ug/L	92
39) Bromodichloromethane	9.785	83	149170	20.99 ug/L	99
40) Methylcyclohexane	9.609	56	50508	25.09 ug/L	88
41) Dibromomethane	9.697	93	85229	20.55 ug/L	96
42) cis-1,3-Dichloropropene	10.120	75	175030	20.50 ug/L	95
44) 4-Methyl-2-pentanone	10.200	43	277239	50.89 ug/L	97
48) Toluene	10.403	92	252714	18.99 ug/L	93
49) trans-1,3-Dichloropropene	10.517	75	150137	20.93 ug/L	94
50) 1,1,2-Trichloroethane	10.676	83	90290	21.64 ug/L	97
51) 1,3-Dichloropropane	10.808	76	170358	21.76 ug/L	95
52) Tetrachloroethene	10.835	166	82427	16.94 ug/L	93
53) Dibromochloromethane	10.993	129	87721	19.21 ug/L	98
54) 1,2-Dibromoethane	11.108	107	106005	18.43 ug/L	99
55) 1-Chlorohexane	11.346	91	152202	18.98 ug/L #	89
56) Chlorobenzene	11.443	112	208410	18.75 ug/L	94
57) n-Nonane	11.487	57	159731	20.76 ug/L	96
58) 1,1,1,2-Tetrachloroethane	11.478	131	71341	19.39 ug/L	99
59) Ethylbenzene	11.478	91	508958	21.00 ug/L	97
60) m,p-Xylene	11.558	106	285010	34.35 ug/L #	85
61) o-Xylene	11.849	106	135033	17.34 ug/L #	87
62) Styrene	11.849	104	249458	17.73 ug/L #	90
63) Isopropylbenzene	12.095	105	361739	19.32 ug/L	95
64) Bromoform	12.034	173	64487	17.82 ug/L	98
65) 1,1,2,2-Tetrachloroethane	12.281	83	145331	21.29 ug/L	95
67) 2-Hexanone	10.799	43	197461	52.53 ug/L	93
69) 1,2,3-Trichloropropane	12.342	110	33550	20.19 ug/L	88
70) n-Propylbenzene	12.386	91	520334	21.21 ug/L	97
71) Bromobenzene	12.386	156	87642	18.68 ug/L #	76
72) 1,3,5-Trimethylbenzene	12.492	105	310342	18.66 ug/L	97
73) 2-Chlorotoluene	12.501	91	329674	20.24 ug/L	98
74) 4-Chlorotoluene	12.572	91	288925	19.93 ug/L	97
75) tert-Butylbenzene	12.757	119	234634	18.73 ug/L	99
76) 1,2,4-Trimethylbenzene	12.783	105	313698	18.72 ug/L	98
77) sec-Butylbenzene	12.924	105	389748	19.26 ug/L	98
78) 4-Isopropyltoluene	13.004	119	258707	18.92 ug/L	95
79) 1,3-Dichlorobenzene	13.065	146	143032	19.13 ug/L	96
80) 1,4-Dichlorobenzene	13.127	146	150875	18.77 ug/L	96
81) Dicyclopentadiene	13.180	66	42444	22.17 ug/L	95
82) n-Butylbenzene	13.330	92	220987	19.57 ug/L	96
83) 1,2-Dichlorobenzene	13.453	146	134801	19.01 ug/L	94
84) 1,2-Dibromo-3-chloropr...	14.106	157	19719	19.25 ug/L #	91
85) 1,2,4-Trichlorobenzene	14.926	180	109278	17.61 ug/L	95
86) Hexachlorobutadiene	15.058	190	24070	17.42 ug/L	89
87) Naphthalene	15.243	128	259144	21.77 ug/L	100
88) 1,2,3-Trichlorobenzene	15.517	180	98750	17.55 ug/L	97

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032831.D
Acq On : 29 Mar 2014 2:11
Operator : JM
Sample : 481685-004 S
Misc : MS
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 29 16:29:34 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032832.D
Acq On : 29 Mar 2014 2:37
Operator : JM
Sample : 481685-004 SD
Misc : MSD
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 29 16:29:42 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.466	168	329401	50.00 ug/L	-0.01
30) 1,4-Difluorobenzene (IS)	9.153	114	589718	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.419	117	536755	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.112	152	240867	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.501	113	249790	53.36 ug/L	-0.02
Spiked Amount 50.000	Range 52 - 140		Recovery = 106.72%		
45) 1,2-Dichloroethane-d4	8.818	65	329852	51.61 ug/L	-0.01
Spiked Amount 50.000	Range 54 - 133		Recovery = 103.22%		
46) Toluene-d8	10.352	98	781921	48.62 ug/L	-0.02
Spiked Amount 50.000	Range 63 - 126		Recovery = 97.24%		
66) 4-Bromofluorobenzene	12.231	95	350744	47.69 ug/L	-0.02
Spiked Amount 50.000	Range 62 - 123		Recovery = 95.38%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.986	85	103989	22.68 ug/L	98
3) Chloromethane	4.357	50	143532	30.51 ug/L	99
4) Vinyl chloride	4.524	62	125298	22.72 ug/L	98
5) 1,3-Butadiene	4.586	54	56271	22.05 ug/L	91
6) Bromomethane	4.939	94	18324	12.78 ug/L #	94
7) Chloroethane	5.080	64	36964	16.70 ug/L	92
8) Trichlorofluoromethane	5.521	101	172315	21.29 ug/L	99
9) Acrolein	6.076	56	97212	136.59 ug/L	97
10) Trichlorotrifluoroethane	6.208	151	58900	20.07 ug/L #	82
11) 1,1-Dichloroethene	6.235	61	162833	23.27 ug/L	92
12) Methylene chloride	6.781	84	129865	22.09 ug/L	86
13) Acrylonitrile	7.028	53	57363	28.27 ug/L	98
14) trans-1,2-Dichloroethene	7.099	61	170740	25.08 ug/L	95
15) n-Hexane	7.372	57	147721	25.87 ug/L	94
16) 1,1-Dichloroethane	7.531	63	192801	23.56 ug/L	96
17) Cyclohexane	8.660	84	141691	22.13 ug/L #	75
18) 2,2-Dichloropropane	8.113	77	151112	20.52 ug/L	100
19) cis-1,2-Dichloroethene	8.086	96	122025	20.73 ug/L	88
20) Chloroform	8.351	83	206174	21.65 ug/L	98
21) Bromochloromethane	8.316	128	49239	20.68 ug/L	82
23) 1,1,1-Trichloroethane	8.580	97	158005	20.62 ug/L	97
24) Acetone	6.261	43	122342	62.27 ug/L	98
25) 2-Butanone	8.060	43	160089	61.49 ug/L	94
26) Carbon Disulfide	6.579	76	364175	22.52 ug/L	98
27) Iodomethane	6.455	142	131674	21.89 ug/L	95
28) Vinyl acetate	7.513	43	628529	26.83 ug/L	98
29) Methyl tert-butyl ether	7.081	73	290606	24.60 ug/L	94
31) 1,1-Dichloropropene	8.712	75	141399	20.42 ug/L	99
32) Carbon tetrachloride	8.739	117	108812	17.90 ug/L	99
33) 1,2-Dichloroethane	8.880	62	161748	21.89 ug/L	99
34) Benzene	8.906	78	397490	19.98 ug/L	98
35) 2,2,4-Trimethylpentane	8.933	57	429227	25.15 ug/L	98
36) n-Heptane	9.039	57	89348	23.49 ug/L	90
37) Trichloroethene	9.409	95	110492	19.04 ug/L	94

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032832.D
Acq On : 29 Mar 2014 2:37
Operator : JM
Sample : 481685-004 SD
Misc : MSD
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 29 16:29:42 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

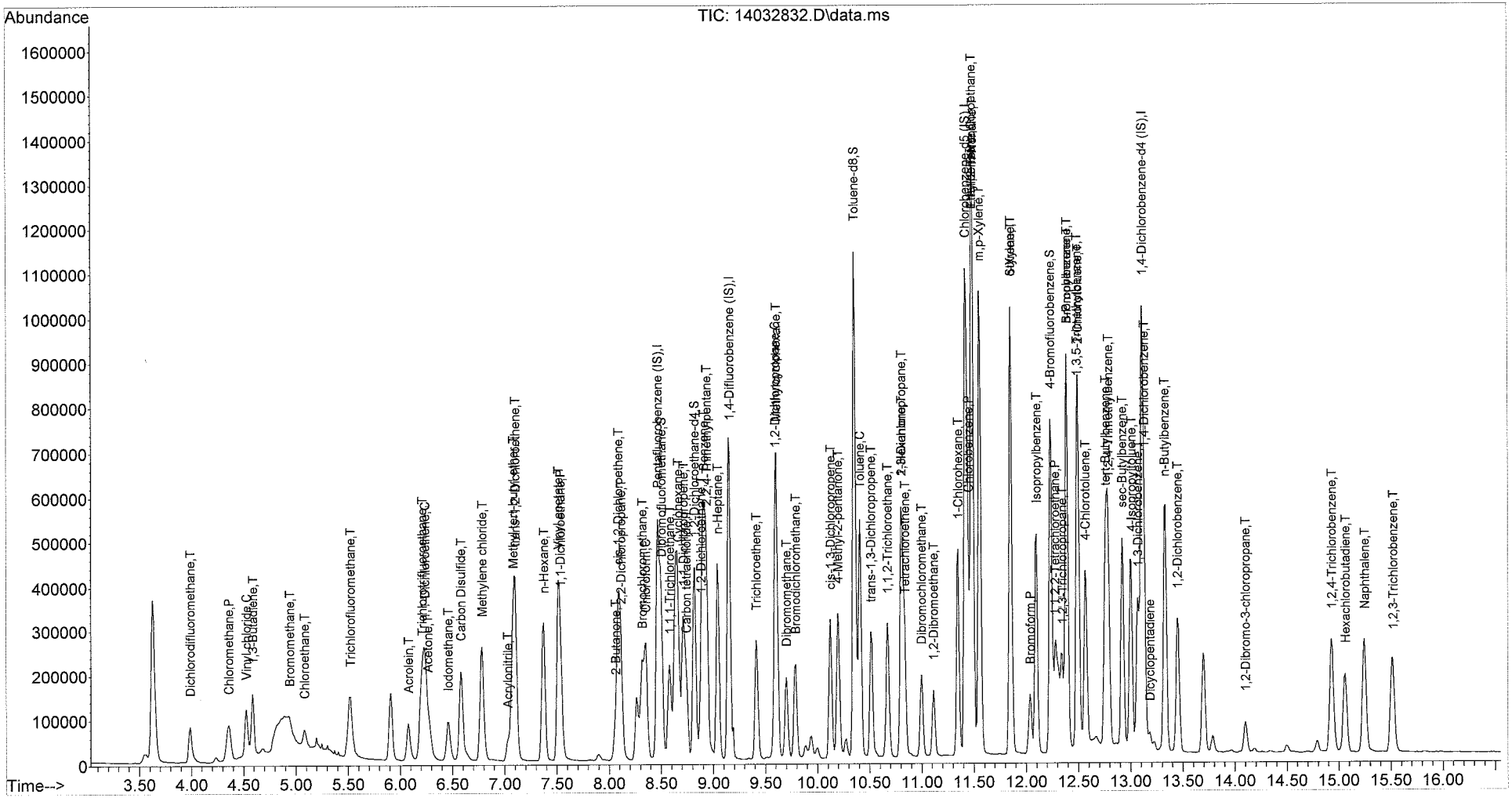
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.594	63	110185	23.40 ug/L	93
39) Bromodichloromethane	9.788	83	152209	20.77 ug/L	99
40) Methylcyclohexane	9.603	56	50797	24.48 ug/L	86
41) Dibromomethane	9.700	93	89026	20.83 ug/L	96
42) cis-1,3-Dichloropropene	10.123	75	181352	20.61 ug/L	98
44) 4-Methyl-2-pentanone	10.194	43	289531	51.55 ug/L	95
48) Toluene	10.405	92	245082	17.71 ug/L	96
49) trans-1,3-Dichloropropene	10.511	75	155999	20.90 ug/L	90
50) 1,1,2-Trichloroethane	10.670	83	90968	20.95 ug/L	97
51) 1,3-Dichloropropane	10.802	76	176965	21.73 ug/L	90
52) Tetrachloroethene	10.837	166	86130	17.01 ug/L	94
53) Dibromochloromethane	10.996	129	90511	19.05 ug/L	98
54) 1,2-Dibromoethane	11.111	107	110211	18.42 ug/L	99
55) 1-Chlorohexane	11.349	91	157775	18.91 ug/L #	88
56) Chlorobenzene	11.446	112	214358	18.54 ug/L	95
57) n-Nonane	11.490	57	171780	21.46 ug/L	98
58) 1,1,1,2-Tetrachloroethane	11.481	131	72097	18.82 ug/L	99
59) Ethylbenzene	11.481	91	517365	20.52 ug/L	97
60) m,p-Xylene	11.552	106	295010	34.18 ug/L #	84
61) o-Xylene	11.851	106	138862	17.14 ug/L #	86
62) Styrene	11.851	104	257787	17.61 ug/L	91
63) Isopropylbenzene	12.098	105	373421	19.17 ug/L	96
64) Bromoform	12.037	173	65300	17.35 ug/L	99
65) 1,1,2,2-Tetrachloroethane	12.275	83	151330	21.31 ug/L	94
67) 2-Hexanone	10.802	43	202238	51.73 ug/L	97
69) 1,2,3-Trichloropropane	12.345	110	35110	20.86 ug/L	93
70) n-Propylbenzene	12.389	91	540731	21.79 ug/L	98
71) Bromobenzene	12.389	156	90247	19.00 ug/L #	82
72) 1,3,5-Trimethylbenzene	12.486	105	319348	18.98 ug/L	97
73) 2-Chlorotoluene	12.495	91	335474	20.35 ug/L	95
74) 4-Chlorotoluene	12.566	91	295310	20.13 ug/L	95
75) tert-Butylbenzene	12.760	119	239710	18.91 ug/L	99
76) 1,2,4-Trimethylbenzene	12.786	105	321312	18.95 ug/L	97
77) sec-Butylbenzene	12.918	105	400676	19.57 ug/L	98
78) 4-Isopropyltoluene	13.006	119	266814	19.29 ug/L	96
79) 1,3-Dichlorobenzene	13.068	146	149385	19.74 ug/L	97
80) 1,4-Dichlorobenzene	13.130	146	153422	18.86 ug/L	98
81) Dicyclopentadiene	13.183	66	44275	22.83 ug/L #	96
82) n-Butylbenzene	13.324	92	225730	19.75 ug/L	95
83) 1,2-Dichlorobenzene	13.447	146	140133	19.52 ug/L	92
84) 1,2-Dibromo-3-chloropr...	14.100	157	20377	19.63 ug/L #	87
85) 1,2,4-Trichlorobenzene	14.929	180	112734	17.95 ug/L	96
86) Hexachlorobutadiene	15.061	190	25349	18.13 ug/L	95
87) Naphthalene	15.246	128	282586	23.41 ug/L	99
88) 1,2,3-Trichlorobenzene	15.519	180	103224	18.13 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032832.D
Acq On : 29 Mar 2014 2:37
Operator : JM
Sample : 481685-004 SD
Misc : MSD
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 29 16:29:42 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032836.D
Acq On : 29 Mar 2014 4:21
Operator : JM
Sample : 481853-001
Misc : SMP
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 16:33:39 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

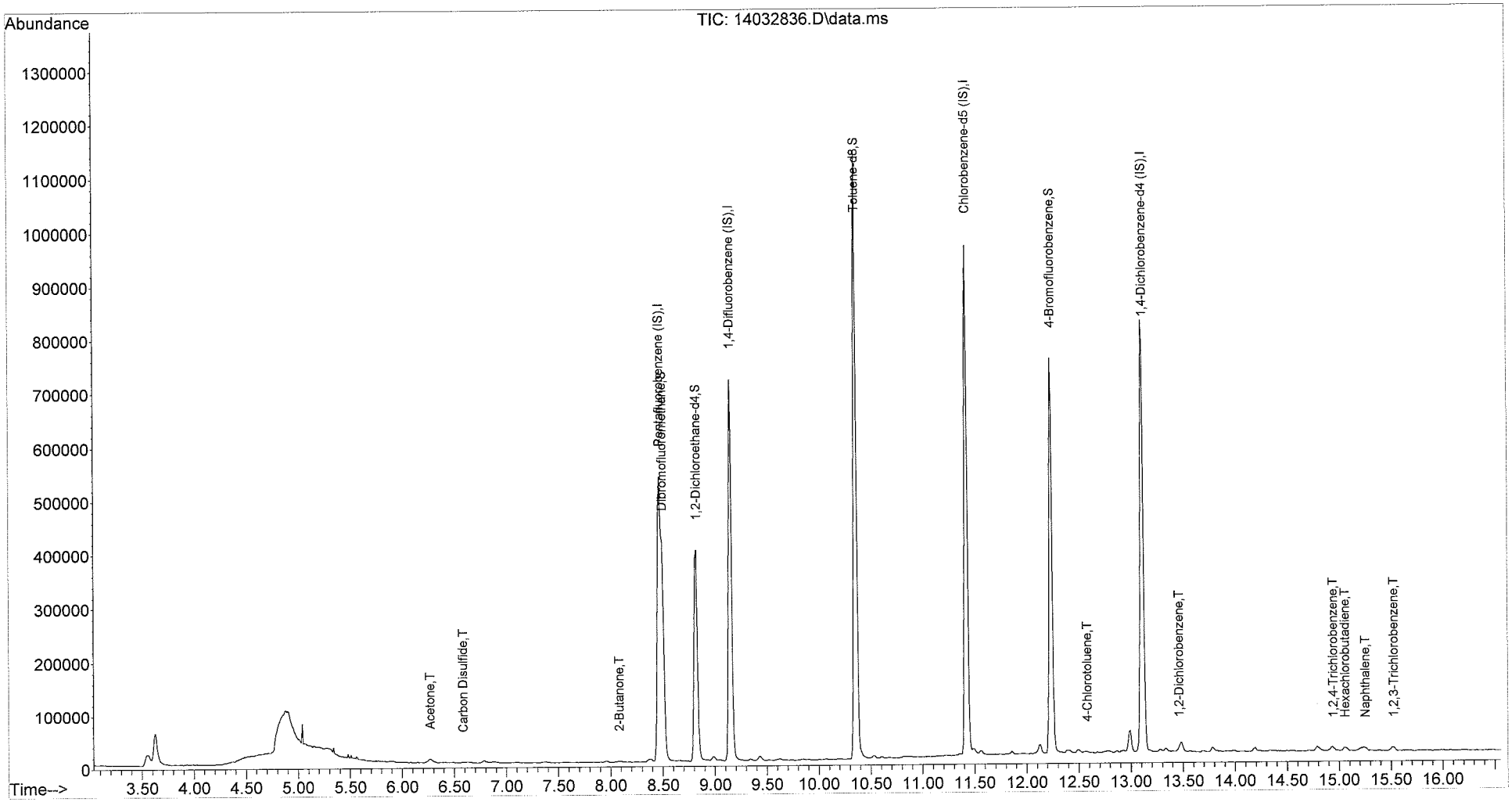
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.468	168	321432	50.00 ug/L	-0.01
30) 1,4-Difluorobenzene (IS)	9.147	114	568881	50.00 ug/L	-0.01
47) Chlorobenzene-d5 (IS)	11.422	117	504019	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.115	152	235018	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.494	113	239904	52.52 ug/L	-0.02
Spiked Amount 50.000	Range 52 - 140		Recovery = 105.04%		
45) 1,2-Dichloroethane-d4	8.821	65	307574	49.89 ug/L	-0.01
Spiked Amount 50.000	Range 54 - 133		Recovery = 99.78%		
46) Toluene-d8	10.355	98	778018	50.15 ug/L	-0.01
Spiked Amount 50.000	Range 63 - 126		Recovery = 100.30%		
66) 4-Bromofluorobenzene	12.233	95	323399	46.83 ug/L	-0.02
Spiked Amount 50.000	Range 62 - 123		Recovery = 93.66%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.980	85	540	Below Cal #	80
10) Trichlorotrifluoroethane	6.211	151	155	Below Cal #	61
24) Acetone	6.264	43	14324	5.61 ug/L #	95
25) 2-Butanone	8.080	43	5298	3.21 ug/L #	87
26) Carbon Disulfide	6.581	76	1484	0.45 ug/L #	1
39) Bromodichloromethane	9.799	83	277	Below Cal #	69
41) Dibromomethane	9.693	93	135	Below Cal	95
50) 1,1,2-Trichloroethane	10.681	83	524	Below Cal #	47
51) 1,3-Dichloropropane	10.804	76	423	Below Cal #	1
52) Tetrachloroethene	10.840	166	667	Below Cal #	75
58) 1,1,1,2-Tetrachloroethane	11.501	131	357	Below Cal #	1
65) 1,1,2,2-Tetrachloroethane	12.286	83	659	Below Cal	81
74) 4-Chlorotoluene	12.577	91	2234	0.71 ug/L #	87
83) 1,2-Dichlorobenzene	13.458	146	1433	0.44 ug/L #	71
85) 1,2,4-Trichlorobenzene	14.940	180	3110	0.86 ug/L	89
86) Hexachlorobutadiene	15.054	190	1086	0.71 ug/L #	87
87) Naphthalene	15.248	128	6349	1.19 ug/L	98
88) 1,2,3-Trichlorobenzene	15.522	180	3939	0.85 ug/L	91

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140328B\
Data File : 14032836.D
Acq On : 29 Mar 2014 4:21
Operator : JM
Sample : 481853-001
Misc : SMP
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 16:33:39 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration



Method 8260B

Run ID 140330 **Date of Run 3/30/14** **Analyst JM** **Page # 14**

Acquisition Method **SC8260**

Standard ID's			**Syringe IDs:**
CCV Std	Prep Log #	GCMSVOA-6079	V-126
BFB Std	Prep Log #	GCMSVOA-6077	V-024
Internal Std	Prep Log #	GCMSVOA-6078	V-029
Surrogates	Prep Log #	GCMSVOA-6077	V-024
Bench Spike	Prep Log #	NA	NA
Secondary spike	Prep Log #	GCMSVOA-6076	NA
Methanol	RL #	07-22-24	V-141

Soil Blank & Sample Preparation

Name	Extract amount in µl	IS amount in µl
Method Blank	100	10
QC Samples	100	10
Matrix Samples	100	10

Aqueous Blank & Sample Preparation

Name	Surrogate	Secondary Spike	Sample amount in ml	IS amount in µl
Method Blank	10	NA	5.0	10
QC Samples	10	10	5.0	10
Matrix Samples	10	NA	5.0	10

CCV Preparation

Standard Name	Standard amt added in µl	Reagent Water amt in mL	Methanol amt added in µl
CCV #1	10	5	80
Internal Standard	10		
Surrogate Standard	10		

Aqueous Dilutions

Dilution	Sample
1X	5 mL
2X	2.5 mL
5X	1 mL
10X	500 µl
20X	250 µl
50X	100 µl
100 X	50 µl
200 X	25 µl
500 X	10 µl

VOA-003-Inst10RunLog RV1
Create a book by attaching a copy of the Injection Log and number it in consecutive order up to 100.

15

Injection Log

Directory: h:\voa\a228\140330

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	16	14033001.d	1.	BAKE		30 Mar 14 16:05
2	1	14033002.d	1.	BAKE		30 Mar 14 16:31
3	6	14033003.d	1.	BAKE		30 Mar 14 16:56
4	7	14033004.d	1.	BFB	TUNE CHECK	30 Mar 14 17:42
5	8	14033005.d	1.	CCV	CCV	30 Mar 14 18:07
6	9	14033006.d	1.	BLK	BLK	30 Mar 14 18:40
7	10	14033007.d	1.	BKS	BKS	30 Mar 14 19:06
8	11	14033008.d	1.	BSD	BSD	30 Mar 14 19:32
9	12	14033009.d	1.	481853-002 pH<2	SMP	30 Mar 14 19:58
10	13	14033010.d	1.	481853-003	SMP	30 Mar 14 20:24
11	14	14033011.d	1.	481853-004	SMP	30 Mar 14 20:49
12	15	14033012.d	1.	481853-005	SMP	30 Mar 14 21:15
13	16	14033013.d	1.	481853-006	SMP	30 Mar 14 21:41
14	1	14033014.d	1.	481853-007	SMP	30 Mar 14 22:07
15	3	14033015.d	1.	481853-008	SMP	30 Mar 14 22:32
16	4	14033016.d	1.	481853-009	SMP	30 Mar 14 22:58
17	5	14033017.d	1.	481853-010	SMP	30 Mar 14 23:24
18	6	14033018.d	1.	481853-011	SMP	30 Mar 14 23:50
19	7	14033019.d	1.	481853-002 S	MS	31 Mar 14 00:16
20	8	14033020.d	1.	481853-002 SD	MSD	31 Mar 14 00:42
21	9	14033021.d	1.	481853-012	SMP	31 Mar 14 01:07
22	10	14033022.d	1.	481853-013	SMP	31 Mar 14 01:33
23	11	14033023.d	1.	481854-001	SMP	31 Mar 14 01:59
24	12	14033024.d	1.	481950-001	SMP	31 Mar 14 02:25
25	13	14033025.d	10.	481848-003	DL	31 Mar 14 02:51
26	14	14033026.d	10.	481848-004	DL	31 Mar 14 03:17
27	15	14033027.d	10.	481685-005	DL	31 Mar 14 03:43
28	16	14033028.d	1.	481685-006	SMP	31 Mar 14 04:09
29	1	14033029.d	1.	481685-007	SMP	31 Mar 14 04:35
30	3	14033030.d	2.	481685-008	SMP	31 Mar 14 05:01

~~653162~~ 9m
653208
937451

DM 3/31/14

GC/MS QA-QC Check Report

Tune File : H:\VOA\A228\140330\14033004.D
Tune Time : 30 Mar 2014 17:42

Daily Calibration File : H:\VOA\A228\140330\14033005.D

						362361	624547	568400
						265817		

File	Sample	Surrogate Recovery %				Internal Standard Responses		
14033005.D								
	CCV	97	100	100	98	362361	624547	568400
				265817				
14033006.D								
	BLK	97	94	97	92	361487	647409	579022
				270734				
14033007.D								
	BKS	96	98	96	99	365391	628530	550369
				252915				
14033008.D								
	BSD	98	97	98	99	371411	659348	568763
				266651				
14033009.D								
	481853-002	97	96	98	95	367772	645587	550269
				256991				
14033010.D								
	481853-003	98	99	99	95	346070	604928	529271
				251692				
14033011.D								
	481853-004	96	98	97	93	359190	625813	540143
				249902				
14033012.D								
	481853-005	98	101	100	95	354533	619233	531741
				247242				
14033013.D								
	481853-006	100	104	101	95	337726	588116	516957
				241666				
14033014.D								
	481853-007	98	102	99	94	333619	582393	514882
				243154				
14033015.D								
	481853-008	98	102	98	94	343065	594322	510592
				236191				
14033016.D								
	481853-009	99	103	98	94	318614	560314	489132
				229267				
14033017.D								
	481853-010	99	104	100	93	334688	584043	509414
				234270				
14033018.D								

```
        481853-011    99  105  100   94      332992     575888     500427
                                232407
-----------------------------------------------------------------------------
14033019.D
        481853-002   101  105  100  102      317760     560163     499493
                                237995
-----------------------------------------------------------------------------
14033020.D
        481853-002   101  105   97   99      312491     557312     500295
                                233798
-----------------------------------------------------------------------------
14033021.D
        481853-012    97   98   99   94      359183     624643     535890
                                244804
-----------------------------------------------------------------------------
14033022.D
        481853-013    94   98   94   93      351618     607259     521863
                                244159
-----------------------------------------------------------------------------
14033023.D
        481854-001    98  103   99   93      341551     592046     517161
                                241505
-----------------------------------------------------------------------------
14033024.D
        481950-001    99  104   99   93      329862     576500     510708
                                237556
-----------------------------------------------------------------------------
14033025.D
        481848-003    99  103  100   94      318540     558706     503870
                                235985
-----------------------------------------------------------------------------
(fails) - fails 12hr time check   * - fails criteria

    Created: Mon Mar 31 16:13:32 2014  GCMS 10
```

GC/MS QA-QC Check Report

Tune File : H:\VOA\A228\140330\14033004.D
Tune Time : 30 Mar 2014 17:42

Daily Calibration File : H:\VOA\A228\140330\14033005.D

					362361	624547	568400
					265817		
File	Sample	Surrogate Recovery %			Internal Standard Responses		
14033026.D							
	481848-004	101	106	99	94	311546	553864	491532
				230801			

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

Created: Mon Mar 31 16:15:25 2014 GCMS 10

GC/MS QA-QC Check Report

Tune File : H:\VOA\A228\140330\14033004.D
Tune Time : 30 Mar 2014 17:42

Daily Calibration File : H:\VOA\A228\140330\14033005.D

					362361	624547	568400
					265817		

File	Sample	Surrogate Recovery %				Internal Standard Responses		
14033027.D								
	481685-005	99	103	99	94	329714	581172	512906
				240266				

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

Created: Mon Mar 31 16:15:43 2014 GCMS 10

GC/MS QA-QC Check Report

Tune File : H:\VOA\A228\140330\14033004.D
Tune Time : 30 Mar 2014 17:42

Daily Calibration File : H:\VOA\A228\140330\14033005.D

14033028 OK

					362361	624547	568400
					265817		

File	Sample	Surrogate Recovery %				Internal Standard Responses		
14033029.D								
	481685-007	101	103	99	94	304040	543492	480863
				222379				
14033030.D								
	481685-008	96	94	98	93	366759	645143	555818
				251161				

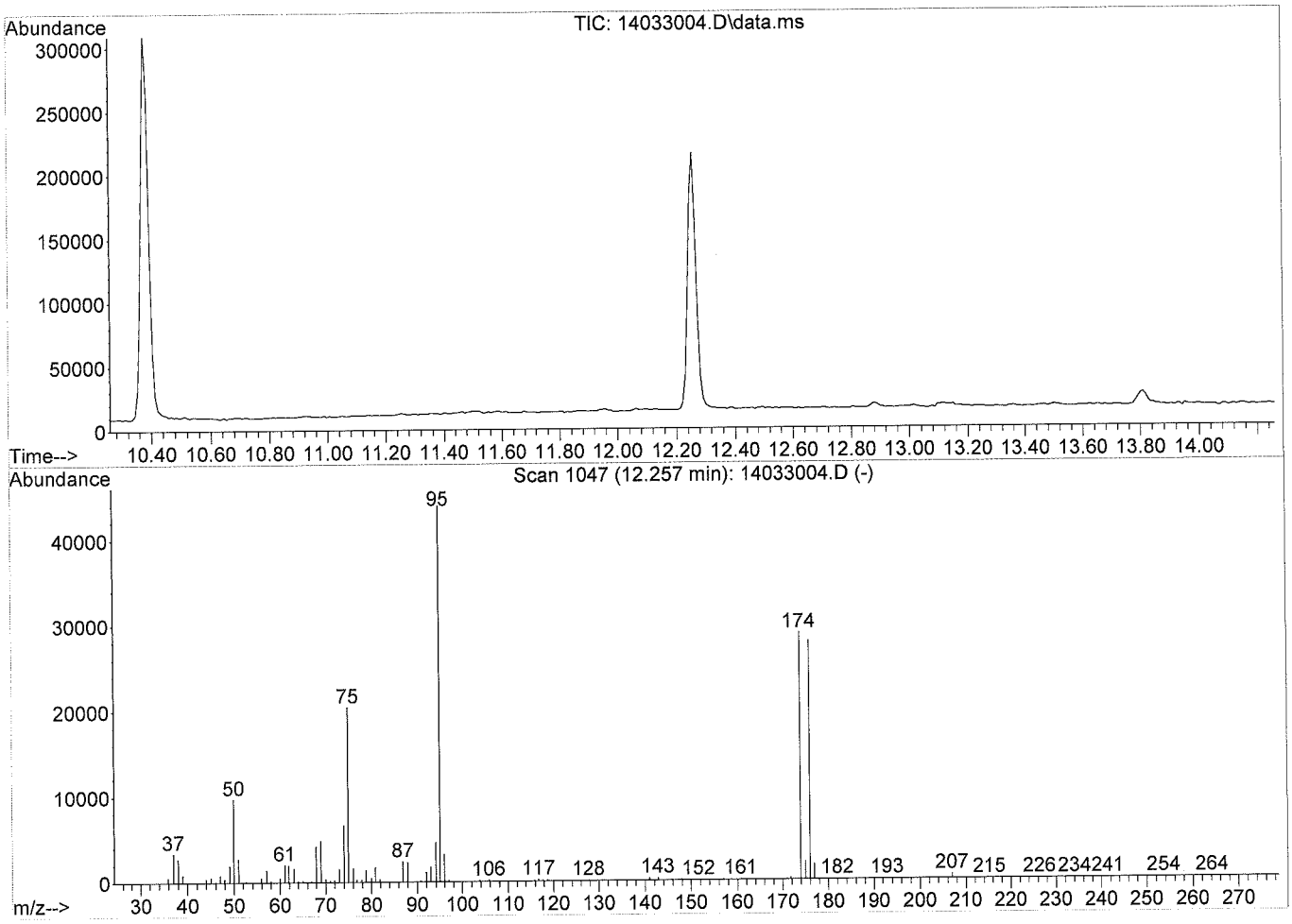
(fails) - fails 12hr time check * - fails criteria

Created: Mon Mar 31 16:16:24 2014 GCMS 10

Data Path : H:\VOA\A228\140330\
Data File : 14033004.D
Acq On : 30 Mar 2014 17:42
Operator : JM
Sample : BFB
Misc : TUNE CHECK
ALS Vial : 7 Sample Multiplier: 1

Integration File: RTEINT.P

Method : H:\VOA\A228\METHODS\140329.M
Title : 8260B_S
Last Update : Sun Mar 30 16:02:31 2014



Spectrum Information: Scan 1047

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	9726	PASS
75	95	30	60	46.5	20434	PASS
95	95	100	100	100.0	43914	PASS
96	95	5	9	7.2	3173	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	65.7	28832	PASS
175	174	5	9	7.3	2095	PASS
176	174	95	101	96.7	27891	PASS
177	176	5	9	6.4	1781	PASS

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033005.D
Acq On : 30 Mar 2014 18:07
Operator : JM
Sample : CCV
Misc : CCV
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 15:18:17 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	8.493	168	362361	50.00	ug/L	0.01
30) 1,4-Difluorobenzene (IS)	9.172	114	624547	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.438	117	568400	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.131	152	265817	50.00	ug/L	0.00
System Monitoring Compounds						
22) Dibromofluoromethane	8.519	113	273345	48.50	ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 97.00%			
45) 1,2-Dichloroethane-d4	8.837	65	359178	49.94	ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 99.88%			
46) Toluene-d8	10.371	98	880276	50.01	ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 100.02%			
66) 4-Bromofluorobenzene	12.249	95	381978	49.12	ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 98.24%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.005	85	112901	19.77	ug/L	96
3) Chloromethane	4.375	50	149446	18.79	ug/L	97
4) Vinyl chloride	4.551	62	135015	19.41	ug/L	98
5) 1,3-Butadiene	4.613	54	58957	18.47	ug/L	96
6) Bromomethane	4.966	94	24409	25.27	ug/L	99
7) Chloroethane	5.116	64	41531	19.41	ug/L	97
8) Trichlorofluoromethane	5.548	101	184519	20.06	ug/L	98
9) Acrolein	6.103	56	101198	104.36	ug/L	99
10) Trichlorotrifluoroethane	6.227	151	63100	19.98	ug/L	96
11) 1,1-Dichloroethene	6.262	61	179896	20.44	ug/L	99
12) Methylene chloride	6.809	84	136031	19.20	ug/L	99
13) Acrylonitrile	7.055	53	55055	20.21	ug/L	99
14) trans-1,2-Dichloroethene	7.126	61	179327	20.28	ug/L	98
15) n-Hexane	7.399	57	160531	19.68	ug/L	95
16) 1,1-Dichloroethane	7.558	63	209279	19.64	ug/L	99
17) Cyclohexane	8.678	84	157867	20.53	ug/L	95
18) 2,2-Dichloropropane	8.131	77	169336	19.73	ug/L	98
19) cis-1,2-Dichloroethene	8.114	96	128962	20.05	ug/L	97
20) Chloroform	8.369	83	222470	20.10	ug/L	96
21) Bromochloromethane	8.343	128	49648	19.46	ug/L	93
23) 1,1,1-Trichloroethane	8.598	97	169257	20.12	ug/L	99
24) Acetone	6.288	43	115128	42.14	ug/L	98
25) 2-Butanone	8.087	43	153528	40.61	ug/L	99
26) Carbon Disulfide	6.606	76	401801	20.21	ug/L	100
27) Iodomethane	6.491	142	130484	19.16	ug/L	98
28) Vinyl acetate	7.540	43	739387	21.77	ug/L	100
29) Methyl tert-butyl ether	7.108	73	292117	20.81	ug/L	99
31) 1,1-Dichloropropene	8.731	75	155892	20.91	ug/L	100
32) Carbon tetrachloride	8.757	117	119043	20.83	ug/L	98
33) 1,2-Dichloroethane	8.907	62	170872	20.37	ug/L	100
34) Benzene	8.925	78	422751	20.25	ug/L	100
35) 2,2,4-Trimethylpentane	8.951	57	444569	20.91	ug/L	99
36) n-Heptane	9.066	57	98327	20.98	ug/L	99
37) Trichloroethene	9.436	95	115638	19.85	ug/L	97

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033005.D
Acq On : 30 Mar 2014 18:07
Operator : JM
Sample : CCV
Misc : CCV
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 15:18:17 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

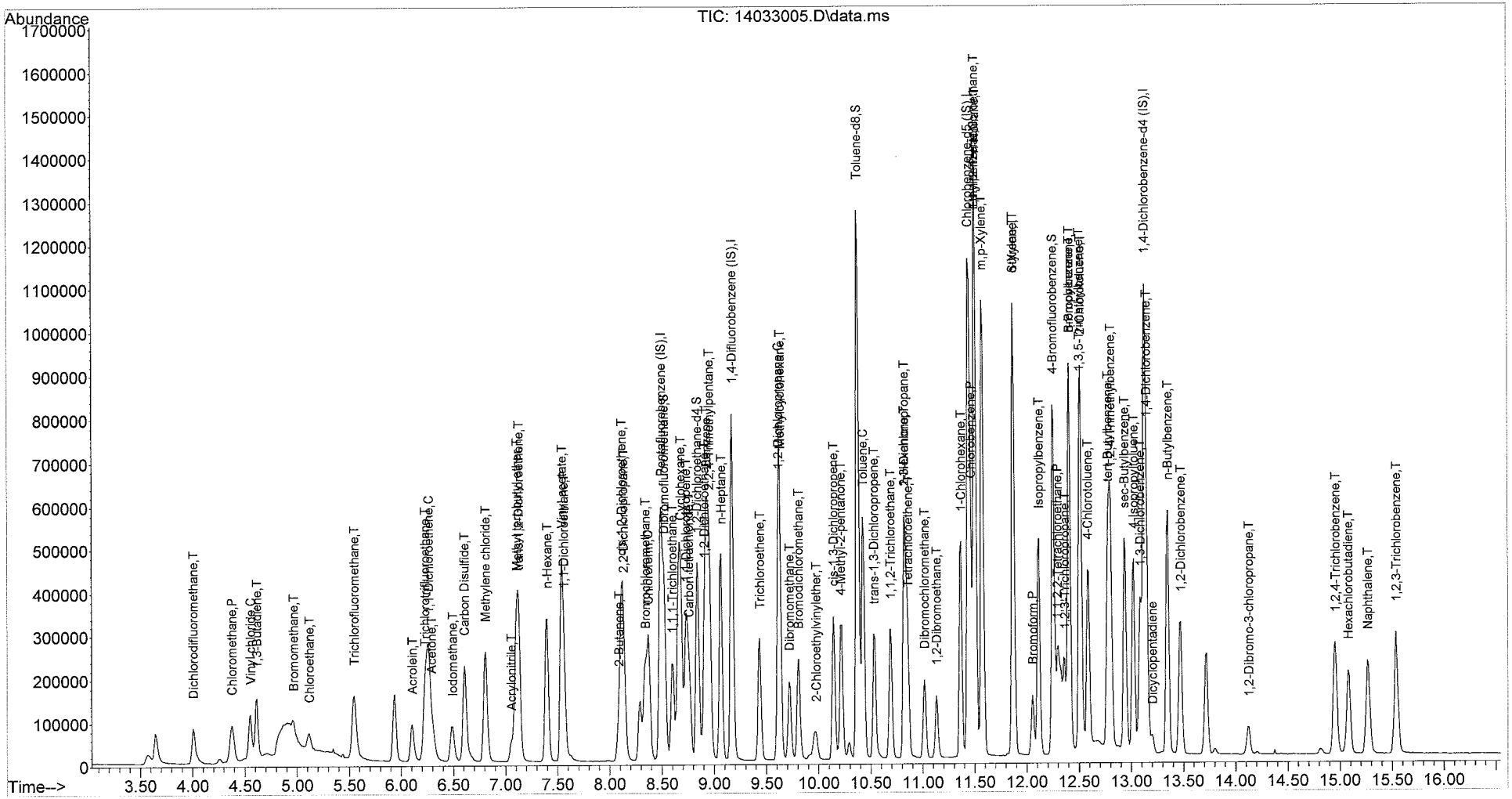
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.613	63	116516	20.34 ug/L	97
39) Bromodichloromethane	9.806	83	161127	20.86 ug/L	100
40) Methylcyclohexane	9.630	56	51138	20.45 ug/L	93
41) Dibromomethane	9.718	93	89962	20.34 ug/L	98
42) cis-1,3-Dichloropropene	10.142	75	190575	20.71 ug/L	98
43) 2-Chloroethylvinylether	9.974	63	18219	24.25 ug/L	96
44) 4-Methyl-2-pentanone	10.212	43	290152	43.31 ug/L	98
48) Toluene	10.424	92	258533	19.52 ug/L	99
49) trans-1,3-Dichloropropene	10.530	75	162436	19.70 ug/L	99
50) 1,1,2-Trichloroethane	10.688	83	94134	19.06 ug/L	99
51) 1,3-Dichloropropane	10.820	76	182425	19.75 ug/L	99
52) Tetrachloroethene	10.856	166	91614	19.82 ug/L	100
53) Dibromochloromethane	11.014	129	92809	19.77 ug/L	97
54) 1,2-Dibromoethane	11.129	107	110136	19.85 ug/L	98
55) 1-Chlorohexane	11.367	91	168801	20.32 ug/L	99
56) Chlorobenzene	11.464	112	223844	18.98 ug/L	99
57) n-Nonane	11.508	57	195192	20.75 ug/L	99
58) 1,1,1,2-Tetrachloroethane	11.499	131	74901	18.84 ug/L	97
59) Ethylbenzene	11.499	91	491869	19.86 ug/L	99
60) m,p-Xylene	11.570	106	302984	38.54 ug/L	98
61) o-Xylene	11.870	106	144209	19.57 ug/L	99
62) Styrene	11.870	104	269939	19.69 ug/L	99
63) Isopropylbenzene	12.117	105	375691	19.38 ug/L	99
64) Bromoform	12.055	173	68261	19.86 ug/L	97
65) 1,1,2,2-Tetrachloroethane	12.293	83	152402	20.57 ug/L	98
67) 2-Hexanone	10.820	43	194629	40.37 ug/L	99
69) 1,2,3-Trichloropropane	12.364	110	35559	20.12 ug/L	96
70) n-Propylbenzene	12.408	91	530291	19.31 ug/L	99
71) Bromobenzene	12.408	156	93475	18.21 ug/L	96
72) 1,3,5-Trimethylbenzene	12.505	105	339719	19.13 ug/L	99
73) 2-Chlorotoluene	12.513	91	361821	19.20 ug/L	100
74) 4-Chlorotoluene	12.584	91	312170	18.41 ug/L	99
75) tert-Butylbenzene	12.778	119	256362	18.77 ug/L	99
76) 1,2,4-Trimethylbenzene	12.804	105	340817	18.88 ug/L	98
77) sec-Butylbenzene	12.937	105	421356	19.00 ug/L	98
78) 4-Isopropyltoluene	13.025	119	280373	18.82 ug/L	99
79) 1,3-Dichlorobenzene	13.087	146	157627	20.11 ug/L	99
80) 1,4-Dichlorobenzene	13.148	146	162778	19.48 ug/L	98
81) Dicyclopentadiene	13.201	66	45591	18.20 ug/L #	97
82) n-Butylbenzene	13.351	92	240599	19.17 ug/L	98
83) 1,2-Dichlorobenzene	13.475	146	145353	19.58 ug/L	98
84) 1,2-Dibromo-3-chloropr...	14.127	157	19508	19.18 ug/L	98
85) 1,2,4-Trichlorobenzene	14.956	180	115891	19.04 ug/L	95
86) Hexachlorobutadiene	15.079	190	27747	19.56 ug/L	98
87) Naphthalene	15.264	128	241915	20.12 ug/L	99
88) 1,2,3-Trichlorobenzene	15.538	180	109460	18.92 ug/L	96

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033005.D
Acq On : 30 Mar 2014 18:07
Operator : JM
Sample : CCV
Misc : CCV
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 15:18:17 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : H:\VOA\A228\140330\
Data File : 14033005.D
Acq On : 30 Mar 2014 18:07
Operator : JM
Sample : CCV
Misc : CCV
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 15:18:17 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene (IS)	1.000	1.000	0.0	98	0.01
2	T	Dichlorodifluoromethane	0.788	0.779	1.1	96	0.00
3	P	Chloromethane	1.098	1.031	6.1	96	0.00
4	C	Vinyl chloride	0.960	0.931	3.0	94	0.00
5	T	1,3-Butadiene	0.440	0.407	7.5	90	0.00
6	T	Bromomethane	0.207	0.168	18.8	101	0.00
7	T	Chloroethane	0.354	0.287	18.9	89	0.00
8	T	Trichlorofluoromethane	1.269	1.273	-0.3	98	0.00
9	T	Acrolein	0.134	0.093#	30.6#	69	0.00
10	T	Trichlorotrifluoroethane	0.436	0.435	0.2	99	0.00
11	C	1,1-Dichloroethene	1.214	1.241	-2.2	98	0.00
12	T	Methylene chloride	0.977	0.939	3.9	96	0.00
13	T	Acrylonitrile	0.376	0.380	-1.1	99	0.00
14	T	trans-1,2-Dichloroethene	1.220	1.237	-1.4	99	0.00
15	T	n-Hexane	1.125	1.108	1.5	95	0.01
16	P	1,1-Dichloroethane	1.470	1.444	1.8	98	0.00
17	T	Cyclohexane	1.061	1.089	-2.6	98	0.00
18	T	2,2-Dichloropropane	1.184	1.168	1.4	96	0.00
19	T	cis-1,2-Dichloroethene	0.887	0.890	-0.3	96	0.01
20	C	Chloroform	1.527	1.535	-0.5	98	0.00
21	T	Bromochloromethane	0.352	0.343	2.6	96	0.01
22	S	Dibromofluoromethane	0.778	0.754	3.1	97	0.00
23	T	1,1,1-Trichloroethane	1.161	1.168	-0.6	98	0.00
24	T	Acetone	0.486	0.397	18.3	102	0.01
25	T	2-Butanone	0.568	0.530	6.7	103	0.00
26	T	Carbon Disulfide	2.744	2.772	-1.0	98	0.00
27	T	Iodomethane	0.940	0.900	4.3	90	0.01
28	T	Vinyl acetate	4.687	5.101	-8.8	100	0.01
29	T	Methyl tert-butyl ether	1.937	2.015	-4.0	99	0.01
30	I	1,4-Difluorobenzene (IS)	1.000	1.000	0.0	96	0.00
31	T	1,1-Dichloropropene	0.597	0.624	-4.5	97	0.00
32	T	Carbon tetrachloride	0.457	0.477	-4.4	98	0.00
33	T	1,2-Dichloroethane	0.672	0.684	-1.8	99	0.00
34	T	Benzene	1.671	1.692	-1.3	98	0.00
35	T	2,2,4-Trimethylpentane	1.702	1.780	-4.6	96	0.00
36	T	n-Heptane	0.375	0.394	-5.1	97	0.00
37	T	Trichloroethene	0.466	0.463	0.6	96	0.00
38	C	1,2-Dichloropropane	0.459	0.466	-1.5	98	0.00
39	T	Bromodichloromethane	0.618	0.645	-4.4	100	0.00
40	T	Methylcyclohexane	0.200	0.205	-2.5	95	0.01
41	T	Dibromomethane	0.354	0.360	-1.7	101	0.00
42	T	cis-1,3-Dichloropropene	0.737	0.763	-3.5	97	0.00
43	T	2-Chloroethylvinylether	0.052	0.073#	-40.4#	150	0.00
44	T	4-Methyl-2-pentanone	0.536	0.581	-8.4	106	0.00
45	S	1,2-Dichloroethane-d4	0.576	0.575	0.2	98	0.00
46	S	Toluene-d8	1.409	1.409	0.0	99	0.00

Evaluate Continuing Calibration Report

Data Path : H:\VOA\A228\140330\
Data File : 14033005.D
Acq On : 30 Mar 2014 18:07
Operator : JM
Sample : CCV
Misc : CCV
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 15:18:17 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47	I	Chlorobenzene-d5 (IS)	1.000	1.000	0.0	100	0.00
48	C	Toluene	1.165	1.137	2.4	98	0.00
49	T	trans-1,3-Dichloropropene	0.725	0.714	1.5	101	0.00
50	T	1,1,2-Trichloroethane	0.434	0.414	4.6	102	0.00
51	T	1,3-Dichloropropane	0.812	0.802	1.2	103	0.00
52	T	Tetrachloroethene	0.407	0.403	1.0	99	0.00
53	T	Dibromochloromethane	0.413	0.408	1.2	102	0.00
54	T	1,2-Dibromoethane	0.488	0.484	0.8	102	0.00
55	T	1-Chlorohexane	0.731	0.742	-1.5	101	0.00
56	P	Chlorobenzene	1.038	0.985	5.1	100	0.00
57	T	n-Nonane	0.827	0.859	-3.9	95	0.00
58	T	1,1,1,2-Tetrachloroethane	0.350	0.329	6.0	99	0.00
59	C	Ethylbenzene	2.179	2.163	0.7	100	0.00
60	T	m,p-Xylene	0.692	0.666	3.8	98	0.00
61	T	o-Xylene	0.648	0.634	2.2	101	0.00
62	T	Styrene	1.206	1.187	1.6	99	0.00
63	T	Isopropylbenzene	1.706	1.652	3.2	100	0.00
64	P	Bromoform	0.302	0.300	0.7	104	0.00
65	P	1,1,2,2-Tetrachloroethane	0.706	0.670	5.1	104	0.00
66	S	4-Bromofluorobenzene	0.714	0.672	5.9	101	0.00
67	T	2-Hexanone	0.434	0.428	1.4	104	0.00
68	I	1,4-Dichlorobenzene-d4 (IS)	1.000	1.000	0.0	101	0.00
69	T	1,2,3-Trichloropropane	0.374	0.334	10.7	106	0.00
70	T	n-Propylbenzene	5.166	4.987	3.5	100	0.00
71	T	Bromobenzene	0.965	0.879	8.9	99	0.00
72	T	1,3,5-Trimethylbenzene	3.340	3.195	4.3	100	0.00
73	T	2-Chlorotoluene	3.545	3.403	4.0	102	0.00
74	T	4-Chlorotoluene	3.190	2.936	8.0	97	0.00
75	T	tert-Butylbenzene	2.569	2.411	6.2	100	0.00
76	T	1,2,4-Trimethylbenzene	3.396	3.205	5.6	100	0.00
77	T	sec-Butylbenzene	4.170	3.963	5.0	100	0.00
78	T	4-Isopropyltoluene	2.802	2.637	5.9	99	0.00
79	T	1,3-Dichlorobenzene	1.587	1.482	6.6	99	0.00
80	T	1,4-Dichlorobenzene	1.713	1.531	10.6	101	0.00
81		Dicyclopentadiene	0.471	0.429	8.9	99	0.00
82	T	n-Butylbenzene	2.361	2.263	4.2	99	0.01
83	T	1,2-Dichlorobenzene	1.528	1.367	10.5	100	0.01
84	T	1,2-Dibromo-3-chloropropane	0.191	0.183	4.2	106	0.01
85	T	1,2,4-Trichlorobenzene	1.145	1.090	4.8	96	0.00
86	T	Hexachlorobutadiene	0.267	0.261	2.2	98	0.00
87	T	Naphthalene	2.262	2.275	-0.6	105	0.00
88	T	1,2,3-Trichlorobenzene	1.088	1.029	5.4	103	0.00

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

Continuing Calibration Evaluation

CCV
3/30/2014 18:07

14033005.D
GCMS 10

Name	Fit	AvgRF/Amt	CCRF/Conc	%Rec	LCL	UCL
Pentafluorobenzene (IS)	IS	358459.000	362361.000	XXXXXX	179230	716918
Dichlorodifluoromethane	A	0.788	0.779	99	31	155
Chloromethane	A	1.098	1.031	94	47	139
Vinyl chloride	A	0.960	0.931	97	80	120
1,3-Butadiene	A	0.440	0.407	92	68	130
Bromomethane	L	20.000	25.273	126	16	180
Chloroethane	L	20.000	19.409	97	43	155
Trichlorofluoromethane	A	1.269	1.273	100	61	135
Acrolein	A	0.134	0.140	104	70	130
Trichlorotrifluoroethane	A	0.436	0.435	100	58	147
1,1-Dichloroethene	A	1.214	1.241	102	80	120
Methylene chloride	A	0.977	0.939	96	64	133
Acrylonitrile	A	0.376	0.380	101	68	130
trans-1,2-Dichloroethene	A	1.220	1.237	101	67	131
n-Hexane	A	1.125	1.108	98	68	130
1,1-Dichloroethane	A	1.470	1.444	98	66	132
Cyclohexane	A	1.061	1.089	103	70	130
2,2-Dichloropropane	A	1.184	1.168	99	67	136
cis-1,2-Dichloroethene	A	0.887	0.890	100	68	129
Chloroform	A	1.527	1.535	100	80	120
Bromochloromethane	A	0.352	0.343	97	68	130
Dibromofluoromethane	A	0.778	0.754	97	70	130
1,1,1-Trichloroethane	A	1.161	1.168	101	70	130
Acetone	L	40.000	42.141	105	51	171
2-Butanone	L	40.000	40.605	102	63	136
Carbon Disulfide	A	2.744	2.772	101	56	138
Iodomethane	A	0.940	0.900	96	44	153
Vinyl acetate	A	4.687	5.101	109	68	130
Methyl tert-butyl ether	A	1.937	2.015	104	71	129
1,4-Difluorobenzene (IS)	IS	633226.000	624547.000	XXXXXX	316613	1266452
1,1-Dichloropropene	A	0.597	0.624	105	74	127
Carbon tetrachloride	A	0.457	0.477	104	74	133
1,2-Dichloroethane	A	0.672	0.684	102	68	130
Benzene	A	1.671	1.692	101	68	130
2,2,4-Trimethylpentane	A	1.702	1.780	105	70	130
n-Heptane	A	0.375	0.394	105	70	130
Trichloroethene	A	0.466	0.463	99	78	123
1,2-Dichloropropane	A	0.459	0.466	102	68	130
Bromodichloromethane	A	0.618	0.645	104	76	122
Methylcyclohexane	A	0.200	0.205	102	70	130
Dibromomethane	A	0.354	0.360	102	77	120
cis-1,3-Dichloropropene	A	0.737	0.763	104	79	121
2-Chloroethylvinylether	L	20.000	24.250	121	62	131
4-Methyl-2-pentanone	A	0.536	0.581	108	68	126
1,2-Dichloroethane-d4	A	0.576	0.575	100	70	130

Toluene-d8	A	1.409	1.409	100	70	130	
Chlorobenzene-d5 (IS)	IS	555411.000	568400.000	XXXXXX	277706	1110822	
Toluene	A	1.165	1.137	98	80	120	
trans-1,3-Dichloropropene	A	0.725	0.714	99	76	121	
1,1,2-Trichloroethane	A	0.434	0.414	95	71	125	
1,3-Dichloropropane	A	0.812	0.802	99	74	124	
Tetrachloroethene	A	0.407	0.403	99	71	130	
Dibromochloromethane	A	0.413	0.408	99	68	130	
1,2-Dibromoethane	A	0.488	0.484	99	77	121	
1-Chlorohexane	A	0.731	0.742	102	68	130	
Chlorobenzene	A	1.038	0.985	95	47	139	
n-Nonane	A	0.827	0.859	104	70	130	
1,1,1,2-Tetrachloroethane	A	0.350	0.329	94	79	119	
Ethylbenzene	A	2.179	2.163	99	80	120	
m,p-Xylene	A	0.692	0.666	96	79	122	
o-Xylene	A	0.648	0.634	98	79	121	
Styrene	A	1.206	1.187	98	79	121	
Isopropylbenzene	A	1.706	1.652	97	78	122	
Bromoform	A	0.302	0.300	99	75	121	
1,1,2,2-Tetrachloroethane	L	20.000	20.574	103	70	122	
4-Bromofluorobenzene	L	50.000	49.119	98	70	130	
2-Hexanone	L	40.000	40.368	101	67	124	
1,4-Dichlorobenzene-d4 (IS)	IS	257562.000	265817.000	XXXXXX	128781	515124	
1,2,3-Trichloropropane	L	20.000	20.125	101	74	119	
n-Propylbenzene	A	5.166	4.987	97	70	121	
Bromobenzene	A	0.965	0.879	91	80	120	
1,3,5-Trimethylbenzene	A	3.340	3.195	96	80	120	
2-Chlorotoluene	A	3.545	3.403	96	78	122	
4-Chlorotoluene	A	3.190	2.936	92	77	123	
tert-Butylbenzene	A	2.569	2.411	94	80	120	
1,2,4-Trimethylbenzene	A	3.396	3.205	94	79	121	
sec-Butylbenzene	A	4.170	3.963	95	77	124	
4-Isopropyltoluene	A	2.802	2.637	94	79	120	
1,3-Dichlorobenzene	L	20.000	20.105	101	80	120	
1,4-Dichlorobenzene	L	20.000	19.479	97	80	120	
Dicyclopentadiene	A	0.471	0.429	91	80	120	
n-Butylbenzene	A	2.361	2.263	96	76	124	
1,2-Dichlorobenzene	L	20.000	19.583	98	80	120	
1,2-Dibromo-3-chloropropane	A	0.191	0.183	96	70	118	
1,2,4-Trichlorobenzene	A	1.145	1.090	95	75	125	
Hexachlorobutadiene	A	0.267	0.261	98	73	128	
Naphthalene	A	2.262	2.275	101	74	125	
1,2,3-Trichlorobenzene	A	1.088	1.029	95	69	127	

SPCCs out = 0 CCCs out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033006.D
Acq On : 30 Mar 2014 18:40
Operator : JM
Sample : BLK
Misc : BLK
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 15:37:51 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

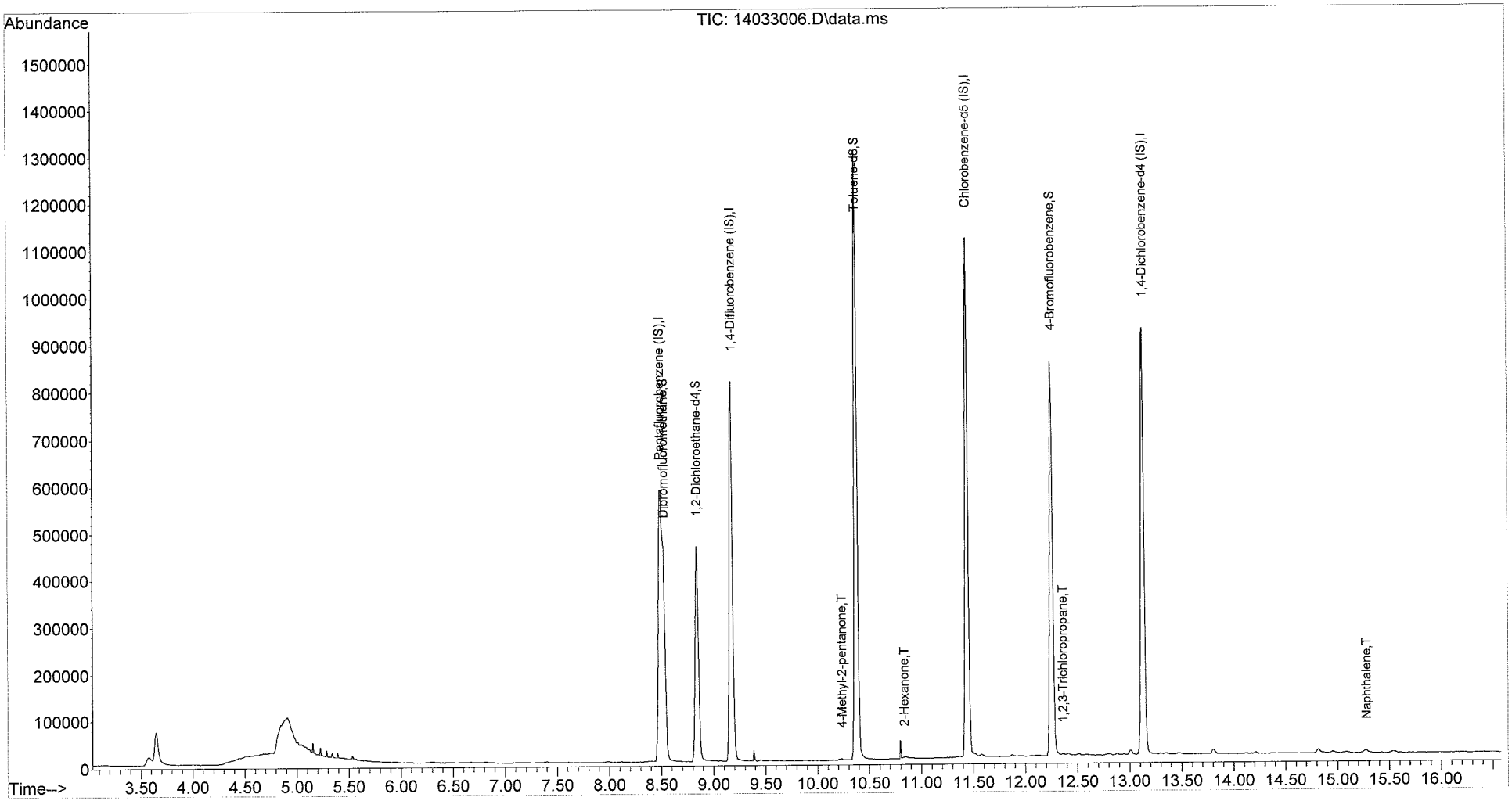
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.486	168	361487	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.174	114	647409	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.440	117	579022	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.133	152	270734	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.521	113	272690	48.50 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 97.00%		
45) 1,2-Dichloroethane-d4	8.839	65	351538	47.15 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 94.30%		
46) Toluene-d8	10.373	98	886680	48.60 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 97.20%		
66) 4-Bromofluorobenzene	12.251	95	365242	46.16 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 92.32%		
Target Compounds					Qvalue
6) Bromomethane	5.003	94	1209	Below Cal #	29
7) Chloroethane	5.118	64	737	Below Cal #	1
24) Acetone	6.299	43	4444	Below Cal #	81
44) 4-Methyl-2-pentanone	10.232	43	3704	0.53 ug/L	90
65) 1,1,2,2-Tetrachloroethane	12.295	83	1786	Below Cal	86
67) 2-Hexanone	10.832	43	5323	1.26 ug/L	97
69) 1,2,3-Trichloropropane	12.357	110	671	0.60 ug/L	84
80) 1,4-Dichlorobenzene	13.159	146	1087	Below Cal #	1
87) Naphthalene	15.275	128	6225	0.51 ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033006.D
Acq On : 30 Mar 2014 18:40
Operator : JM
Sample : BLK
Misc : BLK
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 15:37:51 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033007.D
Acq On : 30 Mar 2014 19:06
Operator : JM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 15:31:56 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	8.484	168	365391	50.00	ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.172	114	628530	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.438	117	550369	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.131	152	252915	50.00	ug/L	0.00
System Monitoring Compounds						
22) Dibromofluoromethane	8.520	113	271716	47.81	ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 95.62%			
45) 1,2-Dichloroethane-d4	8.837	65	355881	49.17	ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 98.34%			
46) Toluene-d8	10.371	98	853300	48.17	ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 96.34%			
66) 4-Bromofluorobenzene	12.249	95	372644	49.48	ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 98.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.005	85	112851	19.59	ug/L	97
3) Chloromethane	4.375	50	152869	19.06	ug/L	99
4) Vinyl chloride	4.552	62	136903	19.52	ug/L	98
5) 1,3-Butadiene	4.614	54	61084	18.98	ug/L	98
6) Bromomethane	4.957	94	23168	23.54	ug/L	99
7) Chloroethane	5.107	64	46604	21.77	ug/L	97
8) Trichlorofluoromethane	5.548	101	185488	20.00	ug/L	99
9) Acrolein	6.104	56	97412	99.62	ug/L	100
10) Trichlorotrifluoroethane	6.227	151	61841	19.41	ug/L	94
11) 1,1-Dichloroethene	6.262	61	175782	19.81	ug/L	99
12) Methylene chloride	6.809	84	135375	18.95	ug/L	99
13) Acrylonitrile	7.056	53	54244	19.75	ug/L	97
14) trans-1,2-Dichloroethene	7.126	61	177251	19.88	ug/L	98
15) n-Hexane	7.391	57	160502	19.52	ug/L	98
16) 1,1-Dichloroethane	7.559	63	210280	19.57	ug/L	99
17) Cyclohexane	8.678	84	153890	19.85	ug/L	98
18) 2,2-Dichloropropane	8.132	77	168457	19.47	ug/L	99
19) cis-1,2-Dichloroethene	8.114	96	128324	19.79	ug/L	98
20) Chloroform	8.370	83	217101	19.45	ug/L	97
21) Bromochloromethane	8.334	128	48876	19.00	ug/L	98
23) 1,1,1-Trichloroethane	8.599	97	168918	19.91	ug/L	99
24) Acetone	6.280	43	109695	39.70	ug/L	96
25) 2-Butanone	8.088	43	147376	38.65	ug/L	99
26) Carbon Disulfide	6.606	76	400290	19.97	ug/L	99
27) Iodomethane	6.483	142	129119	18.80	ug/L	97
28) Vinyl acetate	7.532	43	710630	20.75	ug/L	100
29) Methyl tert-butyl ether	7.100	73	283858	20.06	ug/L	99
31) 1,1-Dichloropropene	8.731	75	153204	20.42	ug/L	98
32) Carbon tetrachloride	8.758	117	116348	20.23	ug/L	99
33) 1,2-Dichloroethane	8.908	62	167009	19.78	ug/L	100
34) Benzene	8.925	78	413721	19.69	ug/L	99
35) 2,2,4-Trimethylpentane	8.952	57	434288	20.30	ug/L	99
36) n-Heptane	9.057	57	96255	20.41	ug/L	96
37) Trichloroethene	9.428	95	116543	19.88	ug/L	96

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033007.D
Acq On : 30 Mar 2014 19:06
Operator : JM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 15:31:56 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

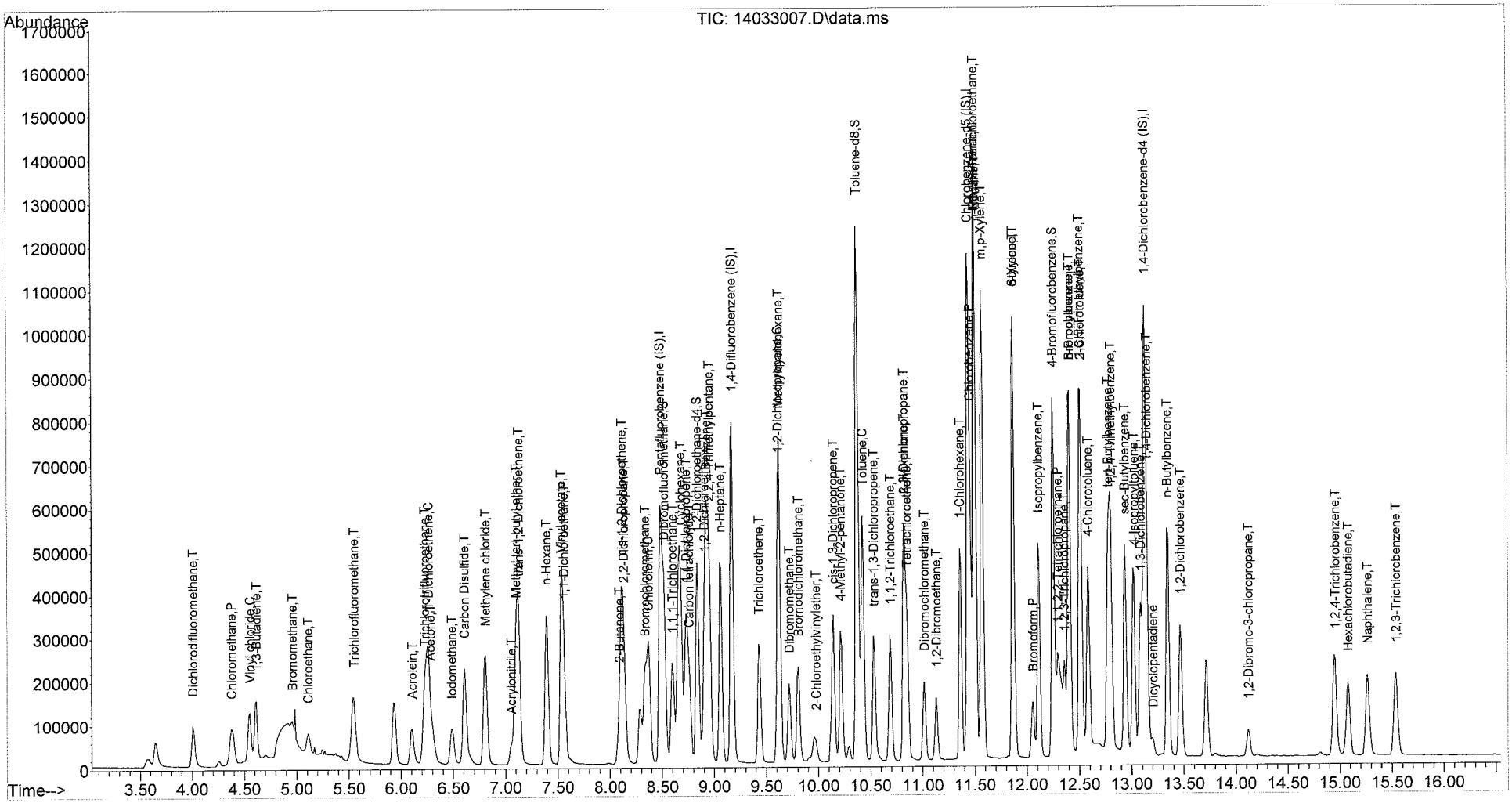
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.613	63	113741	19.73 ug/L	99
39) Bromodichloromethane	9.807	83	156898	20.18 ug/L	99
40) Methylcyclohexane	9.622	56	52228	20.75 ug/L	97
41) Dibromomethane	9.719	93	87201	19.59 ug/L	99
42) cis-1,3-Dichloropropene	10.142	75	196176	21.19 ug/L	99
43) 2-Chloroethylvinylether	9.974	63	13217	18.35 ug/L	93
44) 4-Methyl-2-pentanone	10.213	43	268962	39.89 ug/L	99
48) Toluene	10.424	92	253976	19.80 ug/L	99
49) trans-1,3-Dichloropropene	10.530	75	157091	19.68 ug/L	99
50) 1,1,2-Trichloroethane	10.689	83	89910	18.80 ug/L	98
51) 1,3-Dichloropropane	10.821	76	175730	19.65 ug/L	99
52) Tetrachloroethene	10.847	166	89527	20.00 ug/L	94
53) Dibromochloromethane	11.015	129	90163	19.83 ug/L	97
54) 1,2-Dibromoethane	11.130	107	106387	19.80 ug/L	98
55) 1-Chlorohexane	11.359	91	161459	20.08 ug/L	94
56) Chlorobenzene	11.456	112	221244	19.37 ug/L	97
57) n-Nonane	11.509	57	185032	20.32 ug/L	99
58) 1,1,1,2-Tetrachloroethane	11.500	131	75496	19.61 ug/L	99
59) Ethylbenzene	11.500	91	487198	20.31 ug/L	99
60) m,p-Xylene	11.570	106	300021	39.41 ug/L	99
61) o-Xylene	11.870	106	140145	19.64 ug/L	98
62) Styrene	11.870	104	261894	19.73 ug/L	99
63) Isopropylbenzene	12.108	105	368224	19.61 ug/L	98
64) Bromoform	12.055	173	64371	19.34 ug/L	100
65) 1,1,2,2-Tetrachloroethane	12.293	83	142601	19.87 ug/L	98
67) 2-Hexanone	10.821	43	182688	39.14 ug/L	99
69) 1,2,3-Trichloropropane	12.355	110	33734	20.07 ug/L	89
70) n-Propylbenzene	12.408	91	511399	19.57 ug/L	99
71) Bromobenzene	12.408	156	91986	18.84 ug/L	99
72) 1,3,5-Trimethylbenzene	12.505	105	329086	19.48 ug/L	98
73) 2-Chlorotoluene	12.514	91	348299	19.42 ug/L	99
74) 4-Chlorotoluene	12.584	91	310631	19.25 ug/L	99
75) tert-Butylbenzene	12.778	119	244543	18.82 ug/L	99
76) 1,2,4-Trimethylbenzene	12.805	105	329588	19.19 ug/L	99
77) sec-Butylbenzene	12.937	105	400291	18.98 ug/L	98
78) 4-Isopropyltoluene	13.025	119	271846	19.18 ug/L	99
79) 1,3-Dichlorobenzene	13.087	146	146319	19.61 ug/L	99
80) 1,4-Dichlorobenzene	13.149	146	161730	20.35 ug/L	98
81) Dicyclopentadiene	13.202	66	43117	18.09 ug/L #	94
82) n-Butylbenzene	13.343	92	228536	19.14 ug/L	98
83) 1,2-Dichlorobenzene	13.466	146	139951	19.82 ug/L	97
84) 1,2-Dibromo-3-chloropr...	14.119	157	17674	18.26 ug/L	99
85) 1,2,4-Trichlorobenzene	14.956	180	106024	18.30 ug/L	98
86) Hexachlorobutadiene	15.080	190	23330	17.29 ug/L	93
87) Naphthalene	15.265	128	205034	17.92 ug/L	99
88) 1,2,3-Trichlorobenzene	15.538	180	90184	16.39 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033007.D
Acq On : 30 Mar 2014 19:06
Operator : JM
Sample : BKS
Misc : BKS
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 15:31:56 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033008.D
Acq On : 30 Mar 2014 19:32
Operator : JM
Sample : BSD
Misc : BSD
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 31 15:32:00 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.484	168	371411	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.172	114	659348	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.438	117	568763	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.131	152	266651	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.519	113	282686	48.94 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 97.88%		
45) 1,2-Dichloroethane-d4	8.837	65	369462	48.66 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 97.32%		
46) Toluene-d8	10.371	98	907090	48.82 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 97.64%		
66) 4-Bromofluorobenzene	12.249	95	387101	49.73 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 99.46%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.005	85	116097	19.83 ug/L	97
3) Chloromethane	4.375	50	156832	19.24 ug/L	100
4) Vinyl chloride	4.543	62	139001	19.50 ug/L	98
5) 1,3-Butadiene	4.604	54	63232	19.33 ug/L	97
6) Bromomethane	4.957	94	19684	18.97 ug/L #	97
7) Chloroethane	5.107	64	45721	20.96 ug/L	97
8) Trichlorofluoromethane	5.539	101	191454	20.31 ug/L	98
9) Acrolein	6.103	56	101364	101.99 ug/L	95
10) Trichlorotrifluoroethane	6.227	151	65207	20.14 ug/L	94
11) 1,1-Dichloroethene	6.262	61	183680	20.37 ug/L	99
12) Methylene chloride	6.800	84	141673	19.51 ug/L	98
13) Acrylonitrile	7.047	53	57754	20.69 ug/L	97
14) trans-1,2-Dichloroethene	7.126	61	184473	20.35 ug/L	99
15) n-Hexane	7.391	57	166978	19.98 ug/L	99
16) 1,1-Dichloroethane	7.558	63	216615	19.83 ug/L	100
17) Cyclohexane	8.678	84	161988	20.56 ug/L	97
18) 2,2-Dichloropropane	8.131	77	177074	20.13 ug/L	99
19) cis-1,2-Dichloroethene	8.105	96	134425	20.39 ug/L	99
20) Chloroform	8.369	83	222914	19.65 ug/L	99
21) Bromochloromethane	8.334	128	51973	19.87 ug/L	95
23) 1,1,1-Trichloroethane	8.599	97	177909	20.63 ug/L	99
24) Acetone	6.280	43	112285	39.99 ug/L	98
25) 2-Butanone	8.087	43	154183	39.78 ug/L	98
26) Carbon Disulfide	6.606	76	414051	20.32 ug/L	99
27) Iodomethane	6.482	142	139492	19.98 ug/L	99
28) Vinyl acetate	7.532	43	747851	21.48 ug/L	100
29) Methyl tert-butyl ether	7.100	73	299430	20.82 ug/L	100
31) 1,1-Dichloropropene	8.731	75	159258	20.24 ug/L	98
32) Carbon tetrachloride	8.757	117	121314	20.11 ug/L	96
33) 1,2-Dichloroethane	8.907	62	175890	19.86 ug/L	99
34) Benzene	8.925	78	434993	19.74 ug/L	99
35) 2,2,4-Trimethylpentane	8.951	57	457308	20.38 ug/L	99
36) n-Heptane	9.057	57	100834	20.38 ug/L	94
37) Trichloroethene	9.427	95	120399	19.58 ug/L	96

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033008.D
Acq On : 30 Mar 2014 19:32
Operator : JM
Sample : BSD
Misc : BSD
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 31 15:32:00 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

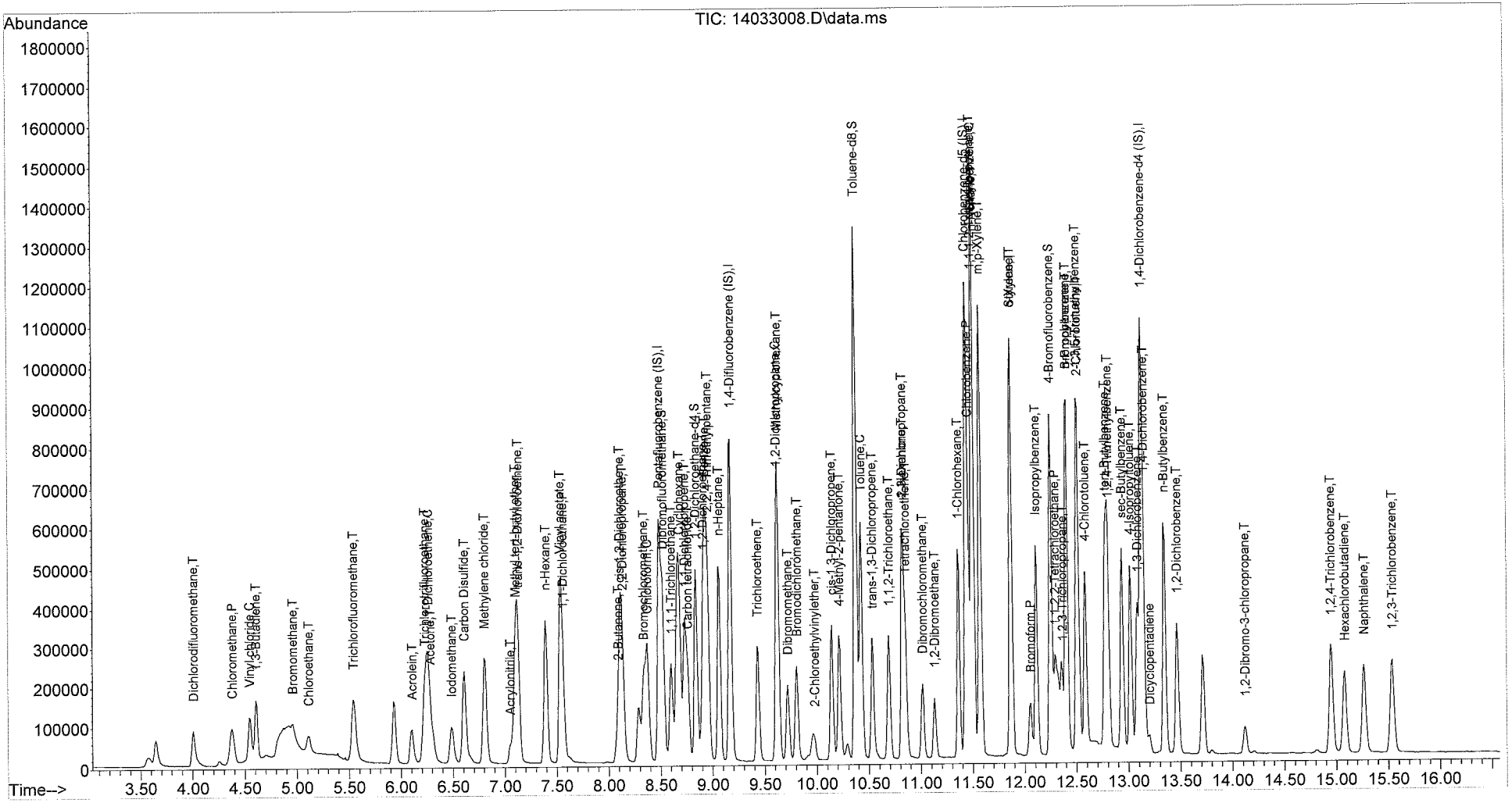
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.613	63	116621	19.28 ug/L	97
39) Bromodichloromethane	9.807	83	164345	20.15 ug/L	98
40) Methylcyclohexane	9.621	56	52153	19.75 ug/L	93
41) Dibromomethane	9.718	93	90896	19.47 ug/L	98
42) cis-1,3-Dichloropropene	10.142	75	192650	19.83 ug/L	98
43) 2-Chloroethylvinylether	9.974	63	17570	22.42 ug/L	99
44) 4-Methyl-2-pentanone	10.212	43	282051	39.88 ug/L	99
48) Toluene	10.424	92	265179	20.01 ug/L	99
49) trans-1,3-Dichloropropene	10.530	75	164255	19.91 ug/L	99
50) 1,1,2-Trichloroethane	10.688	83	93942	19.01 ug/L	98
51) 1,3-Dichloropropane	10.821	76	185580	20.08 ug/L	98
52) Tetrachloroethene	10.847	166	93628	20.24 ug/L	95
53) Dibromochloromethane	11.015	129	94557	20.13 ug/L	99
54) 1,2-Dibromoethane	11.129	107	109674	19.75 ug/L	99
55) 1-Chlorohexane	11.358	91	173811	20.91 ug/L	93
56) Chlorobenzene	11.455	112	228517	19.36 ug/L	96
57) n-Nonane	11.508	57	211350	22.46 ug/L	99
58) 1,1,1,2-Tetrachloroethane	11.491	131	77578	19.50 ug/L	97
59) Ethylbenzene	11.499	91	512684	20.69 ug/L	99
60) m,p-Xylene	11.570	106	315883	40.15 ug/L	98
61) o-Xylene	11.870	106	146048	19.81 ug/L	97
62) Styrene	11.870	104	275483	20.09 ug/L	98
63) Isopropylbenzene	12.108	105	389479	20.08 ug/L	99
64) Bromoform	12.055	173	66717	19.39 ug/L	98
65) 1,1,2,2-Tetrachloroethane	12.293	83	150286	20.27 ug/L	96
67) 2-Hexanone	10.821	43	192262	39.85 ug/L	98
69) 1,2,3-Trichloropropane	12.364	110	34874	19.68 ug/L	98
70) n-Propylbenzene	12.408	91	538758	19.55 ug/L	100
71) Bromobenzene	12.408	156	96411	18.73 ug/L	98
72) 1,3,5-Trimethylbenzene	12.505	105	345690	19.41 ug/L	100
73) 2-Chlorotoluene	12.514	91	361443	19.12 ug/L	98
74) 4-Chlorotoluene	12.584	91	323168	19.00 ug/L	99
75) tert-Butylbenzene	12.778	119	256268	18.71 ug/L	99
76) 1,2,4-Trimethylbenzene	12.804	105	346353	19.12 ug/L	99
77) sec-Butylbenzene	12.937	105	429957	19.33 ug/L	99
78) 4-Isopropyltoluene	13.016	119	290640	19.45 ug/L	99
79) 1,3-Dichlorobenzene	13.087	146	155588	19.78 ug/L	98
80) 1,4-Dichlorobenzene	13.148	146	172450	20.59 ug/L	97
81) Dicyclopentadiene	13.201	66	46237	18.40 ug/L	97
82) n-Butylbenzene	13.342	92	248758	19.76 ug/L	100
83) 1,2-Dichlorobenzene	13.466	146	149027	20.01 ug/L	100
84) 1,2-Dibromo-3-chloropr...	14.118	157	19222	18.84 ug/L	97
85) 1,2,4-Trichlorobenzene	14.947	180	121454	19.89 ug/L	96
86) Hexachlorobutadiene	15.079	190	28507	20.04 ug/L	98
87) Naphthalene	15.265	128	245523	20.35 ug/L	99
88) 1,2,3-Trichlorobenzene	15.538	180	110968	19.12 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033008.D
Acq On : 30 Mar 2014 19:32
Operator : JM
Sample : BSD
Misc : BSD
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 31 15:32:00 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033009.D
Acq On : 30 Mar 2014 19:58
Operator : JM
Sample : 481853-002
Misc : SMP
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 31 15:39:59 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

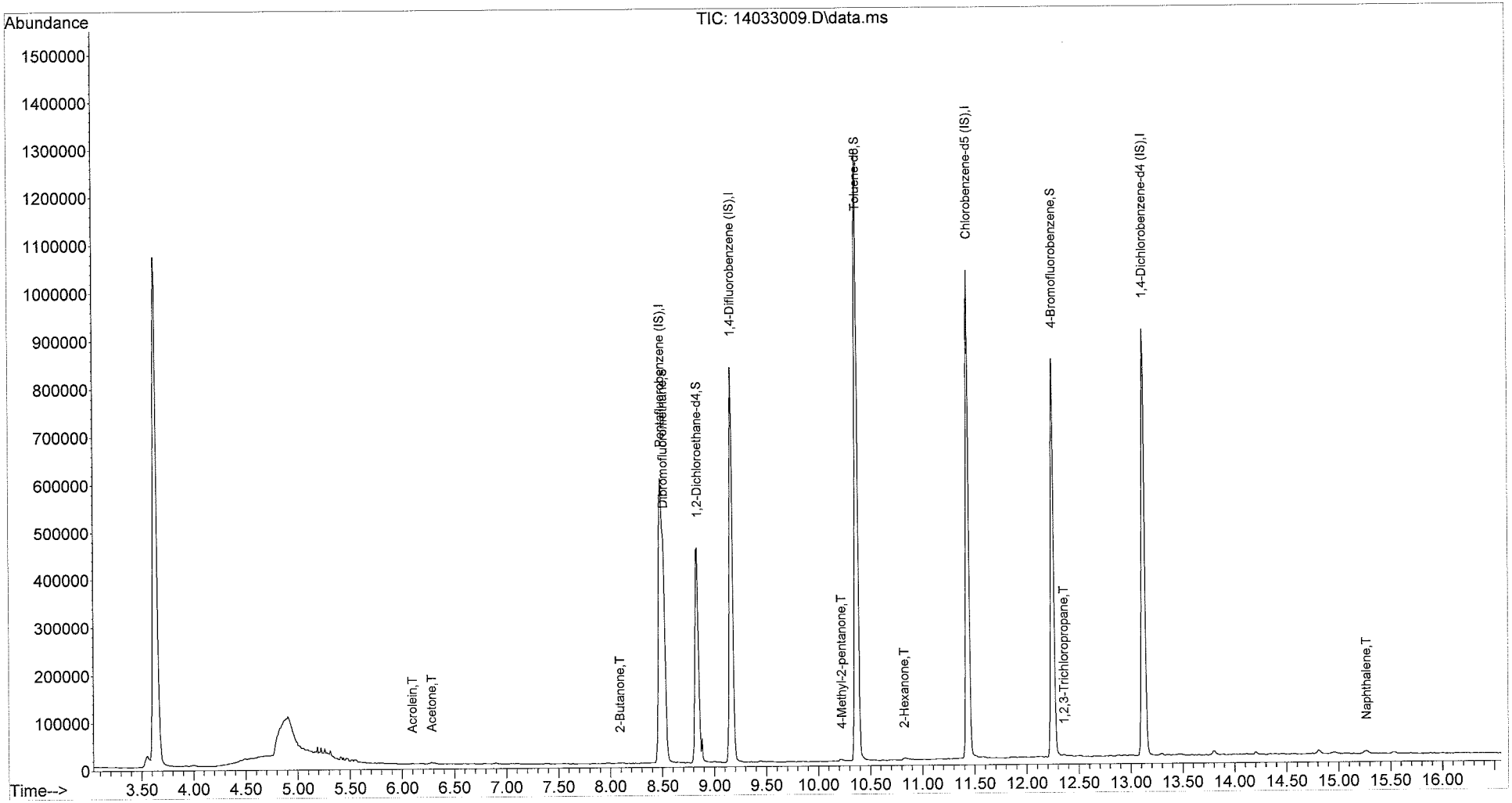
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.484	168	367772	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.163	114	645587	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.438	117	550269	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.122	152	256991	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.510	113	277344	48.49 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 96.98%		
45) 1,2-Dichloroethane-d4	8.837	65	355654	47.84 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 95.68%		
46) Toluene-d8	10.371	98	892112	49.04 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 98.08%		
66) 4-Bromofluorobenzene	12.249	95	358011	47.58 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 95.16%		
Target Compounds					Qvalue
6) Bromomethane	5.001	94	587	Below Cal #	42
7) Chloroethane	5.089	64	362	Below Cal #	1
9) Acrolein	6.094	56	1964	2.00 ug/L	95
24) Acetone	6.280	43	7398	0.56 ug/L #	88
25) 2-Butanone	8.087	43	5427	1.30 ug/L #	91
44) 4-Methyl-2-pentanone	10.221	43	5540	0.80 ug/L	96
65) 1,1,2,2-Tetrachloroethane	12.293	83	1999	Below Cal	89
67) 2-Hexanone	10.820	43	6089	1.48 ug/L	85
69) 1,2,3-Trichloropropane	12.355	110	763	0.67 ug/L	93
80) 1,4-Dichlorobenzene	13.148	146	718	Below Cal #	1
87) Naphthalene	15.264	128	6683	0.57 ug/L	94

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033009.D
Acq On : 30 Mar 2014 19:58
Operator : JM
Sample : 481853-002
Misc : SMP
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 31 15:39:59 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033010.D
Acq On : 30 Mar 2014 20:24
Operator : JM
Sample : 481853-003
Misc : SMP
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 31 15:40:39 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

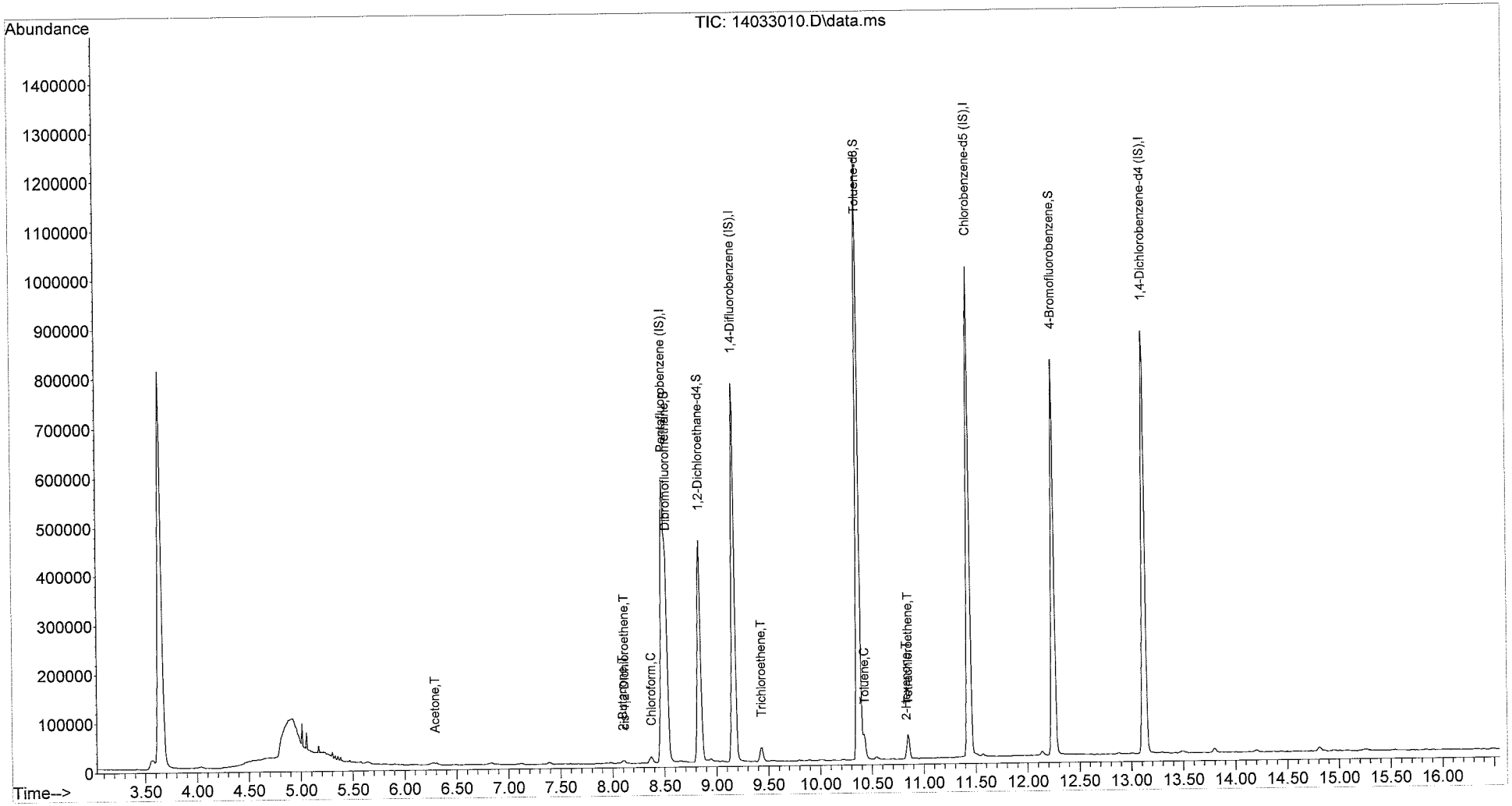
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.483	168	346070	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.162	114	604928	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.436	117	529271	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.121	152	251692	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.518	113	264238	49.09 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 98.18%		
45) 1,2-Dichloroethane-d4	8.835	65	345639	49.62 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 99.24%		
46) Toluene-d8	10.370	98	846455	49.65 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 99.30%		
66) 4-Bromofluorobenzene	12.248	95	343781	47.51 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 95.02%		
Target Compounds					Qvalue
6) Bromomethane	5.017	94	1430	Below Cal #	29
7) Chloroethane	5.150	64	325	Below Cal #	1
19) cis-1,2-Dichloroethene	8.112	96	2850	0.46 ug/L	80 CM
20) Chloroform	8.368	83	11426	1.08 ug/L	97
24) Acetone	6.287	43	7239	0.68 ug/L #	86 CM
25) 2-Butanone	8.095	43	3044	0.73 ug/L #	83 CM
37) Trichloroethene	9.426	95	12247	2.17 ug/L	95
48) Toluene	10.422	92	21634	1.75 ug/L	98
52) Tetrachloroethene	10.846	166	14260	3.31 ug/L	93
65) 1,1,2,2-Tetrachloroethane	12.292	83	999	Below Cal #	78
67) 2-Hexanone	10.828	43	2828	0.81 ug/L	83 CM
80) 1,4-Dichlorobenzene	13.129	146	249	Below Cal #	1

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033010.D
Acq On : 30 Mar 2014 20:24
Operator : JM
Sample : 481853-003
Misc : SMP
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 31 15:40:39 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033011.D
Acq On : 30 Mar 2014 20:49
Operator : JM
Sample : 481853-004
Misc : SMP
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 31 15:41:19 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

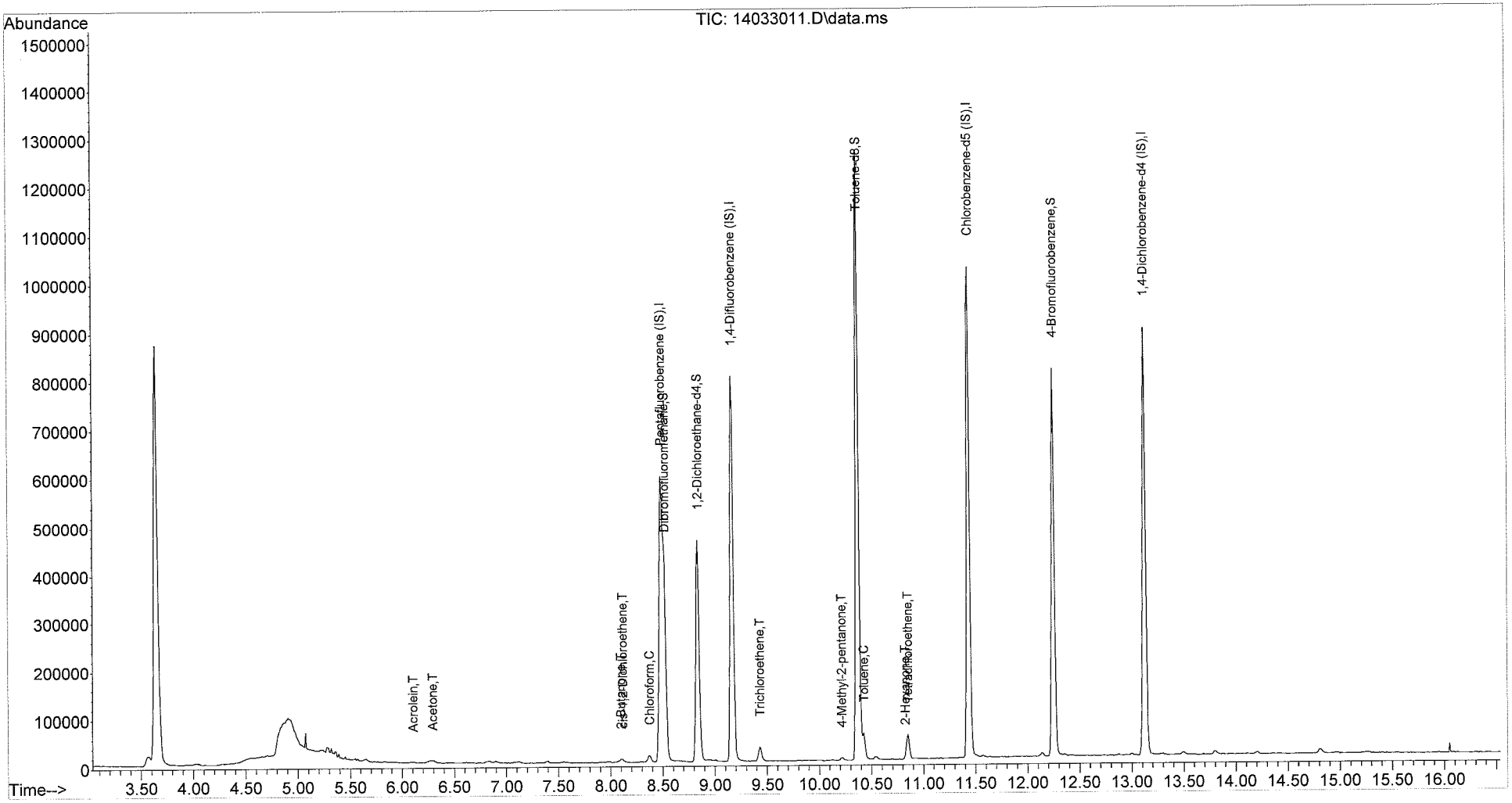
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.483	168	359190	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.162	114	625813	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.437	117	540143	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.121	152	249902	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.519	113	267792	47.93 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 95.86%		
45) 1,2-Dichloroethane-d4	8.836	65	351641	48.79 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 97.58%		
46) Toluene-d8	10.370	98	856940	48.59 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 97.18%		
66) 4-Bromofluorobenzene	12.248	95	344002	46.60 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 93.20%		
Target Compounds					Qvalue
6) Bromomethane	5.027	94	251	Below Cal #	33
7) Chloroethane	5.080	64	630	Below Cal #	1
9) Acrolein	6.103	56	2205	2.29 ug/L	99 cm
19) cis-1,2-Dichloroethene	8.113	96	3120	0.49 ug/L	96 cm
20) Chloroform	8.369	83	11778	1.07 ug/L	93
24) Acetone	6.288	43	10173	1.71 ug/L #	89 cm
25) 2-Butanone	8.095	43	5874	1.46 ug/L #	93 cm
37) Trichloroethene	9.427	95	12766	2.19 ug/L	93
44) 4-Methyl-2-pentanone	10.212	43	6019	0.90 ug/L	92 cm
48) Toluene	10.423	92	22440	1.78 ug/L	96
52) Tetrachloroethene	10.847	166	15100	3.44 ug/L	96
65) 1,1,2,2-Tetrachloroethane	12.293	83	1387	Below Cal	93
67) 2-Hexanone	10.820	43	4261	1.11 ug/L	87 cm
80) 1,4-Dichlorobenzene	13.130	146	351	Below Cal #	1

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033011.D
Acq On : 30 Mar 2014 20:49
Operator : JM
Sample : 481853-004
Misc : SMP
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 31 15:41:19 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033012.D
Acq On : 30 Mar 2014 21:15
Operator : JM
Sample : 481853-005
Misc : SMP
ALS Vial : 15 Sample Multiplier: 1

JM 4/1/14

Quant Time: Mar 31 15:42:03 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

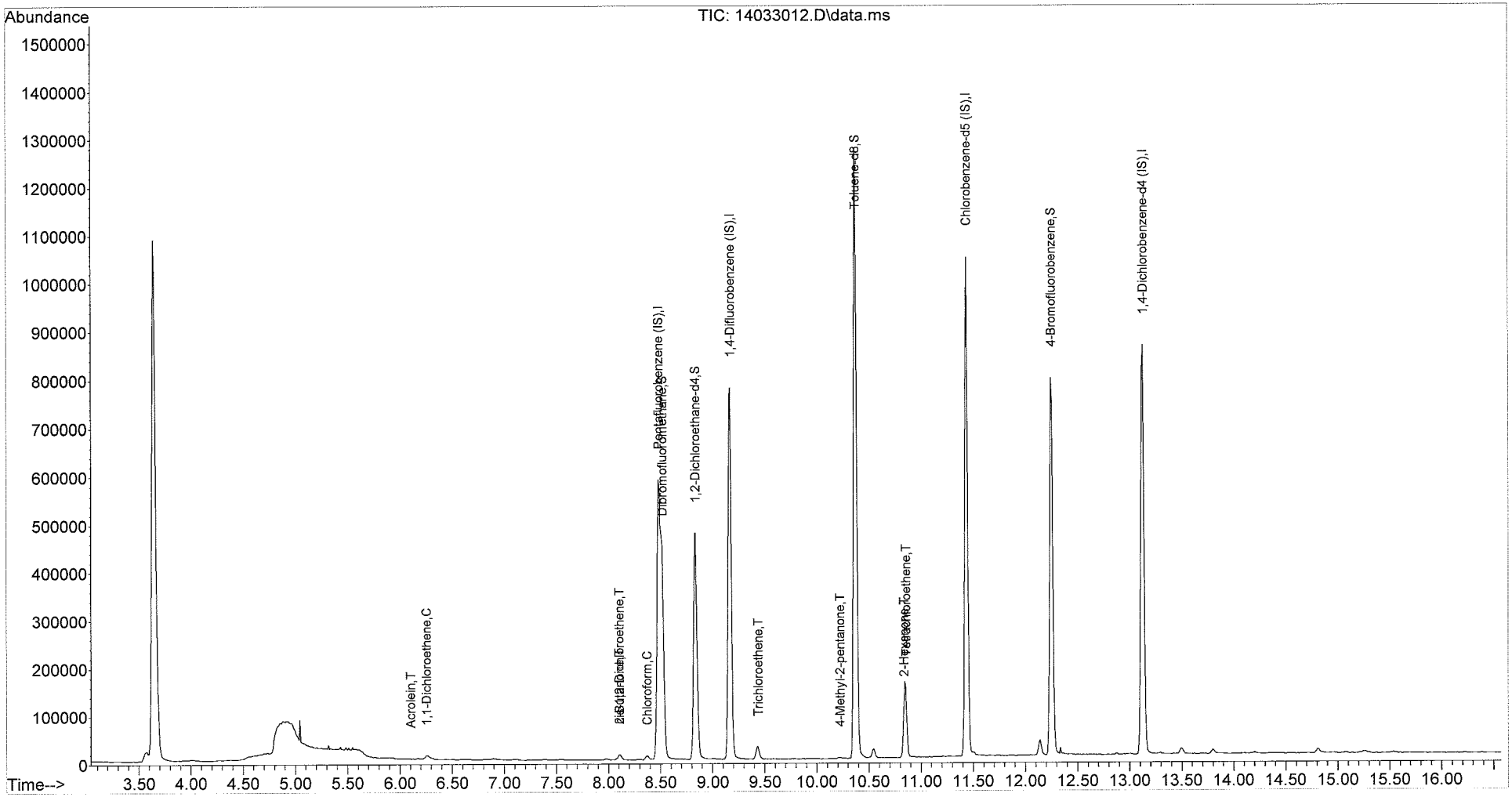
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.481	168	354533	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.168	114	619233	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.434	117	531741	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.127	152	247242	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.516	113	269922	48.95 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 97.90%		
45) 1,2-Dichloroethane-d4	8.833	65	359403	50.40 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 100.80%		
46) Toluene-d8	10.368	98	871023	49.91 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 99.82%		
66) 4-Bromofluorobenzene	12.246	95	346269	47.63 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 95.26%		
Target Compounds					Qvalue
6) Bromomethane	5.051	94	1281	Below Cal #	37
7) Chloroethane	5.157	64	574	Below Cal #	1
9) Acrolein	6.100	56	1017	1.07 ug/L #	81 cm
11) 1,1-Dichloroethene	6.250	61	6526	0.76 ug/L	91
19) cis-1,2-Dichloroethene	8.102	96	4983	0.79 ug/L	94
20) Chloroform	8.366	83	7332	0.68 ug/L	94
25) 2-Butanone	8.102	43	4386	1.07 ug/L #	95 cm
37) Trichloroethene	9.433	95	10617	1.84 ug/L	97
44) 4-Methyl-2-pentanone	10.218	43	2888	0.43 ug/L	91 cm
52) Tetrachloroethene	10.853	166	47602	11.01 ug/L	99
65) 1,1,2,2-Tetrachloroethane	12.290	83	835	Below Cal #	78
67) 2-Hexanone	10.835	43	2961	0.83 ug/L	88 cm
80) 1,4-Dichlorobenzene	13.145	146	275	Below Cal #	1

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033012.D
Acq On : 30 Mar 2014 21:15
Operator : JM
Sample : 481853-005
Misc : SMP
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 31 15:42:03 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033013.D
Acq On : 30 Mar 2014 21:41
Operator : JM
Sample : 481853-006
Misc : SMP
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 31 15:42:38 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

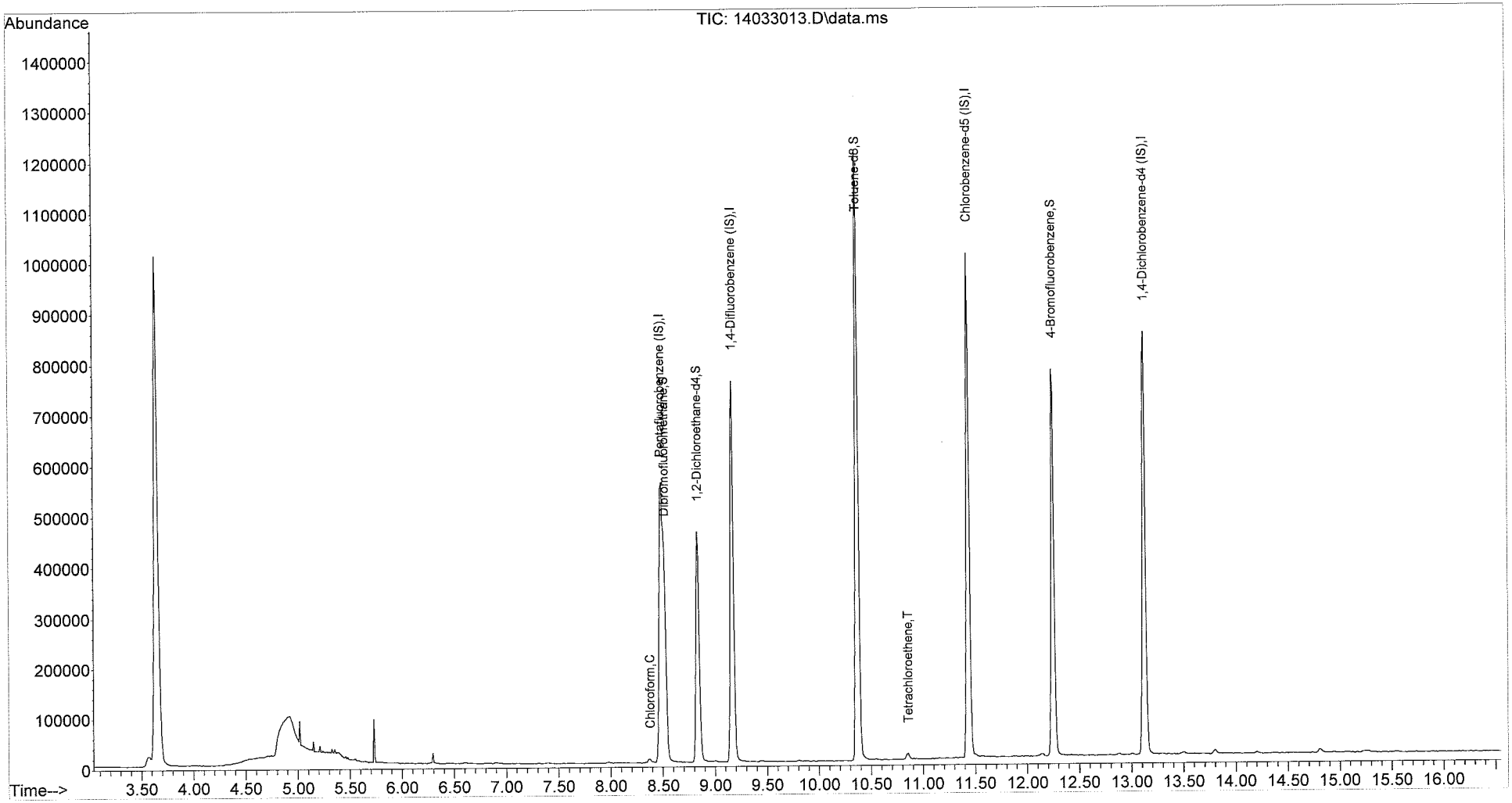
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.480	168	337726	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.168	114	588116	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.434	117	516957	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.127	152	241666	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.515	113	261500	49.78 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 99.56%		
45) 1,2-Dichloroethane-d4	8.833	65	351032	51.83 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 103.66%		
46) Toluene-d8	10.367	98	833327	50.28 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 100.56%		
66) 4-Bromofluorobenzene	12.245	95	335719	47.50 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 95.00%		
Target Compounds					Qvalue
6) Bromomethane	4.962	94	257	Below Cal #	40
7) Chloroethane	5.147	64	705	Below Cal #	1
20) Chloroform	8.374	83	6244	0.61 ug/L	89
52) Tetrachloroethene	10.852	166	3444	0.82 ug/L	98
65) 1,1,2,2-Tetrachloroethane	12.280	83	268	Below Cal #	70
80) 1,4-Dichlorobenzene	13.144	146	400	Below Cal #	1

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033013.D
Acq On : 30 Mar 2014 21:41
Operator : JM
Sample : 481853-006
Misc : SMP
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 31 15:42:38 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033014.D
Acq On : 30 Mar 2014 22:07
Operator : JM
Sample : 481853-007
Misc : SMP
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 31 15:43:15 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

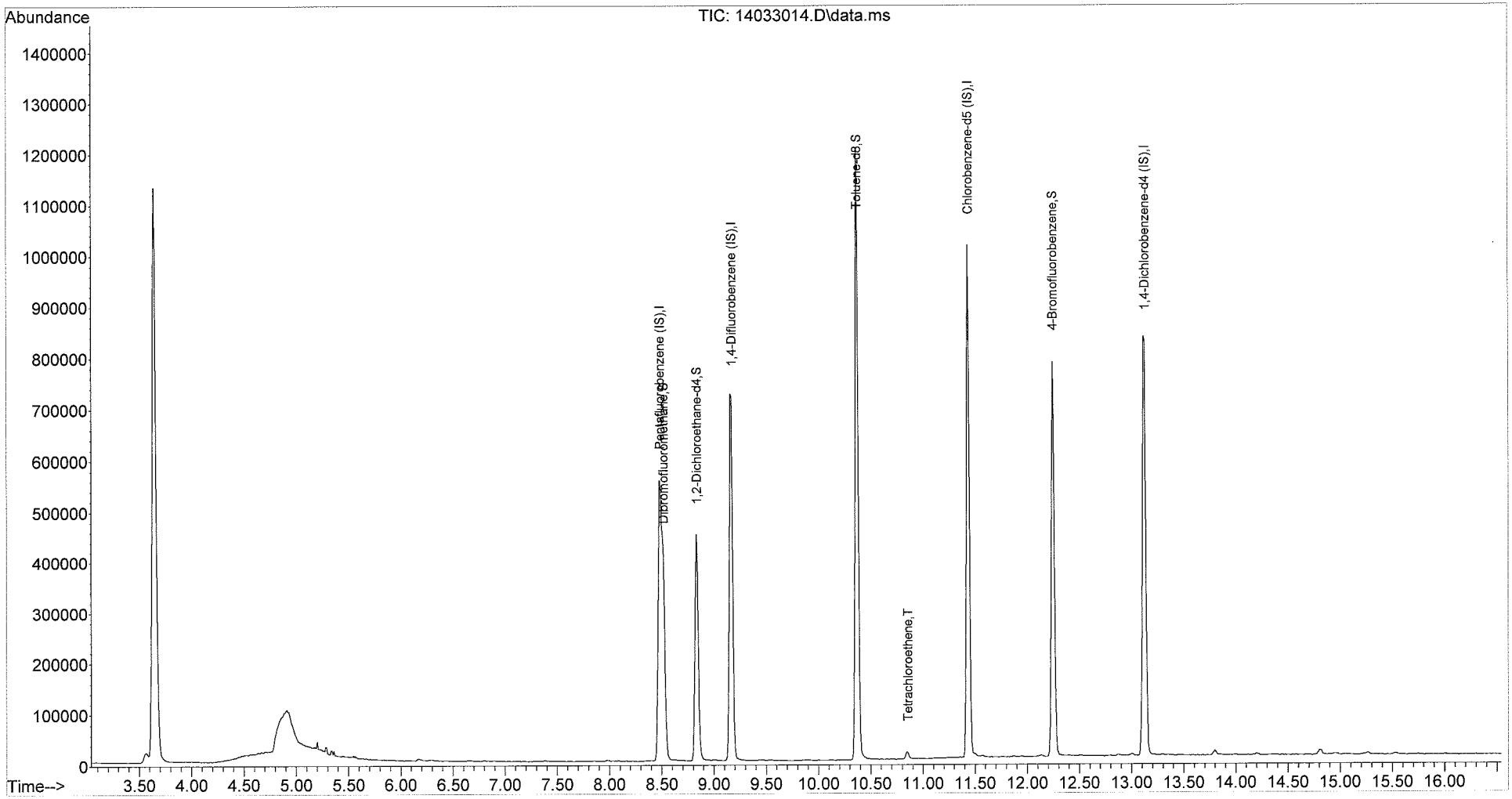
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.480	168	333619	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.168	114	582393	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.434	117	514882	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.127	152	243154	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.516	113	254282	49.01 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 98.02%		
45) 1,2-Dichloroethane-d4	8.833	65	341998	50.99 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 101.98%		
46) Toluene-d8	10.367	98	809484	49.32 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 98.64%		
66) 4-Bromofluorobenzene	12.245	95	329294	46.79 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 93.58%		
Target Compounds					Qvalue
6) Bromomethane	5.059	94	1706	Below Cal #	41
7) Chloroethane	5.183	64	420	Below Cal #	1
24) Acetone	6.285	43	4297	Below Cal #	74
52) Tetrachloroethene	10.852	166	4524	1.08 ug/L	94
65) 1,1,2,2-Tetrachloroethane	12.290	83	165	Below Cal #	74
80) 1,4-Dichlorobenzene	13.145	146	583	Below Cal #	1

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033014.D
Acq On : 30 Mar 2014 22:07
Operator : JM
Sample : 481853-007
Misc : SMP
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 31 15:43:15 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033015.D
Acq On : 30 Mar 2014 22:32
Operator : JM
Sample : 481853-008
Misc : SMP
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 31 15:43:46 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

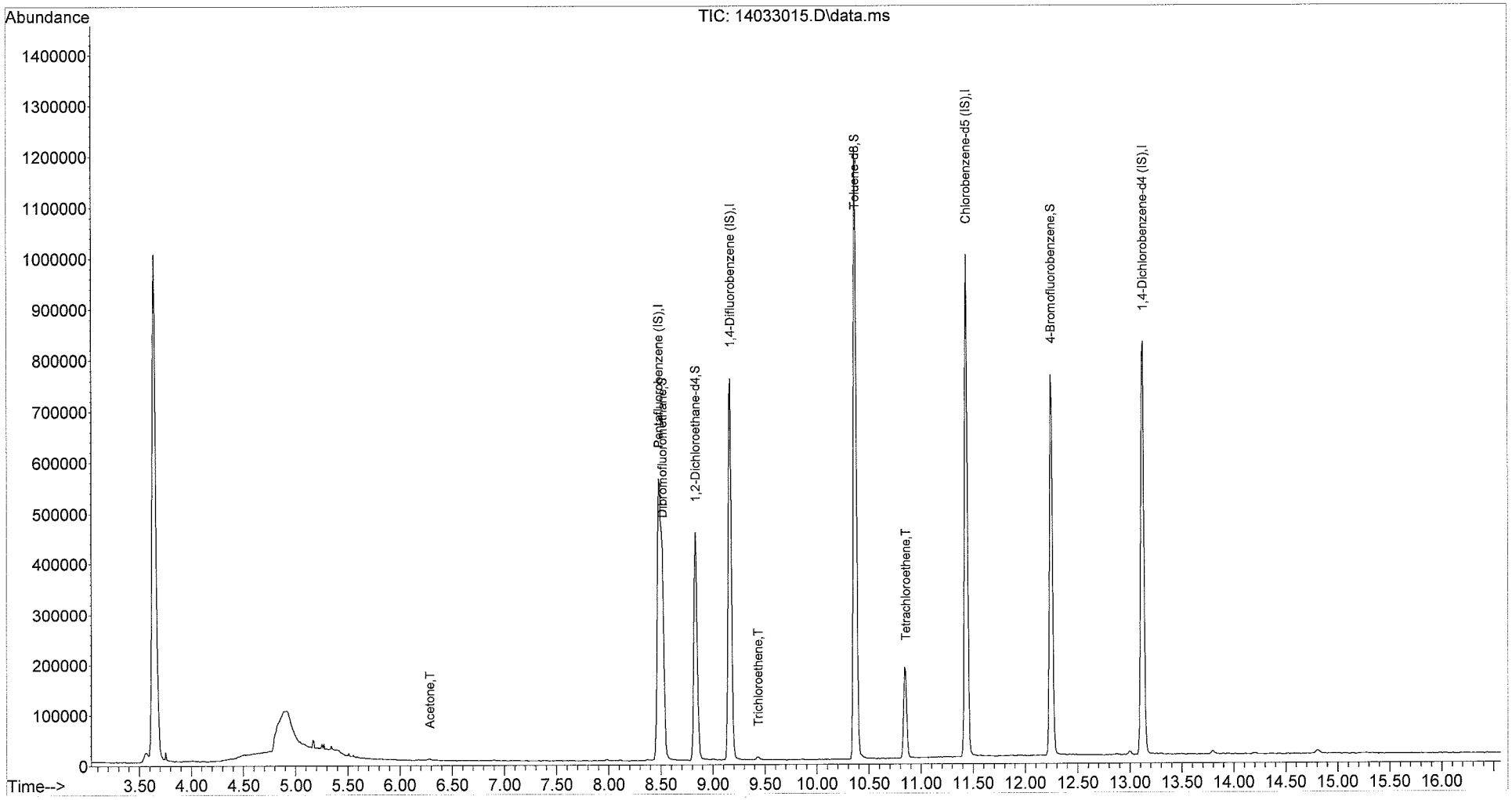
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.479	168	343065	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.167	114	594322	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.433	117	510592	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.126	152	236191	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.514	113	260246	48.77 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 97.54%		
45) 1,2-Dichloroethane-d4	8.832	65	348552	50.93 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 101.86%		
46) Toluene-d8	10.366	98	820325	48.98 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 97.96%		
66) 4-Bromofluorobenzene	12.244	95	329775	47.24 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 94.48%		
Target Compounds					Qvalue
6) Bromomethane	5.014	94	947	Below Cal #	41
7) Chloroethane	5.190	64	273	Below Cal #	1
24) Acetone	6.283	43	6535	0.41 ug/L #	71
37) Trichloroethene	9.431	95	2341	0.42 ug/L #	84
52) Tetrachloroethene	10.851	166	55048	13.26 ug/L	99
65) 1,1,2,2-Tetrachloroethane	12.279	83	103	Below Cal #	50
79) 1,3-Dichlorobenzene	13.046	146	33	Below Cal #	1
80) 1,4-Dichlorobenzene	13.117	146	116	Below Cal #	1

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033015.D
Acq On : 30 Mar 2014 22:32
Operator : JM
Sample : 481853-008
Misc : SMP
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 31 15:43:46 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033016.D
Acq On : 30 Mar 2014 22:58
Operator : JM
Sample : 481853-009
Misc : SMP
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 15:44:25 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

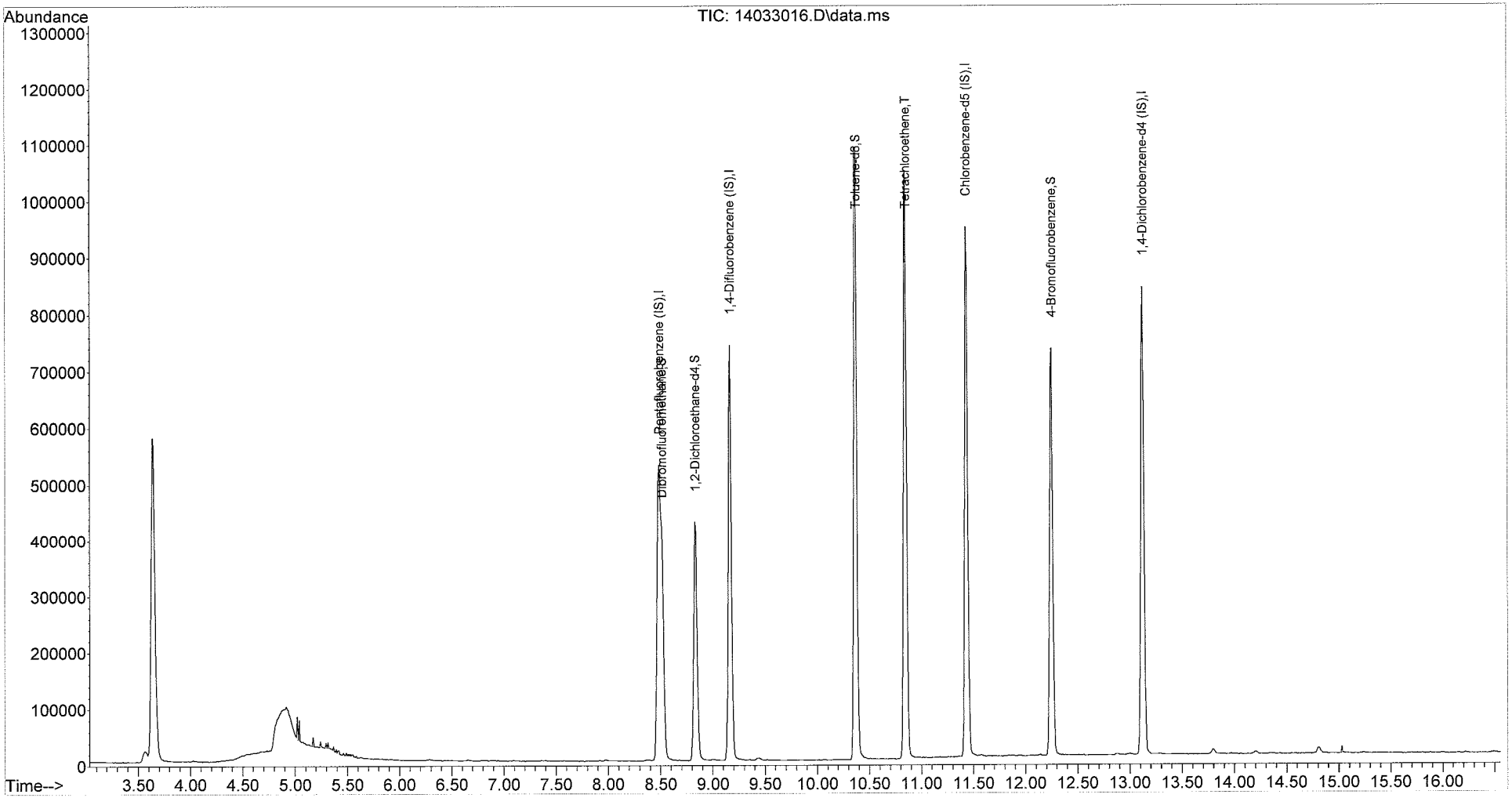
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.485	168	318614	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.164	114	560314	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.430	117	489132	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.123	152	229267	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.511	113	244944	49.43 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 98.86%		
45) 1,2-Dichloroethane-d4	8.829	65	333082	51.62 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 103.24%		
46) Toluene-d8	10.372	98	777571	49.24 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 98.48%		
66) 4-Bromofluorobenzene	12.250	95	314744	47.07 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 94.14%		
Target Compounds					Qvalue
6) Bromomethane	5.002	94	745	Below Cal #	35
7) Chloroethane	5.161	64	402	Below Cal #	1
52) Tetrachloroethene	10.848	166	316614	79.60 ug/L	99
65) 1,1,2,2-Tetrachloroethane	12.250	83	416	Below Cal #	41
80) 1,4-Dichlorobenzene	13.149	146	205	Below Cal #	1

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033016.D
Acq On : 30 Mar 2014 22:58
Operator : JM
Sample : 481853-009
Misc : SMP
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 15:44:25 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033017.D
Acq On : 30 Mar 2014 23:24
Operator : JM
Sample : 481853-010
Misc : SMP
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 31 15:44:59 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

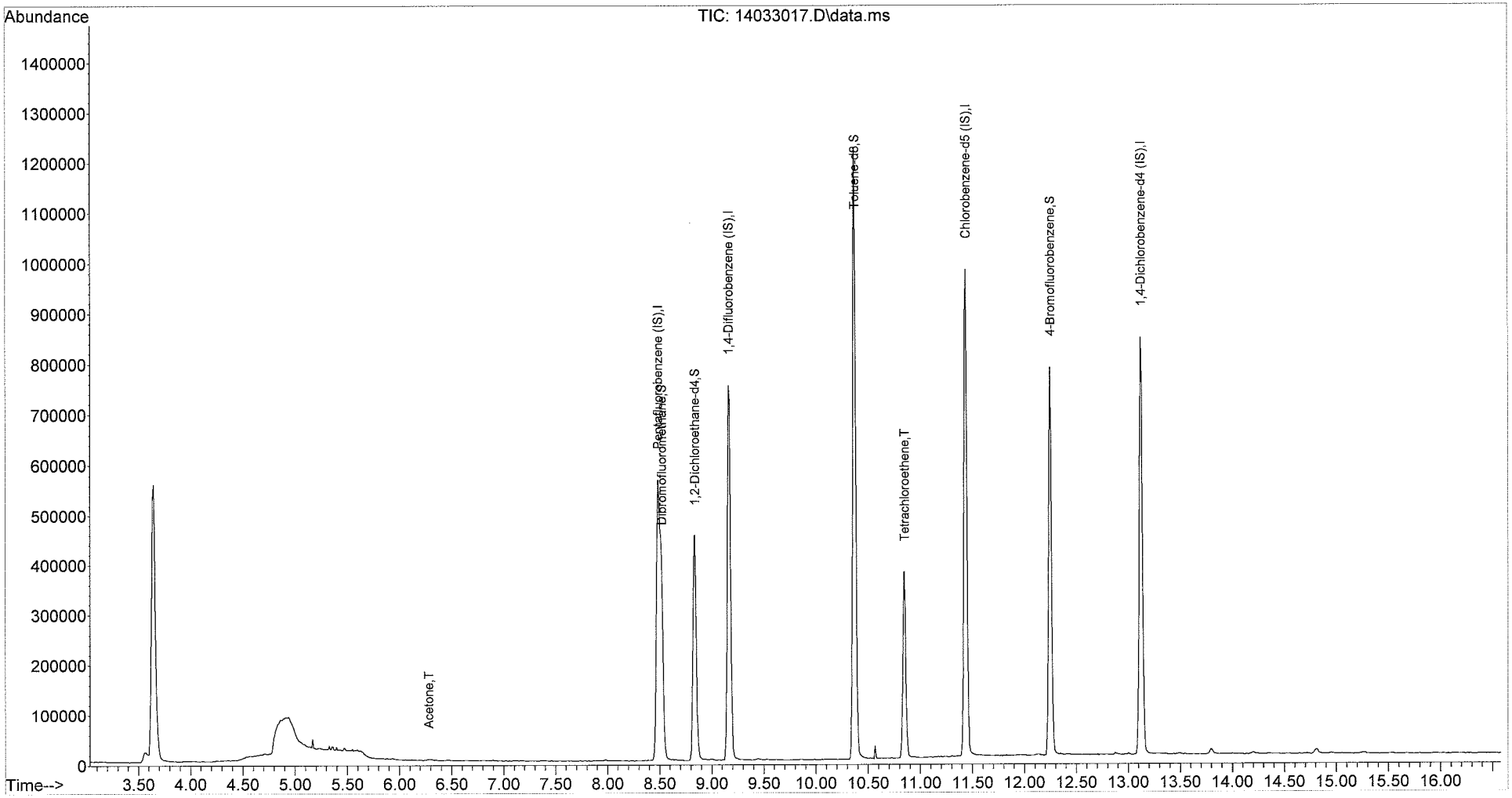
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.483	168	334688	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.162	114	584043	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.437	117	509414	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.121	152	234270	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.518	113	258051	49.57 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 99.14%		
45) 1,2-Dichloroethane-d4	8.835	65	349606	51.98 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 103.96%		
46) Toluene-d8	10.370	98	819178	49.77 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 99.54%		
66) 4-Bromofluorobenzene	12.248	95	324600	46.62 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 93.24%		
Target Compounds					Qvalue
6) Bromomethane	5.026	94	544	Below Cal #	37
7) Chloroethane	5.070	64	315	Below Cal #	1
24) Acetone	6.278	43	6686	0.54 ug/L #	80
52) Tetrachloroethene	10.846	166	106878	25.80 ug/L	95
65) 1,1,2,2-Tetrachloroethane	12.301	83	83	Below Cal #	83
80) 1,4-Dichlorobenzene	13.147	146	203	Below Cal #	1

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033017.D
Acq On : 30 Mar 2014 23:24
Operator : JM
Sample : 481853-010
Misc : SMP
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 31 15:44:59 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033018.D
Acq On : 30 Mar 2014 23:50
Operator : JM
Sample : 481853-011
Misc : SMP
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 31 15:45:33 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

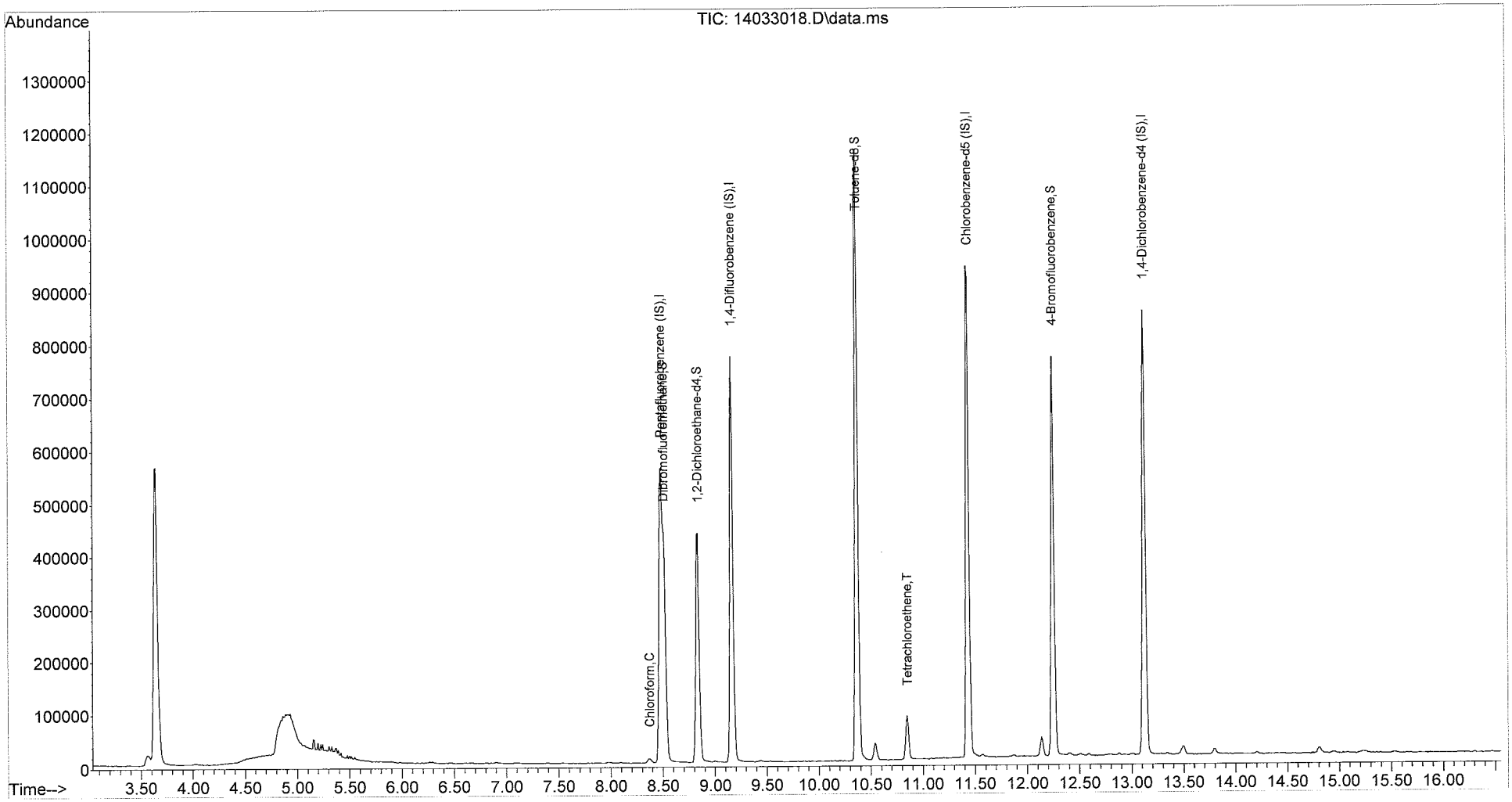
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.483	168	332992	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.162	114	575888	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.437	117	500427	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.121	152	232407	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.510	113	256040	49.44 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 98.88%		
45) 1,2-Dichloroethane-d4	8.836	65	348821	52.60 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 105.20%		
46) Toluene-d8	10.370	98	807898	49.78 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 99.56%		
66) 4-Bromofluorobenzene	12.248	95	320621	46.87 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 93.74%		
Target Compounds					Qvalue
6) Bromomethane	5.009	94	607	Below Cal #	42
7) Chloroethane	5.177	64	299	Below Cal #	1
20) Chloroform	8.368	83	7189	0.71 ug/L	95
52) Tetrachloroethene	10.846	166	24466	6.01 ug/L	99
65) 1,1,2,2-Tetrachloroethane	12.292	83	465	Below Cal #	48
80) 1,4-Dichlorobenzene	13.147	146	1565	Below Cal #	1

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033018.D
Acq On : 30 Mar 2014 23:50
Operator : JM
Sample : 481853-011
Misc : SMP
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 31 15:45:33 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033019.D
Acq On : 31 Mar 2014 00:16
Operator : JM
Sample : 481853-002 S
Misc : MS
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 31 15:32:54 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.480	168	317760	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.159	114	560163	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.434	117	499493	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.118	152	237995	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.507	113	249297	50.44 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 100.88%		
45) 1,2-Dichloroethane-d4	8.833	65	339202	52.58 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 105.16%		
46) Toluene-d8	10.367	98	787977	49.92 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 99.84%		
66) 4-Bromofluorobenzene	12.245	95	347850	50.87 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 101.74%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.001	85	106460	21.25 ug/L	99
3) Chloromethane	4.371	50	139029	19.93 ug/L	97
4) Vinyl chloride	4.539	62	121767	19.96 ug/L	97
5) 1,3-Butadiene	4.601	54	42133	15.05 ug/L	96
6) Bromomethane	4.944	94	14977	16.39 ug/L	97
7) Chloroethane	5.094	64	38028	20.33 ug/L	99
8) Trichlorofluoromethane	5.526	101	172363	21.37 ug/L	99
9) Acrolein	6.091	56	71463	84.04 ug/L	99
10) Trichlorotrifluoroethane	6.223	151	57707	20.83 ug/L	96
11) 1,1-Dichloroethene	6.249	61	164966	21.38 ug/L	99
12) Methylene chloride	6.796	84	127715	20.56 ug/L	98
13) Acrylonitrile	7.052	53	53947	22.58 ug/L	100
14) trans-1,2-Dichloroethene	7.114	61	163887	21.13 ug/L	97
15) n-Hexane	7.387	57	146739	20.52 ug/L	100
16) 1,1-Dichloroethane	7.546	63	193943	20.75 ug/L	100
17) Cyclohexane	8.674	84	143849	21.34 ug/L	92
18) 2,2-Dichloropropane	8.128	77	155059	20.61 ug/L	98
19) cis-1,2-Dichloroethene	8.101	96	116274	20.62 ug/L	99
20) Chloroform	8.366	83	207336	21.36 ug/L	98
21) Bromochloromethane	8.330	128	45899	20.51 ug/L	96
23) 1,1,1-Trichloroethane	8.595	97	157906	21.40 ug/L	99
24) Acetone	6.276	43	116434	48.95 ug/L	95
25) 2-Butanone	8.075	43	152047	45.87 ug/L	99
26) Carbon Disulfide	6.593	76	369893	21.21 ug/L	100
27) Iodomethane	6.479	142	126967	21.26 ug/L	99
28) Vinyl acetate	7.528	43	362493	12.17 ug/L	99
29) Methyl tert-butyl ether	7.096	73	273420	22.22 ug/L	99
31) 1,1-Dichloropropene	8.727	75	143345	21.44 ug/L	98
32) Carbon tetrachloride	8.754	117	107891	21.05 ug/L	99
33) 1,2-Dichloroethane	8.895	62	162936	21.65 ug/L	98
34) Benzene	8.921	78	389692	20.81 ug/L	100
35) 2,2,4-Trimethylpentane	8.948	57	402057	21.09 ug/L	100
36) n-Heptane	9.053	57	89339	21.26 ug/L	95
37) Trichloroethene	9.424	95	106838	20.45 ug/L	97

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033019.D
Acq On : 31 Mar 2014 00:16
Operator : JM
Sample : 481853-002 S
Misc : MS
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 31 15:32:54 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

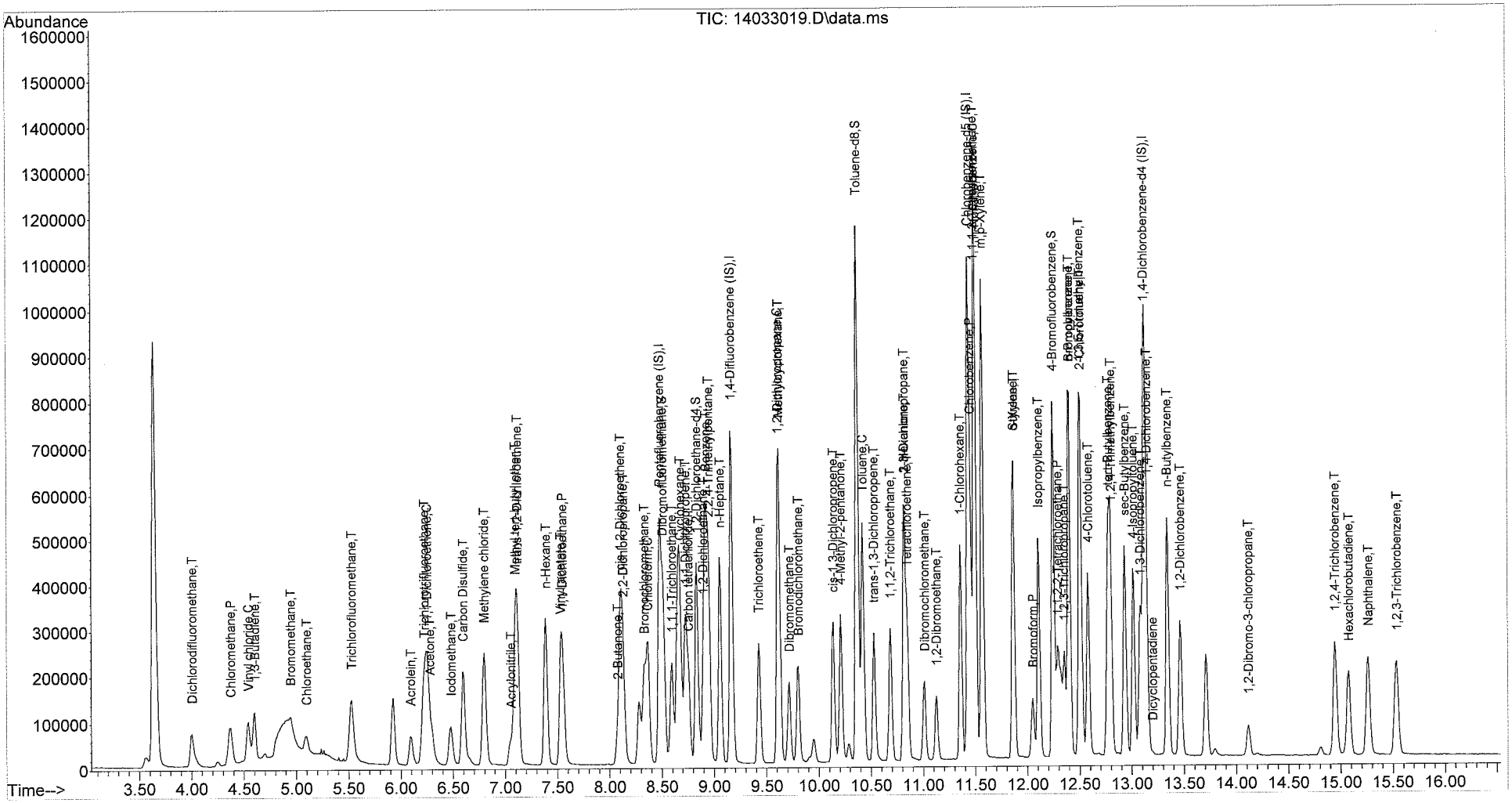
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.609	63	107466	20.92 ug/L	98
39) Bromodichloromethane	9.803	83	148995	21.51 ug/L	99
40) Methylcyclohexane	9.618	56	47995	21.40 ug/L	97
41) Dibromomethane	9.715	93	83987	21.17 ug/L	98
42) cis-1,3-Dichloropropene	10.138	75	173280	21.00 ug/L	99
44) 4-Methyl-2-pentanone	10.208	43	279976	46.59 ug/L	99
48) Toluene	10.420	92	231093	19.86 ug/L	98
49) trans-1,3-Dichloropropene	10.526	75	148948	20.56 ug/L	99
50) 1,1,2-Trichloroethane	10.685	83	87760	20.22 ug/L	97
51) 1,3-Dichloropropane	10.817	76	172339	21.24 ug/L	99
52) Tetrachloroethene	10.843	166	83803	20.63 ug/L	97
53) Dibromochloromethane	11.011	129	86198	20.89 ug/L	99
54) 1,2-Dibromoethane	11.125	107	102888	21.10 ug/L	98
55) 1-Chlorohexane	11.355	91	151581	20.77 ug/L	91
56) Chlorobenzene	11.452	112	204331	19.71 ug/L	96
57) n-Nonane	11.505	57	169541	20.51 ug/L	98
58) 1,1,1,2-Tetrachloroethane	11.487	131	70943	20.30 ug/L	96
59) Ethylbenzene	11.496	91	456094	20.95 ug/L	99
60) m,p-Xylene	11.566	106	280057	40.54 ug/L	97
61) o-Xylene	11.866	106	131496	20.31 ug/L #	85
62) Styrene	11.866	104	89970	7.47 ug/L #	76
63) Isopropylbenzene	12.104	105	342625	20.11 ug/L	98
64) Bromoform	12.051	173	61426	20.33 ug/L	99
65) 1,1,2,2-Tetrachloroethane	12.289	83	144510	22.23 ug/L	97
67) 2-Hexanone	10.817	43	194142	45.80 ug/L	99
69) 1,2,3-Trichloropropane	12.351	110	33894	21.41 ug/L	90
70) n-Propylbenzene	12.404	91	479335	19.49 ug/L	100
71) Bromobenzene	12.404	156	86860	18.90 ug/L	98
72) 1,3,5-Trimethylbenzene	12.501	105	306541	19.28 ug/L	99
73) 2-Chlorotoluene	12.510	91	327997	19.44 ug/L	99
74) 4-Chlorotoluene	12.580	91	294261	19.38 ug/L	99
75) tert-Butylbenzene	12.774	119	230625	18.86 ug/L	99
76) 1,2,4-Trimethylbenzene	12.801	105	310751	19.22 ug/L	99
77) sec-Butylbenzene	12.933	105	379141	19.10 ug/L	98
78) 4-Isopropyltoluene	13.012	119	252965	18.97 ug/L	98
79) 1,3-Dichlorobenzene	13.083	146	138151	19.68 ug/L	97
80) 1,4-Dichlorobenzene	13.145	146	154423	20.65 ug/L	98
81) Dicyclopentadiene	13.198	66	5220	2.33 ug/L #	78
82) n-Butylbenzene	13.339	92	218857	19.48 ug/L	98
83) 1,2-Dichlorobenzene	13.462	146	132513	19.94 ug/L	99
84) 1,2-Dibromo-3-chloropr...	14.115	157	19184	21.07 ug/L	96
85) 1,2,4-Trichlorobenzene	14.943	180	106446	19.53 ug/L	98
86) Hexachlorobutadiene	15.076	190	25555	20.13 ug/L	97
87) Naphthalene	15.261	128	230623	21.42 ug/L	99
88) 1,2,3-Trichlorobenzene	15.534	180	97028	18.74 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033019.D
Acq On : 31 Mar 2014 00:16
Operator : JM
Sample : 481853-002 S
Misc : MS
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 31 15:32:54 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033020.D
Acq On : 31 Mar 2014 00:42
Operator : JM
Sample : 481853-002 SD
Misc : MSD
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 15:32:58 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.484	168	312491	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.163	114	557312	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.429	117	500295	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.122	152	233798	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.510	113	244874	50.38 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 100.76%		
45) 1,2-Dichloroethane-d4	8.828	65	335976	52.35 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 104.70%		
46) Toluene-d8	10.371	98	764330	48.67 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 97.34%		
66) 4-Bromofluorobenzene	12.249	95	339420	49.58 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 99.16%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.996	85	101486	20.60 ug/L	98
3) Chloromethane	4.366	50	137403	20.03 ug/L	99
4) Vinyl chloride	4.534	62	114139	19.03 ug/L	98
5) 1,3-Butadiene	4.596	54	45301	16.46 ug/L	94
6) Bromomethane	4.948	94	14304	15.79 ug/L	98
7) Chloroethane	5.089	64	33976	18.33 ug/L	95
8) Trichlorofluoromethane	5.521	101	163541	20.62 ug/L	99
9) Acrolein	6.095	56	90868	108.66 ug/L	96
10) Trichlorotrifluoroethane	6.218	151	56453	20.72 ug/L	95
11) 1,1-Dichloroethene	6.244	61	157581	20.77 ug/L	99
12) Methylene chloride	6.800	84	124419	20.37 ug/L	99
13) Acrylonitrile	7.047	53	55886	23.79 ug/L	96
14) trans-1,2-Dichloroethene	7.117	61	159614	20.93 ug/L	100
15) n-Hexane	7.382	57	141144	20.07 ug/L	96
16) 1,1-Dichloroethane	7.549	63	193066	21.01 ug/L	100
17) Cyclohexane	8.669	84	136042	20.52 ug/L	93
18) 2,2-Dichloropropane	8.123	77	151309	20.45 ug/L	99
19) cis-1,2-Dichloroethene	8.105	96	115556	20.83 ug/L	99
20) Chloroform	8.361	83	201412	21.10 ug/L	99
21) Bromochloromethane	8.334	128	47270	21.48 ug/L	88
23) 1,1,1-Trichloroethane	8.590	97	152423	21.01 ug/L	98
24) Acetone	6.280	43	124732	53.52 ug/L	97
25) 2-Butanone	8.078	43	157990	48.48 ug/L	99
26) Carbon Disulfide	6.597	76	355836	20.75 ug/L	98
27) Iodomethane	6.474	142	118788	20.22 ug/L	99
28) Vinyl acetate	7.523	43	525639	17.95 ug/L	99
29) Methyl tert-butyl ether	7.091	73	279964	23.13 ug/L	99
31) 1,1-Dichloropropene	8.722	75	135570	20.38 ug/L	99
32) Carbon tetrachloride	8.749	117	105053	20.60 ug/L	98
33) 1,2-Dichloroethane	8.898	62	160917	21.50 ug/L	99
34) Benzene	8.916	78	379673	20.38 ug/L	99
35) 2,2,4-Trimethylpentane	8.943	57	391689	20.65 ug/L	100
36) n-Heptane	9.057	57	85856	20.53 ug/L	98
37) Trichloroethene	9.427	95	103559	19.92 ug/L	98

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033020.D
Acq On : 31 Mar 2014 00:42
Operator : JM
Sample : 481853-002 SD
Misc : MSD
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 15:32:58 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

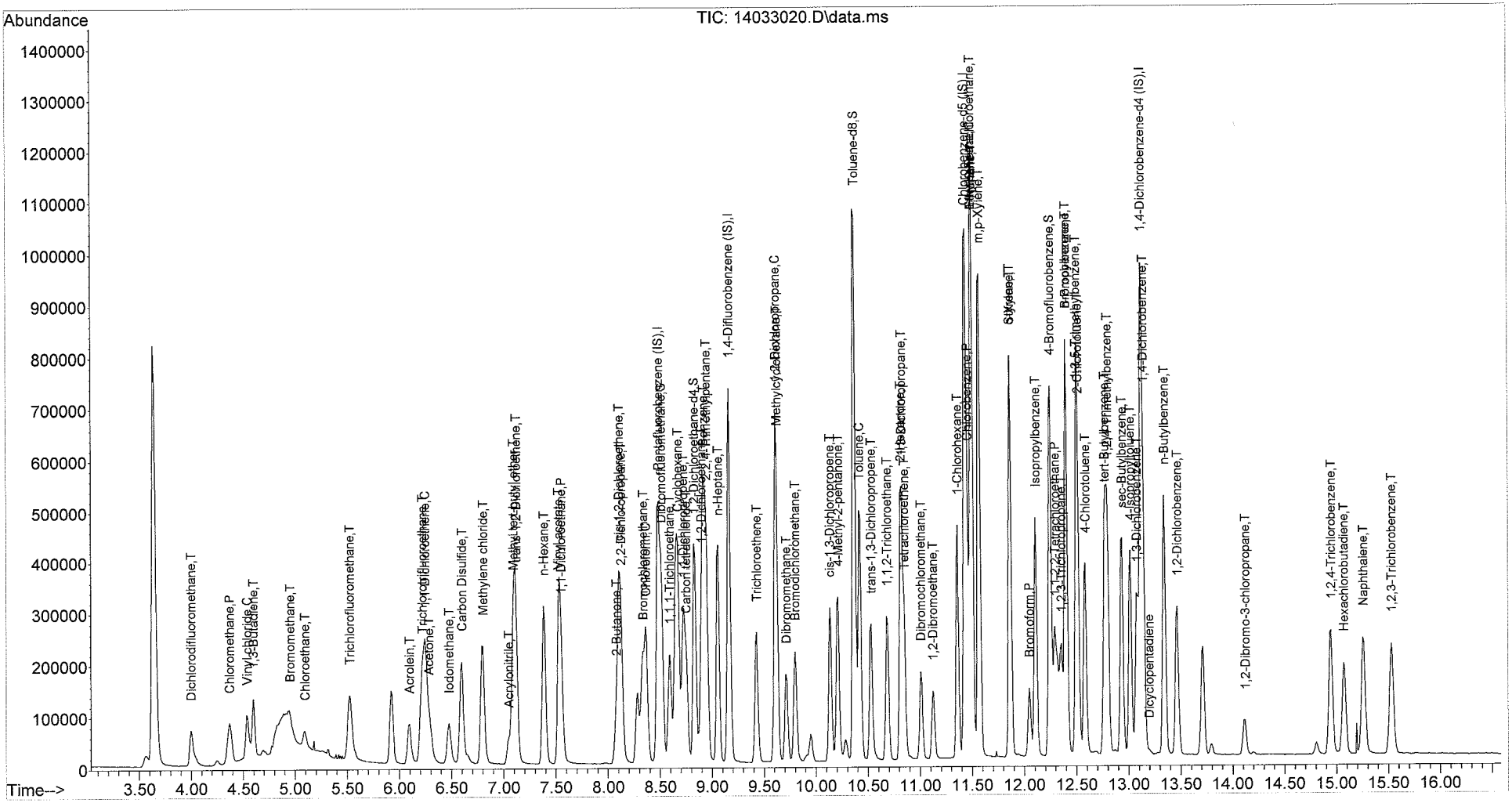
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.613	63	107336	21.00 ug/L	97
39) Bromodichloromethane	9.798	83	147053	21.33 ug/L	99
40) Methylcyclohexane	9.621	56	44744	20.05 ug/L	96
41) Dibromomethane	9.710	93	85187	21.59 ug/L	99
42) cis-1,3-Dichloropropene	10.133	75	170263	20.74 ug/L	96
44) 4-Methyl-2-pentanone	10.212	43	289944	48.50 ug/L	99
48) Toluene	10.415	92	230571	19.78 ug/L	98
49) trans-1,3-Dichloropropene	10.530	75	148471	20.46 ug/L	98
50) 1,1,2-Trichloroethane	10.680	83	88024	20.25 ug/L	97
51) 1,3-Dichloropropane	10.821	76	167167	20.57 ug/L	97
52) Tetrachloroethene	10.847	166	80559	19.80 ug/L	98
53) Dibromochloromethane	11.006	129	84588	20.47 ug/L	95
54) 1,2-Dibromoethane	11.120	107	103593	21.21 ug/L	97
55) 1-Chlorohexane	11.358	91	145826	19.95 ug/L	97
56) Chlorobenzene	11.455	112	199374	19.20 ug/L	96
57) n-Nonane	11.500	57	158816	19.19 ug/L	96
58) 1,1,1,2-Tetrachloroethane	11.491	131	67852	19.39 ug/L	94
59) Ethylbenzene	11.491	91	431214	19.78 ug/L	99
60) m,p-Xylene	11.570	106	271170	39.19 ug/L	99
61) o-Xylene	11.861	106	125690	19.38 ug/L	91
62) Styrene	11.861	104	157547	13.06 ug/L	90
63) Isopropylbenzene	12.108	105	333378	19.54 ug/L	98
64) Bromoform	12.046	173	63045	20.83 ug/L	98
65) 1,1,2,2-Tetrachloroethane	12.293	83	148867	22.87 ug/L	98
67) 2-Hexanone	10.812	43	199801	47.05 ug/L	99
69) 1,2,3-Trichloropropane	12.355	110	33727	21.68 ug/L	92
70) n-Propylbenzene	12.399	91	461145	19.09 ug/L	98
71) Bromobenzene	12.399	156	84445	18.71 ug/L	96
72) 1,3,5-Trimethylbenzene	12.496	105	299151	19.16 ug/L	98
73) 2-Chlorotoluene	12.514	91	321727	19.41 ug/L	96
74) 4-Chlorotoluene	12.584	91	277324	18.59 ug/L	99
75) tert-Butylbenzene	12.769	119	225563	18.78 ug/L	99
76) 1,2,4-Trimethylbenzene	12.796	105	299756	18.88 ug/L	99
77) sec-Butylbenzene	12.937	105	364461	18.69 ug/L	98
78) 4-Isopropyltoluene	13.016	119	244686	18.68 ug/L	99
79) 1,3-Dichlorobenzene	13.078	146	137399	19.92 ug/L	99
80) 1,4-Dichlorobenzene	13.140	146	145835	19.85 ug/L	97
81) Dicyclopentadiene	13.192	66	6341	2.88 ug/L #	88
82) n-Butylbenzene	13.342	92	210428	19.06 ug/L	98
83) 1,2-Dichlorobenzene	13.466	146	131391	20.13 ug/L	98
84) 1,2-Dibromo-3-chloropr...	14.118	157	19884	22.23 ug/L	99
85) 1,2,4-Trichlorobenzene	14.947	180	107404	20.06 ug/L	98
86) Hexachlorobutadiene	15.071	190	23739	19.03 ug/L	98
87) Naphthalene	15.256	128	248379	23.48 ug/L	99
88) 1,2,3-Trichlorobenzene	15.529	180	101819	20.01 ug/L	97

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033020.D
Acq On : 31 Mar 2014 00:42
Operator : JM
Sample : 481853-002 SD
Misc : MSD
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 15:32:58 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033021.D
Acq On : 31 Mar 2014 1:07
Operator : JM
Sample : 481853-012
Misc : SMP
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 15:46:25 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

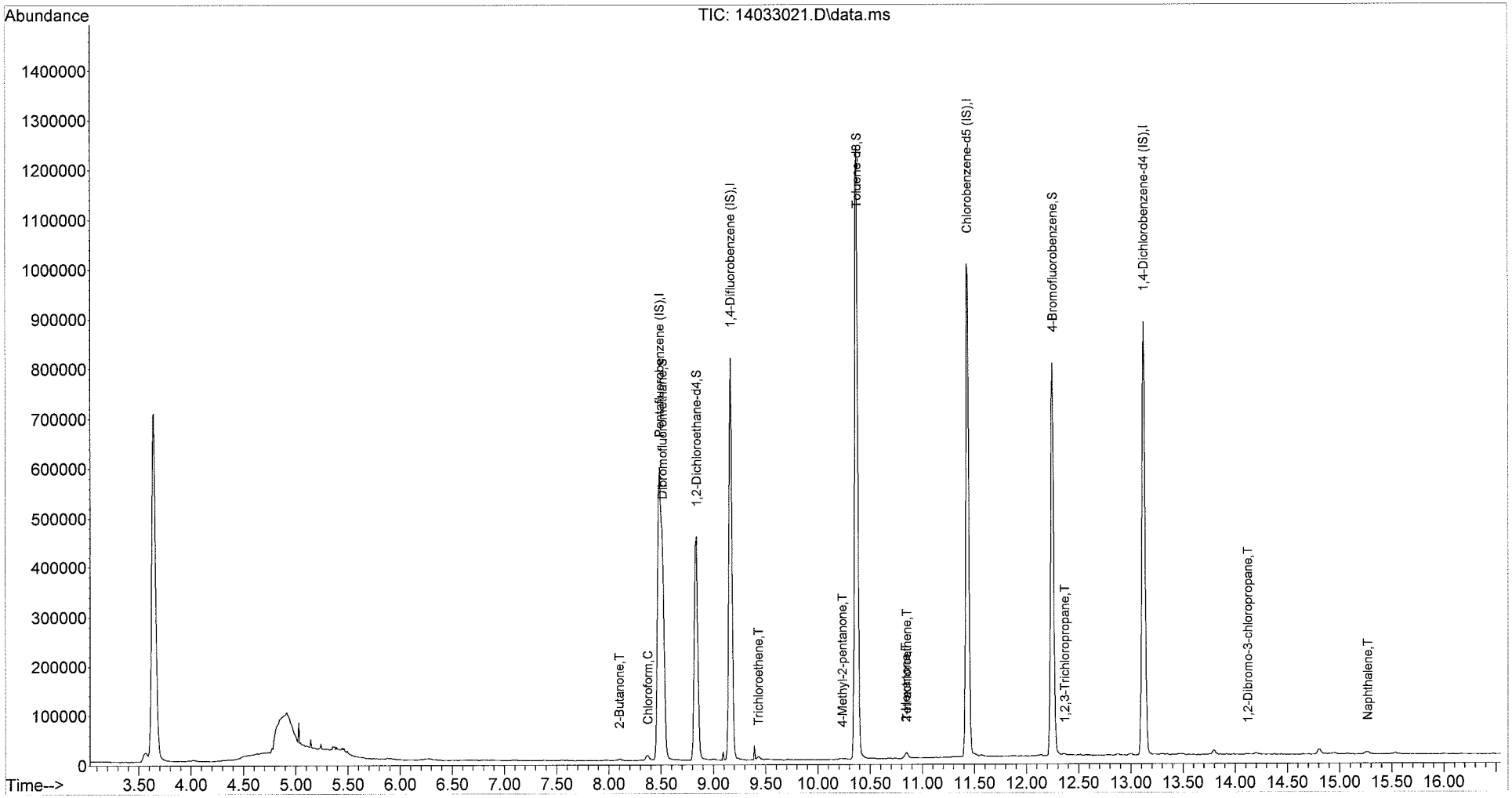
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.483	168	359183	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.162	114	624643	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.428	117	535890	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.121	152	244804	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.510	113	270232	48.37 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 96.74%		
45) 1,2-Dichloroethane-d4	8.836	65	353950	49.20 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 98.40%		
46) Toluene-d8	10.370	98	869676	49.40 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 98.80%		
66) 4-Bromofluorobenzene	12.248	95	344790	47.07 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 94.14%		
Target Compounds					Qvalue
6) Bromomethane	5.001	94	1749	Below Cal #	45
7) Chloroethane	5.106	64	315	Below Cal #	1
20) Chloroform	8.369	83	8891	0.81 ug/L	93
24) Acetone	6.279	43	5681	Below Cal #	88
25) 2-Butanone	8.095	43	3415	0.80 ug/L #	77
37) Trichloroethene	9.427	95	2580	0.44 ug/L	94
44) 4-Methyl-2-pentanone	10.229	43	3553	0.53 ug/L	90
52) Tetrachloroethene	10.846	166	3143	0.72 ug/L	98
65) 1,1,2,2-Tetrachloroethane	12.293	83	2142	Below Cal	86
67) 2-Hexanone	10.838	43	4498	1.17 ug/L #	79
69) 1,2,3-Trichloropropane	12.363	110	580	0.58 ug/L #	46
80) 1,4-Dichlorobenzene	13.148	146	721	Below Cal #	1
84) 1,2-Dibromo-3-chloropr...	14.118	157	559	0.60 ug/L #	46
87) Naphthalene	15.264	128	5802	0.52 ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033021.D
Acq On : 31 Mar 2014 1:07
Operator : JM
Sample : 481853-012
Misc : SMP
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 15:46:25 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033022.D
Acq On : 31 Mar 2014 1:33
Operator : JM
Sample : 481853-013
Misc : SMP
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 15:47:03 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

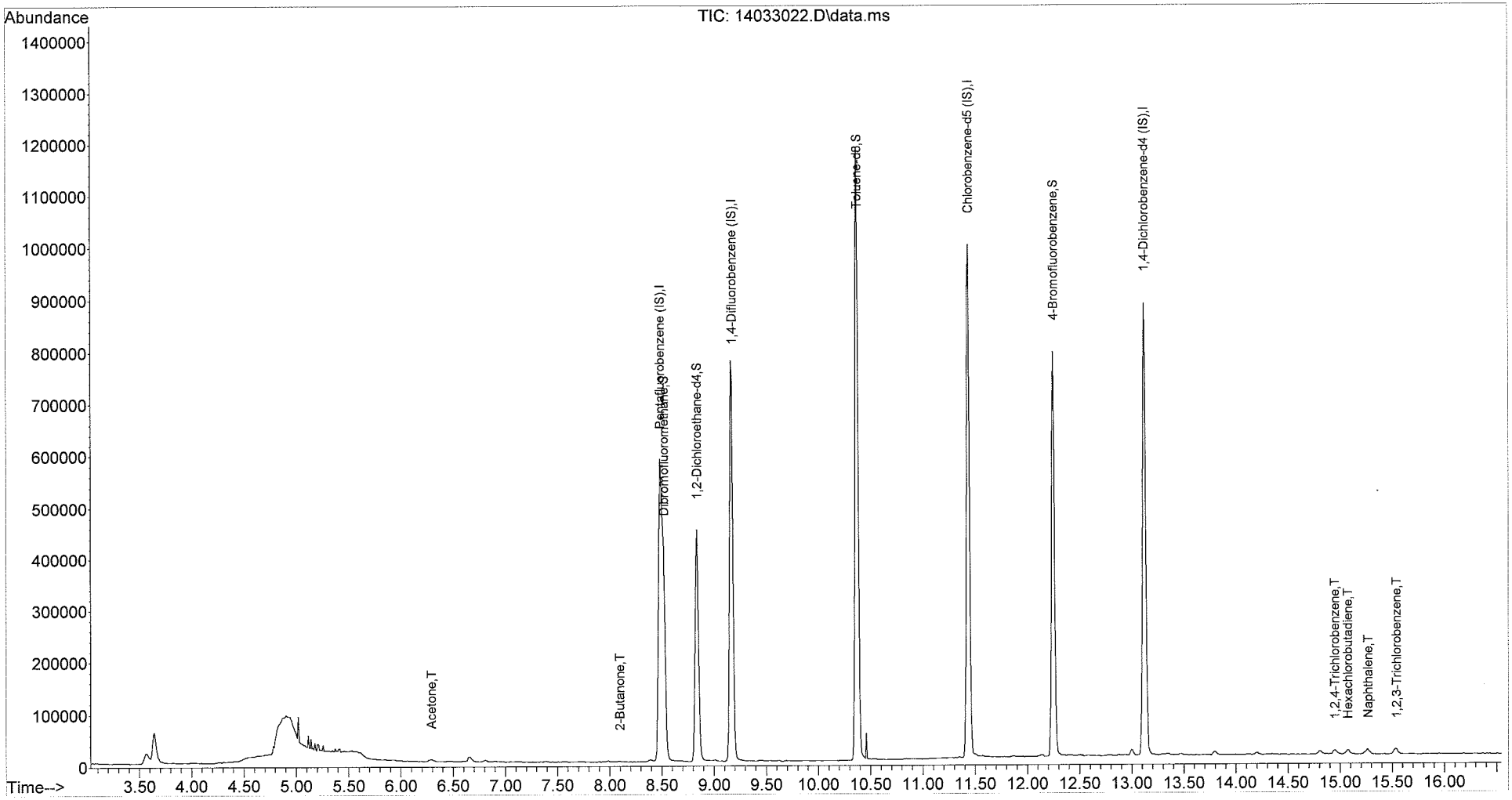
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.483	168	351618	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.171	114	607259	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.437	117	521863	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.121	152	244159	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.518	113	256300	46.87 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 93.74%		
45) 1,2-Dichloroethane-d4	8.836	65	343702	49.15 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 98.30%		
46) Toluene-d8	10.370	98	806420	47.12 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 94.24%		
66) 4-Bromofluorobenzene	12.248	95	330820	46.39 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 92.78%		
Target Compounds					Qvalue
6) Bromomethane	4.947	94	414	Below Cal #	16
7) Chloroethane	5.115	64	610	Below Cal #	1
24) Acetone	6.287	43	9860	1.67 ug/L #	87 cm
25) 2-Butanone	8.095	43	2867	0.67 ug/L #	77
65) 1,1,2,2-Tetrachloroethane	12.292	83	766	Below Cal #	80
80) 1,4-Dichlorobenzene	13.138	146	856	Below Cal #	1
85) 1,2,4-Trichlorobenzene	14.946	180	3734	0.67 ug/L	96
86) Hexachlorobutadiene	15.069	190	1431	1.10 ug/L	89
87) Naphthalene	15.263	128	10517	0.95 ug/L	97
88) 1,2,3-Trichlorobenzene	15.537	180	5065	0.95 ug/L	95

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140330\
Data File : 14033022.D
Acq On : 31 Mar 2014 1:33
Operator : JM
Sample : 481853-013
Misc : SMP
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 15:47:03 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Volatile Organics by SW8260B

Initial Calibration

Method 8260B

Run ID 140327 **Date of Run 3/27/14** **Analyst JM** **Page # 7**

Acquisition Method **SC8260**

Standard IDs			**Syringe IDs:**
Primary Std.	Std Prep Log ID	**GCMSVOA-6079**	**V-126**
Internal Std.	Std Prep Log ID	**GCMSVOA-6078**	V-029
Surrogate Std.	Std Prep Log ID	**GCMSVOA-6077**	V-024
BFB Std.	Std Prep Log ID	**GCMSVOA-6077**	V-024
Secondary Spike	Std Prep Log ID	**GCMSVOA-6076**	V-126

Standards Preparation

Name	**Secondary Standard (Working)** (µL)	**Surrogate (Working)** (µL)	**Acrolein** (µL)	**Internal Standard** (µL)	**Final Volume** (mL)
BFB	--	2	--	10	5
ICV	10	10	1	10	

Curve Dilutions

Primary Standard (Working)	**Surrogate (Working)**	**Methanol**	**Acrolein (500ppm)**	**Internal Standard**	**Conc µg/L**
0.25 µL	0.5 µL	99 µL	0.5 µL	10 µL	0.5
0.50 µL	1 µL	98.5 µL	0.75 µL	10 µL	1
2.5 µL	4 µL	93.5 µL	1.0 µL	10 µL	5
5 µL	6 µL	89 µL	1.25 µL	10 µL	10
10µL	10 µL	80 µL	1.5 µL	10 µL	20
20µL	14 µL	66 µL	1.75 µL	10 µL	40
40 µL	18 µL	42 µL	2.25 µL	10 µL	80
50 µL	--	50 µL	5.0 µL	10 µL	100

VOA-004-Inst10Curve RV1
Create a book by attaching a copy of the injection Log and number it in consecutive order up to 100

Injection Log

Directory: h:\voa\a228\140327

9

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	14032701.d	1.	BFB	TUNE CHECK	27 Mar 14 10:03
2	4	14032702.d	1.	CCV	CCV	27 Mar 14 10:30
3	5	14032703.d	1.	IB	BLANK	27 Mar 14 11:09
4	6	14032704.d	1.	0.5 PPB	ICAL	27 Mar 14 11:35
5	7	14032705.d	1.	1.0 PPB	ICAL	27 Mar 14 12:01
6	8	14032706.d	1.	5.0 PPB	ICAL	27 Mar 14 12:27
7	9	14032707.d	1.	10 PPB	ICAL	27 Mar 14 12:53
8	10	14032708.d	1.	20 PPB	ICAL	27 Mar 14 13:19
9	11	14032709.d	1.	40 PPB	ICAL	27 Mar 14 13:45
10	12	14032710.d	1.	80 PPB	ICAL	27 Mar 14 14:11
11	13	14032711.d	1.	100 PPB	ICAL	27 Mar 14 14:37
12	14	14032712.d	1.	IB	BLANK	27 Mar 14 15:03
13	15	14032713.d	1.	IB	BLANK	27 Mar 14 15:29
14	16	14032714.d	1.	ICV	SECOND SOURCE	27 Mar 14 15:55
15	1	14032715.d	1.	LCSV	TERTIARY STD	27 Mar 14 16:21
16	12	14032716.d	1.	BAKE		27 Mar 14 16:47
17	13	14032717.d	1.	BAKE		27 Mar 14 17:13
18	1	14032718.d	1.	BAKE		27 Mar 14 17:38
19	3	14032719.d	1.	BFB	TUNE CHECK	27 Mar 14 18:04
20	4	14032720.d	1.	CCV	CCV	27 Mar 14 18:30
21	5	14032721.d	1.	BLK 3/27/14	BLK	27 Mar 14 18:55
22	6	14032722.d	1.	BKS 3/27/14	BKS	27 Mar 14 19:21
23	7	14032723.d	1.	BSD 3/27/14	BSD	27 Mar 14 19:47
24	8	14032724.d	1.	481858-002	SMP	27 Mar 14 20:13
25	9	14032725.d	1.	481858-004	SMP	27 Mar 14 20:38
26	10	14032726.d	1.	481858-005	SMP	27 Mar 14 21:04
27	11	14032727.d	1.	481858-006	SMP	27 Mar 14 21:29
28	12	14032728.d	10.	481858-001	SMP	27 Mar 14 21:55
29	13	14032729.d	10.	481858-003	SMP	27 Mar 14 22:21
30	14	14032730.d	10.	481858-001 S	MS	27 Mar 14 22:47
31	15	14032731.d	10.	481858-001 SD	MSD	27 Mar 14 23:14
32	16	14032732.d	1.	481856-002	SMP	27 Mar 14 23:39
33	1	14032733.d	1.	481856-003	SMP	28 Mar 14 00:05
34	3	14032734.d	1.	481954-001	SMP	28 Mar 14 00:31
35	4	14032735.d	1.	481954-002	SMP	28 Mar 14 00:57
36	5	14032736.d	1.	481954-003	SMP	28 Mar 14 01:23
37	6	14032737.d	1.	481954-004	SMP	28 Mar 14 01:49
38	7	14032738.d	1.	481954-005	SMP	28 Mar 14 02:15
39	8	14032739.d	1.	481954-006	SMP	28 Mar 14 02:41
40	9	14032740.d	1.	481954-007	SMP	28 Mar 14 03:07

GS 3/28
937324

3/28/14

GC/MS QA-QC Check Report

Tune File : H:\VOA\A228\140327\14032701.D
Tune Time : 27 Mar 2014 10:03

Daily Calibration File : H:\VOA\A228\140327\14032708.D

DM 4/1/14

					199226	313690	278783	
					133195			
File	Sample	Surrogate Recovery %				Internal Standard Responses		
14032703.D								
	IB	100	96	100	93	205574	335277	296647
				142470				
14032704.D								
	0.5 PPB	6*	6*	5*	6*	213069	335700	287889
				140007				
14032705.D								
	1.0 PPB	10*	11*	10*	10*	198767	311207	273837
				136420				
14032706.D								
	5.0 PPB	39*	40*	38*	37*	199809	313069	279777
				139021				
14032707.D								
	10 PPB	57	59	58*	57*	206104	321165	276901
				138315				
14032708.D								
	20 PPB	98	99	100	96	199226	313690	278783
				133195				
14032709.D								
	40 PPB	136	131	142*	140*	210538	333476	295573
				142494				
14032710.D								
	80 PPB	178*	159*	180*	182*	207500	344129	305677
				141421				
14032711.D								
	100 PPB	0*	10*	1*	28*	210571	345356	300393
				136264				
14032712.D								
	IB	97	84	99	86	227319	377986	327946
				151190				
14032713.D								
	IB	99	87	99	88	221219	366911	318572
				148435				
14032714.D								
	ICV	97	90	100	95	219922	355701	307428
				144435				
14032715.D								
	LCSV	111	99	99	101	97625*	169911	159560
				78399				

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

SURR = ICAL

Not used - no qrs w/this ICAL.

Created: Fri Mar 28 11:59:40 2014 GCMS 10

Calibration Status Report GCMS 10

Method Path : H:\VOA\A228\METHODS\
Method File : 140327.M
Title : 8260B_S
Last Update : Thu Mar 27 15:18:06 2014
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	20	20	50	H:\VOA\A228\140327\14032708.D
2	0.5	1	50	H:\VOA\A228\140327\14032704.D
3	1.0	1	50	H:\VOA\A228\140327\14032705.D
4	5.0	5	50	H:\VOA\A228\140327\14032706.D
5	10	10	50	H:\VOA\A228\140327\14032707.D
6	40	40	50	H:\VOA\A228\140327\14032709.D
7	80	80	50	H:\VOA\A228\140327\14032710.D
8	100	100	50	H:\VOA\A228\140327\14032711.D

#	ID	Update Time	Quant Time	Acquisition Time
1	20	Mar 27 15:01 2014	Mar 27 15:00 2014	27 Mar 2014 13:19
2	0.5	Mar 27 15:11 2014	Mar 27 15:10 2014	27 Mar 2014 11:35
3	1.0	Mar 27 15:09 2014	Mar 27 15:08 2014	27 Mar 2014 12:01
4	5.0	Mar 27 15:05 2014	Mar 27 15:04 2014	27 Mar 2014 12:27
5	10	Mar 27 15:04 2014	Mar 27 15:04 2014	27 Mar 2014 12:53
6	40	Mar 27 15:02 2014	Mar 27 15:01 2014	27 Mar 2014 13:45
7	80	Mar 27 15:03 2014	Mar 27 15:02 2014	27 Mar 2014 14:11
8	100	Mar 27 15:03 2014	Mar 27 15:03 2014	27 Mar 2014 14:37

140327.M Tue Apr 01 16:11:26 2014

Calibration Table Report
Method: 140327.M
Title: 8260B_S
Last Calibration: Thu Mar 27 15:18:06 2014

Calibration Files

Compound		20	0.5	1	5	10	40	80	100	Avg	%RSD	
		14032708.D	14032704.D	14032705.D	14032706.D	14032707.D	14032709.D	14032710.D	14032711.D			
Pentafluorobenzene (IS)	ISTD											
Dichlorodifluoromethane		0.731	1.038	0.881	0.762	0.725	0.700	0.688	0.663	0.774	16.276	r=0.999
Chloromethane		0.768	1.071	0.882	0.760	0.735	0.681	0.722	0.701	0.790	16.339	r=0.994
Vinyl chloride		0.821	1.026	0.917	0.814	0.821	0.754	0.765	0.776	0.837	10.978	
1,3-Butadiene		0.372	0.455	0.477	0.381	0.354	0.343	0.352	0.365	0.387	12.979	
Bromomethane		0.233			0.203	0.256	0.216	0.204	0.193	0.218	10.718	
Chloroethane		0.321		0.429	0.362	0.332	0.289	0.306	0.313	0.336	13.994	
Trichlorofluoromethane		1.185	1.478	1.219	1.163	1.115	1.212	1.225	1.230	1.228	8.802	
Acrolein		0.106	0.110	0.112	0.107	0.101	0.105	0.111	0.112	0.108	3.647	
Trichlorotrifluoroethane		0.455	0.676	0.485	0.444	0.432	0.446	0.444	0.440	0.478	17.117	r=1.000
1,1-Dichloroethene		1.015	1.368	1.123	1.030	0.972	0.988	1.005	0.996	1.062	12.414	
Methylene chloride		0.846	1.179	0.945	0.852	0.819	0.823	0.844	0.832	0.893	13.707	
Acrylonitrile		0.288	0.377	0.347	0.291	0.267	0.282	0.304	0.308	0.308	11.911	
trans-1,2-Dichloroethene		1.009	1.283	1.004	0.975	0.980	0.990	1.020	1.008	1.034	9.853	
n-Hexane		0.806	1.057	0.838	0.778	0.773	0.861	0.898	0.925	0.867	10.857	
1,1-Dichloroethane		1.192	1.546	1.255	1.212	1.153	1.169	1.214	1.197	1.242	10.180	
Cyclohexane		0.949	1.097	0.905	0.913	0.904	0.981	1.007	1.019	0.972	6.985	
2,2-Dichloropropane		1.064	1.494	1.145	1.087	1.059	1.037	1.041	1.016	1.118	14.034	
cis-1,2-Dichloroethene		0.855	1.121	0.908	0.809	0.813	0.865	0.891	0.886	0.894	11.025	
Chloroform		1.401	1.960	1.435	1.368	1.361	1.357	1.358	1.325	1.446	14.563	
Bromochloromethane		0.348	0.459	0.412	0.342	0.324	0.332	0.339	0.336	0.361	13.221	
Dibromofluoromethane		0.693	0.801	0.725	0.690	0.672	0.689	0.703		0.711	6.050	
1,1,1-Trichloroethane		1.126	1.492	1.138	1.121	1.092	1.117	1.119	1.100	1.163	11.486	
Acetone		0.307	0.933	0.647	0.368	0.311	0.286	0.299	0.289	0.430	54.983	r=0.999
2-Butanone		0.378	0.727	0.485	0.385	0.353	0.380	0.401	0.403	0.439	27.959	r=0.999
Carbon Disulfide		2.388	3.775	2.482	2.305	2.323	2.434	2.503	2.482	2.587	18.783	r=1.000
Iodomethane		0.947	0.872	0.812	0.793	0.863	0.999	1.040	0.979	0.913	9.959	
Vinyl acetate		3.696	3.543	3.120	3.185	3.357	3.687	3.919	3.942	3.556	8.793	
Methyl tert-butyl ether		1.762	2.122	1.679	1.721	1.669	1.768	1.818	1.807	1.793	7.999	
1,4-Difluorobenzene (IS)	ISTD											
1,1-Dichloropropene		0.589	0.618	0.568	0.591	0.569	0.595	0.581	0.584	0.587	2.725	
Carbon tetrachloride		0.511	0.630	0.492	0.506	0.494	0.508	0.494	0.489	0.516	9.139	
1,2-Dichloroethane		0.664	0.954	0.746	0.686	0.658	0.643	0.607	0.594	0.694	16.591	r=0.999
Benzene		1.610	2.118	1.732	1.582	1.629	1.626	1.595	1.601	1.687	10.684	
2,2,4-Trimethylpentane		1.434	1.526	1.411	1.360	1.363	1.505	1.494	1.483	1.447	4.466	
n-Heptane		0.316	0.383	0.266	0.304	0.306	0.336	0.334	0.336	0.323	10.494	
Trichloroethene		0.472	0.599	0.495	0.455	0.467	0.489	0.480	0.479	0.492	9.182	
1,2-Dichloropropane		0.401	0.644	0.434	0.407	0.390	0.403	0.396	0.397	0.434	19.775	r=1.000
Bromodichloromethane		0.644	0.962	0.664	0.628	0.621	0.627	0.616	0.601	0.671	17.794	r=1.000

Methylcyclohexane		0.172	0.212	0.189	0.149	0.162	0.177	0.172	0.175	0.176	10.570
Dibromomethane		0.382	0.531	0.433	0.362	0.365	0.364	0.356	0.351	0.393	15.629
cis-1,3-Dichloropropene		0.721	0.904	0.822	0.685	0.68	0.725	0.718	0.714	0.74615	10.363
2-Chloroethylvinylether		0.045			0.043	0.036	0.038	0.054	0.054	0.0449063	16.9047
4-Methyl-2-pentanone		0.442	0.593	0.544	0.422	0.419	0.457	0.467	0.465	0.476181	12.886
1,2-Dichloroethane-d4		0.539	0.626	0.565	0.546	0.53	0.507	0.479		0.541883	8.59173
Toluene-d8		1.358	1.441	1.369	1.311	1.323	1.381	1.361		1.36358	3.10061
Chlorobenzene-d5 (IS)	ISTD										
Toluene		1.21	1.744	1.291	1.189	1.212	1.232	1.207	1.231	1.2893	14.4361
trans-1,3-Dichloropropene		0.7	1.034	0.755	0.657	0.664	0.702	0.696	0.693	0.737656	16.7377
1,1,2-Trichloroethane		0.404	0.697	0.533	0.428	0.402	0.405	0.398	0.4	0.458276	23.2414
1,3-Dichloropropane		0.774	1.151	0.923	0.77	0.776	0.759	0.741	0.755	0.831083	17.026
Tetrachloroethene		0.484	0.706	0.555	0.478	0.48	0.477	0.452	0.46	0.511556	16.5006
Dibromochloromethane		0.444	0.664	0.508	0.423	0.442	0.438	0.441	0.445	0.475815	16.8671
1,2-Dibromoethane		0.521	0.719	0.626	0.517	0.508	0.52	0.516	0.532	0.557259	13.5317
1-Chlorohexane		0.756	0.978	0.724	0.705	0.716	0.787	0.764	0.788	0.777303	11.1871
Chlorobenzene		1.063	1.762	1.347	1.051	1.079	1.078	1.058	1.089	1.1909	21.0614
n-Nonane		0.684	0.961	0.757	0.708	0.667	0.776	0.736	0.677	0.745729	12.8074
1,1,1,2-Tetrachloroethane		0.359	0.577	0.474	0.355	0.361	0.358	0.35	0.351	0.398072	20.9262
Ethylbenzene		2.243	3.122	2.392	2.179	2.208	2.246	2.193	2.209	2.34908	13.5992
m,p-Xylene		0.769	1.052	0.86	0.724	0.74	0.775	0.753	0.76	0.80409	13.4302
o-Xylene		0.708	1.009	0.797	0.701	0.698	0.716	0.698	0.709	0.754497	14.3018
Styrene		1.318	1.766	1.364	1.179	1.239	1.353	1.333	1.356	1.36357	12.8395
Isopropylbenzene		1.825	2.625	1.881	1.66	1.726	1.843	1.806	1.828	1.89943	15.8819
Bromoform		0.341	0.564	0.429	0.343	0.335	0.351	0.352	0.356	0.383968	20.4844
1,1,2,2-Tetrachloroethane		0.682	1.126	0.98	0.709	0.65	0.65	0.646	0.658	0.762613	24.2193
4-Bromofluorobenzene		0.657	0.786	0.683	0.642	0.652	0.683	0.693		0.685126	7.0714
2-Hexanone		0.349	0.588	0.5	0.344	0.339	0.356	0.362	0.378	0.401765	22.7637
1,4-Dichlorobenzene-d4 (IS)	ISTD										
1,2,3-Trichloropropane		0.344	0.554	0.46	0.34	0.323	0.345	0.344	0.365	0.384234	20.9186
n-Propylbenzene		4.871	6.557	5.332	4.575	4.584	5.008	5.072	5.219	5.15227	12.2136
Bromobenzene		0.996	1.648	1.22	0.939	0.984	0.965	0.979	0.998	1.09123	22.13
1,3,5-Trimethylbenzene		3.276	4.476	3.655	3.044	3.105	3.396	3.432	3.561	3.4932	12.8459
2-Chlorotoluene		3.456	5.144	3.873	3.273	3.268	3.414	3.396	3.469	3.66161	17.1475
4-Chlorotoluene		2.987	4.411	3.402	2.772	2.775	3.027	3.096	3.137	3.20088	16.537
tert-Butylbenzene		2.477	3.299	2.758	2.299	2.318	2.56	2.632	2.714	2.63194	12.075
1,2,4-Trimethylbenzene		3.307	4.602	3.572	3.073	3.115	3.402	3.484	3.597	3.51911	13.6024
sec-Butylbenzene		3.995	5.407	4.166	3.754	3.777	4.184	4.266	4.453	4.25022	12.3438
4-Isopropyltoluene		2.714	3.567	2.866	2.482	2.548	2.875	2.904	3.018	2.87179	11.6782
1,3-Dichlorobenzene		1.583	2.513	2.079	1.598	1.552	1.551	1.522	1.609	1.75089	20.3852
1,4-Dichlorobenzene		1.635	2.692	2.172	1.646	1.656	1.679	1.692	1.712	1.86051	20.4178
Dicyclopentadiene		0.379	0.624	0.397	0.349	0.361	0.402	0.405	0.424	0.417557	20.8486
n-Butylbenzene		2.199	3.169	2.338	2.071	2.087	2.318	2.353	2.445	2.37243	14.6593
1,2-Dichlorobenzene		1.488	2.497	1.905	1.462	1.406	1.468	1.484	1.524	1.65416	22.621
1,2-Dibromo-3-chloropropane		0.21	0.342	0.242	0.202	0.181	0.206	0.222	0.232	0.229651	21.4203
1,2,4-Trichlorobenzene		1.225	1.927	1.664	1.285	1.228	1.327	1.311	1.337	1.41301	17.6722
Hexachlorobutadiene		0.275	0.486	0.359	0.304	0.274	0.299	0.289	0.288	0.321833	22.197
Naphthalene		2.28	3.406	2.948	2.354	2.171	2.541	2.597	2.547	2.60531	15.3727
1,2,3-Trichlorobenzene		1.092	1.904	1.51	1.171	1.107	1.217	1.206	1.179	1.29828	21.3268

l=1.000
Q=0.995
l=1.000
l=1.000
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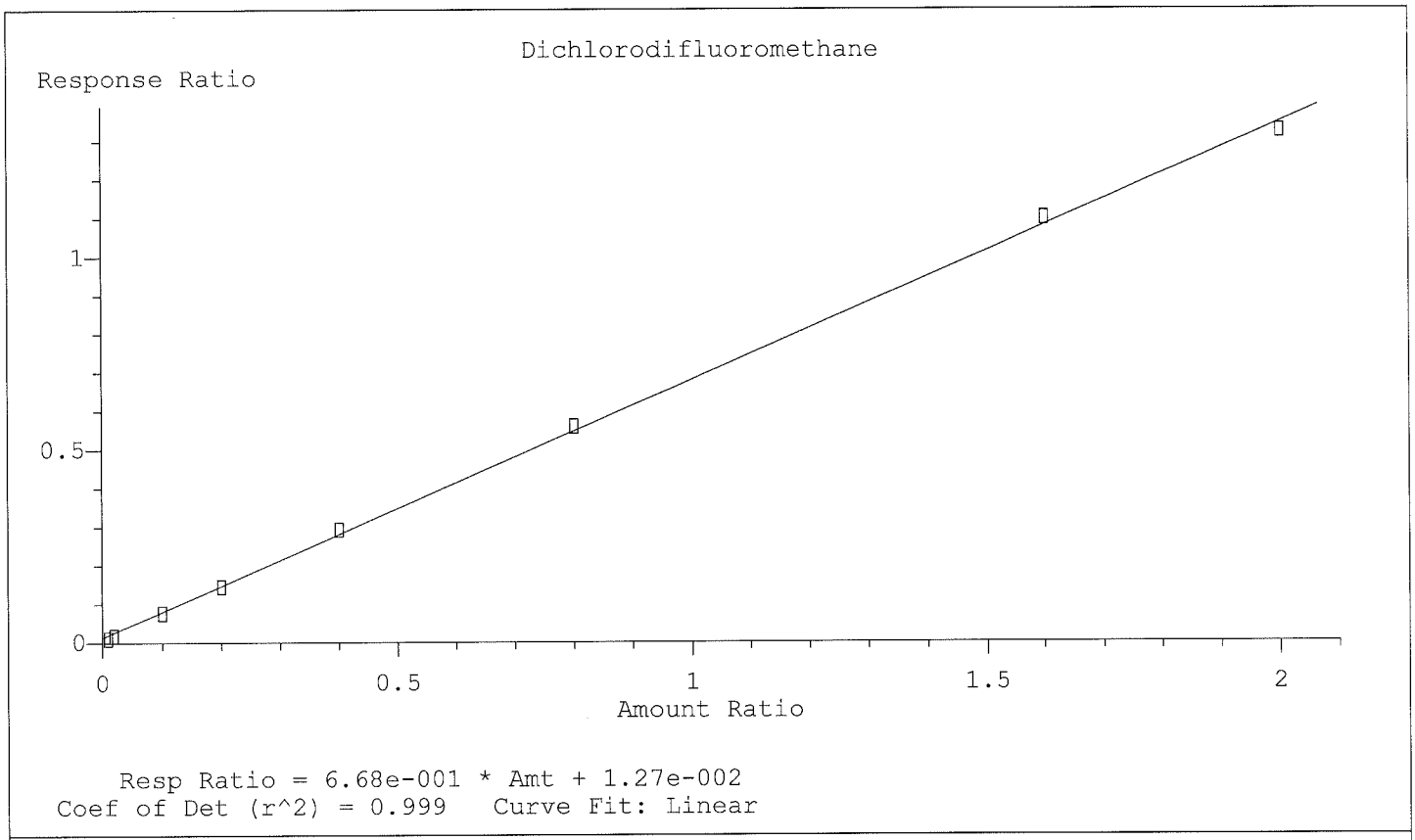
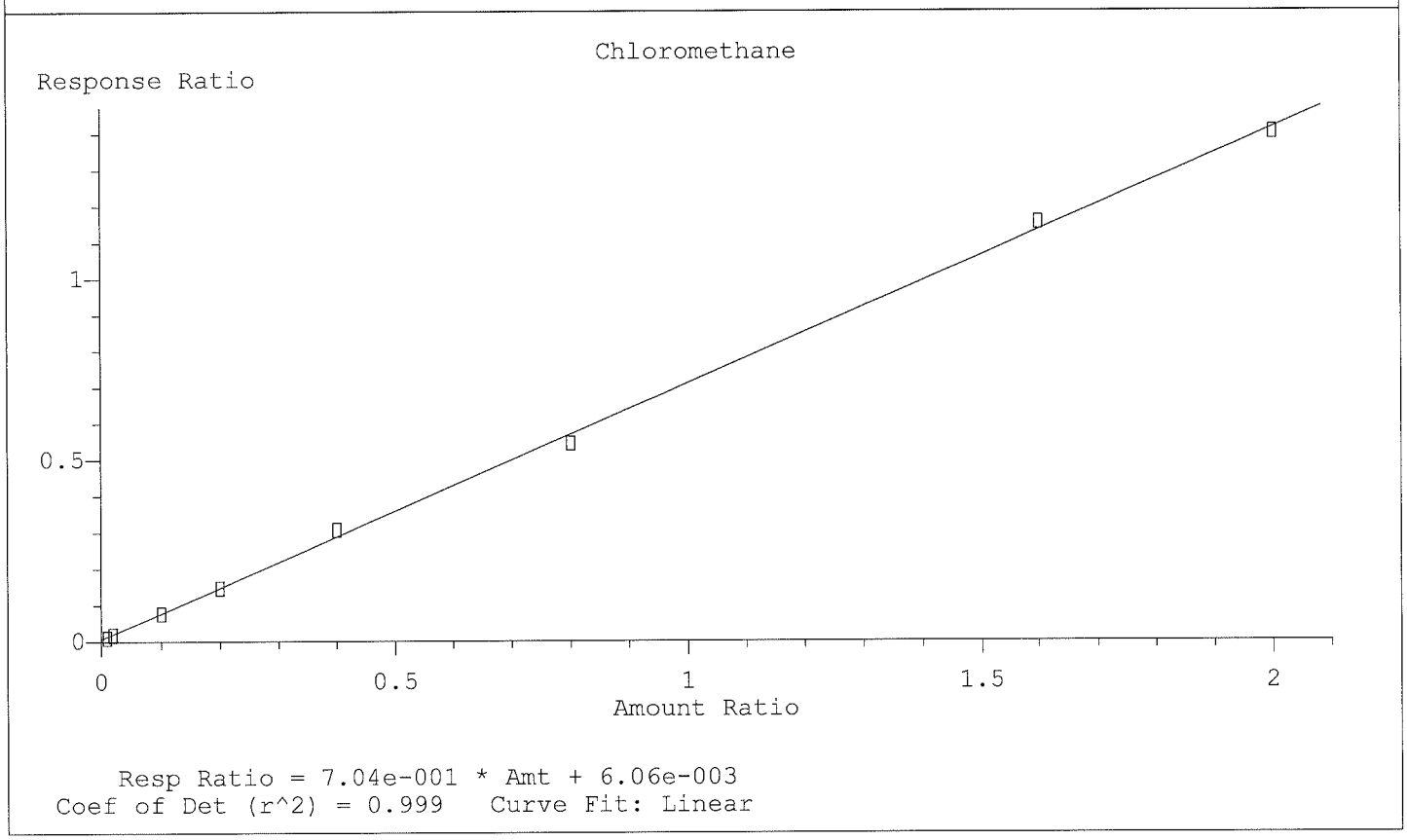
Tue Apr 01 16:11:42 2014

Calibration Plot Report

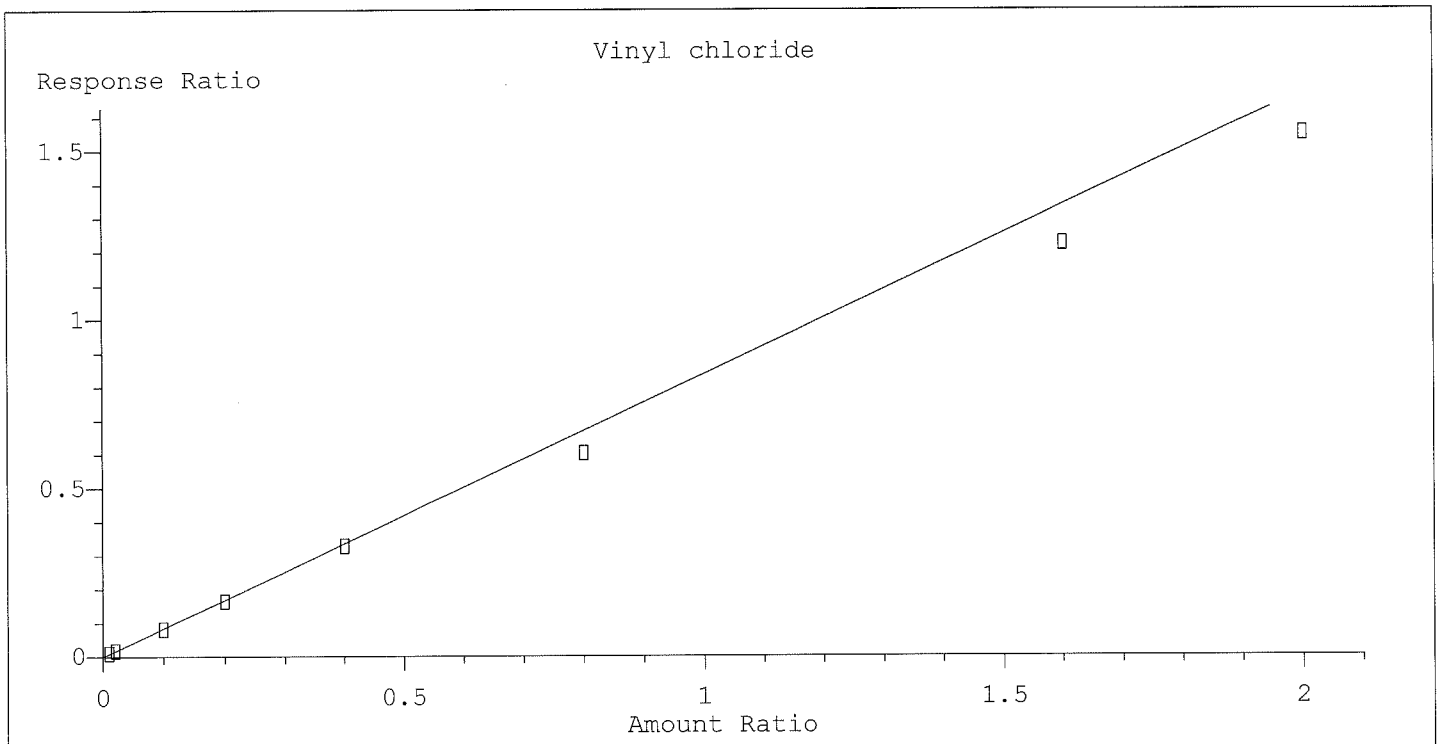


Resp Ratio = 6.68e-001 * Amt + 1.27e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear

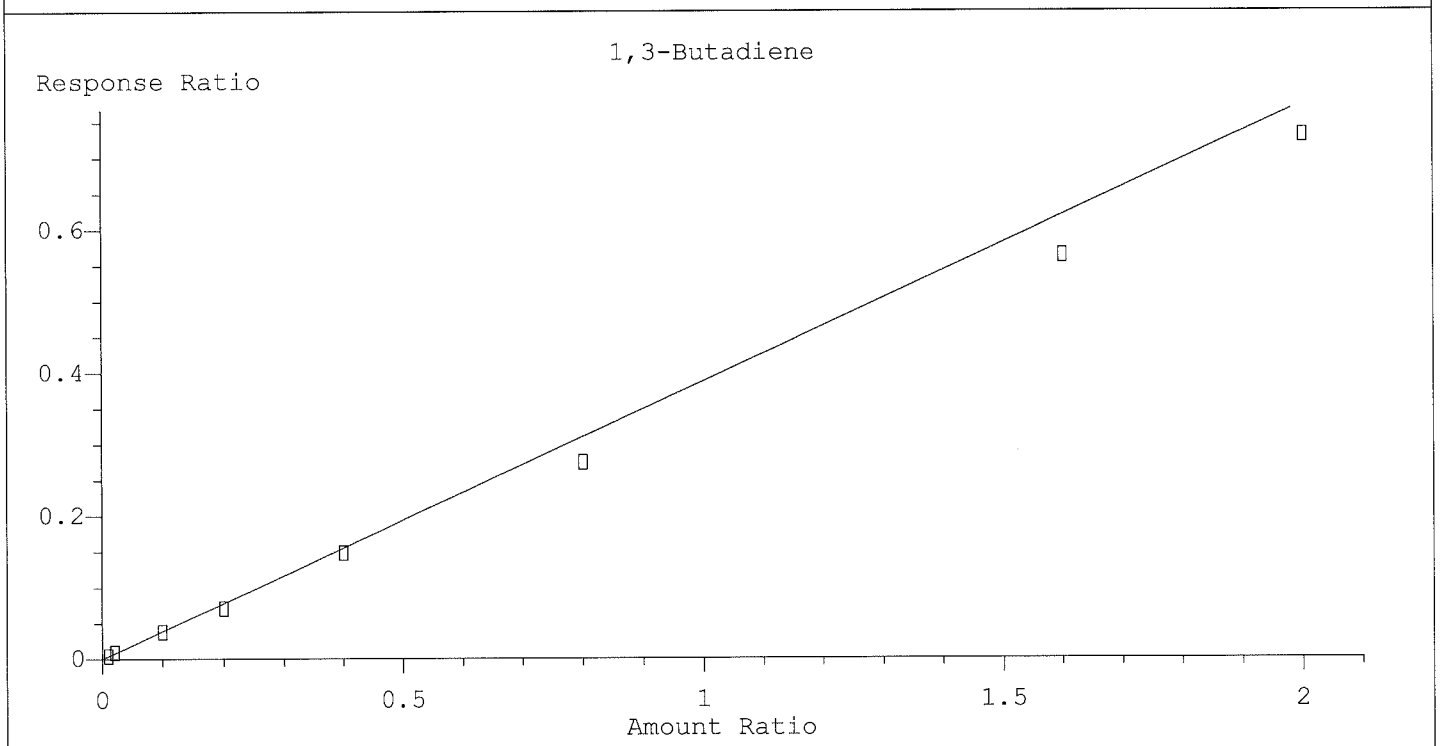


Resp Ratio = 7.04e-001 * Amt + 6.06e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Calibration Plot Report

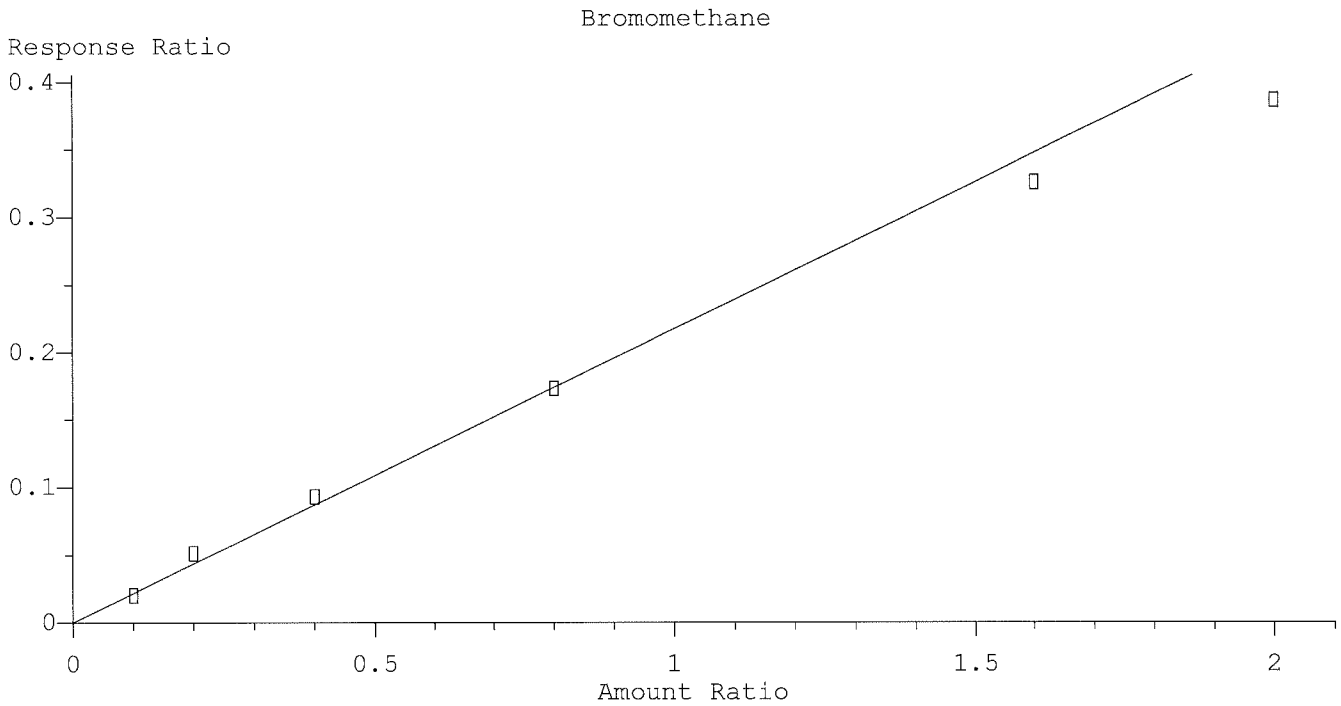


Resp Ratio = 8.37e-001 * Amt
RF Rel Std Dev = 11.0% Curve Fit: Avg RF

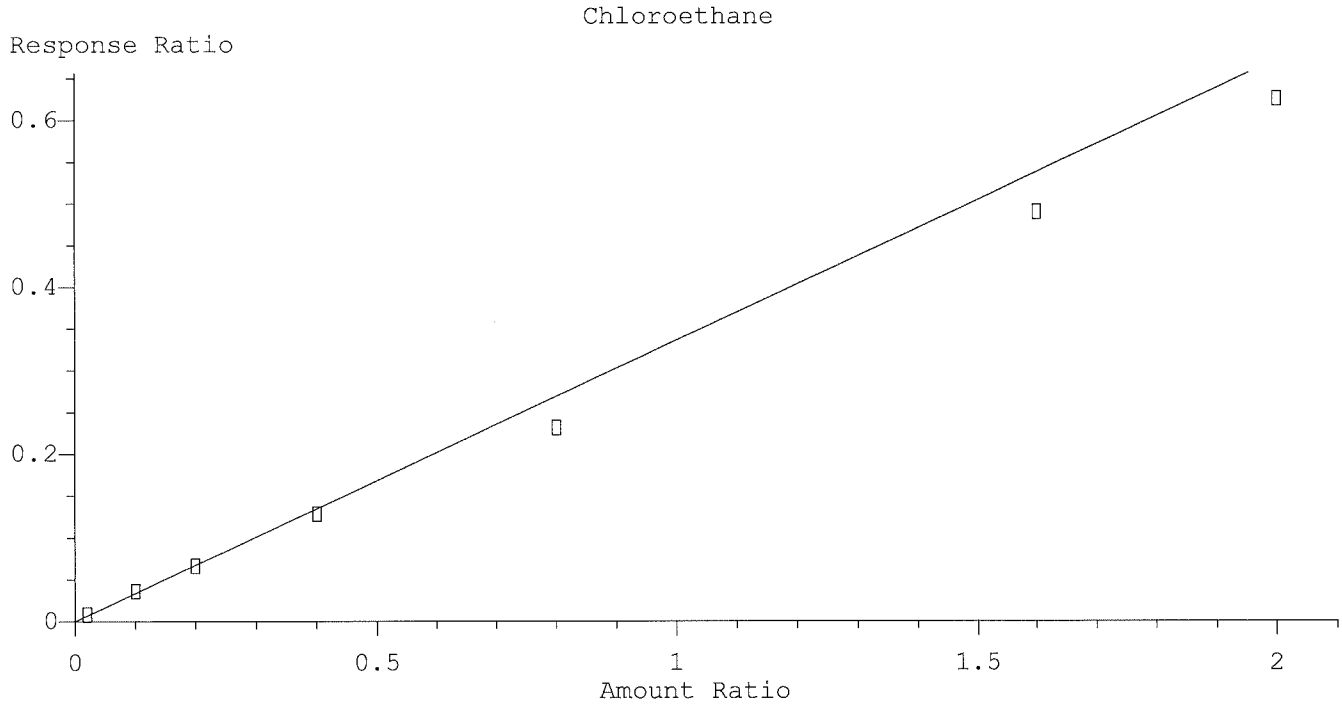


Resp Ratio = 3.87e-001 * Amt
RF Rel Std Dev = 13.0% Curve Fit: Avg RF

Calibration Plot Report

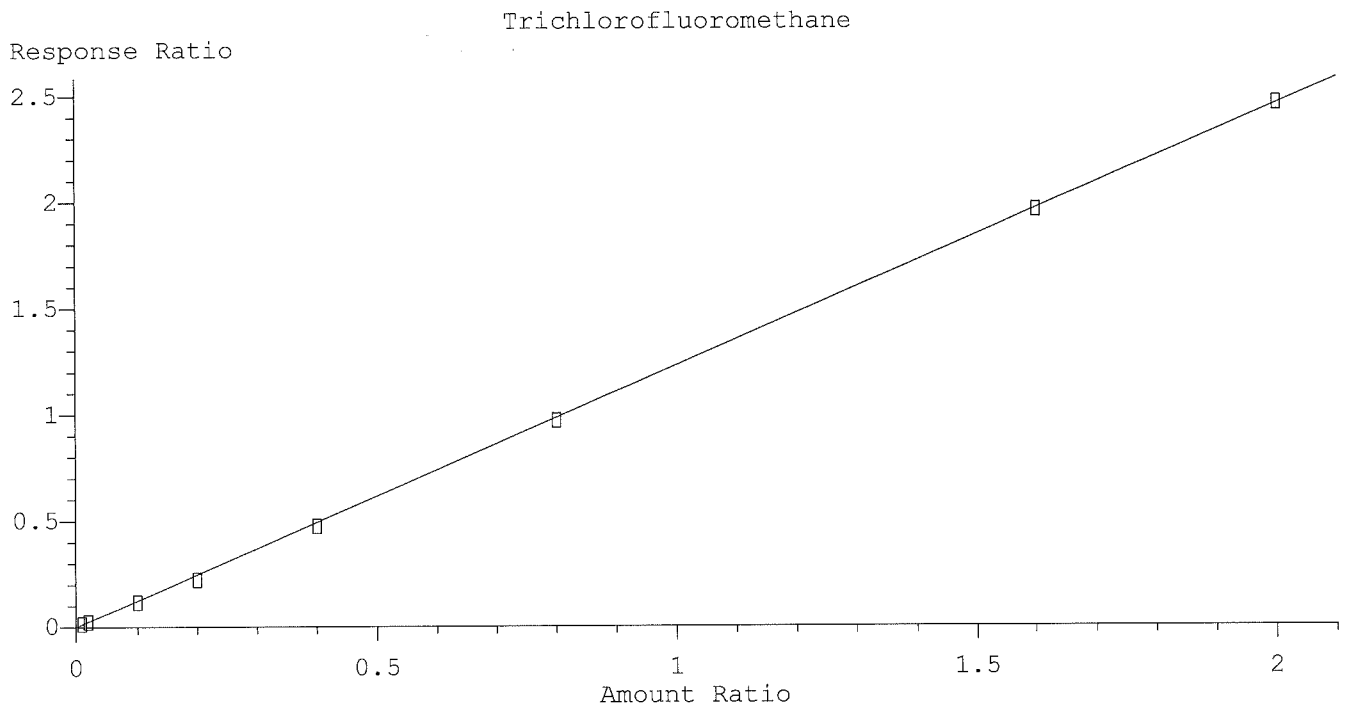


Resp Ratio = 2.18e-001 * Amt
RF Rel Std Dev = 10.7% Curve Fit: Avg RF

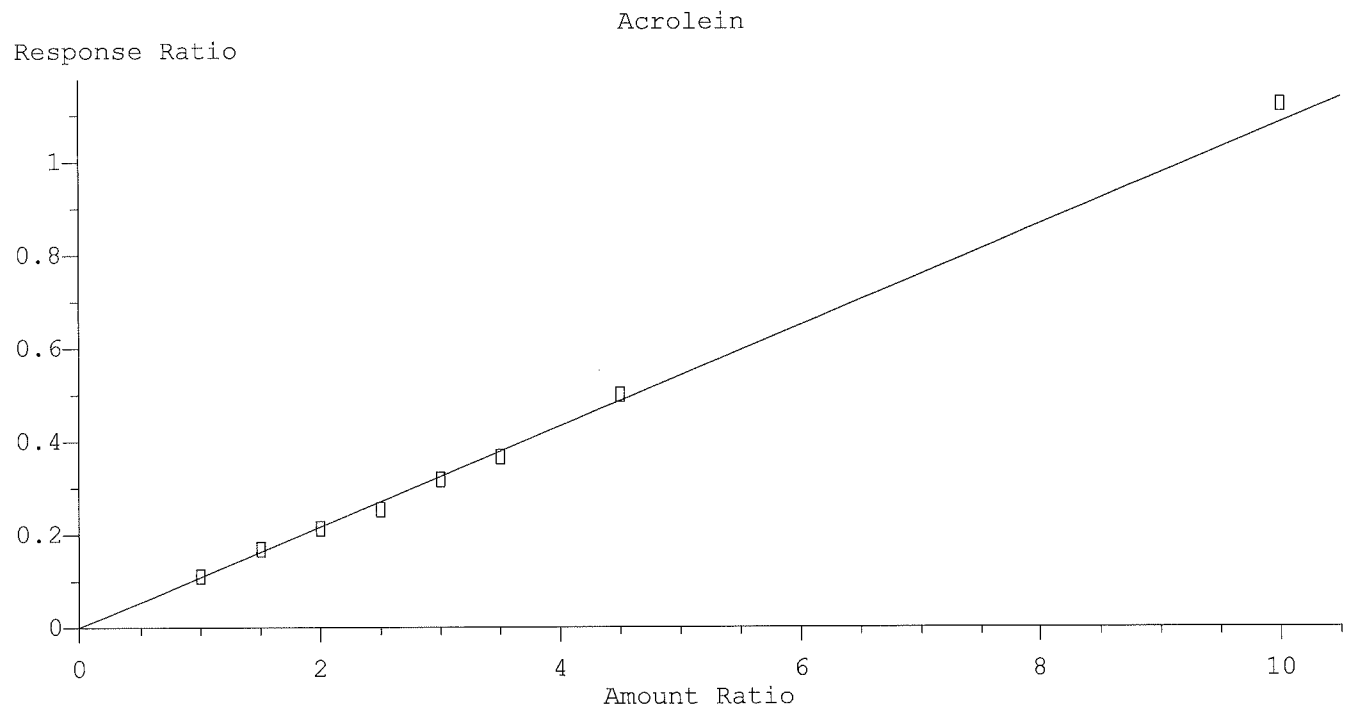


Resp Ratio = 3.36e-001 * Amt
RF Rel Std Dev = 14.0% Curve Fit: Avg RF

Calibration Plot Report

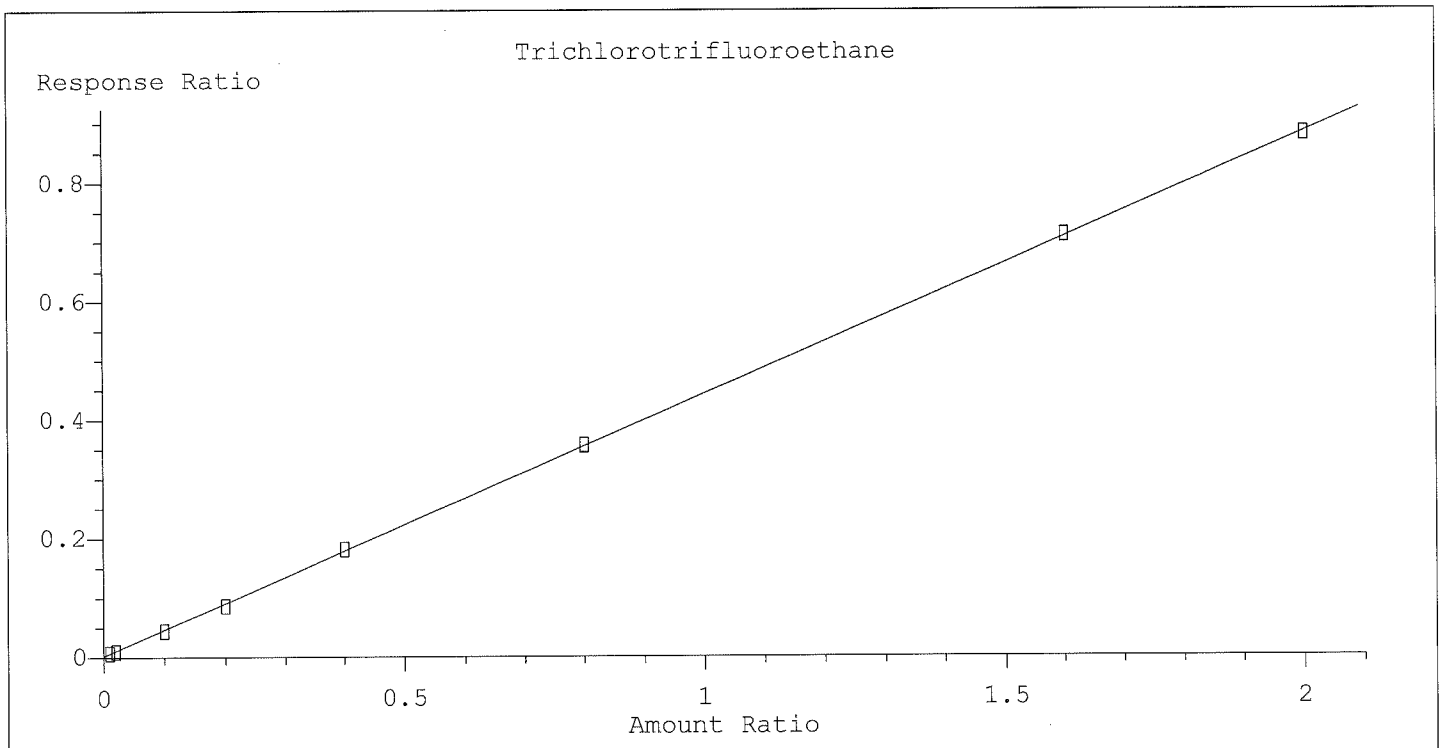


Resp Ratio = 1.23e+000 * Amt
RF Rel Std Dev = 8.8% Curve Fit: Avg RF

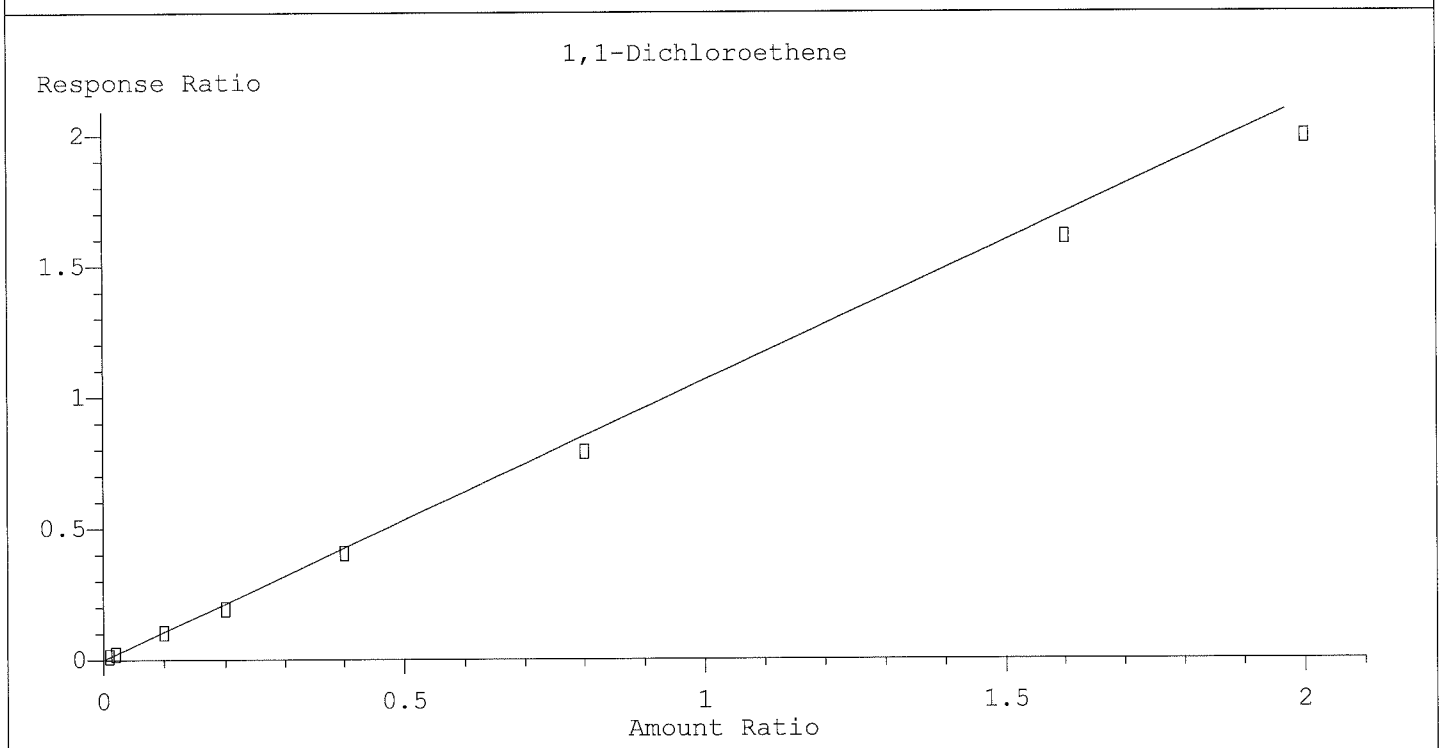


Resp Ratio = 1.08e-001 * Amt
RF Rel Std Dev = 3.6% Curve Fit: Avg RF

Calibration Plot Report

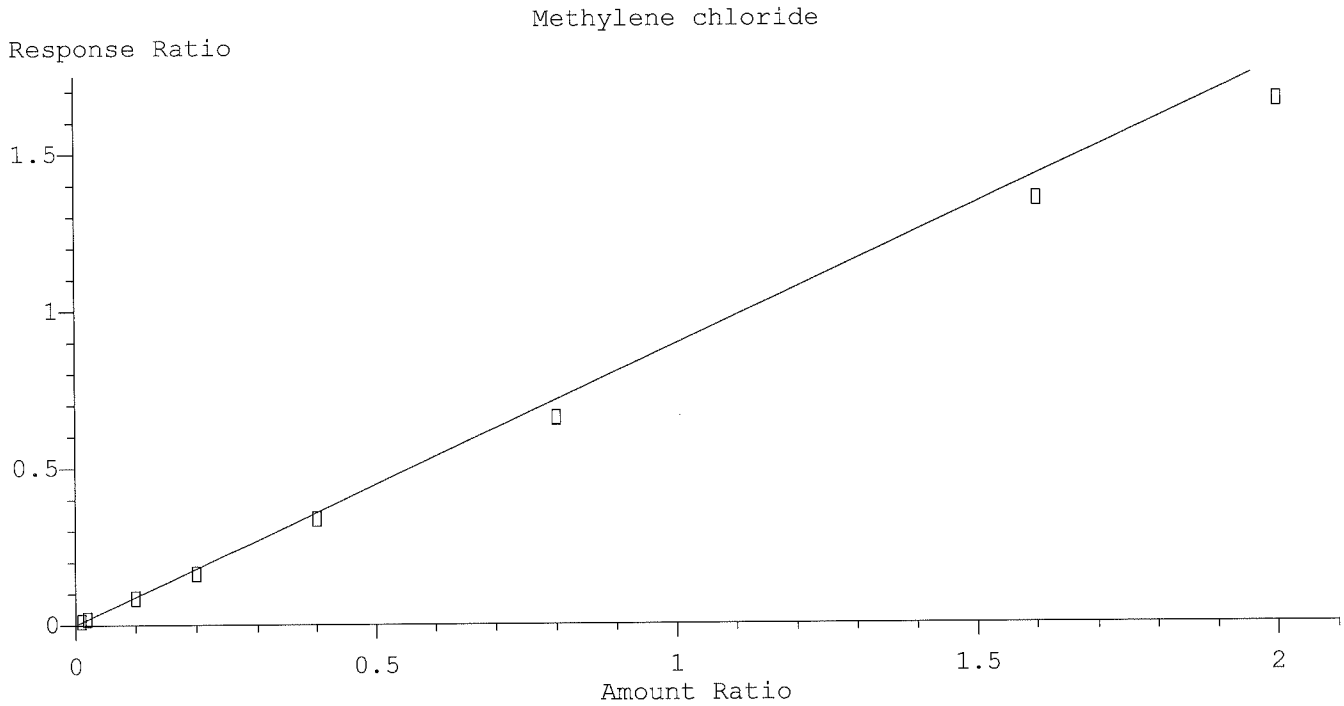


Resp Ratio = 4.41e-001 * Amt + 1.70e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

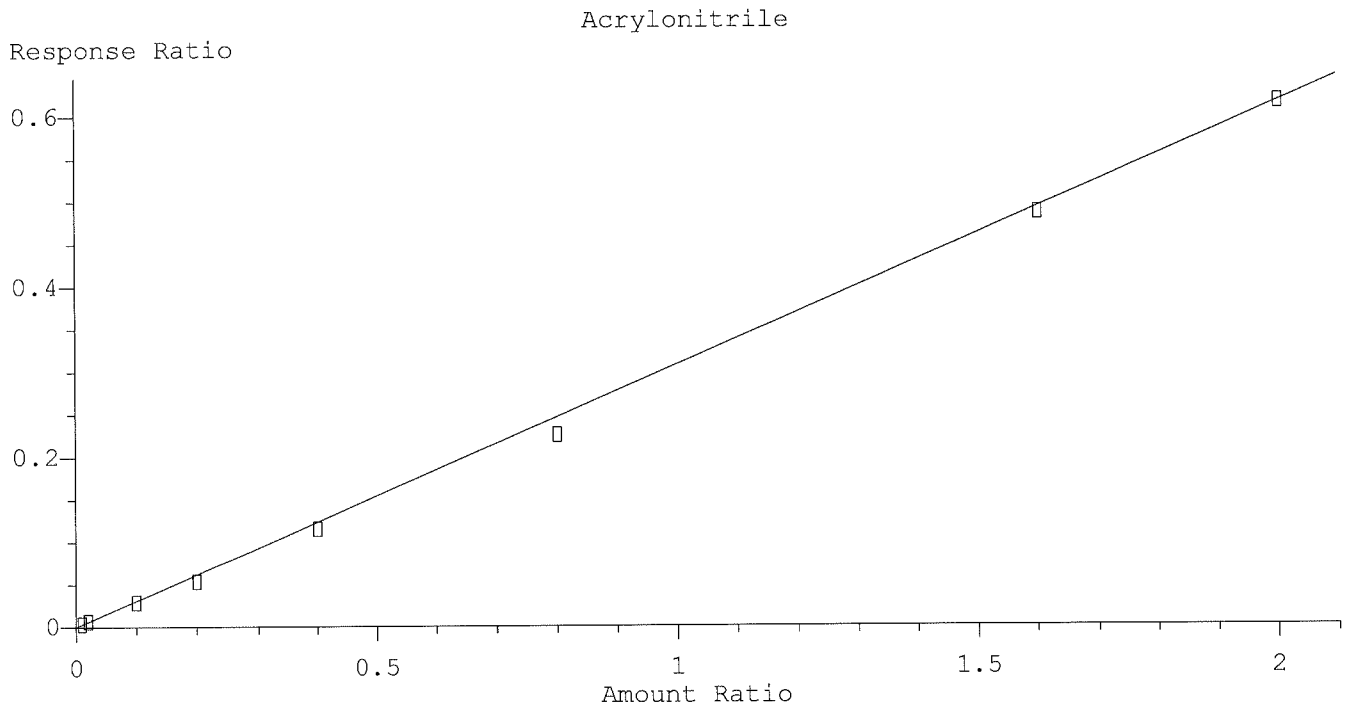


Resp Ratio = 1.06e+000 * Amt
RF Rel Std Dev = 12.4% Curve Fit: Avg RF

Calibration Plot Report

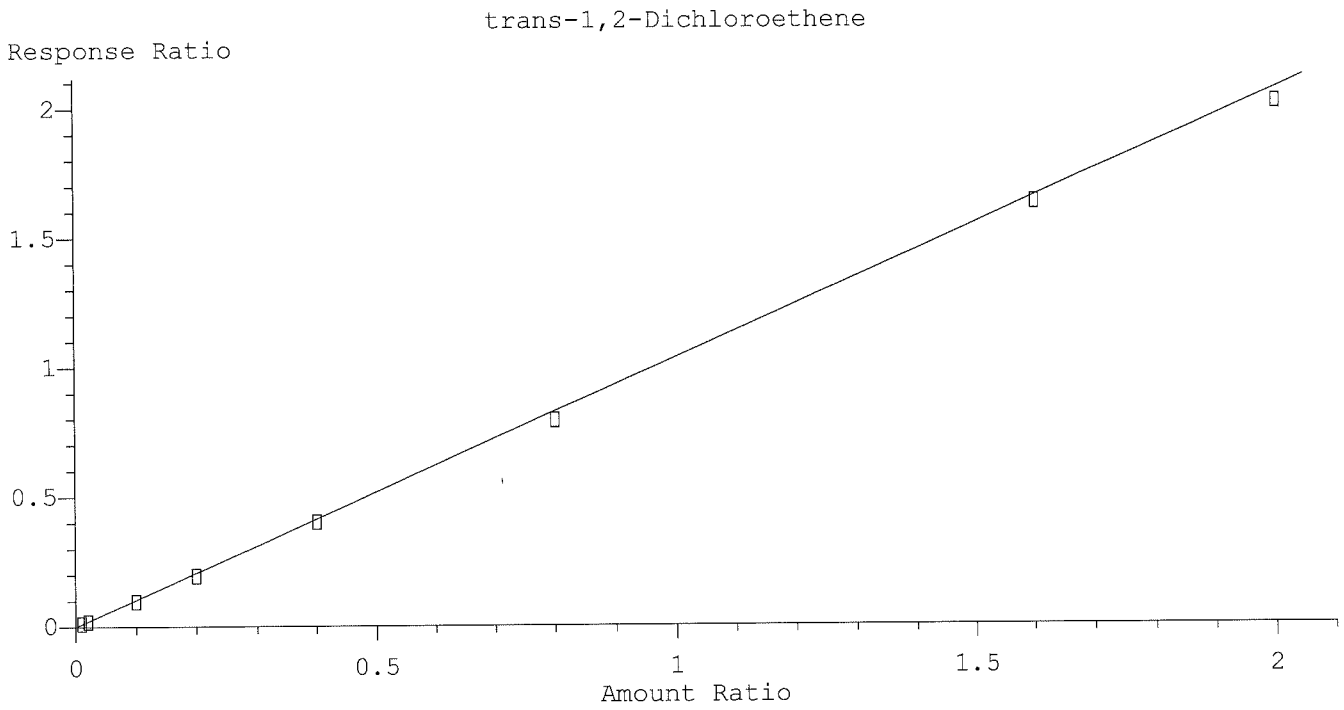


Resp Ratio = 8.93e-001 * Amt
RF Rel Std Dev = 13.7% Curve Fit: Avg RF

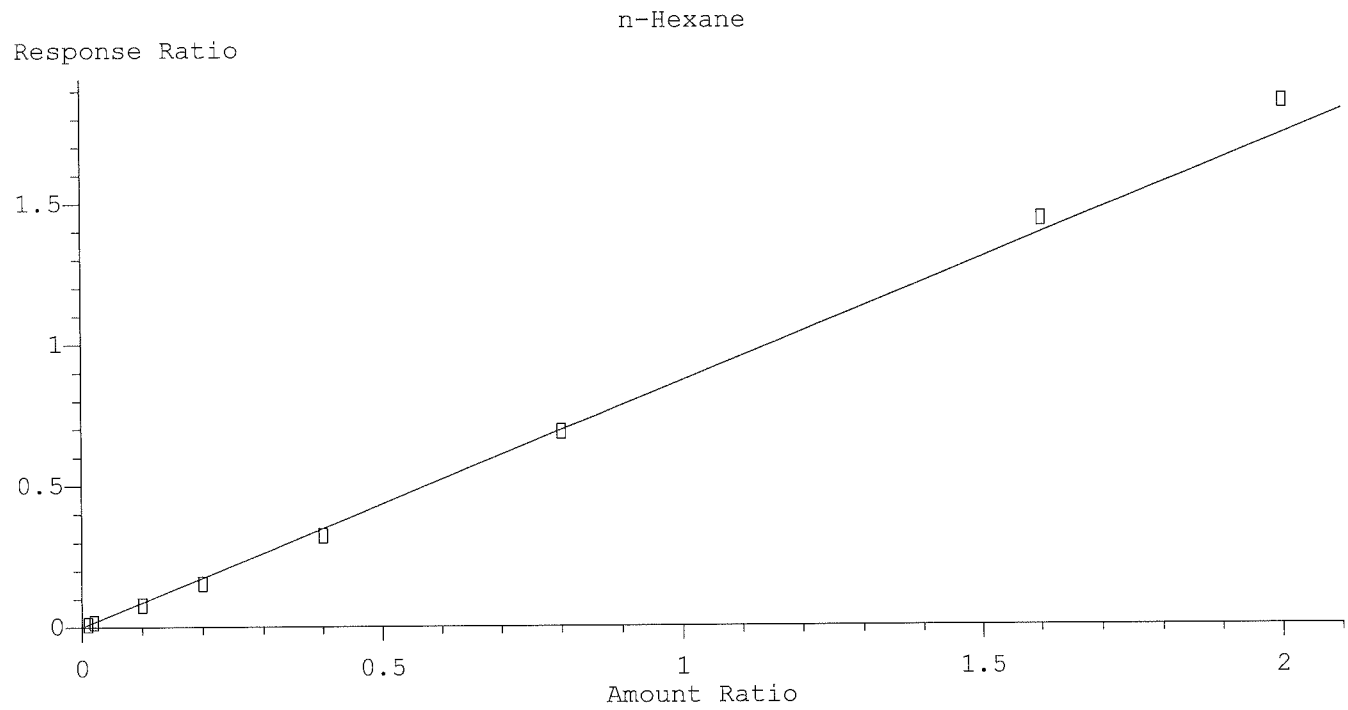


Resp Ratio = 3.08e-001 * Amt
RF Rel Std Dev = 11.9% Curve Fit: Avg RF

Calibration Plot Report

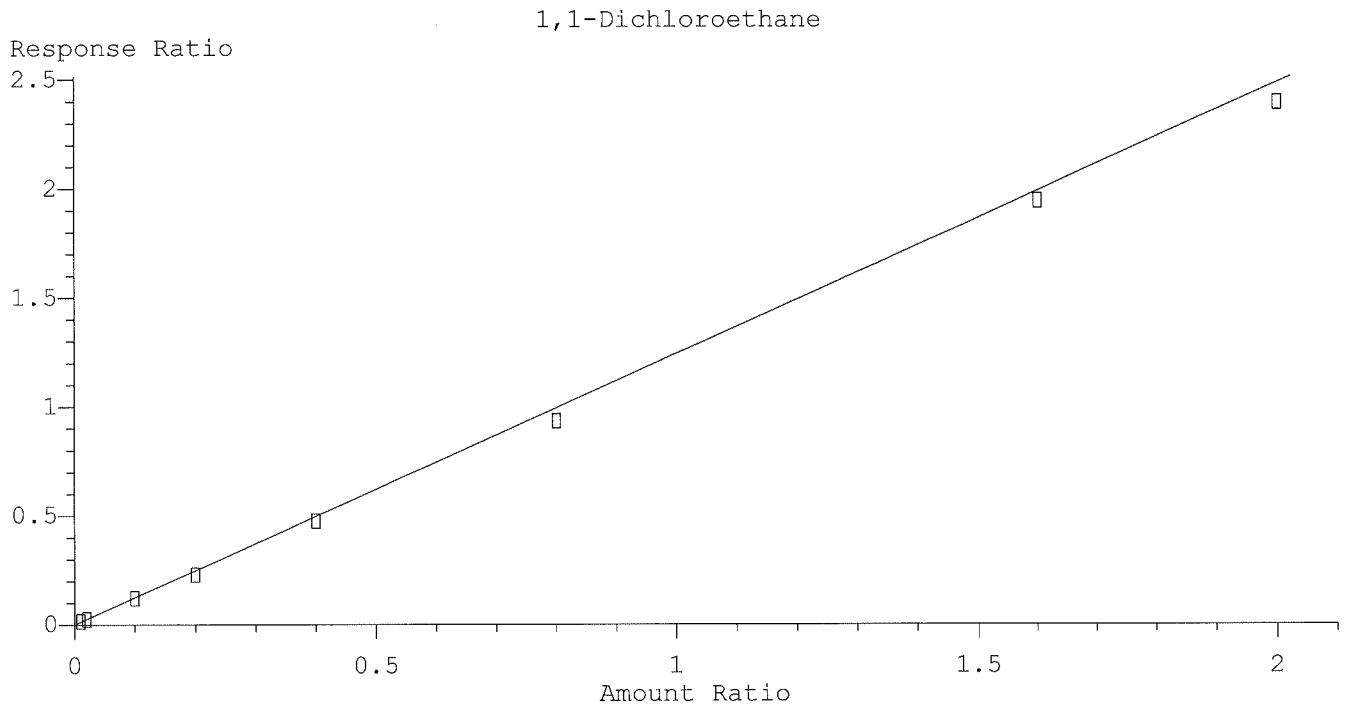


Resp Ratio = 1.03e+000 * Amt
RF Rel Std Dev = 9.9% Curve Fit: Avg RF

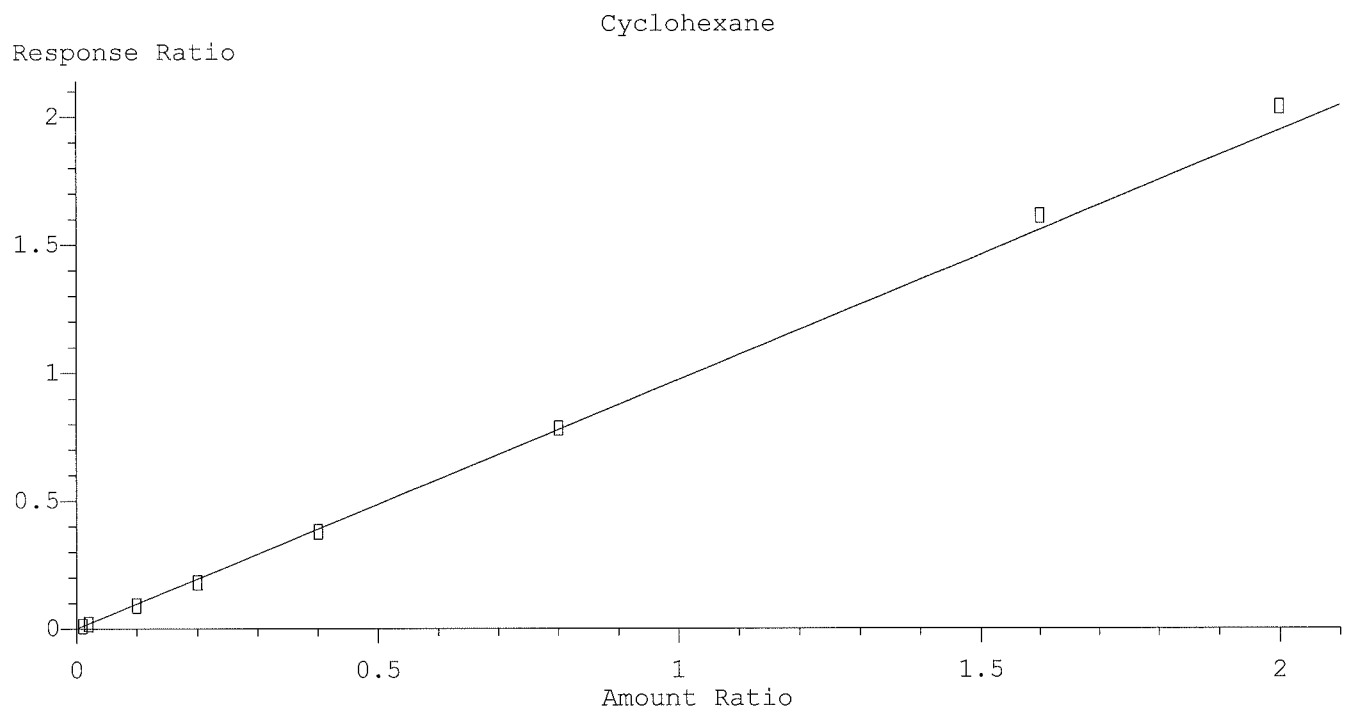


Resp Ratio = 8.67e-001 * Amt
RF Rel Std Dev = 10.9% Curve Fit: Avg RF

Calibration Plot Report

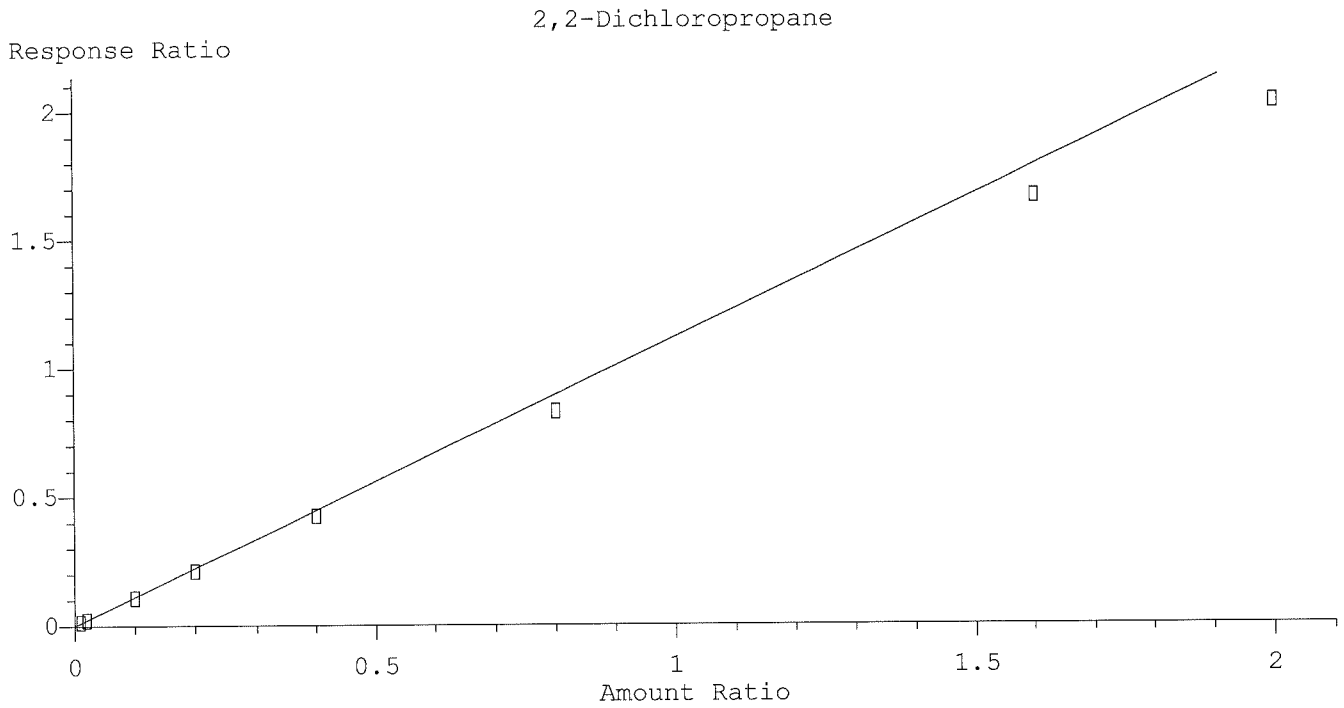


Resp Ratio = 1.24e+000 * Amt
RF Rel Std Dev = 10.2% Curve Fit: Avg RF

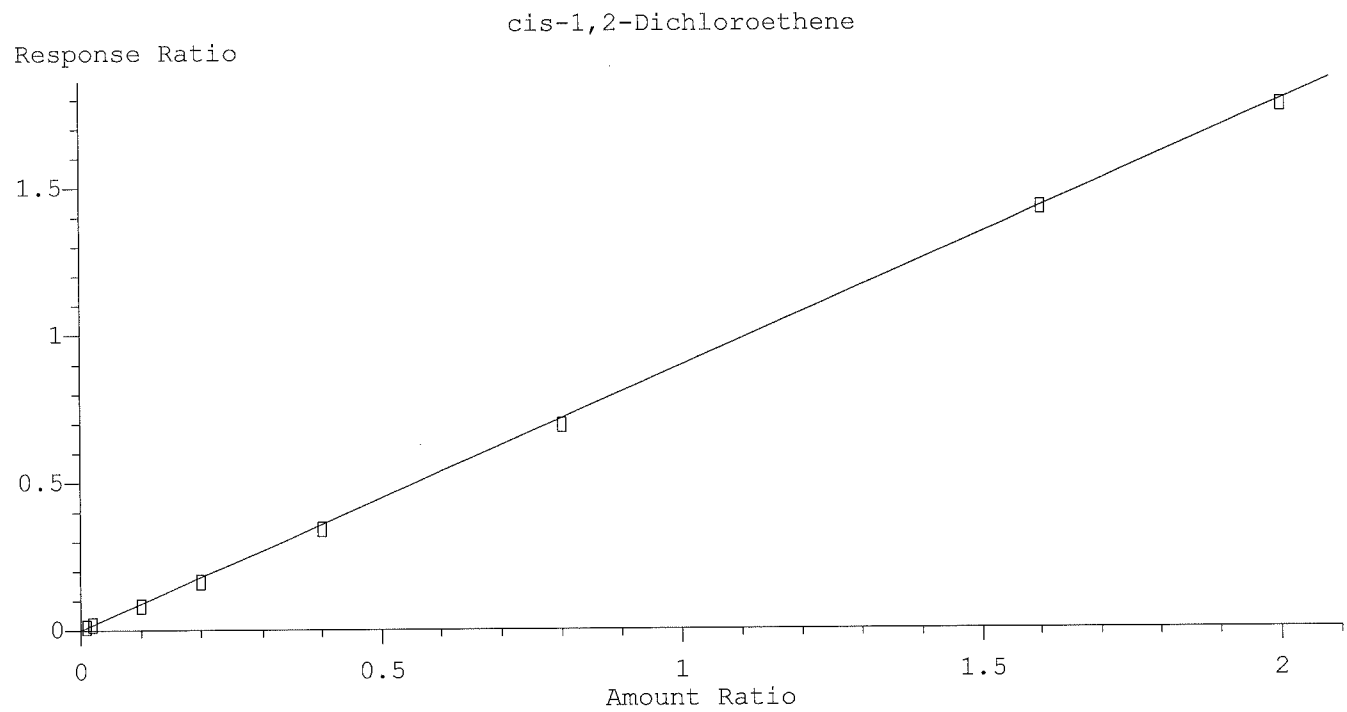


Resp Ratio = 9.72e-001 * Amt
RF Rel Std Dev = 7.0% Curve Fit: Avg RF

Calibration Plot Report

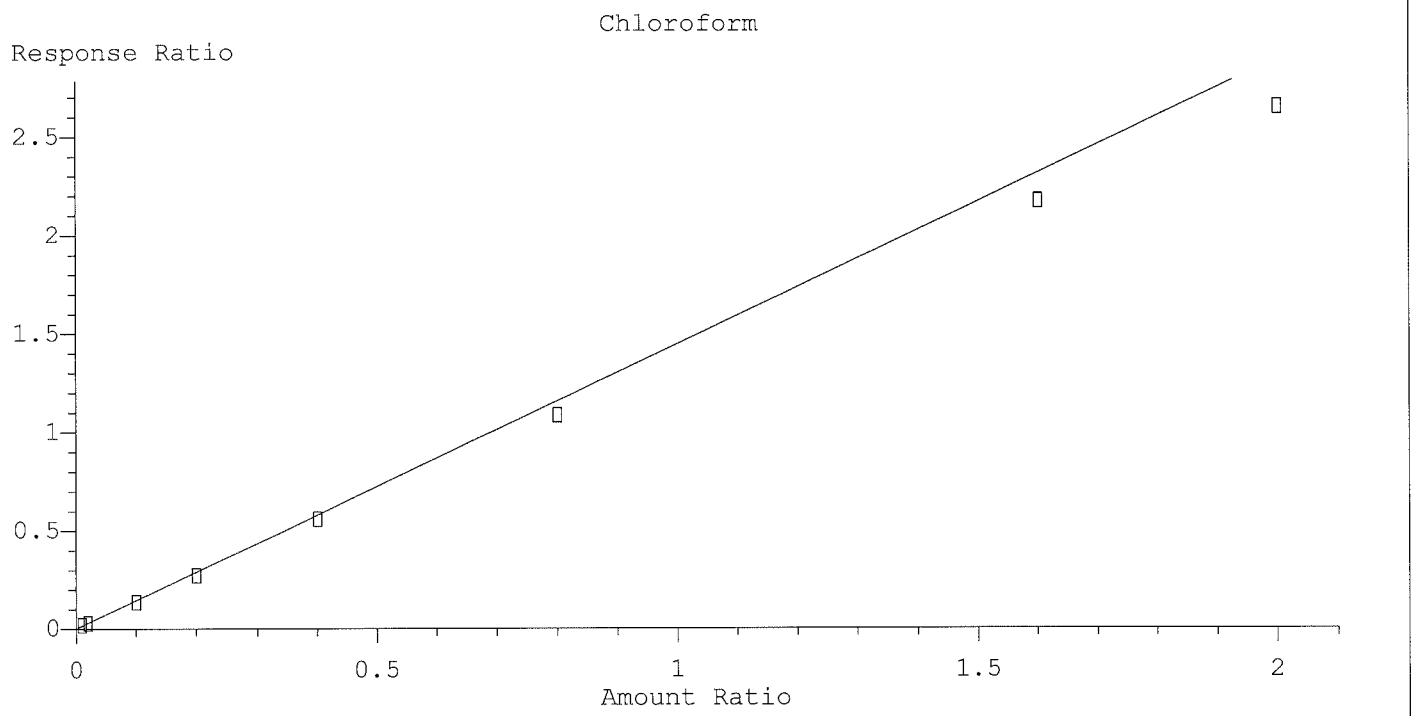


Resp Ratio = 1.12e+000 * Amt
RF Rel Std Dev = 14.0% Curve Fit: Avg RF

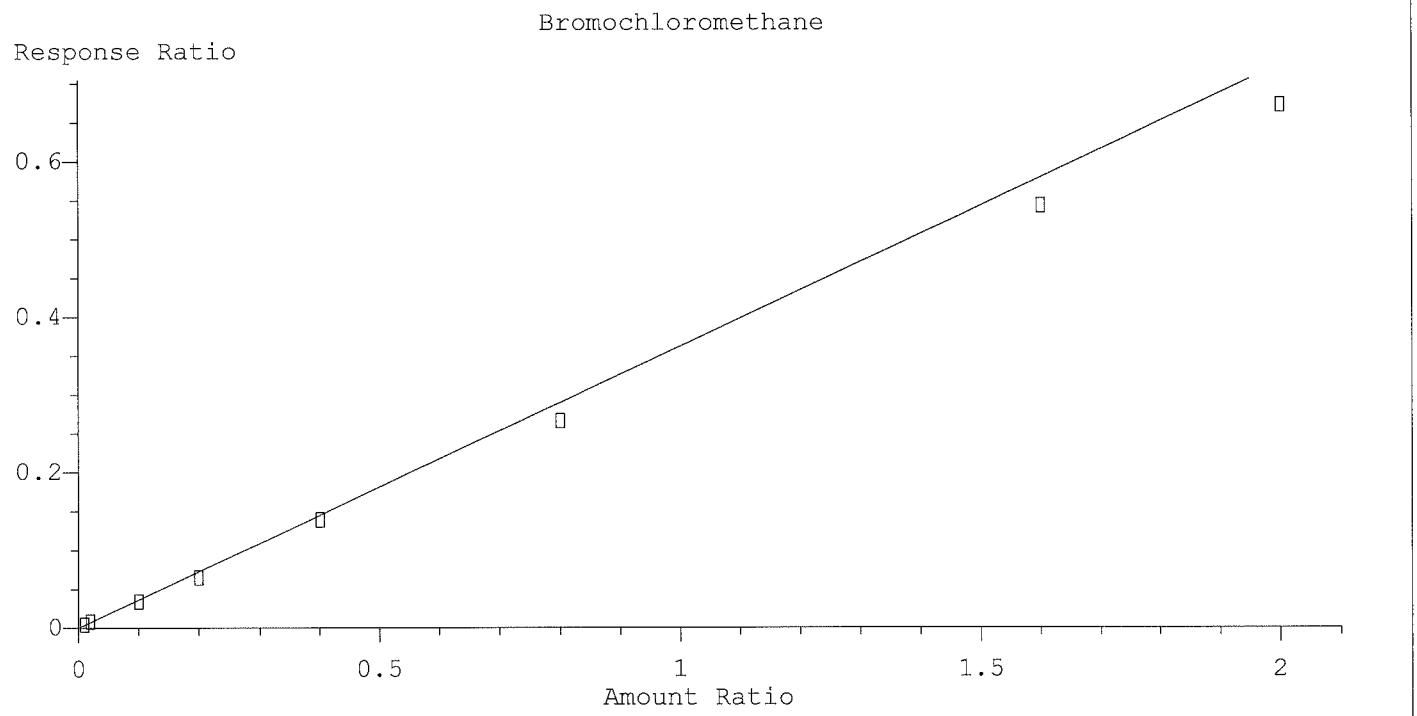


Resp Ratio = 8.94e-001 * Amt
RF Rel Std Dev = 11.0% Curve Fit: Avg RF

Calibration Plot Report

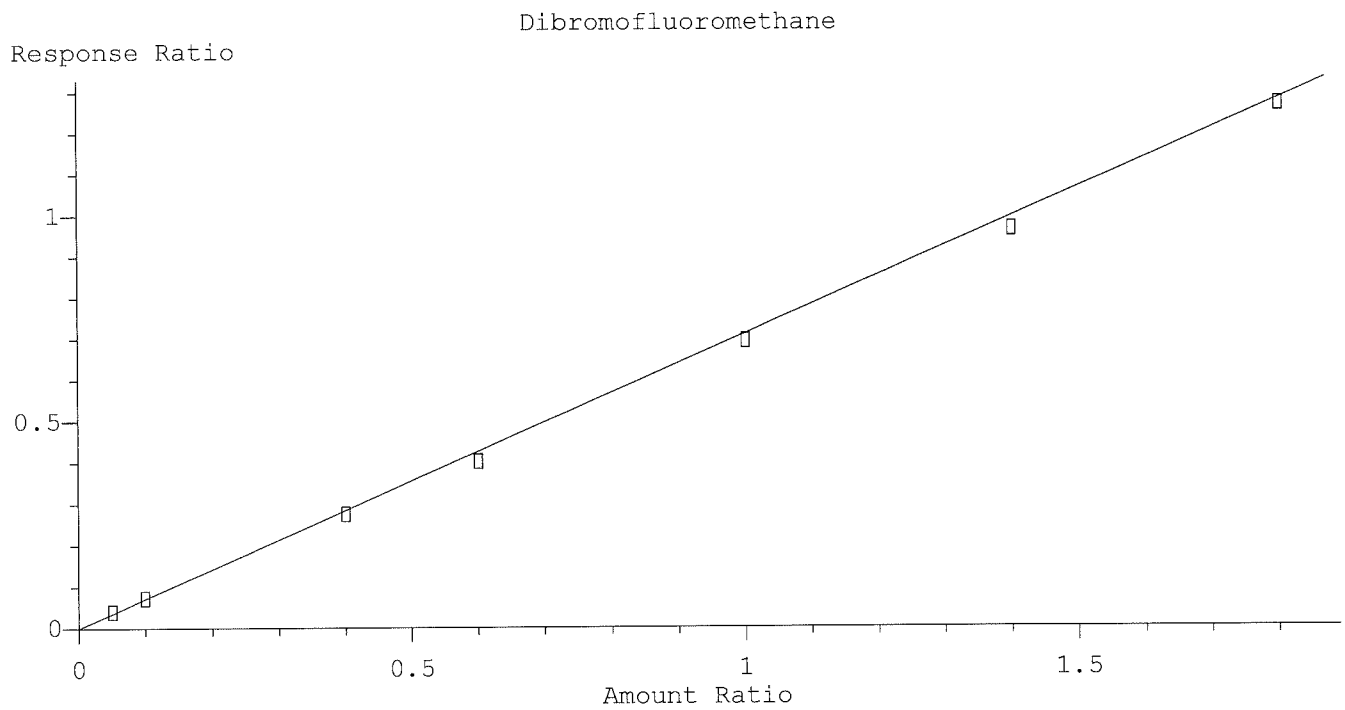


Resp Ratio = 1.45e+000 * Amt
RF Rel Std Dev = 14.6% Curve Fit: Avg RF

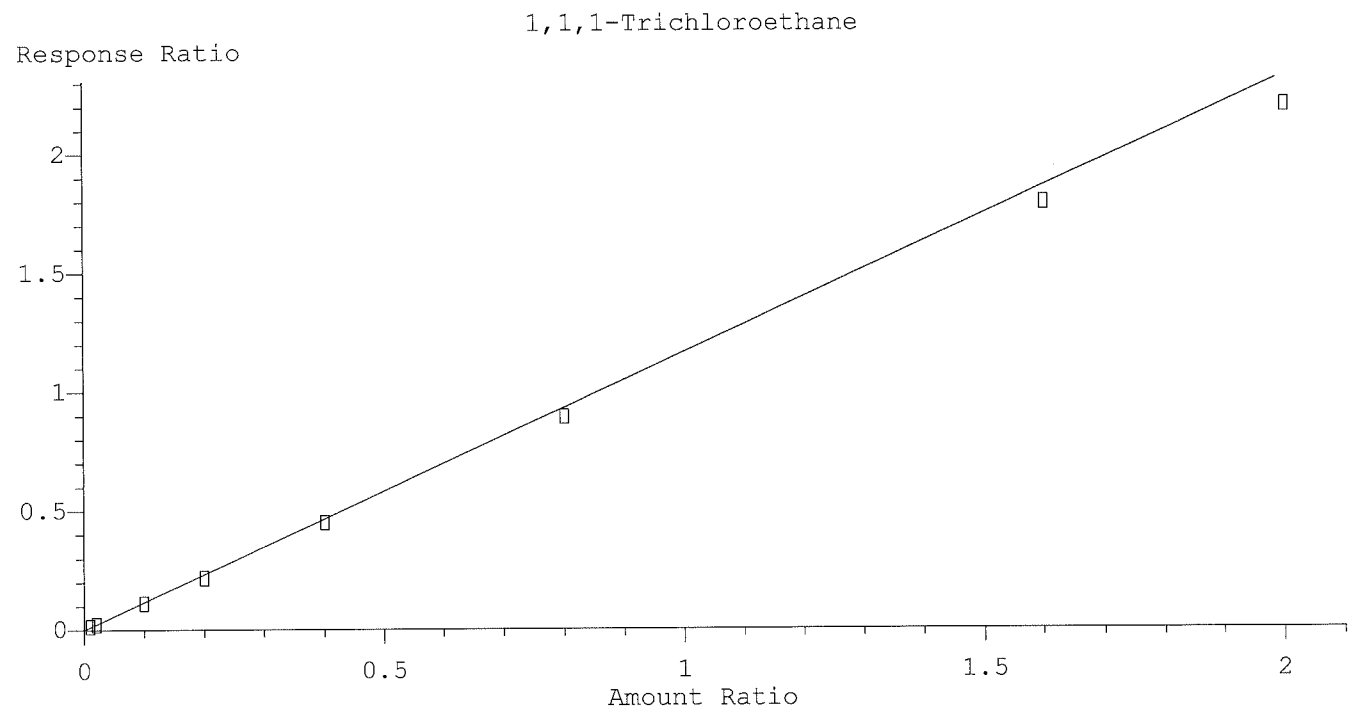


Resp Ratio = 3.61e-001 * Amt
RF Rel Std Dev = 13.2% Curve Fit: Avg RF

Calibration Plot Report

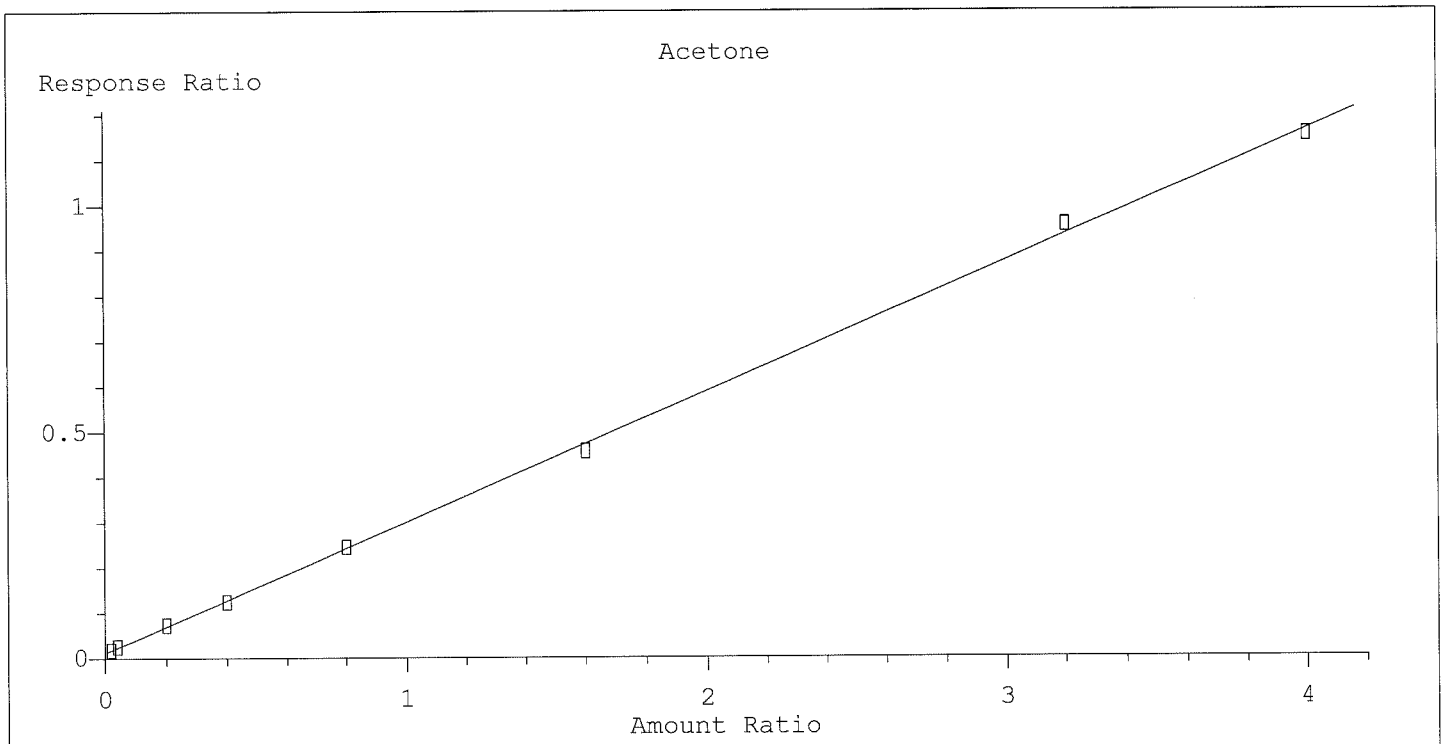


Resp Ratio = 7.11e-001 * Amt
RF Rel Std Dev = 6.0% Curve Fit: Avg RF

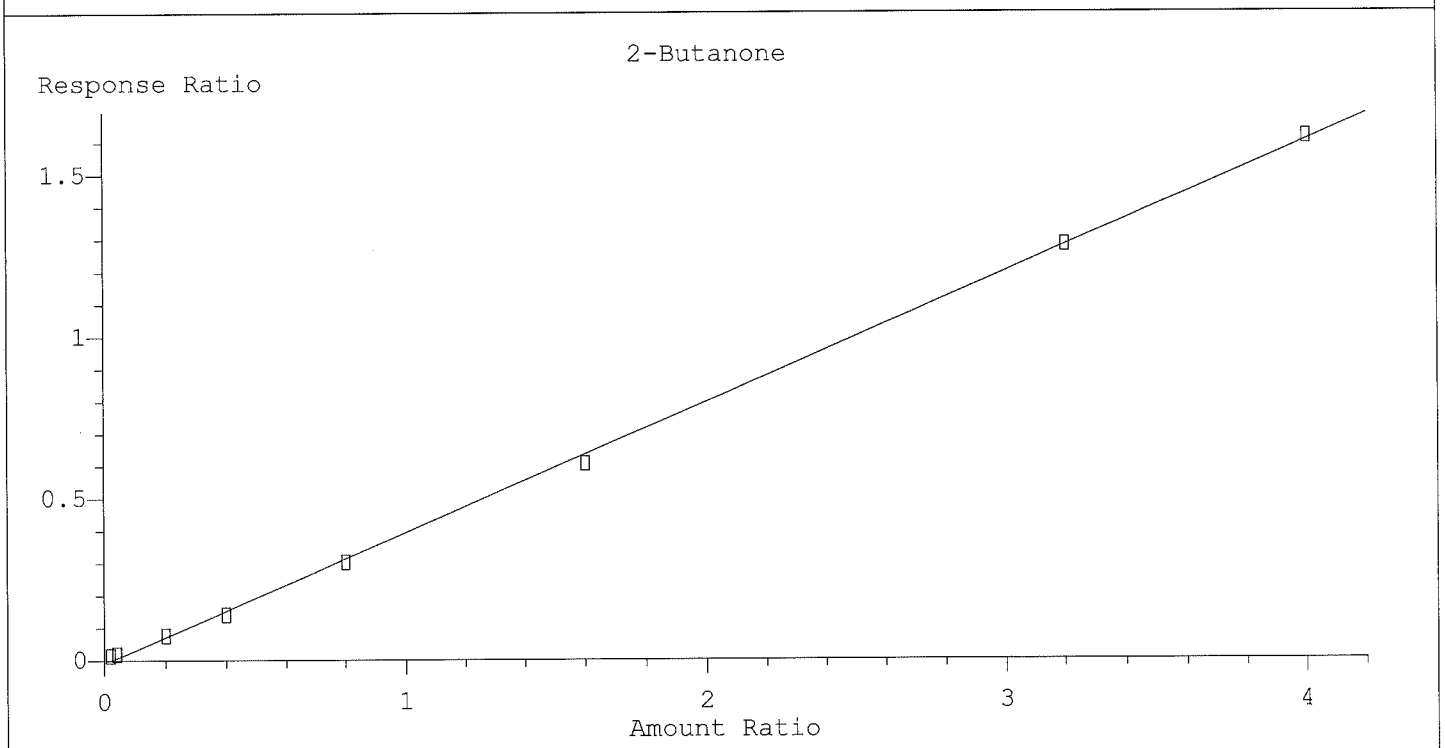


Resp Ratio = 1.16e+000 * Amt
RF Rel Std Dev = 11.5% Curve Fit: Avg RF

Calibration Plot Report

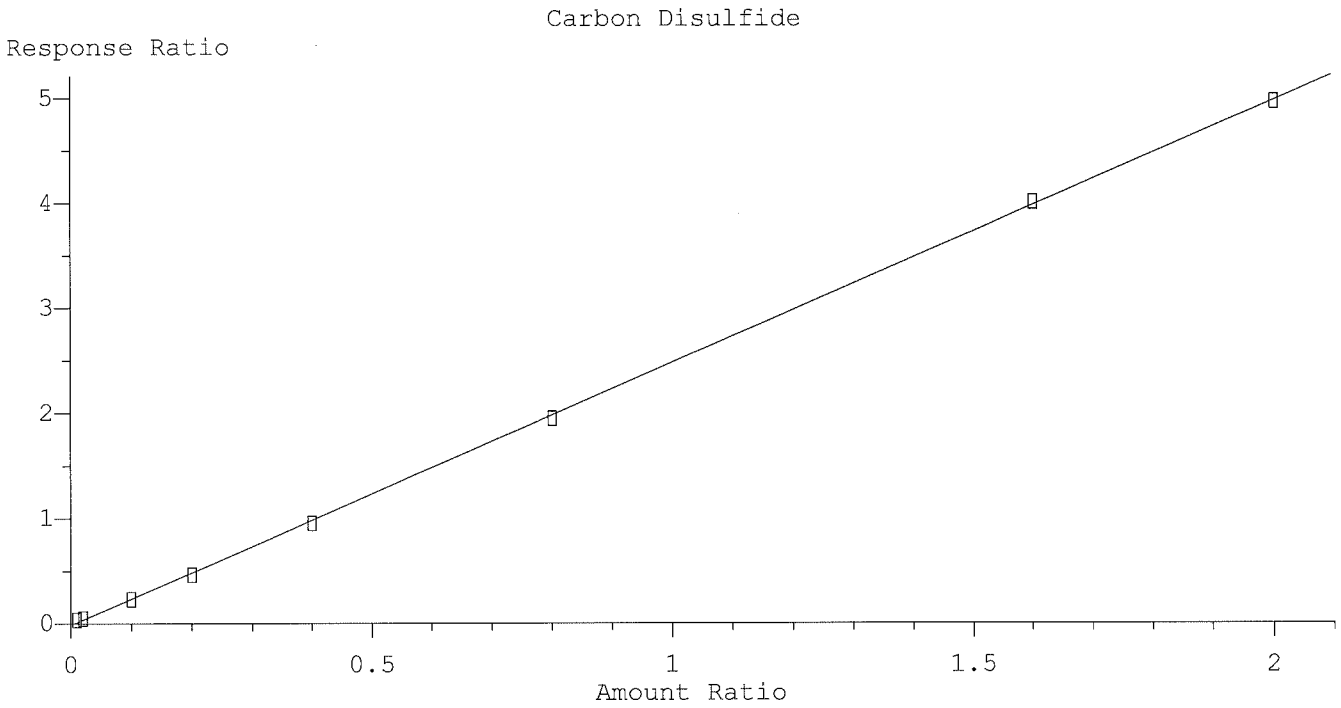


Resp Ratio = 2.88e-001 * Amt + 1.22e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear

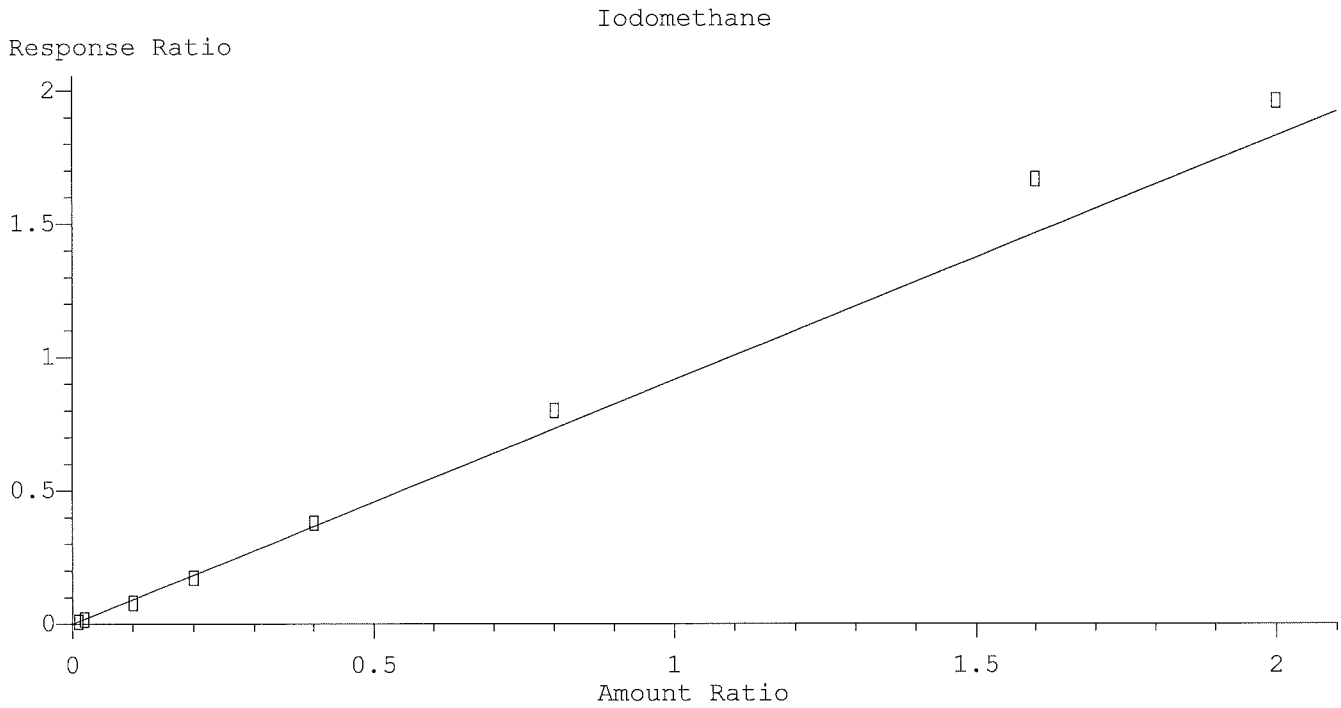


Resp Ratio = 4.03e-001 * Amt - 9.37e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Calibration Plot Report

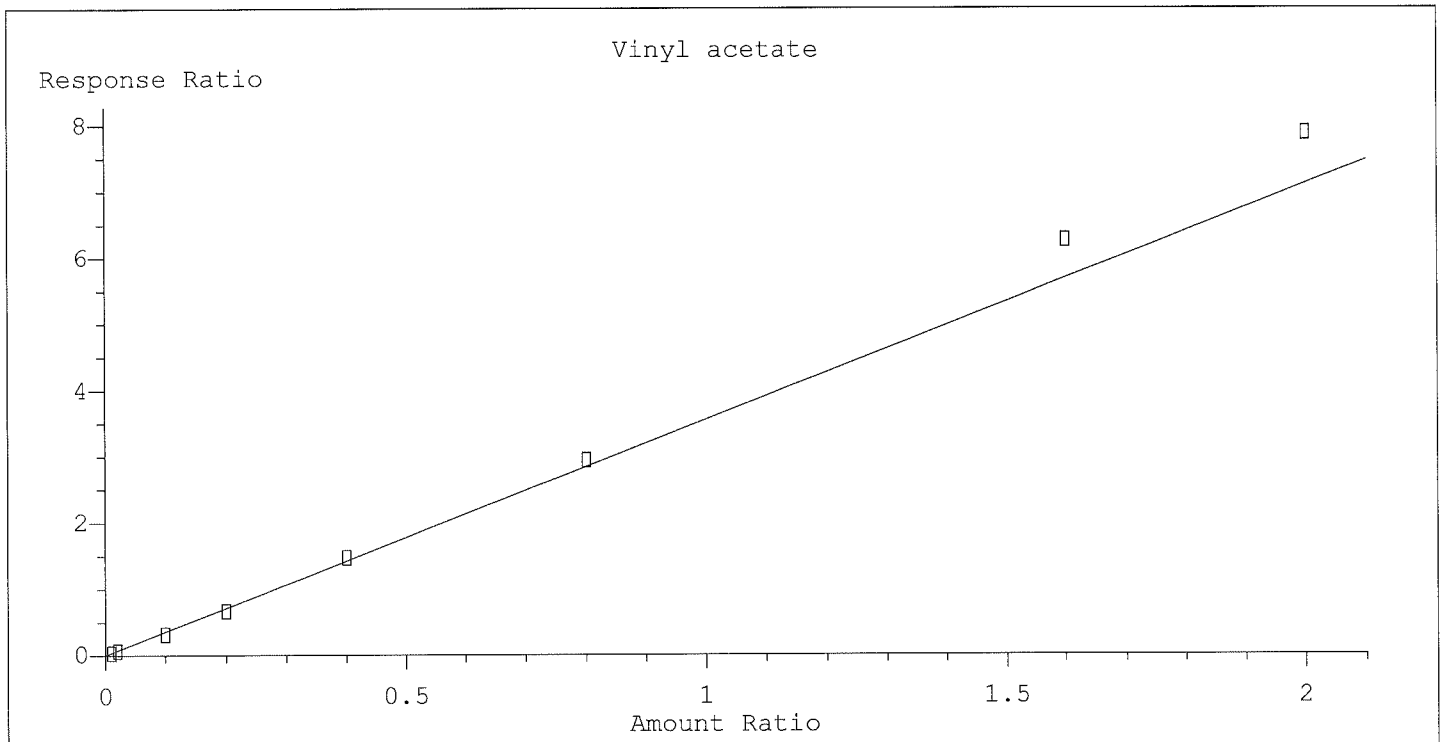


Resp Ratio = 2.49e+000 * Amt - 1.77e-002
Coef of Det (r^2) = 1.000 Curve Fit: Linear

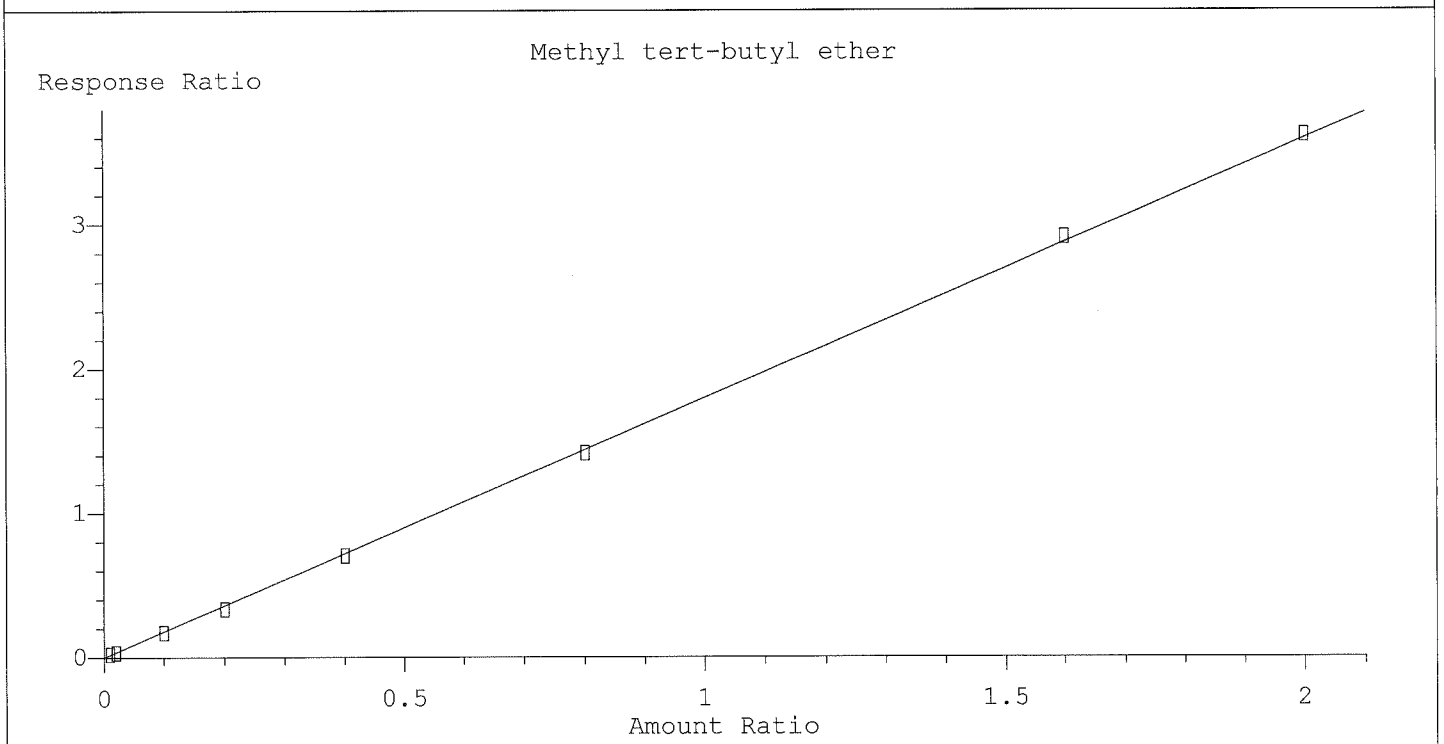


Resp Ratio = 9.13e-001 * Amt
RF Rel Std Dev = 10.0% Curve Fit: Avg RF

Calibration Plot Report

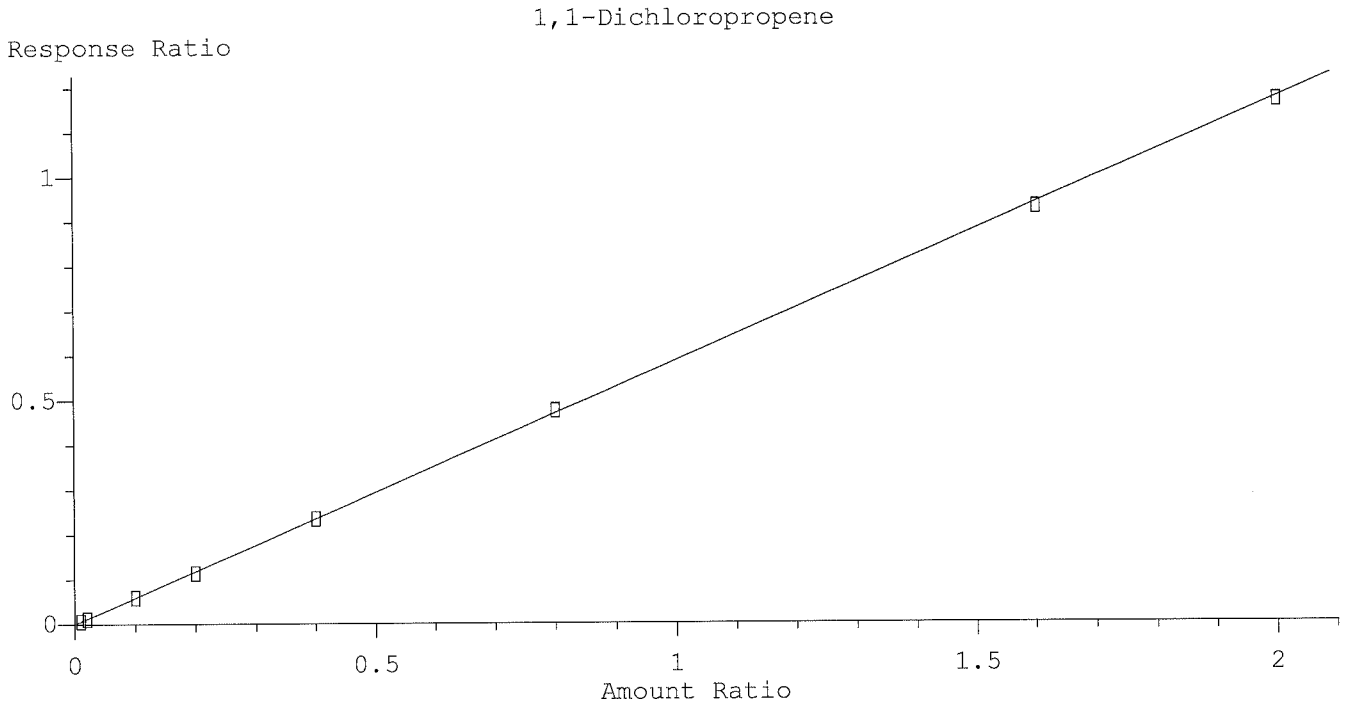


Resp Ratio = 3.56e+000 * Amt
RF Rel Std Dev = 8.8% Curve Fit: Avg RF

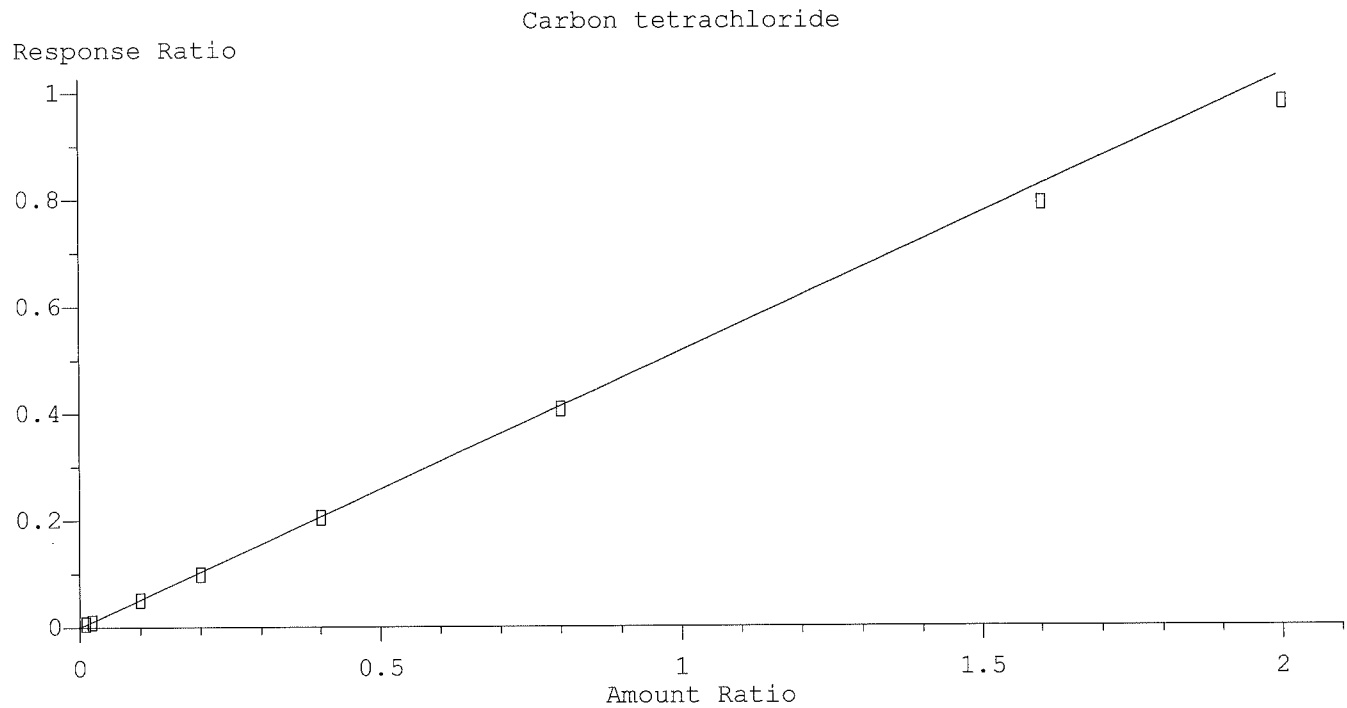


Resp Ratio = 1.79e+000 * Amt
RF Rel Std Dev = 8.0% Curve Fit: Avg RF

Calibration Plot Report

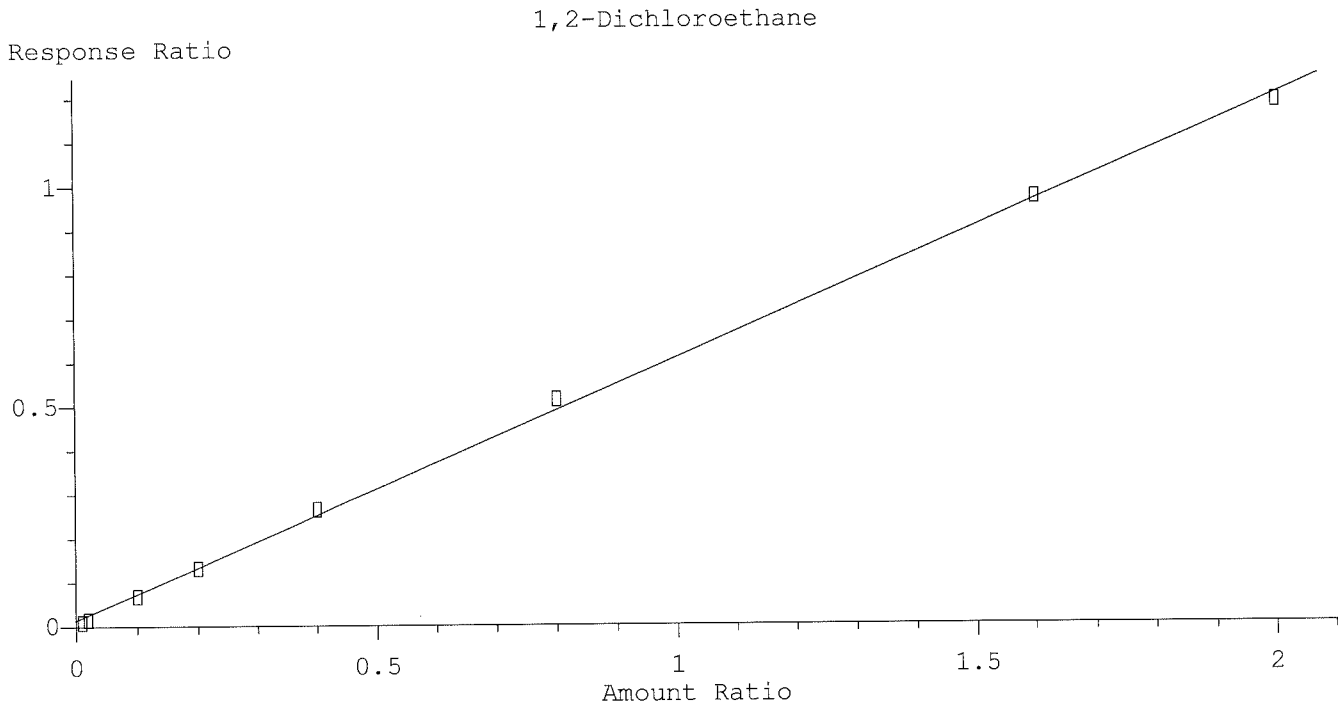


Resp Ratio = 5.87e-001 * Amt
RF Rel Std Dev = 2.7% Curve Fit: Avg RF

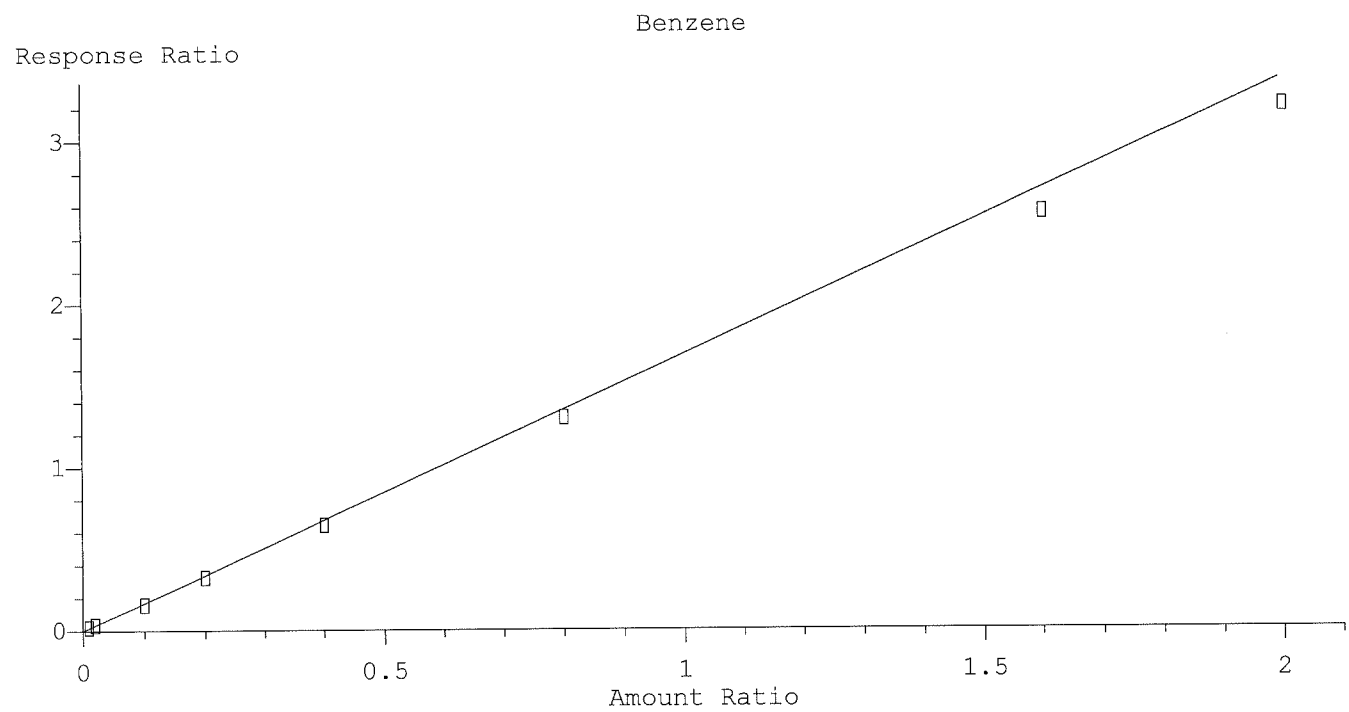


Resp Ratio = 5.16e-001 * Amt
RF Rel Std Dev = 9.1% Curve Fit: Avg RF

Calibration Plot Report

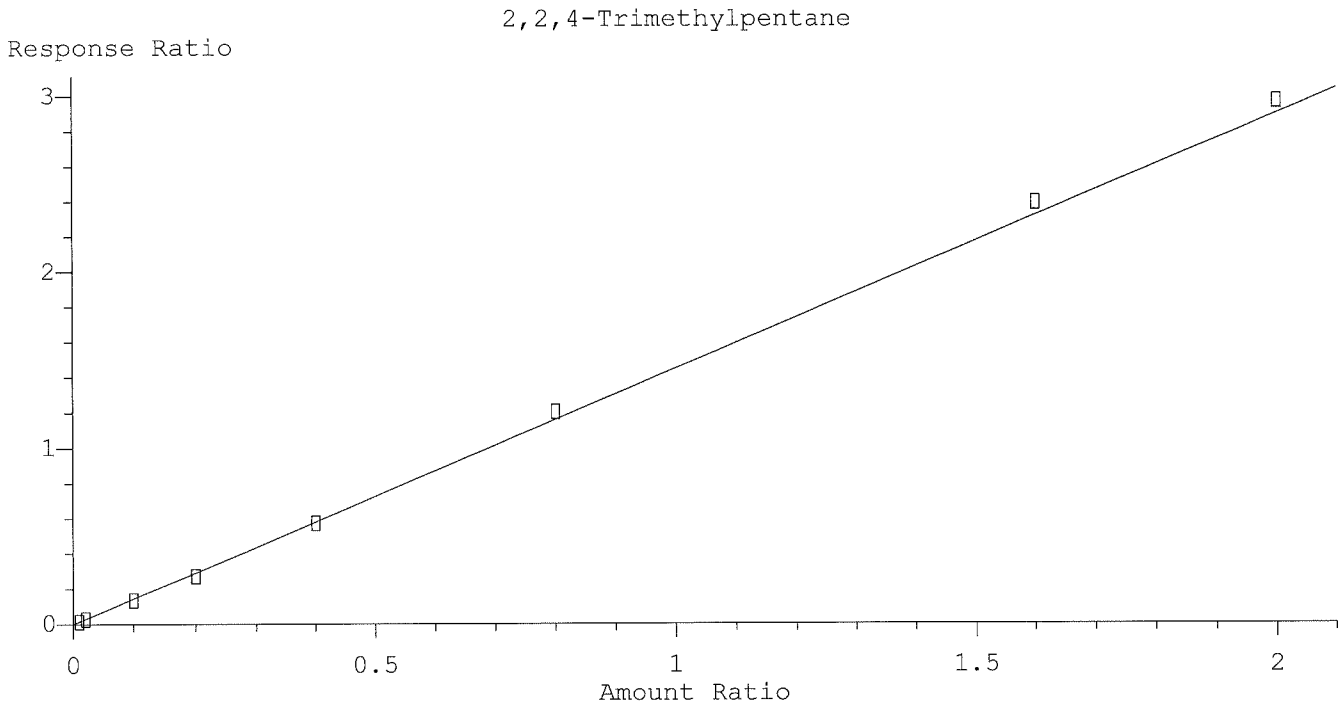


Resp Ratio = 5.95e-001 * Amt + 1.39e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear

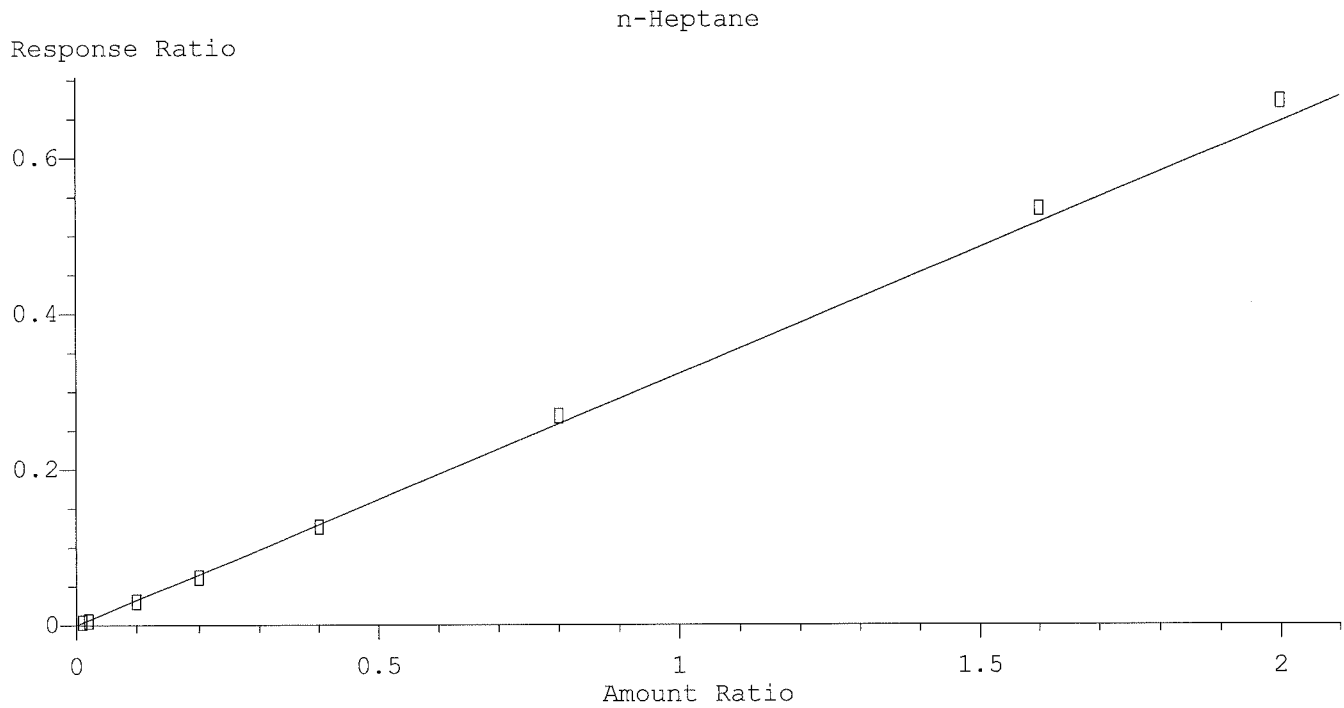


Resp Ratio = 1.69e+000 * Amt
RF Rel Std Dev = 10.7% Curve Fit: Avg RF

Calibration Plot Report

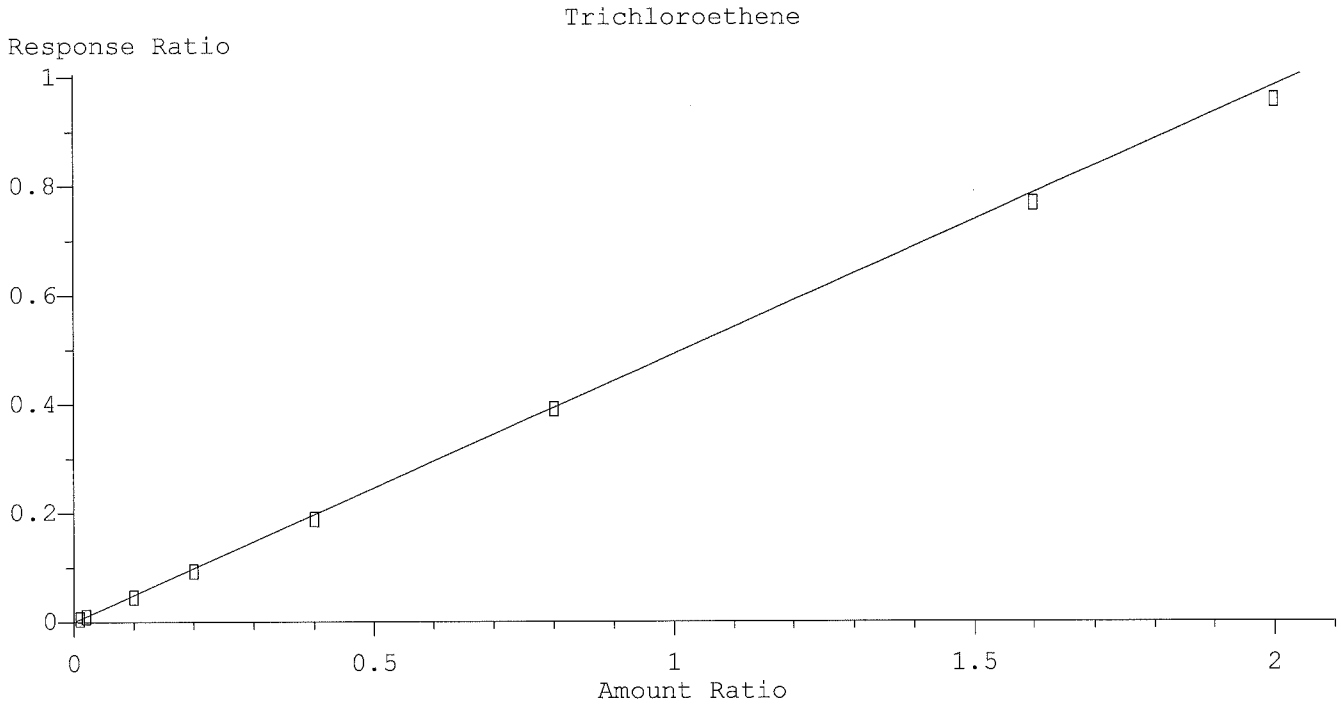


Resp Ratio = 1.45e+000 * Amt
RF Rel Std Dev = 4.5% Curve Fit: Avg RF

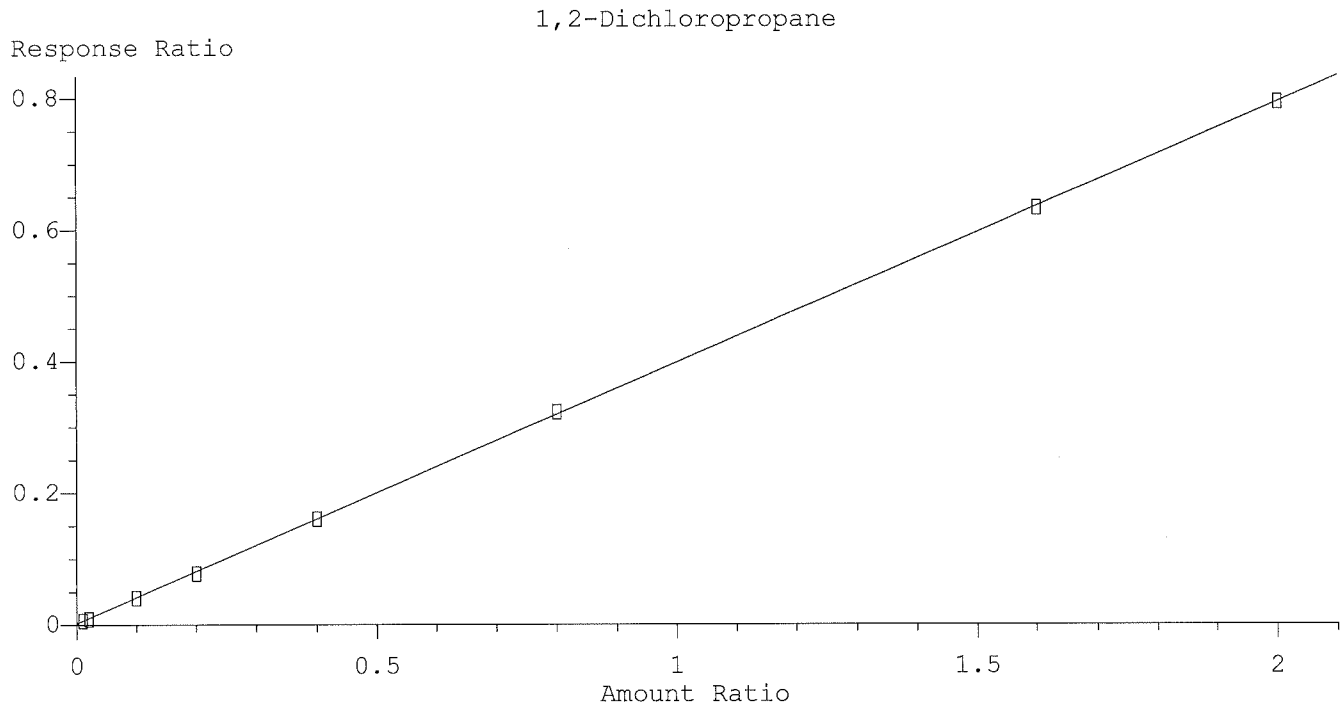


Resp Ratio = 3.23e-001 * Amt
RF Rel Std Dev = 10.5% Curve Fit: Avg RF

Calibration Plot Report

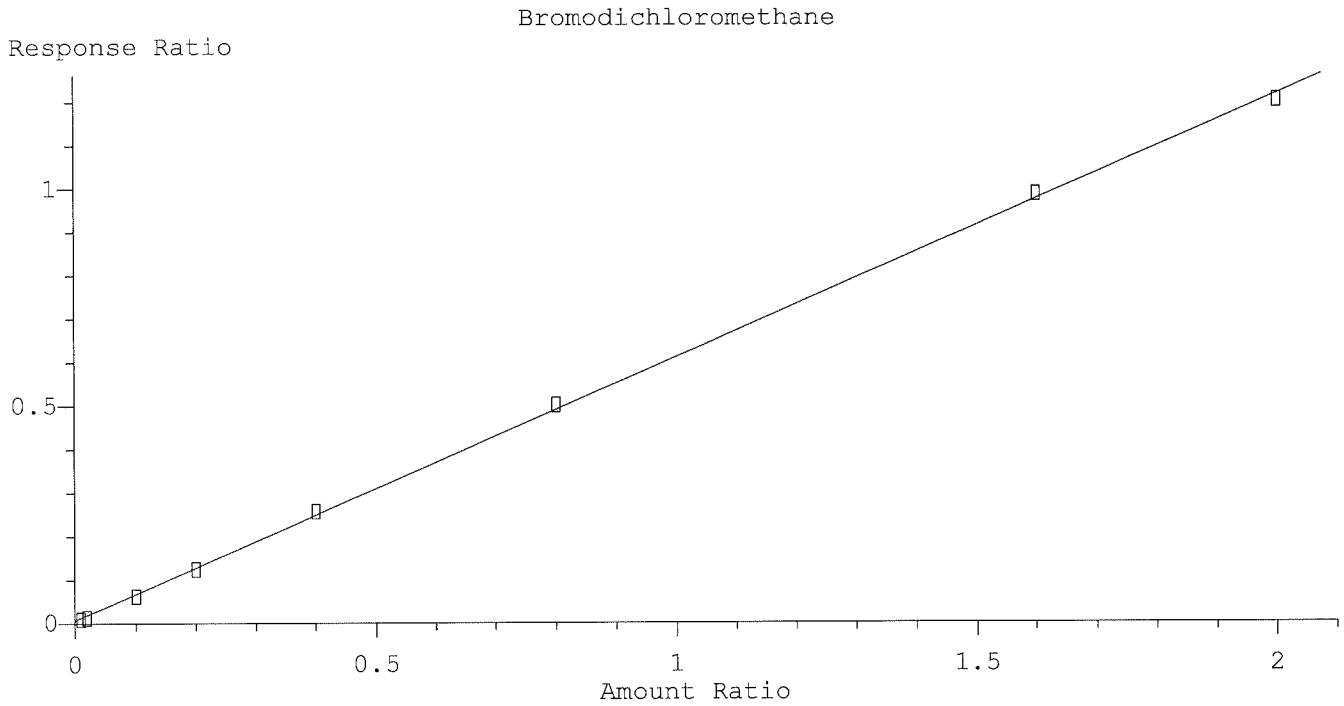


Resp Ratio = 4.92e-001 * Amt
RF Rel Std Dev = 9.2% Curve Fit: Avg RF

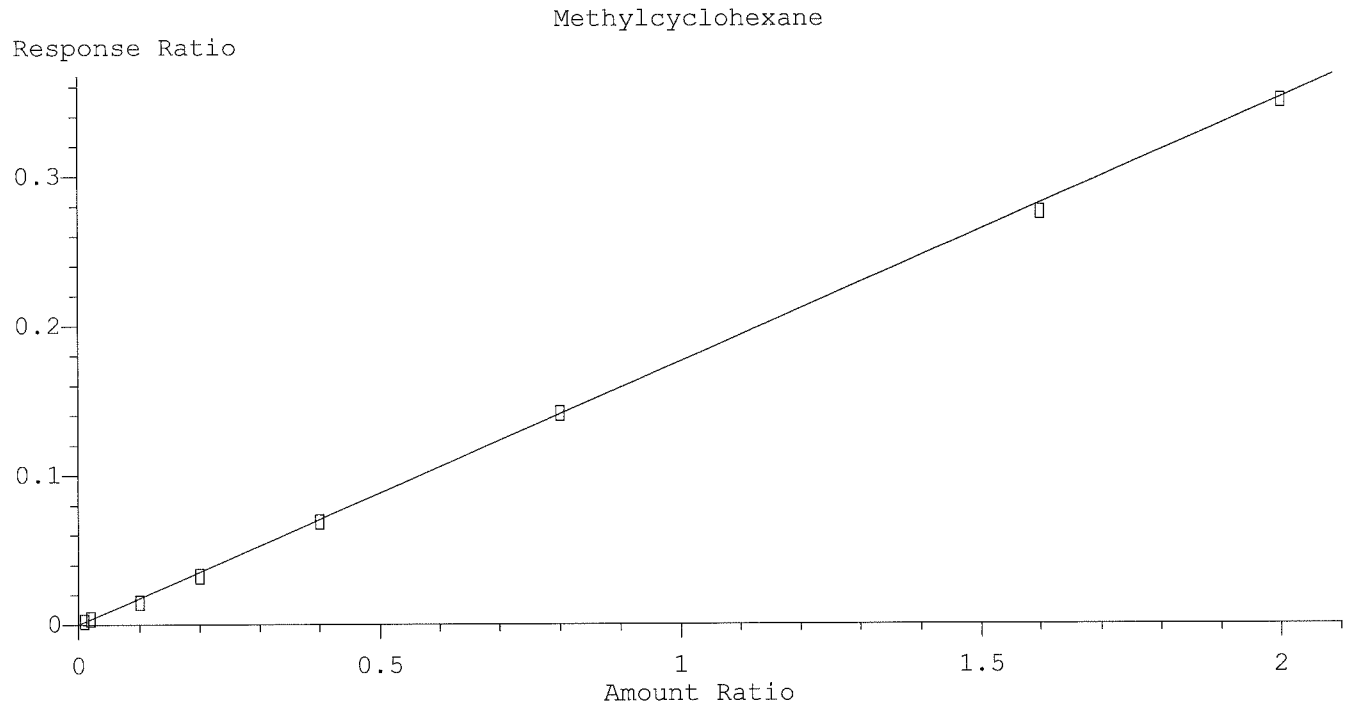


Resp Ratio = 3.96e-001 * Amt + 1.51e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Calibration Plot Report

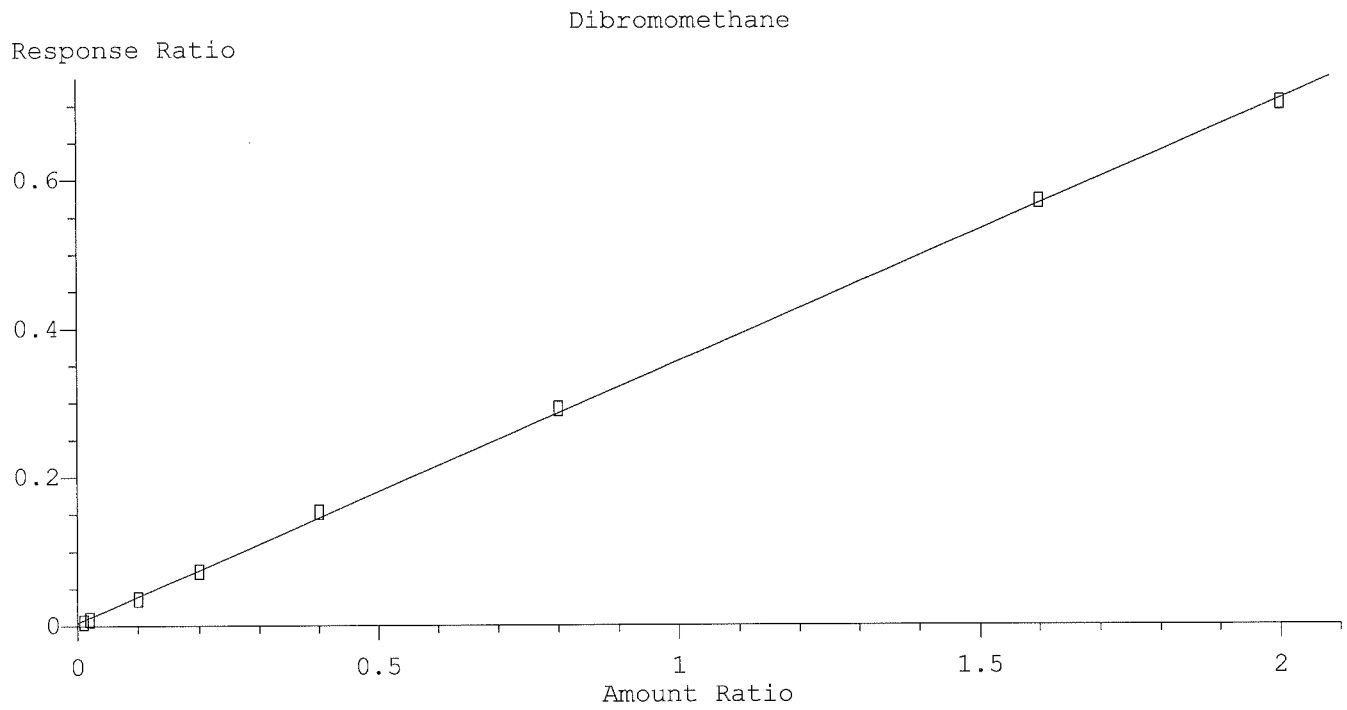


Resp Ratio = 6.05e-001 * Amt + 6.71e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

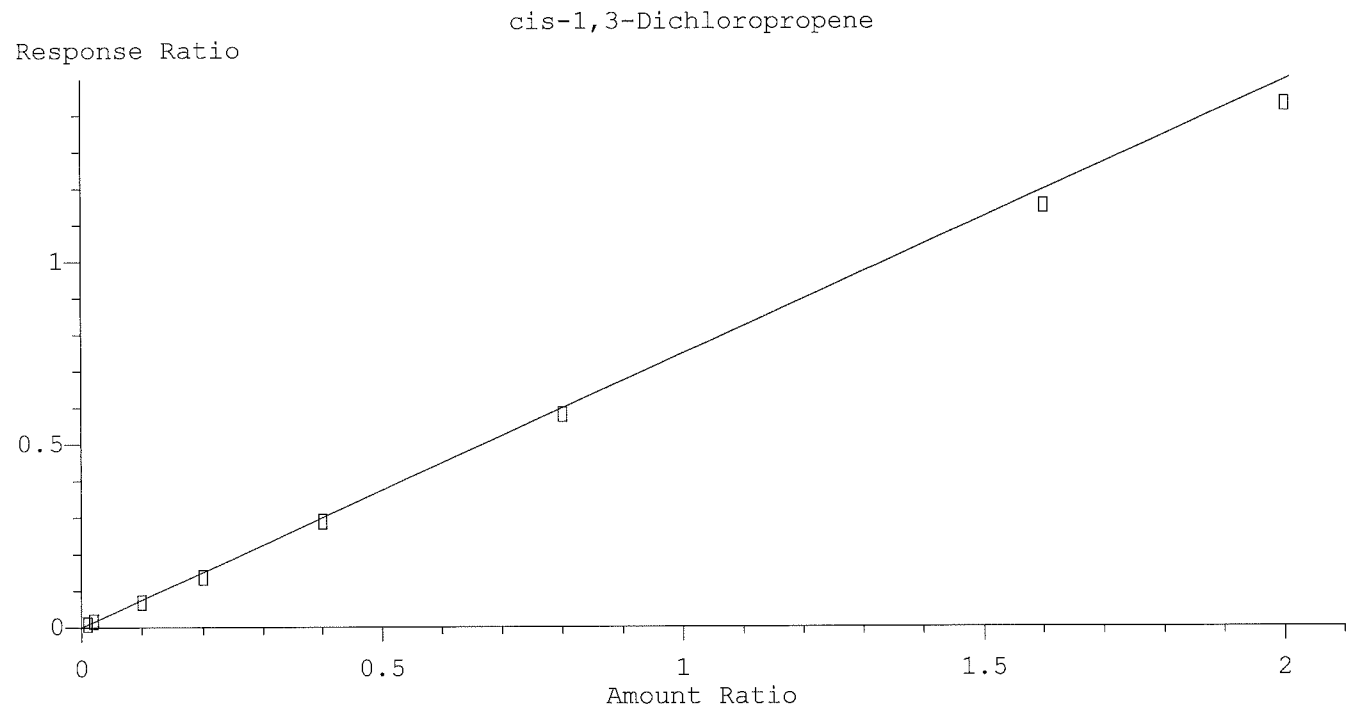


Resp Ratio = 1.76e-001 * Amt
RF Rel Std Dev = 10.6% Curve Fit: Avg RF

Calibration Plot Report

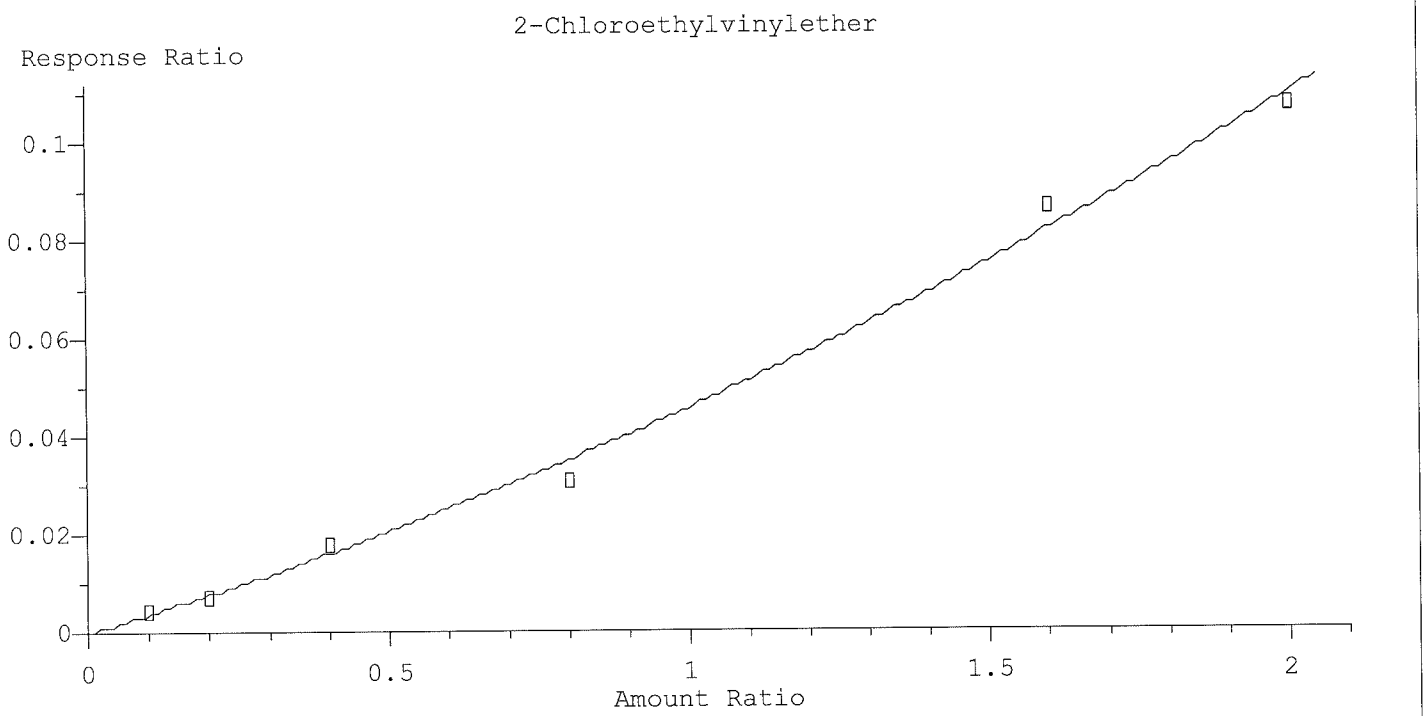


Resp Ratio = 3.52e-001 * Amt + 4.39e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

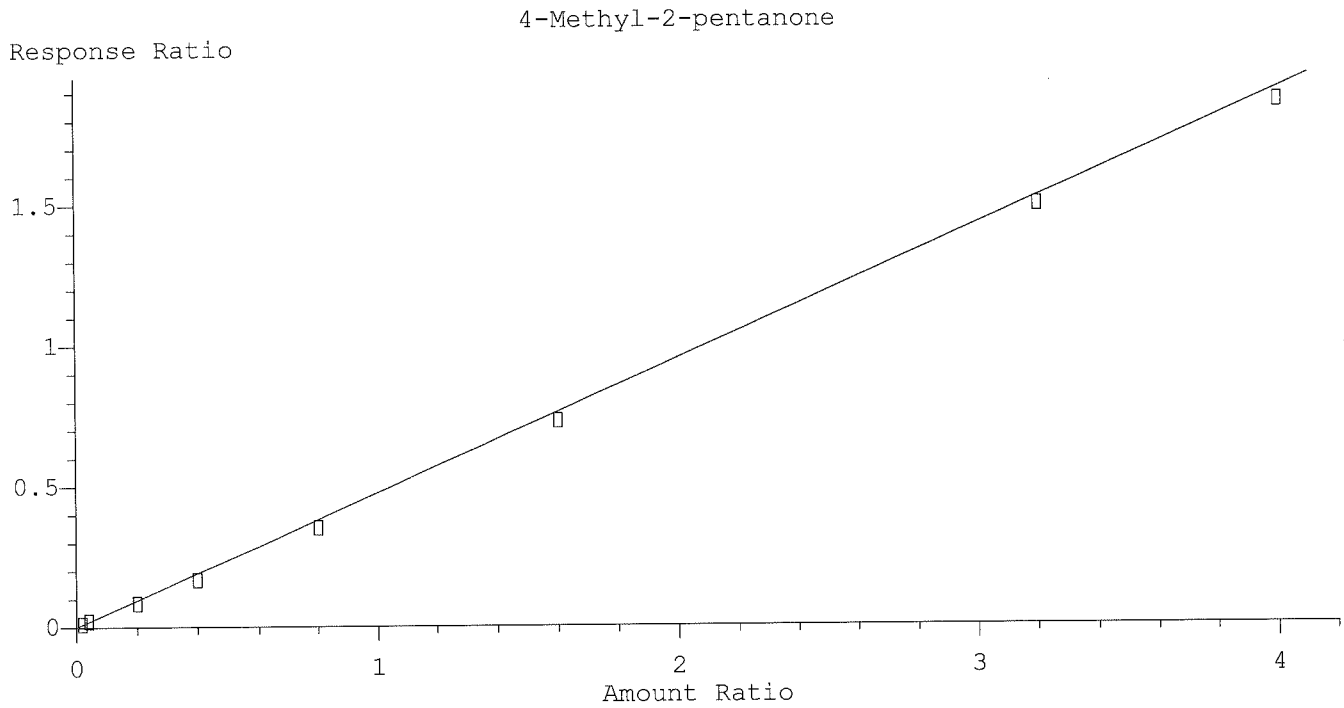


Resp Ratio = 7.46e-001 * Amt
RF Rel Std Dev = 10.4% Curve Fit: Avg RF

Calibration Plot Report

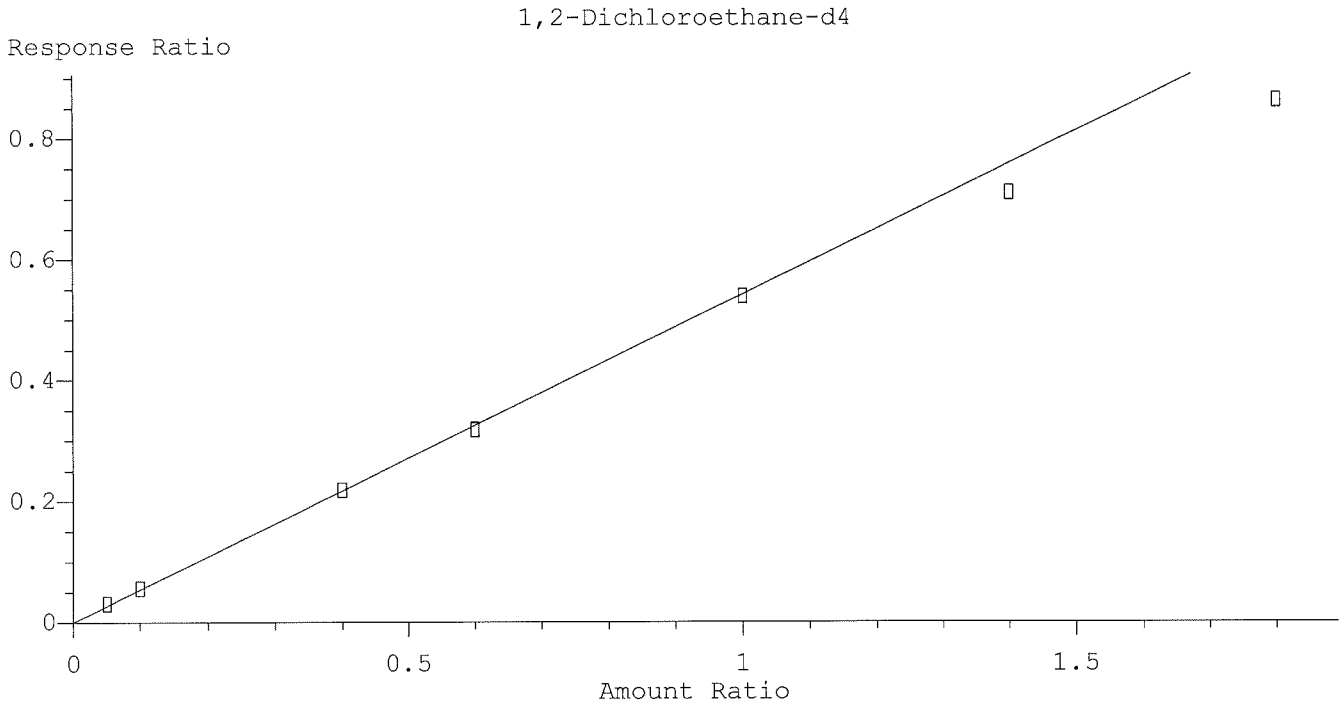


R = 9.16e-003 A*A + 3.65e-002 A - 5.60e-005
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic

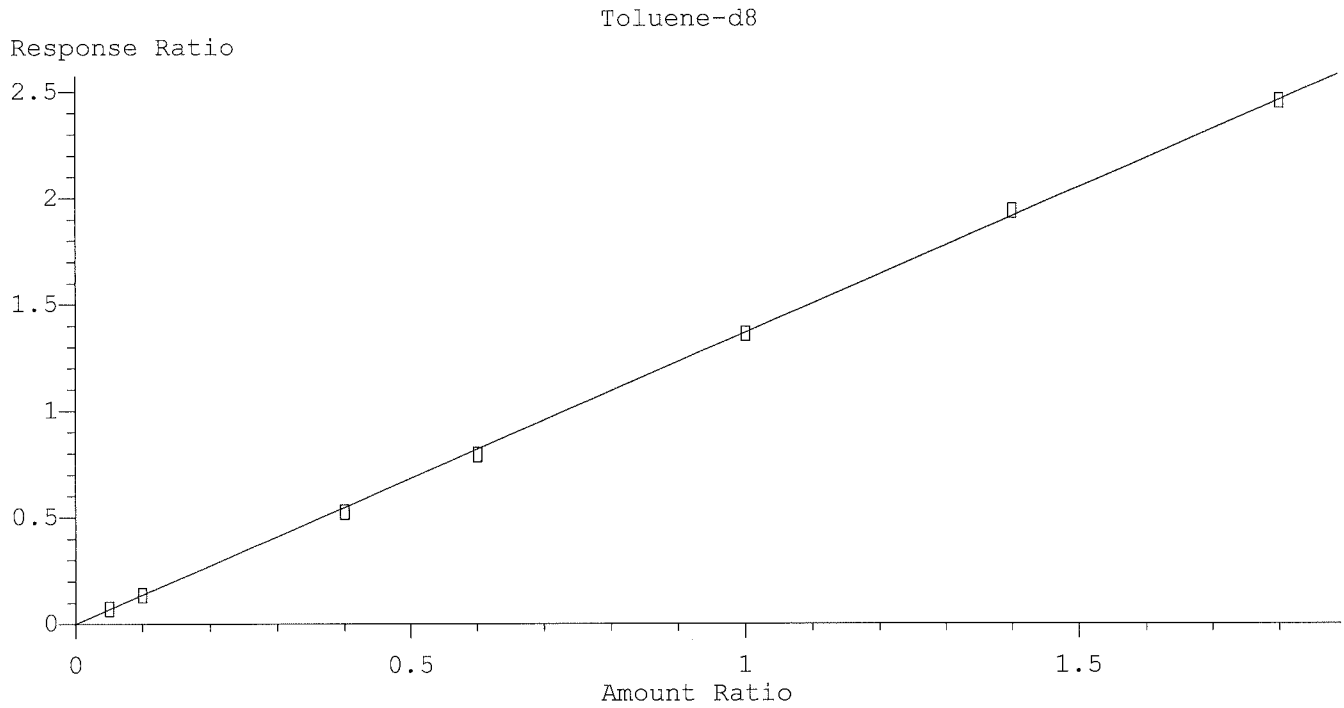


Resp Ratio = 4.76e-001 * Amt
RF Rel Std Dev = 12.9% Curve Fit: Avg RF

Calibration Plot Report

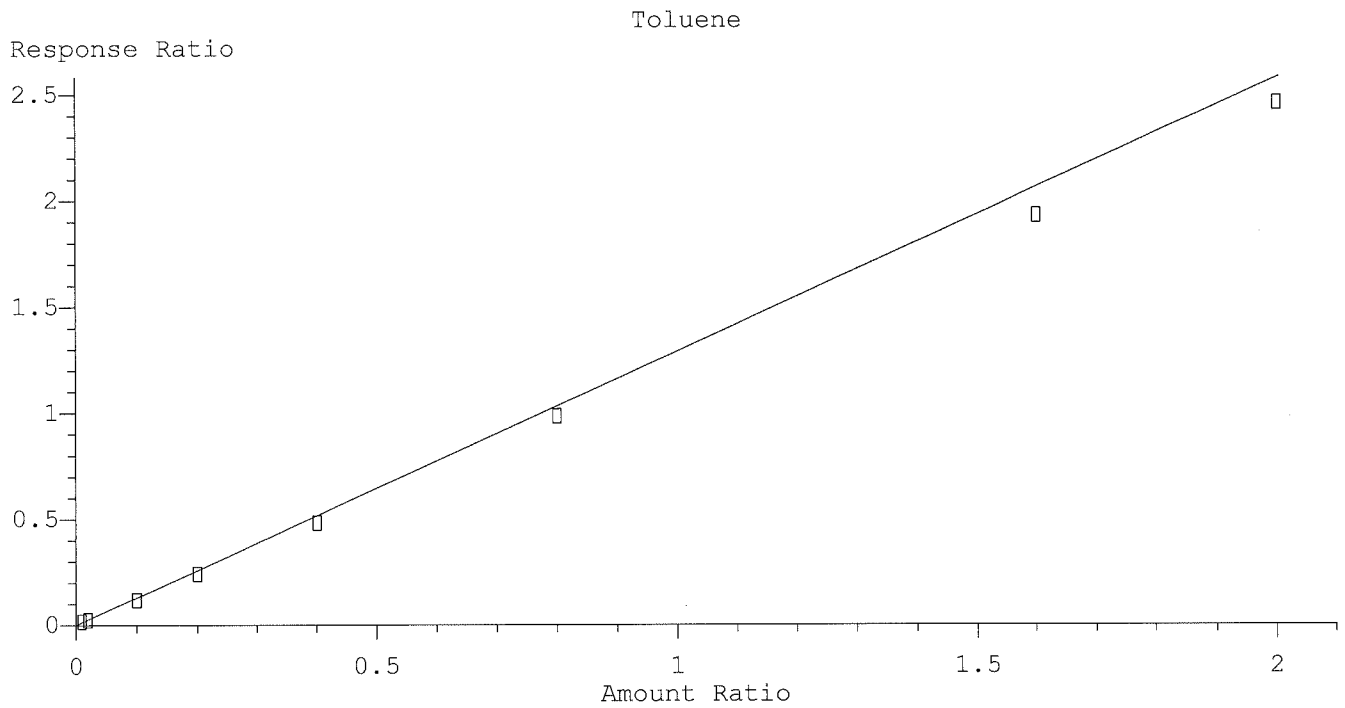


Resp Ratio = 5.42e-001 * Amt
RF Rel Std Dev = 8.6% Curve Fit: Avg RF

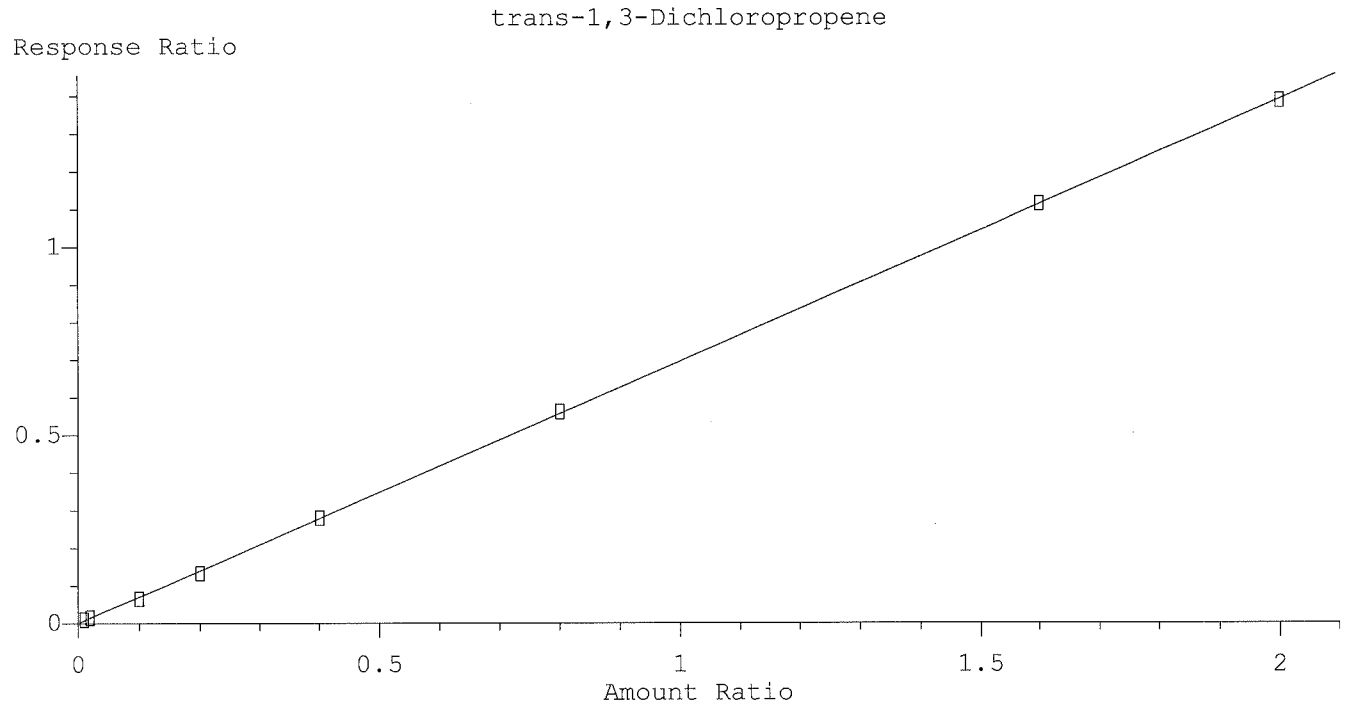


Resp Ratio = 1.36e+000 * Amt
RF Rel Std Dev = 3.1% Curve Fit: Avg RF

Calibration Plot Report

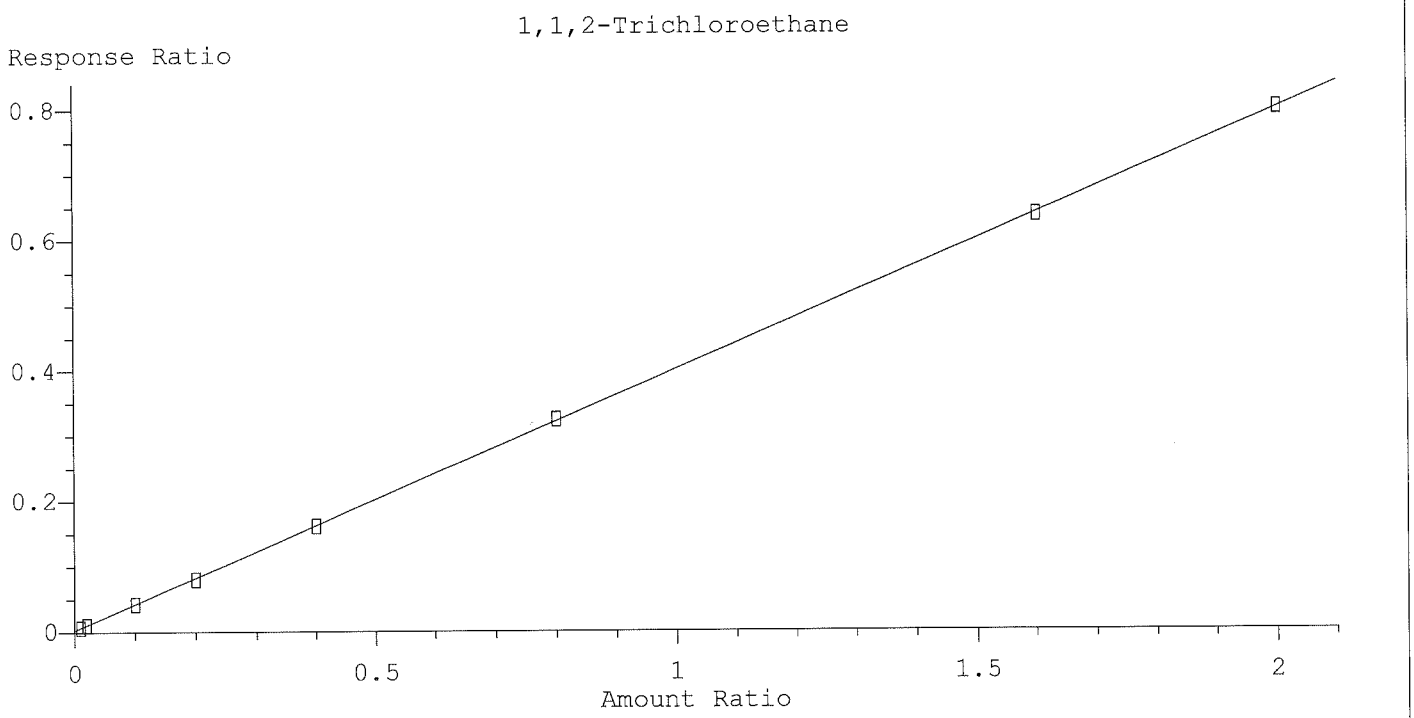


Resp Ratio = 1.29e+000 * Amt
RF Rel Std Dev = 14.4% Curve Fit: Avg RF

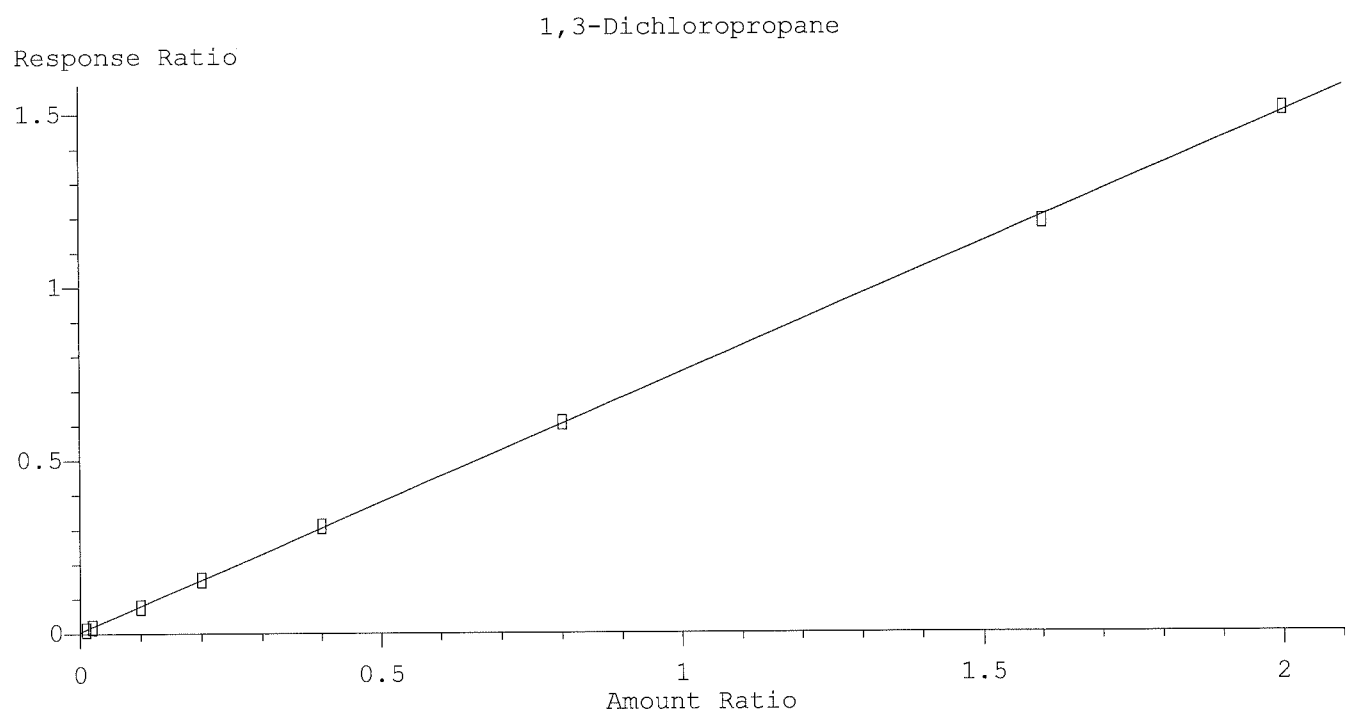


Resp Ratio = 6.95e-001 * Amt + 1.77e-004
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Calibration Plot Report

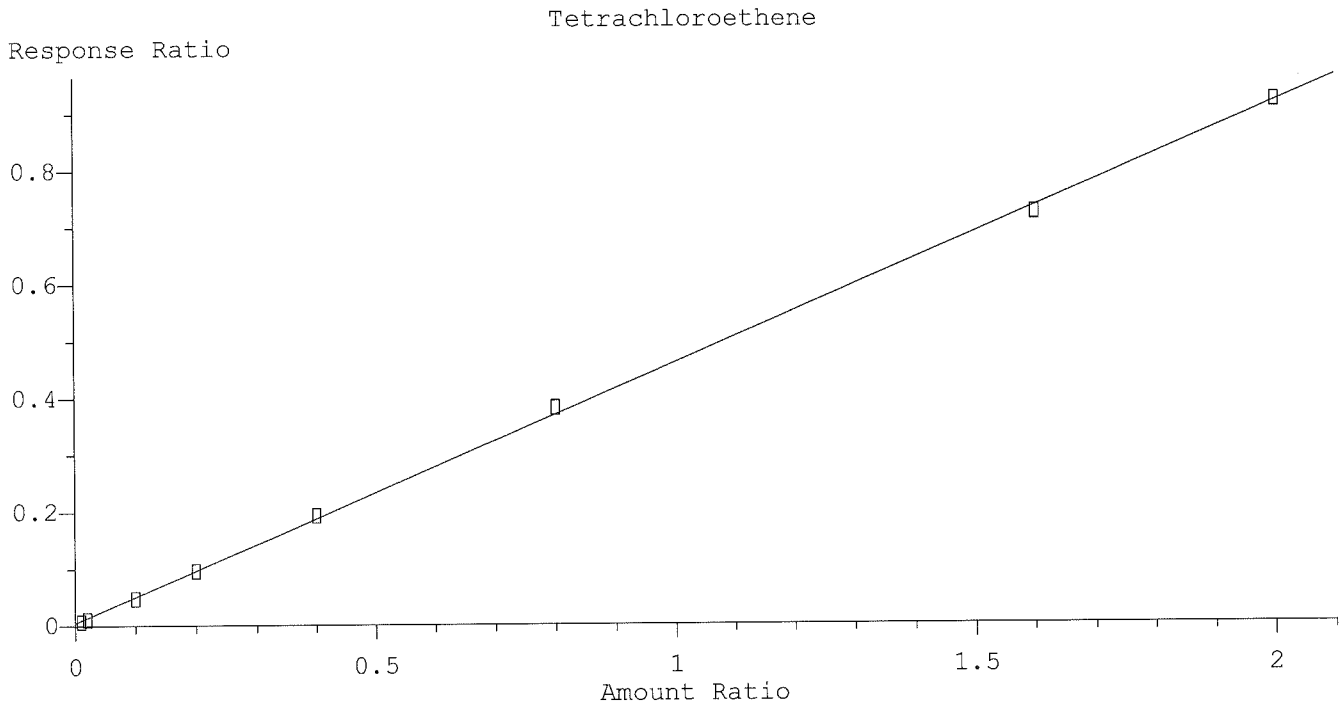


Resp Ratio = 3.98e-001 * Amt + 2.60e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

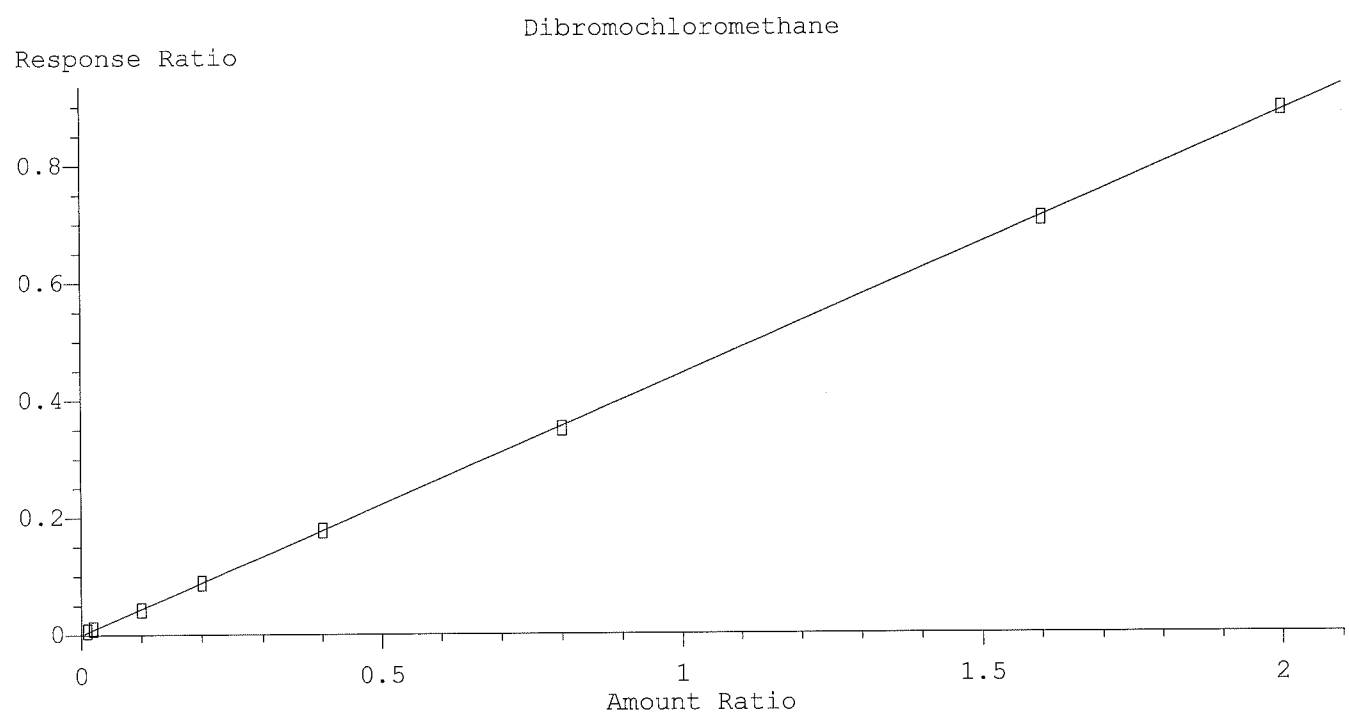


Resp Ratio = 7.47e-001 * Amt + 4.95e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Calibration Plot Report

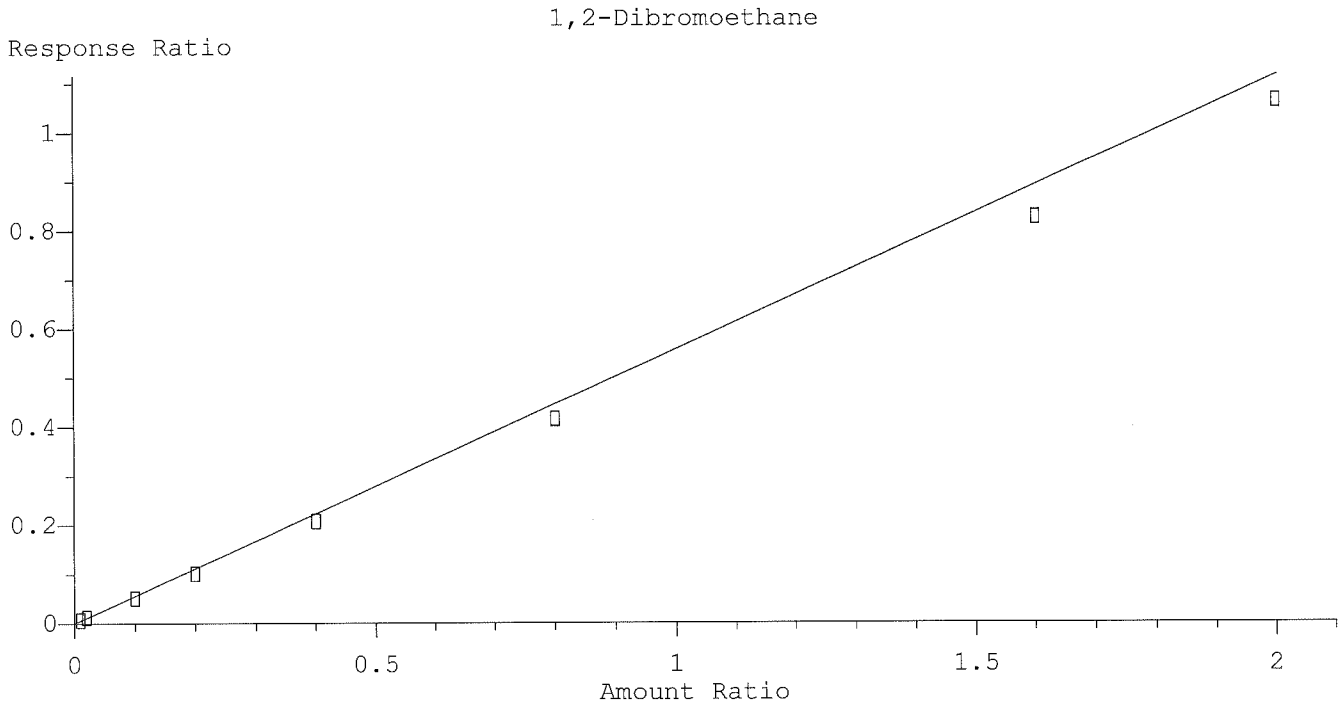


Resp Ratio = 4.56e-001 * Amt + 5.42e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

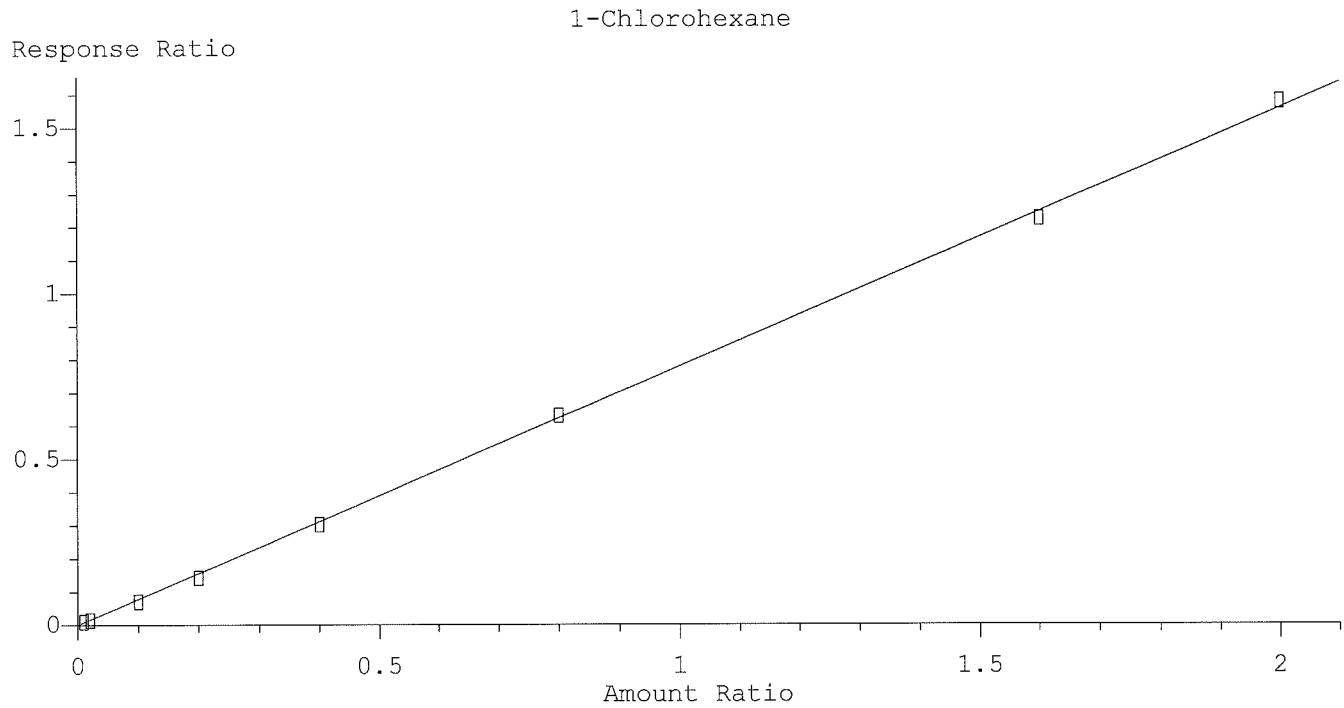


Resp Ratio = 4.43e-001 * Amt - 2.67e-004
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Calibration Plot Report

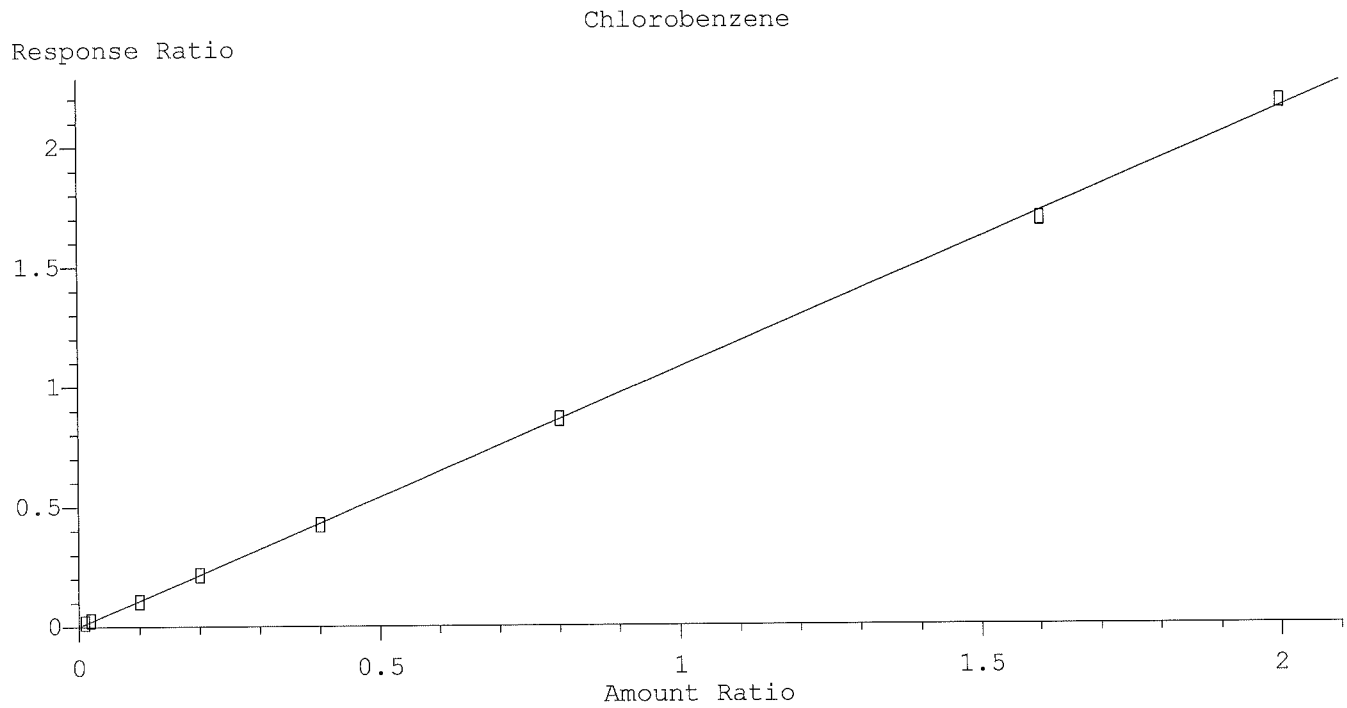


Resp Ratio = 5.57e-001 * Amt
RF Rel Std Dev = 13.5% Curve Fit: Avg RF

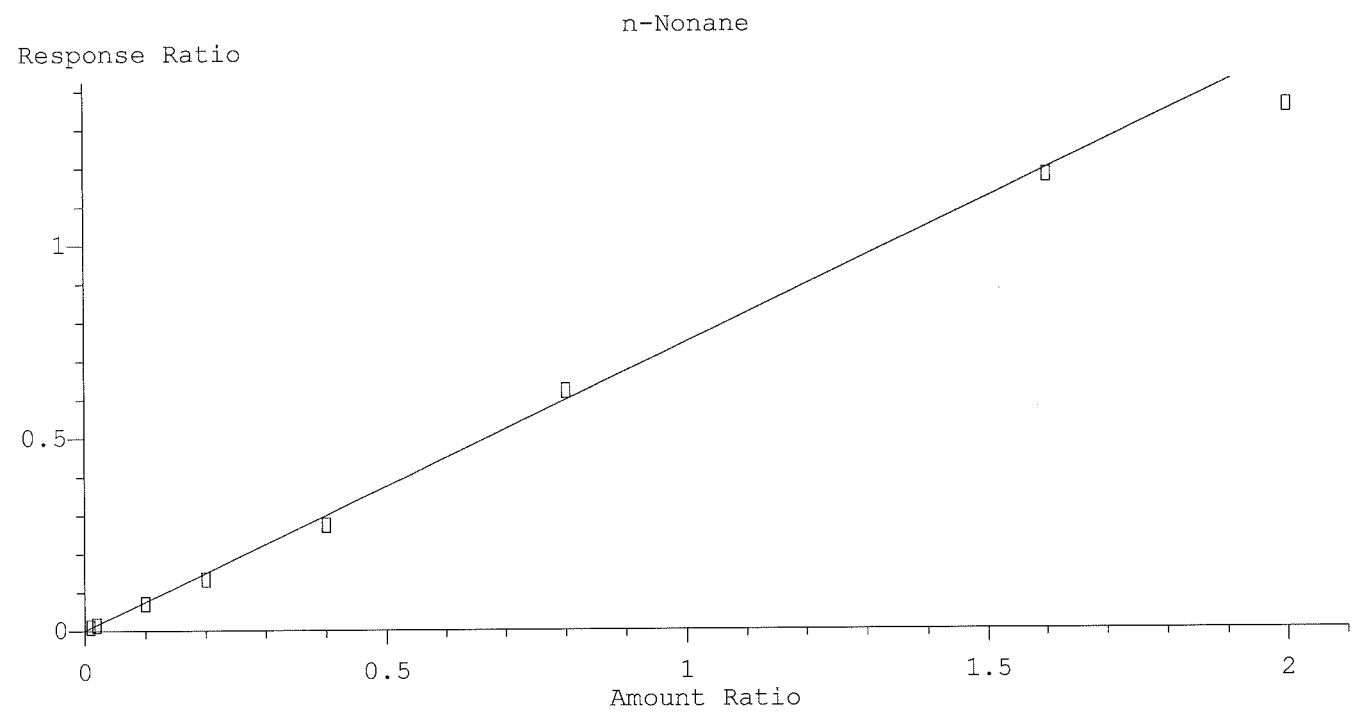


Resp Ratio = 7.77e-001 * Amt
RF Rel Std Dev = 11.2% Curve Fit: Avg RF

Calibration Plot Report

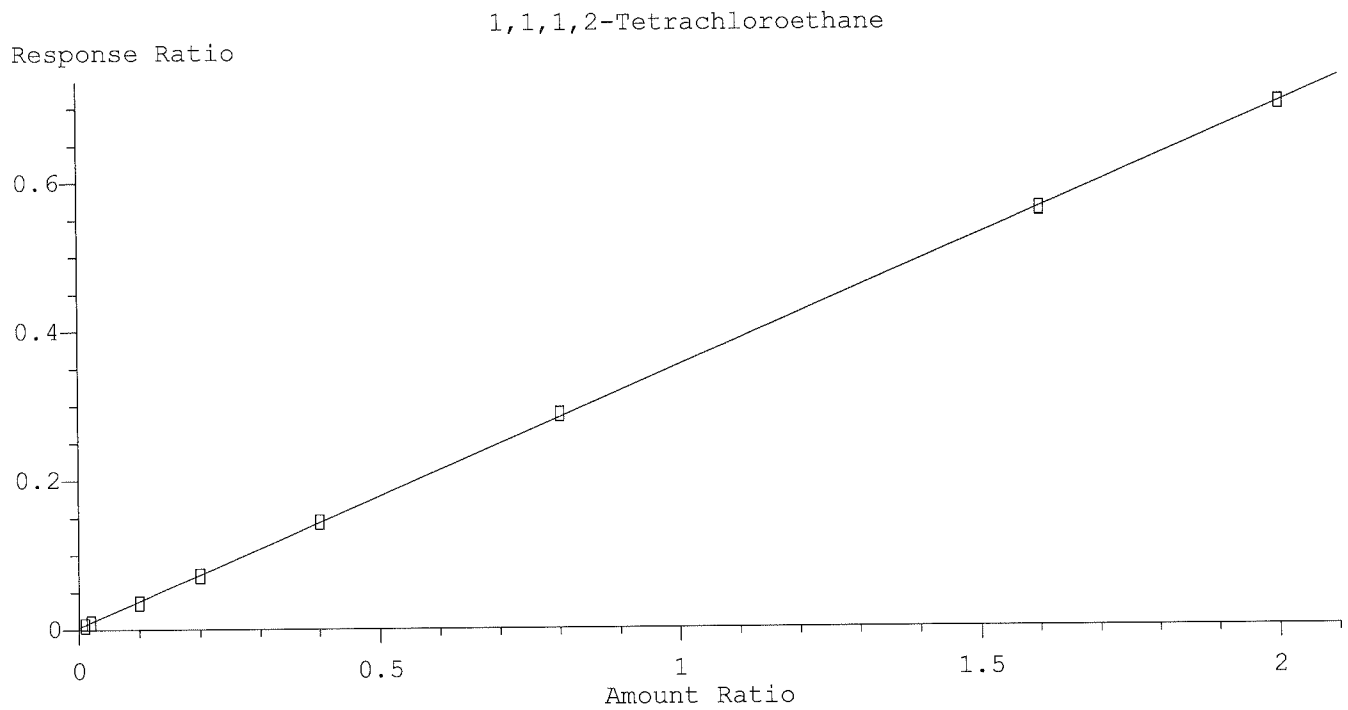


Resp Ratio = 1.08e+000 * Amt + 1.58e-004
Coef of Det (r^2) = 1.000 Curve Fit: Linear

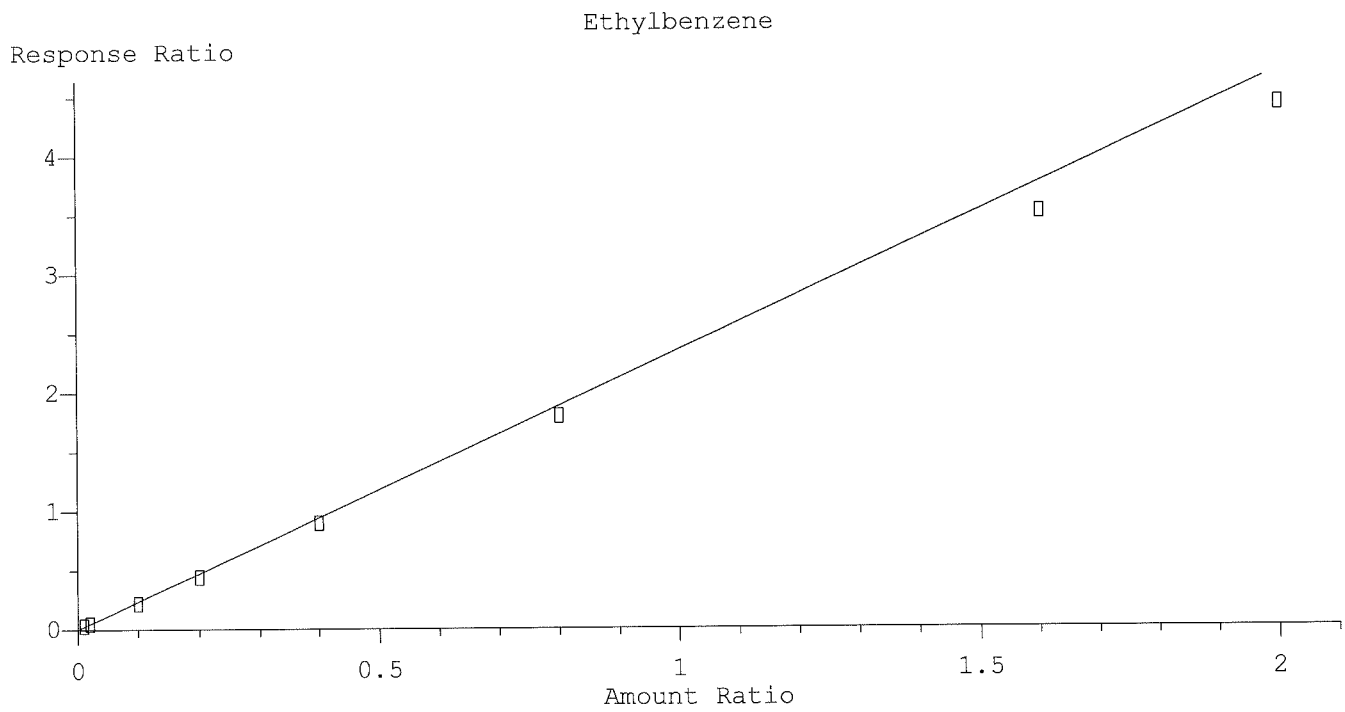


Resp Ratio = 7.46e-001 * Amt
RF Rel Std Dev = 12.8% Curve Fit: Avg RF

Calibration Plot Report

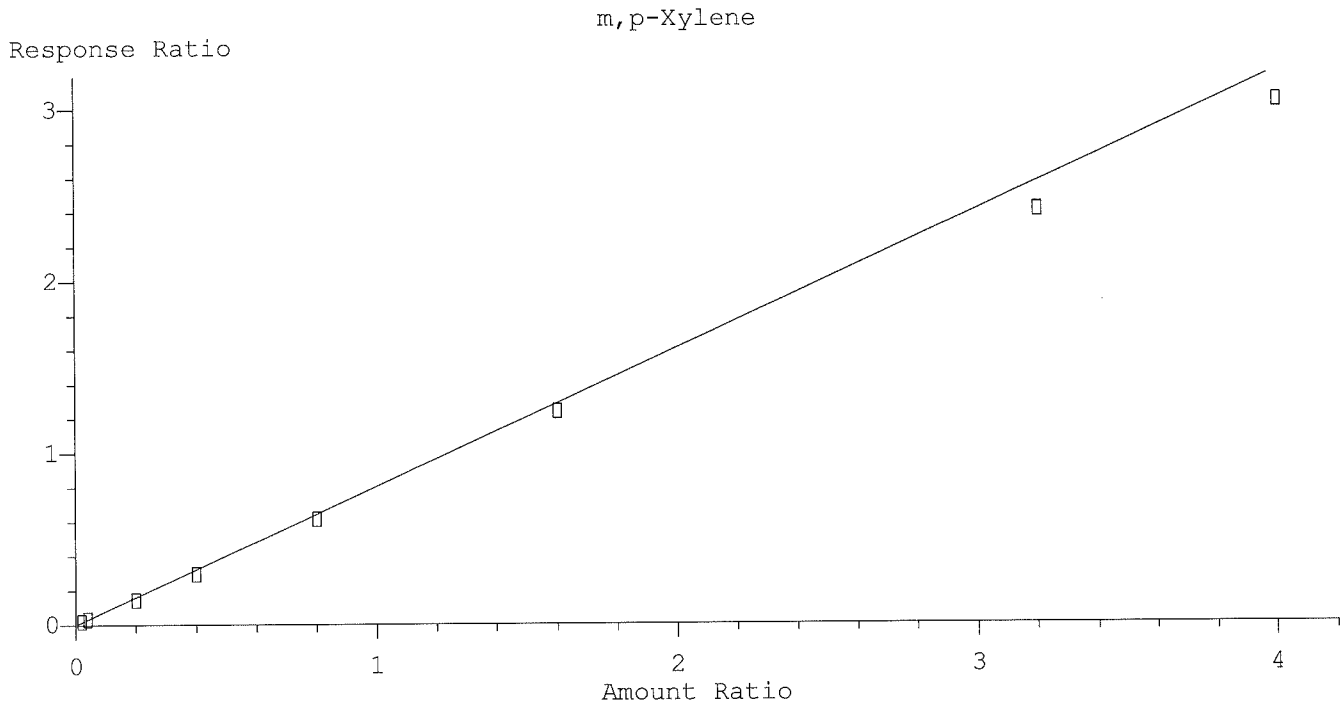


Resp Ratio = 3.50e-001 * Amt + 2.66e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

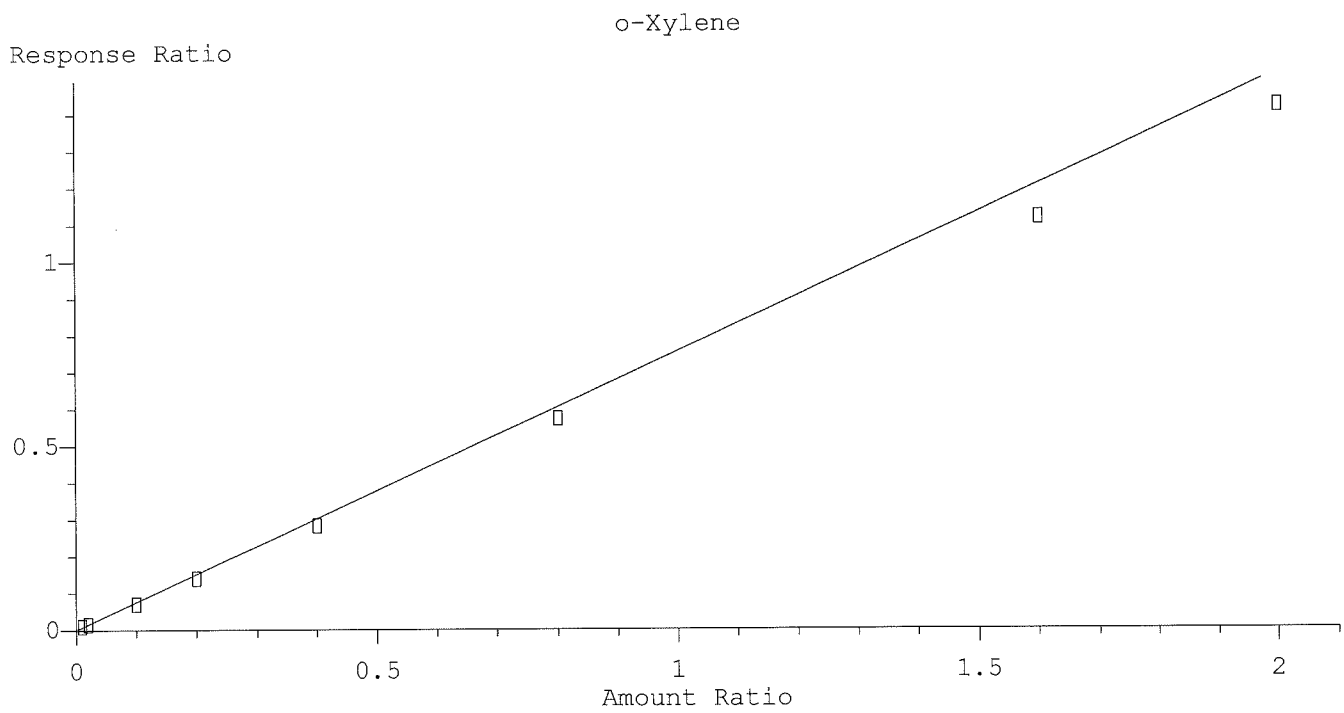


Resp Ratio = 2.35e+000 * Amt
RF Rel Std Dev = 13.6% Curve Fit: Avg RF

Calibration Plot Report

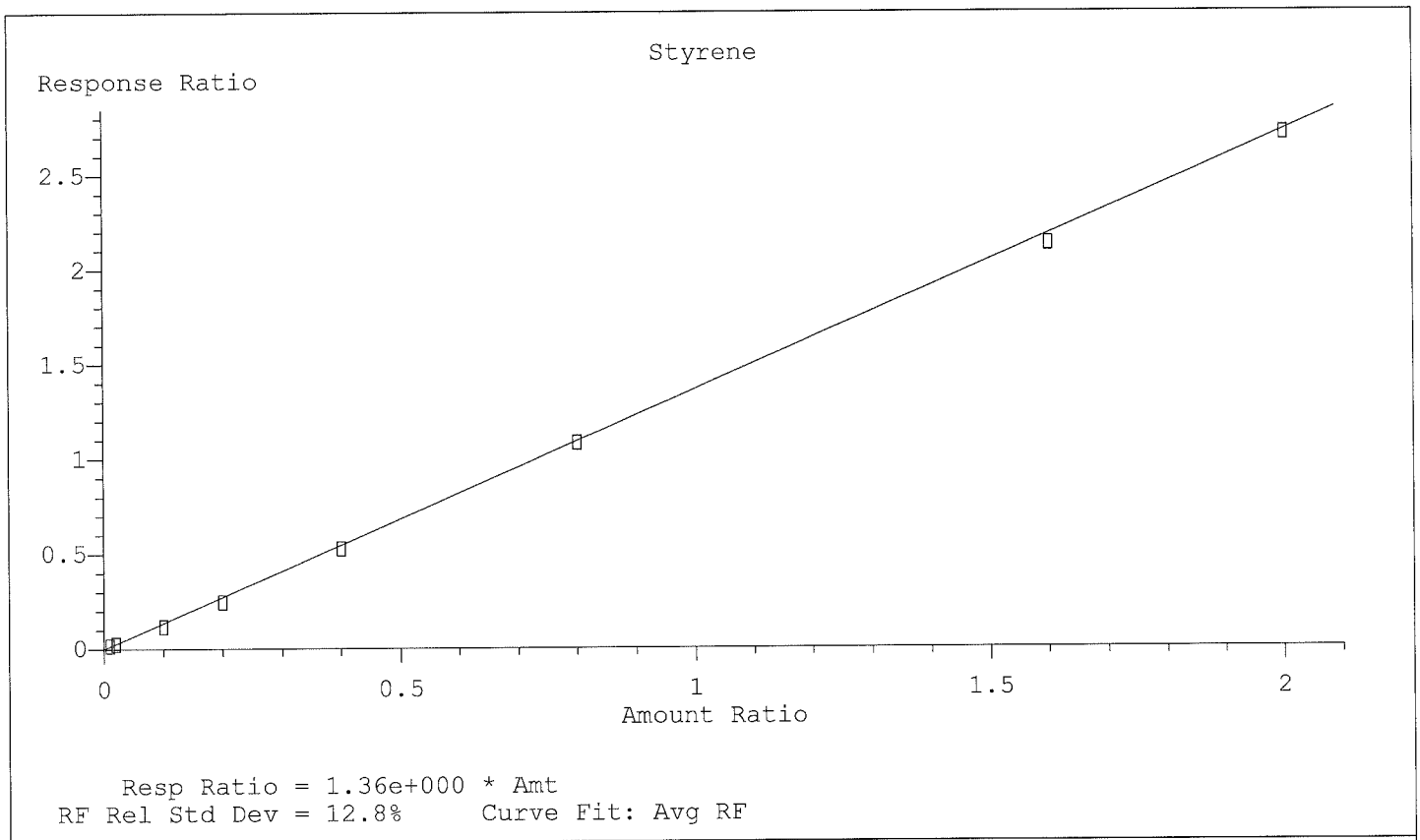


Resp Ratio = 8.04e-001 * Amt
RF Rel Std Dev = 13.4% Curve Fit: Avg RF

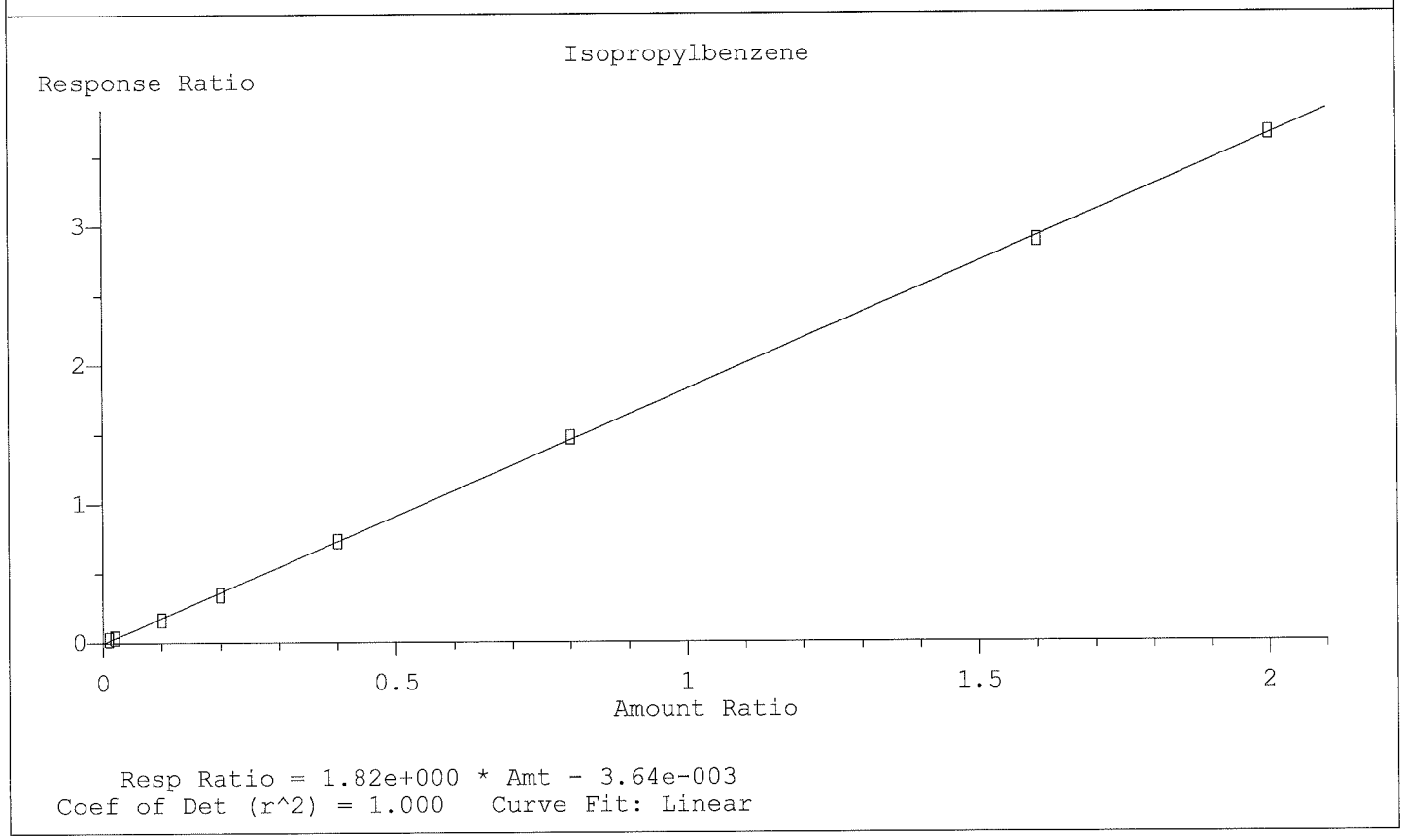


Resp Ratio = 7.54e-001 * Amt
RF Rel Std Dev = 14.3% Curve Fit: Avg RF

Calibration Plot Report

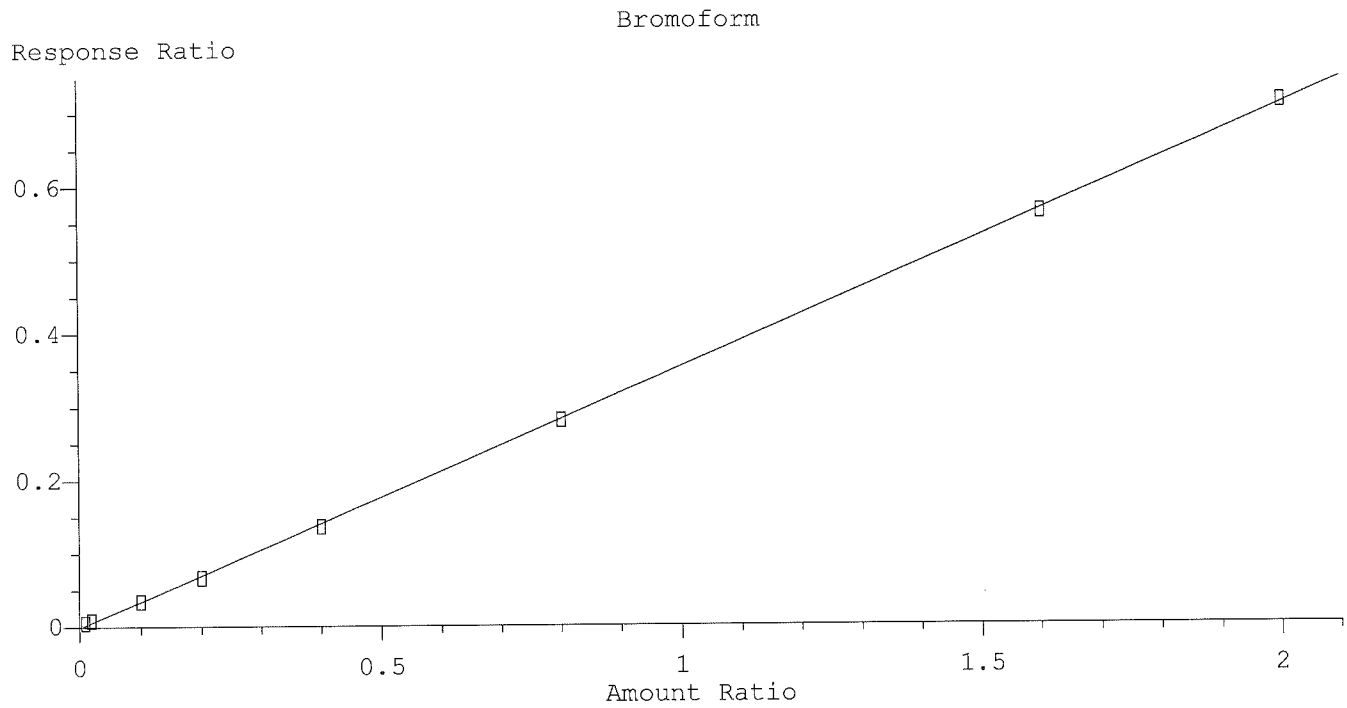


Resp Ratio = 1.36e+000 * Amt
RF Rel Std Dev = 12.8% Curve Fit: Avg RF

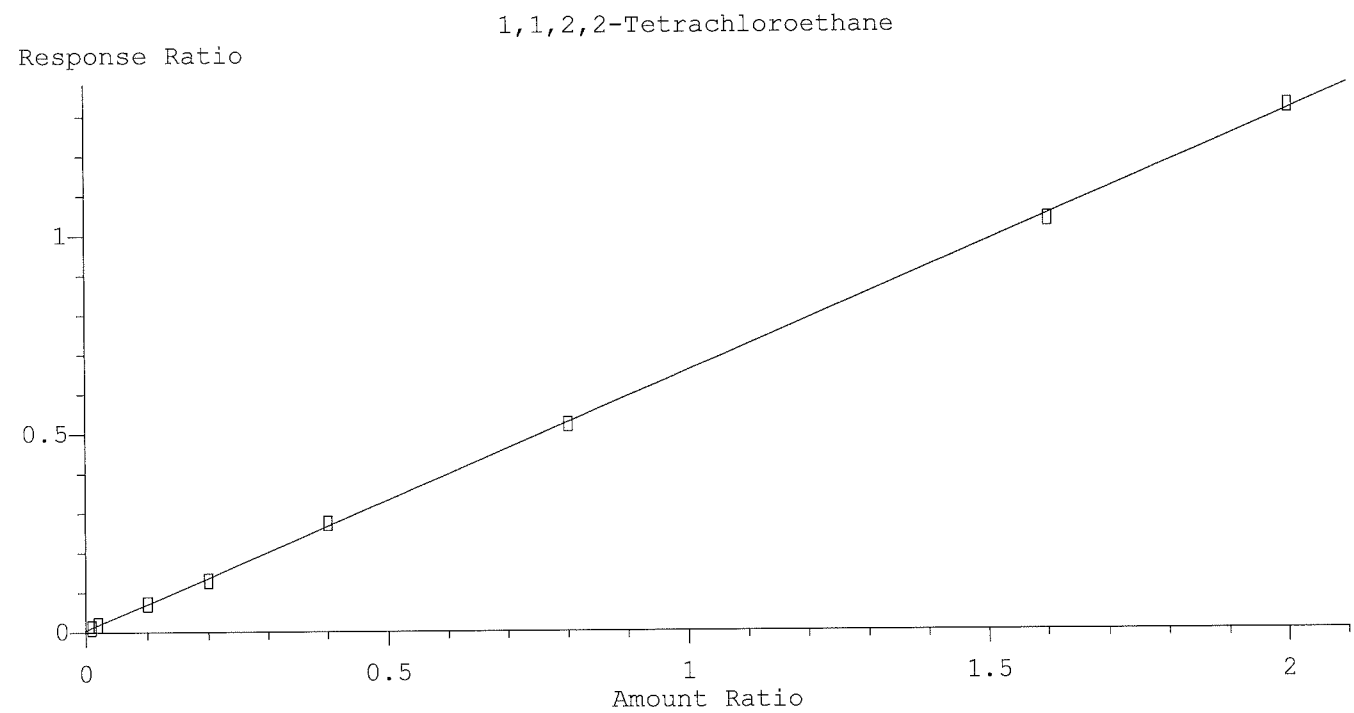


Resp Ratio = 1.82e+000 * Amt - 3.64e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Calibration Plot Report

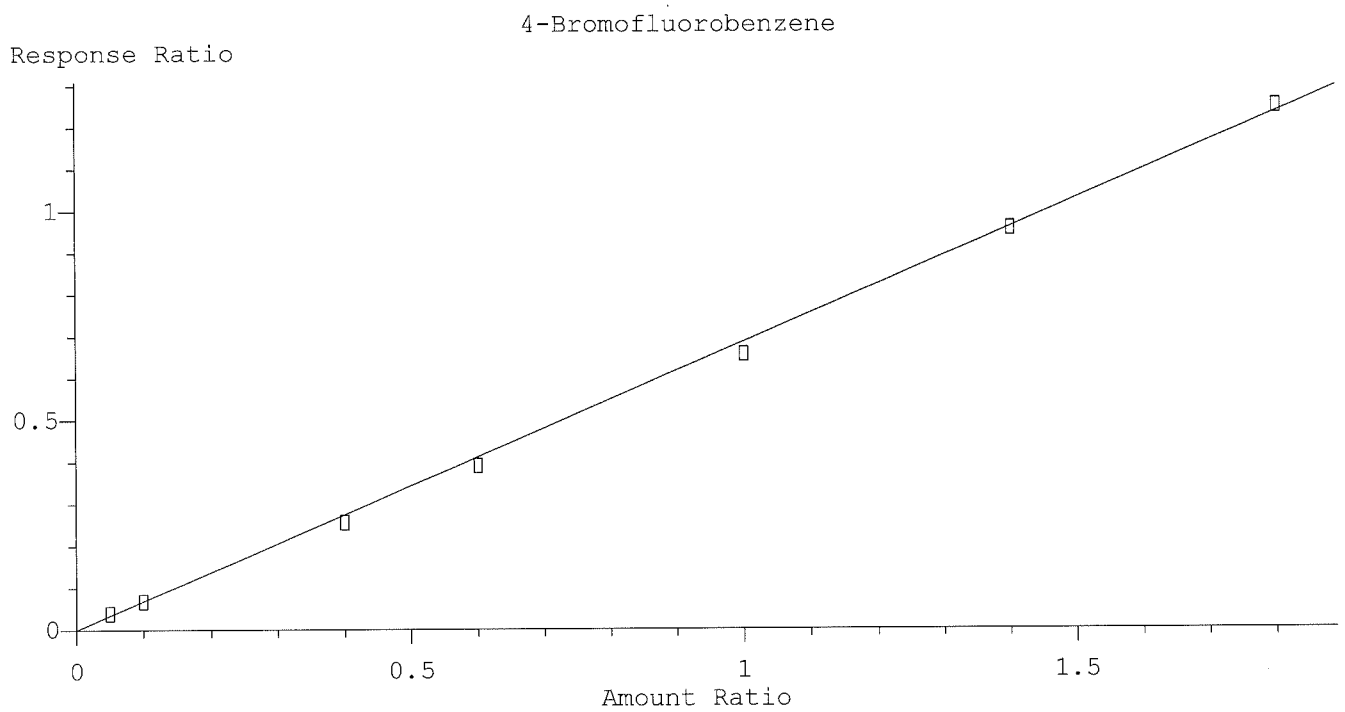


Resp Ratio = 3.55e-001 * Amt - 1.56e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

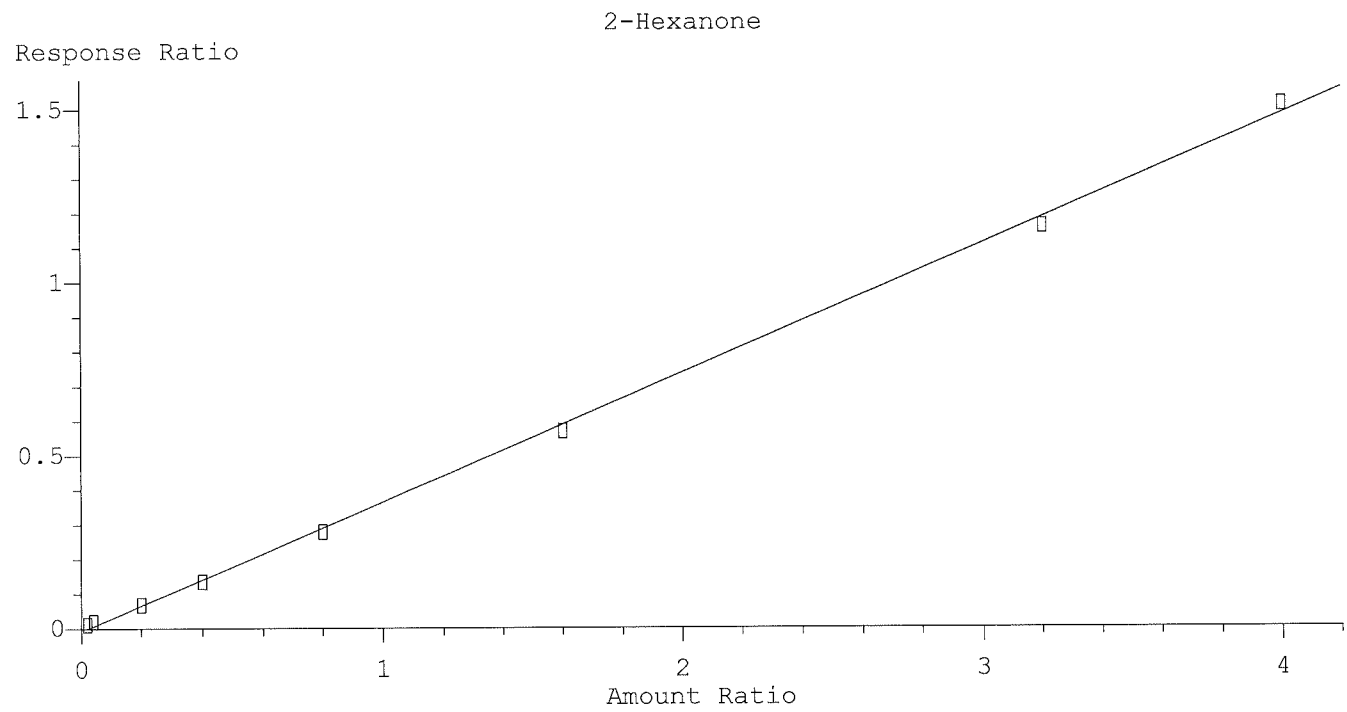


Resp Ratio = 6.51e-001 * Amt + 4.59e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Calibration Plot Report

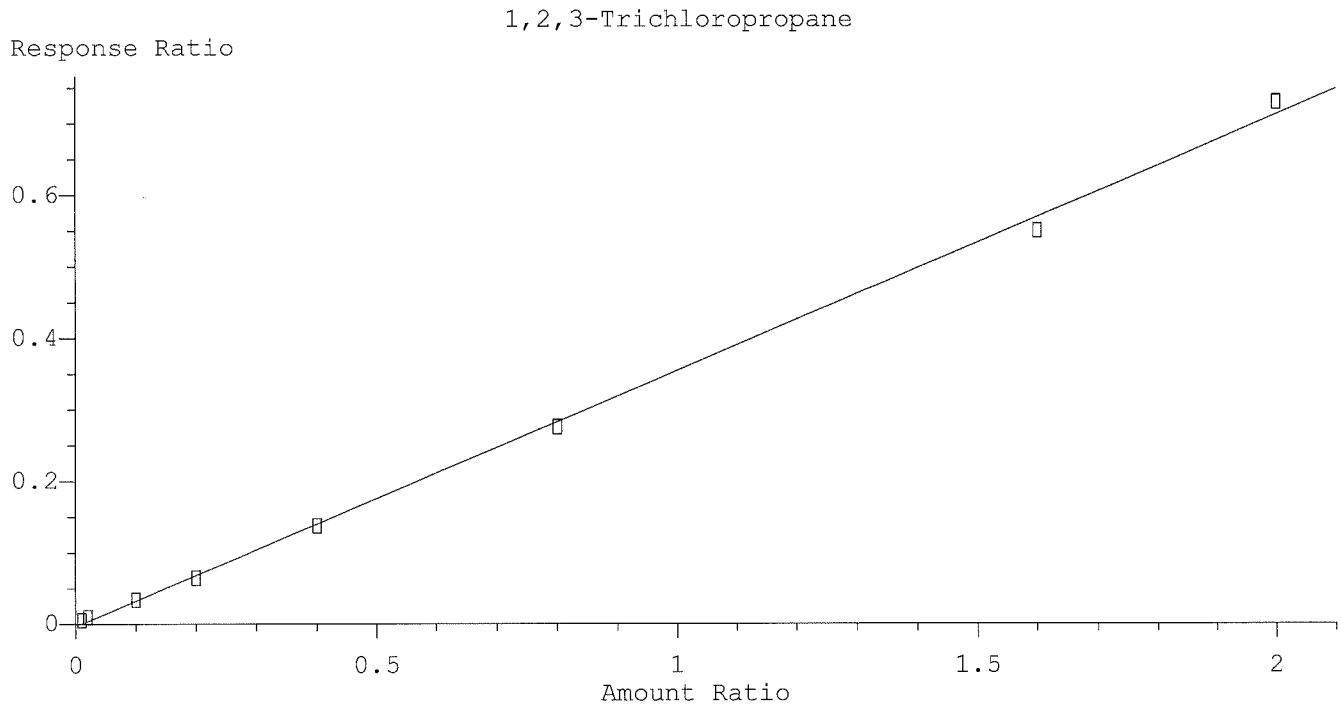


Resp Ratio = 6.85e-001 * Amt
RF Rel Std Dev = 7.1% Curve Fit: Avg RF

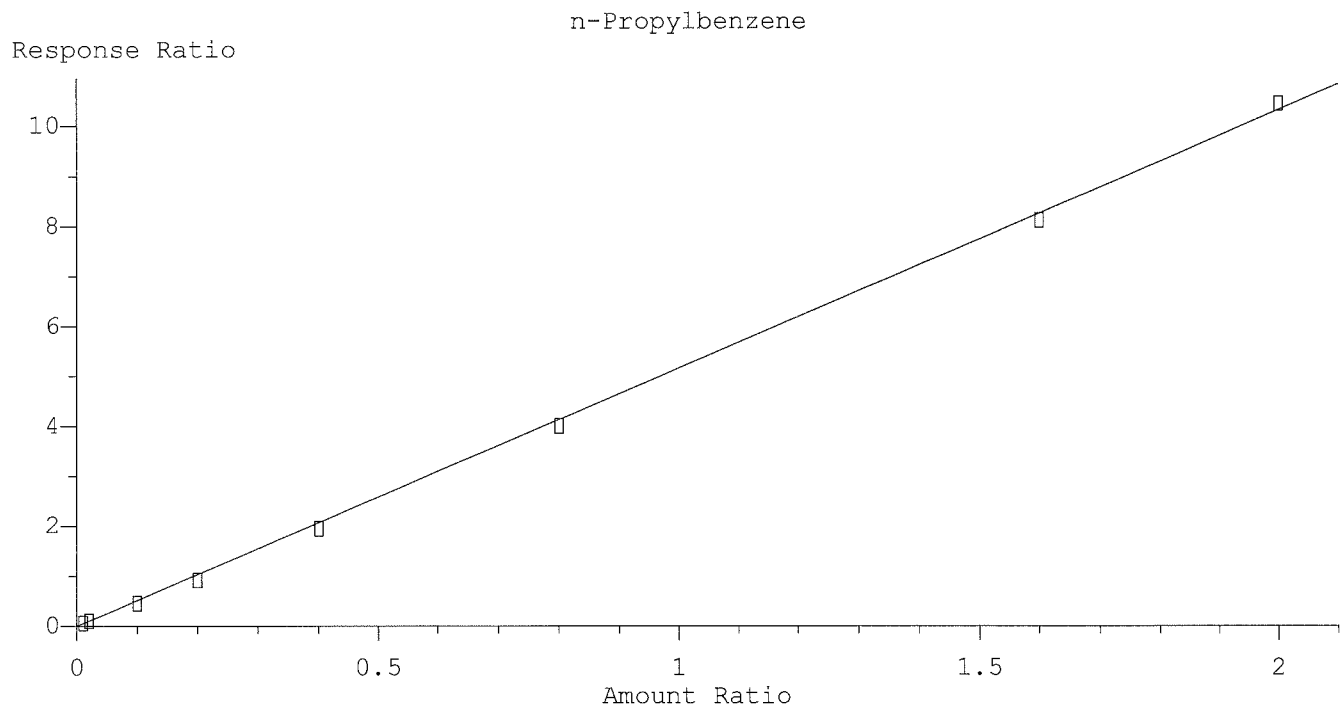


Resp Ratio = 3.72e-001 * Amt - 8.49e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Calibration Plot Report

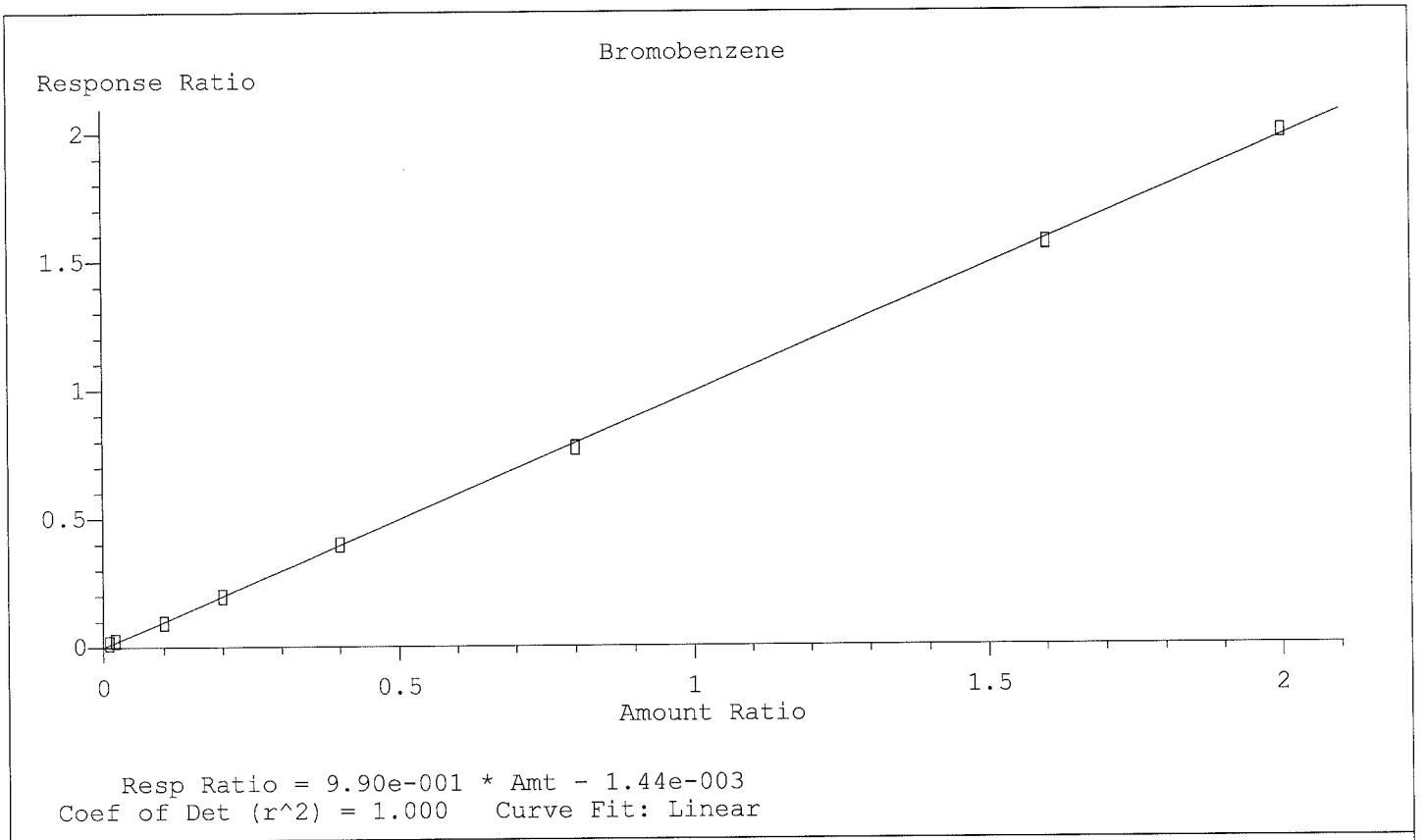


Resp Ratio = 3.58e-001 * Amt - 3.42e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

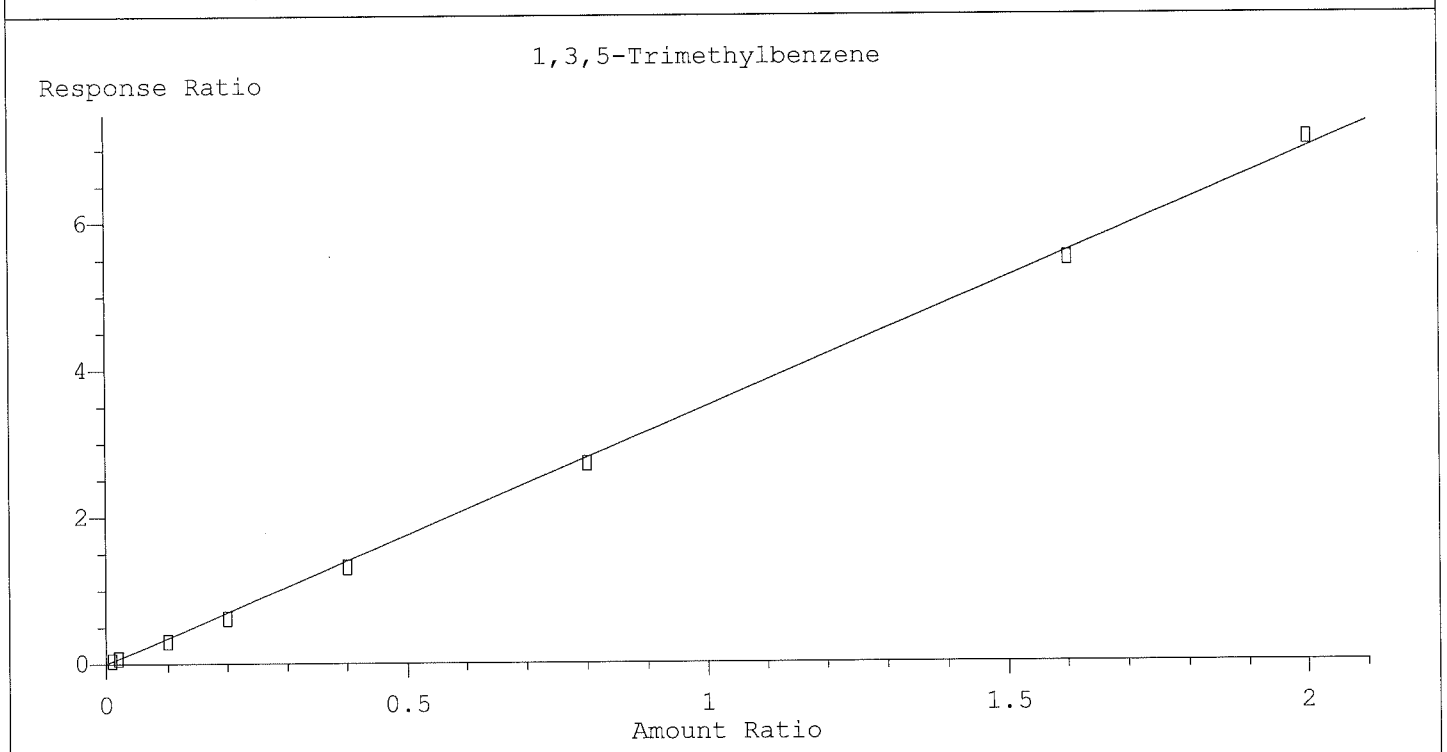


Resp Ratio = 5.15e+000 * Amt
RF Rel Std Dev = 12.2% Curve Fit: Avg RF

Calibration Plot Report

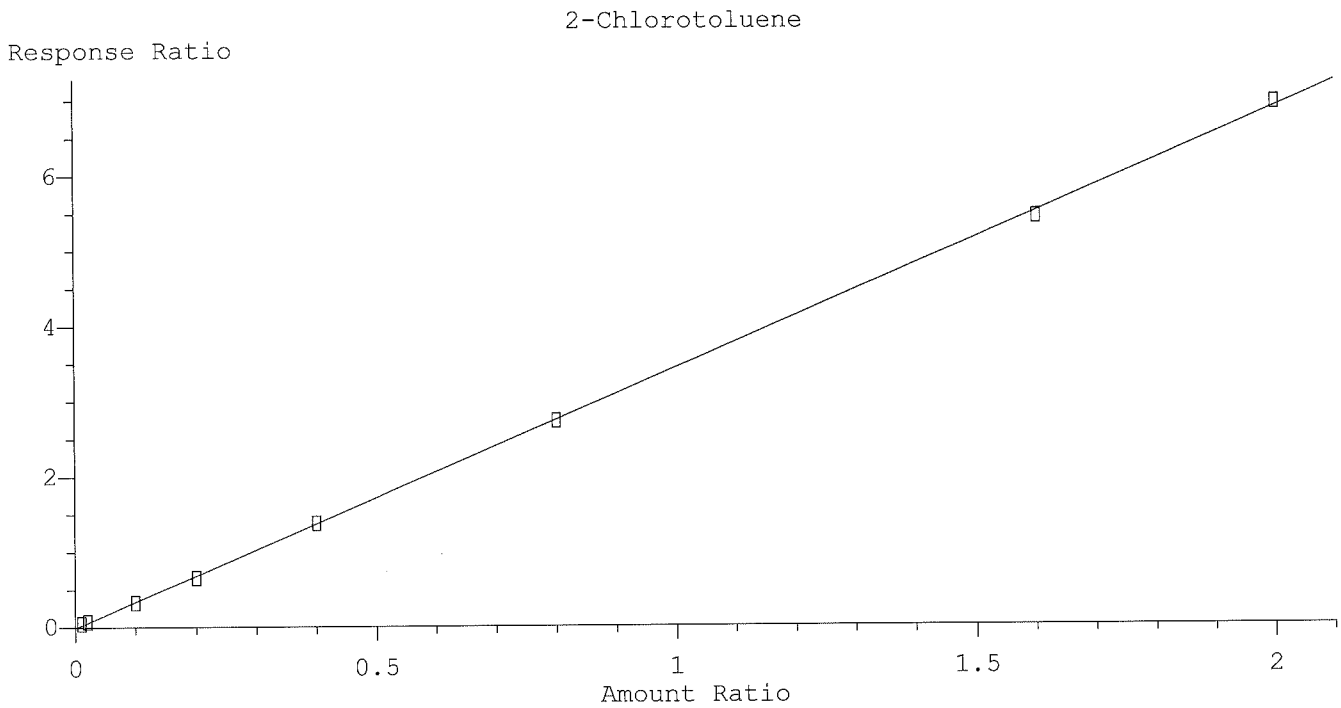


Resp Ratio = 9.90e-001 * Amt - 1.44e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

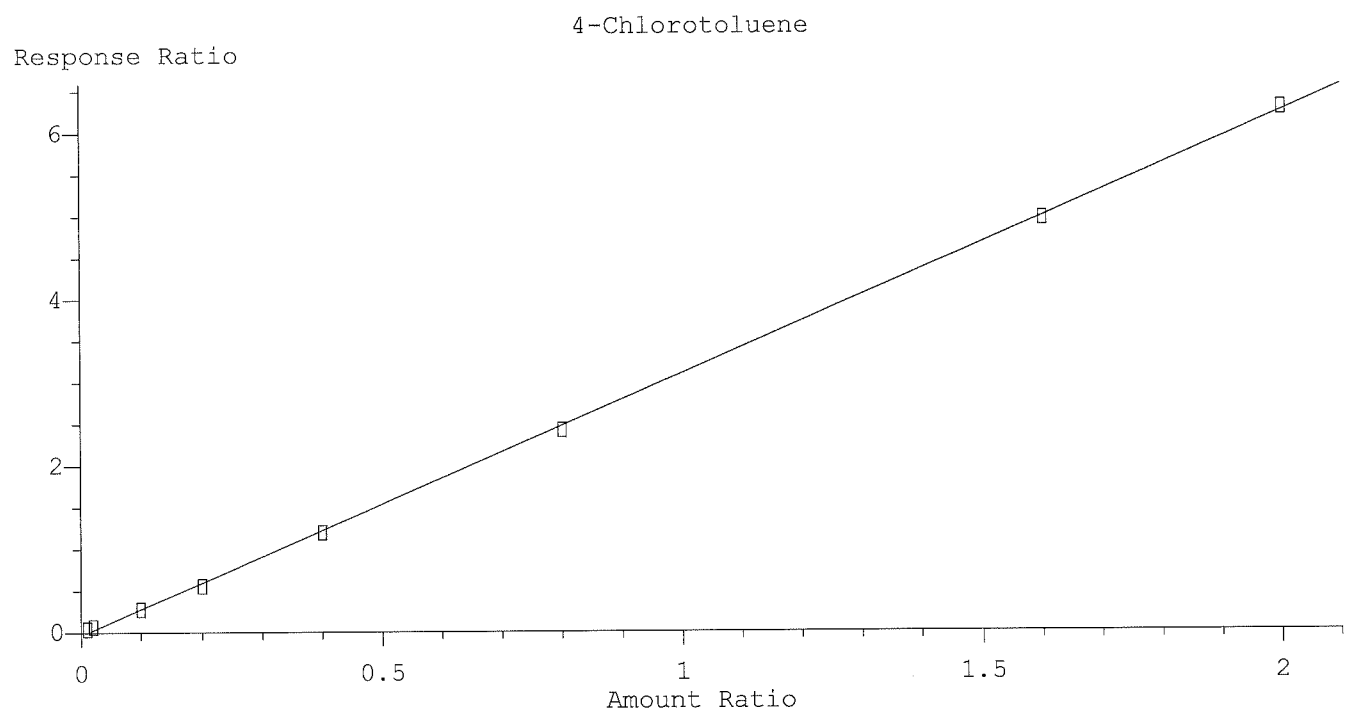


Resp Ratio = 3.49e+000 * Amt
RF Rel Std Dev = 12.8% Curve Fit: Avg RF

Calibration Plot Report

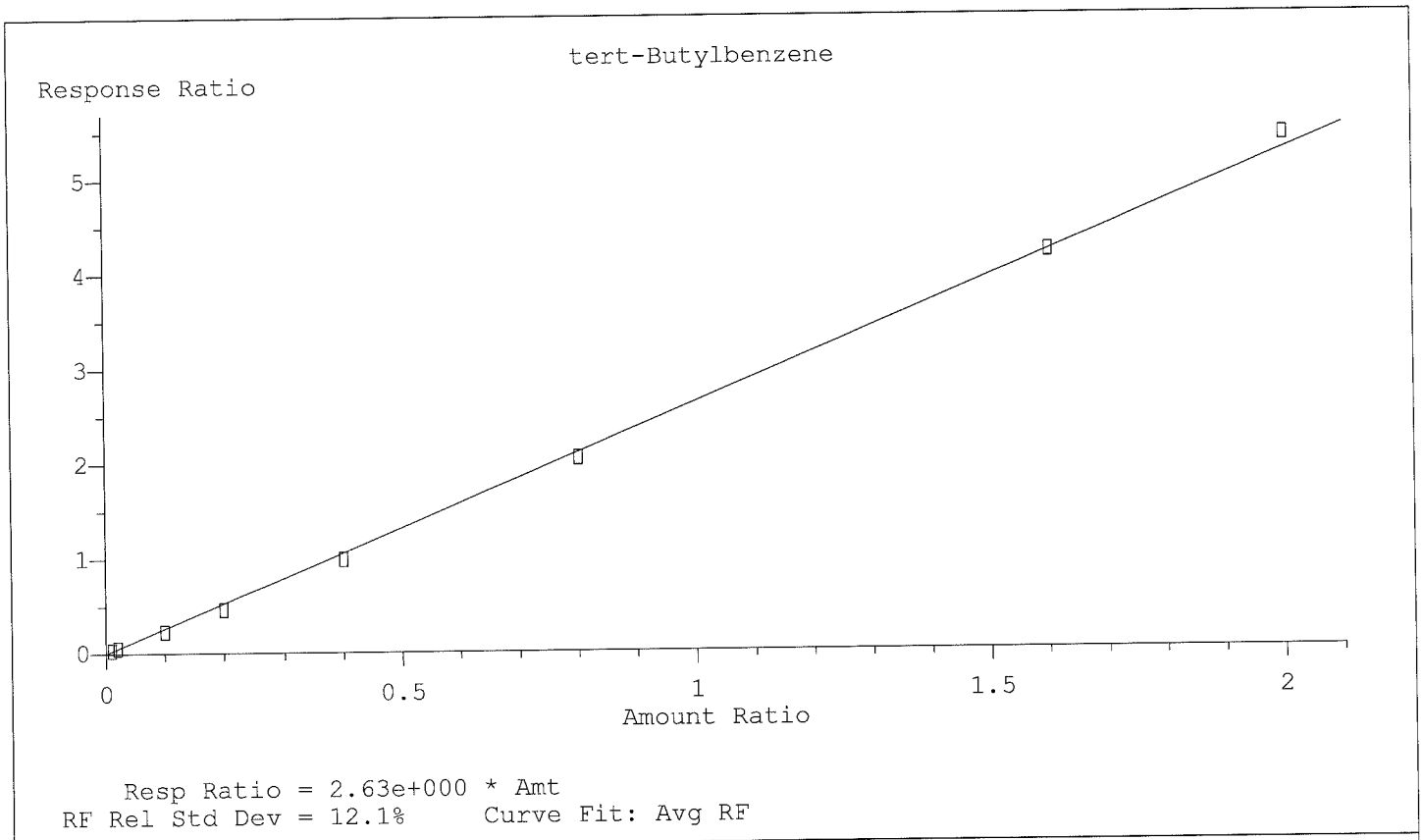


Resp Ratio = 3.44e+000 * Amt - 8.79e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

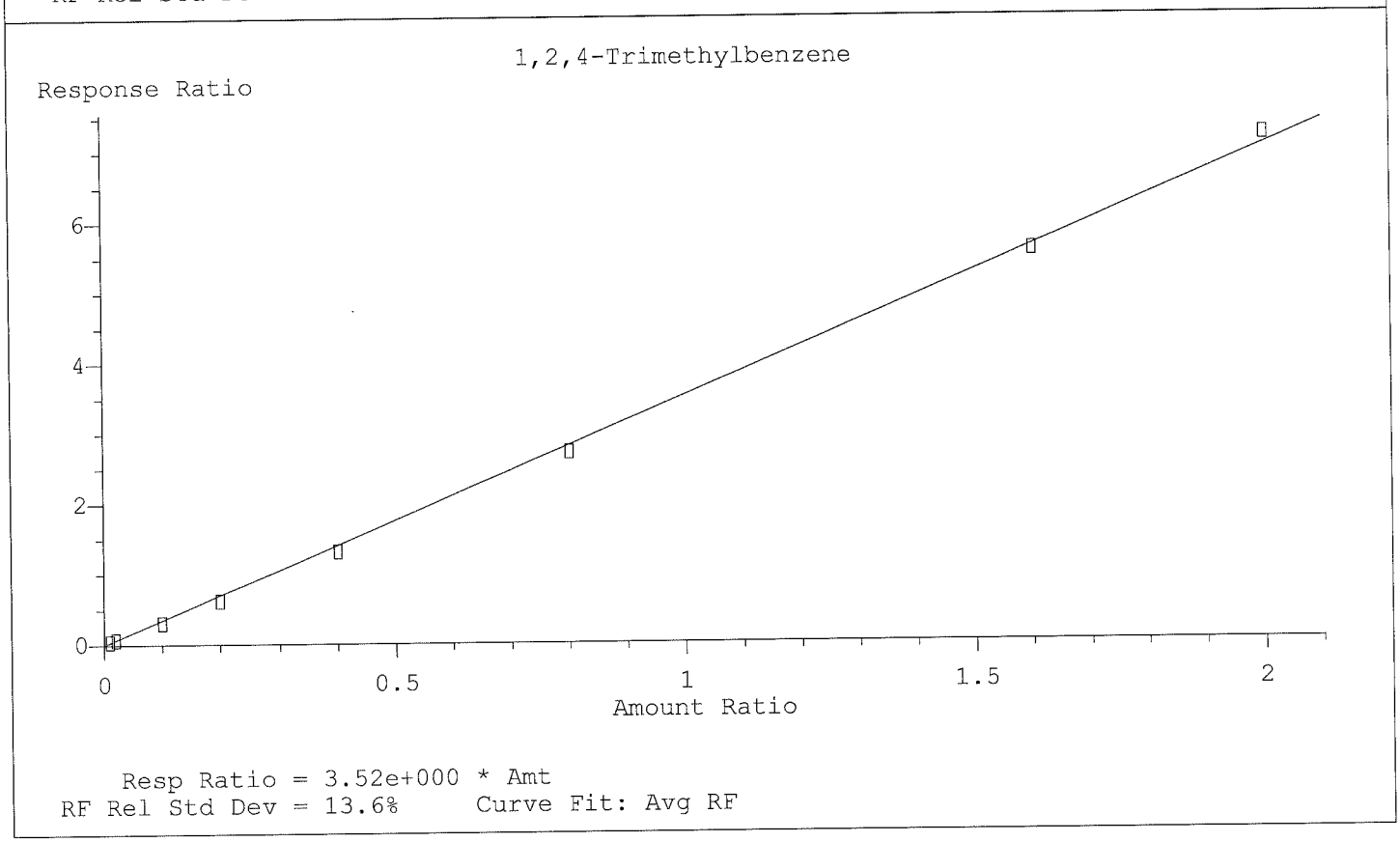


Resp Ratio = 3.13e+000 * Amt - 3.47e-002
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Calibration Plot Report

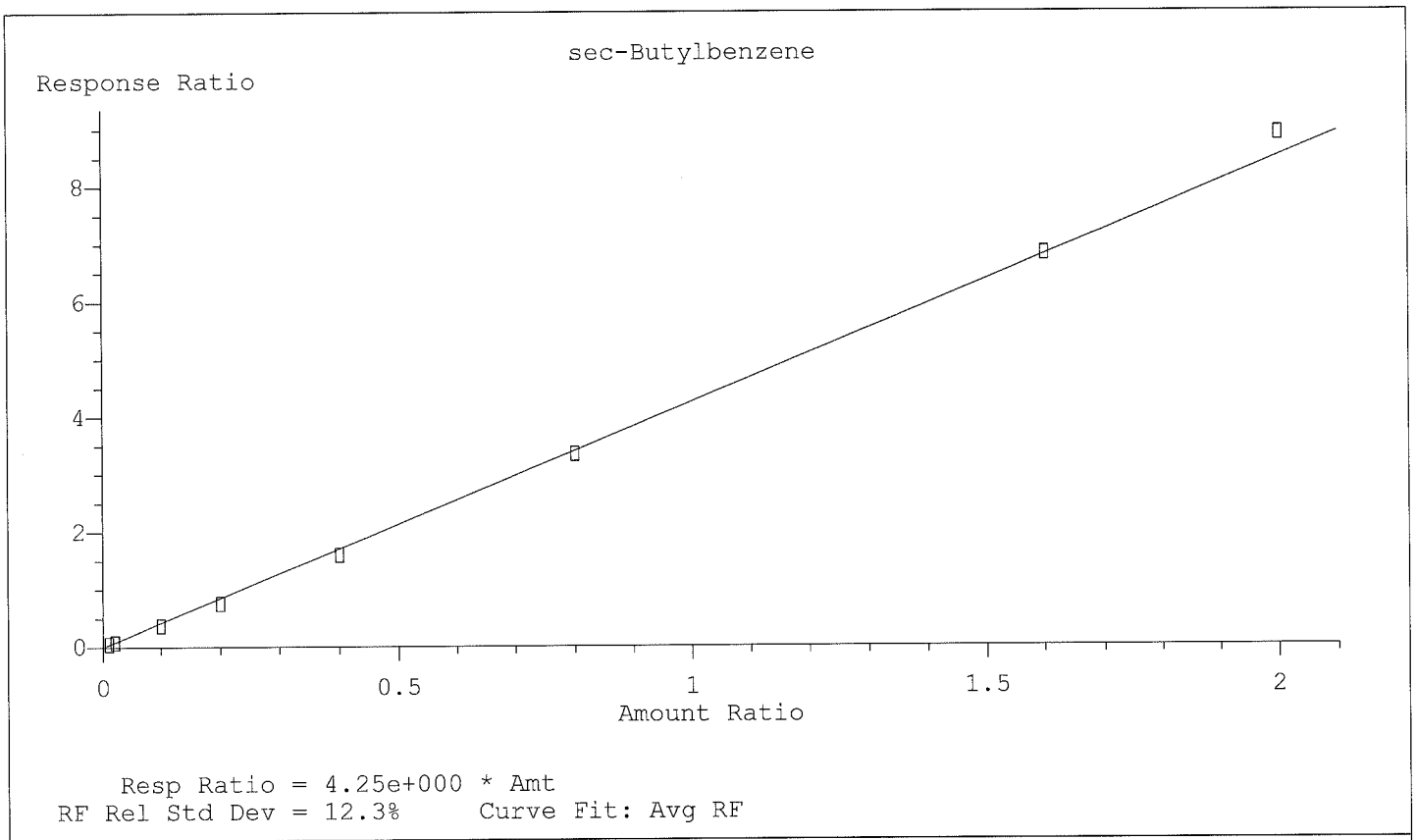


Resp Ratio = 2.63e+000 * Amt
RF Rel Std Dev = 12.1% Curve Fit: Avg RF

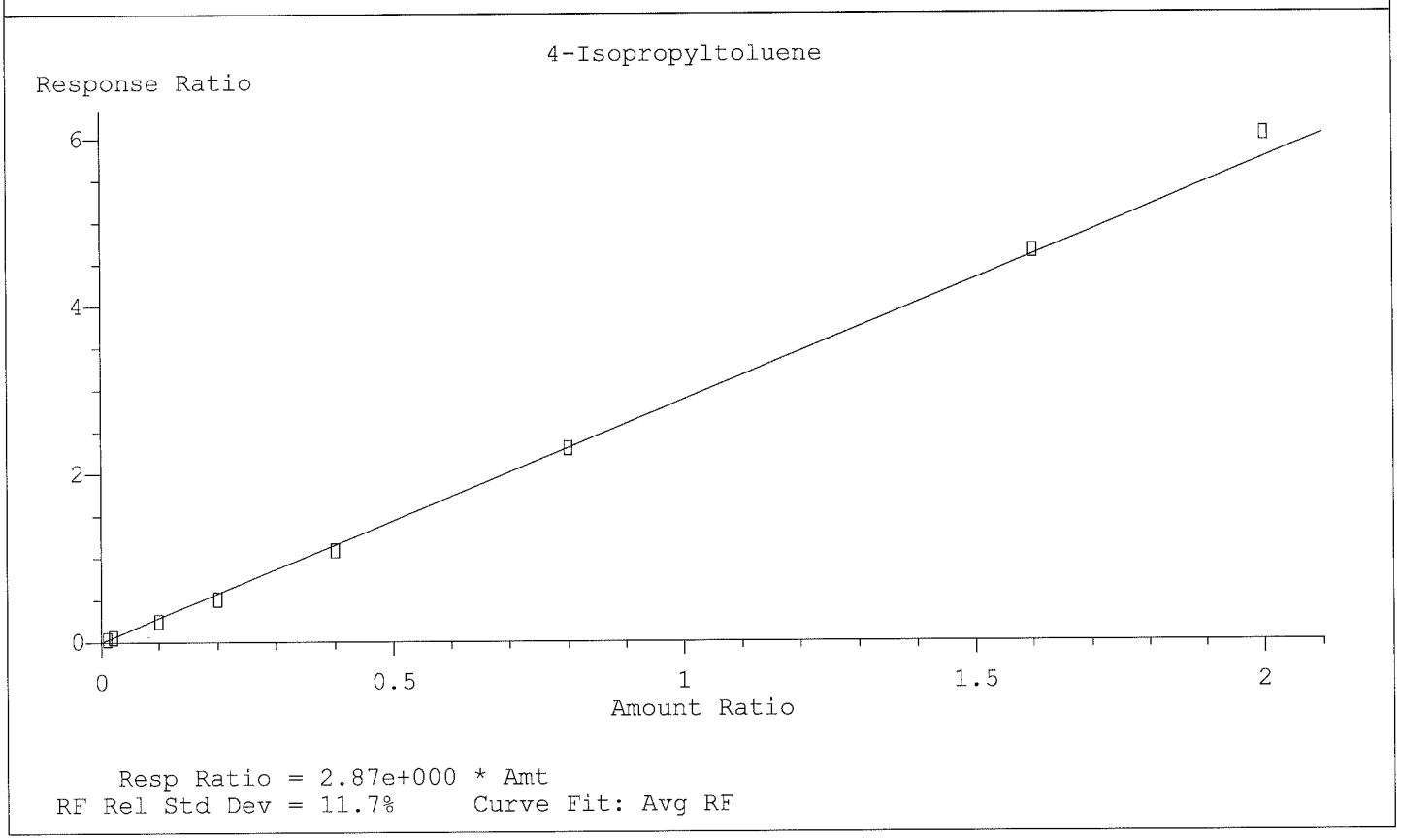


Resp Ratio = 3.52e+000 * Amt
RF Rel Std Dev = 13.6% Curve Fit: Avg RF

Calibration Plot Report



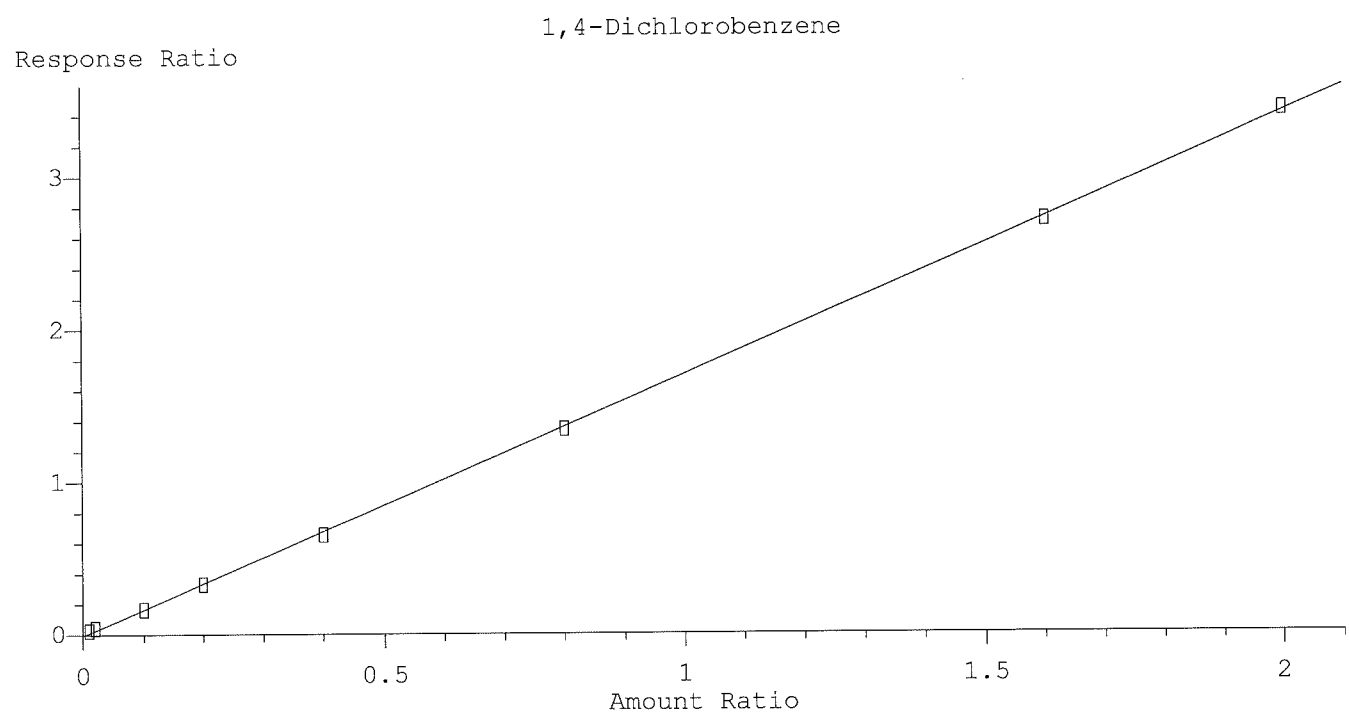
Resp Ratio = 4.25e+000 * Amt
RF Rel Std Dev = 12.3% Curve Fit: Avg RF



Resp Ratio = 2.87e+000 * Amt
RF Rel Std Dev = 11.7% Curve Fit: Avg RF

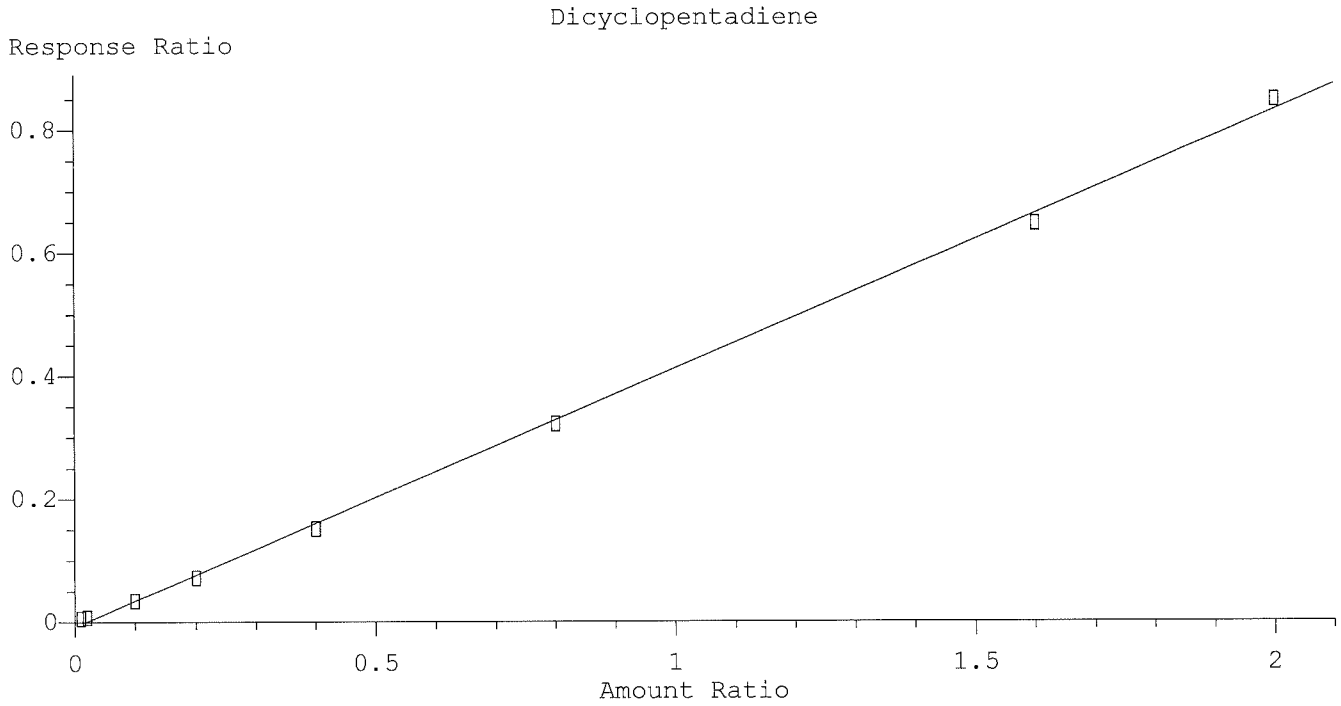
Calibration Plot Report

Resp Ratio = 1.57e+000 * Amt - 1.37e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

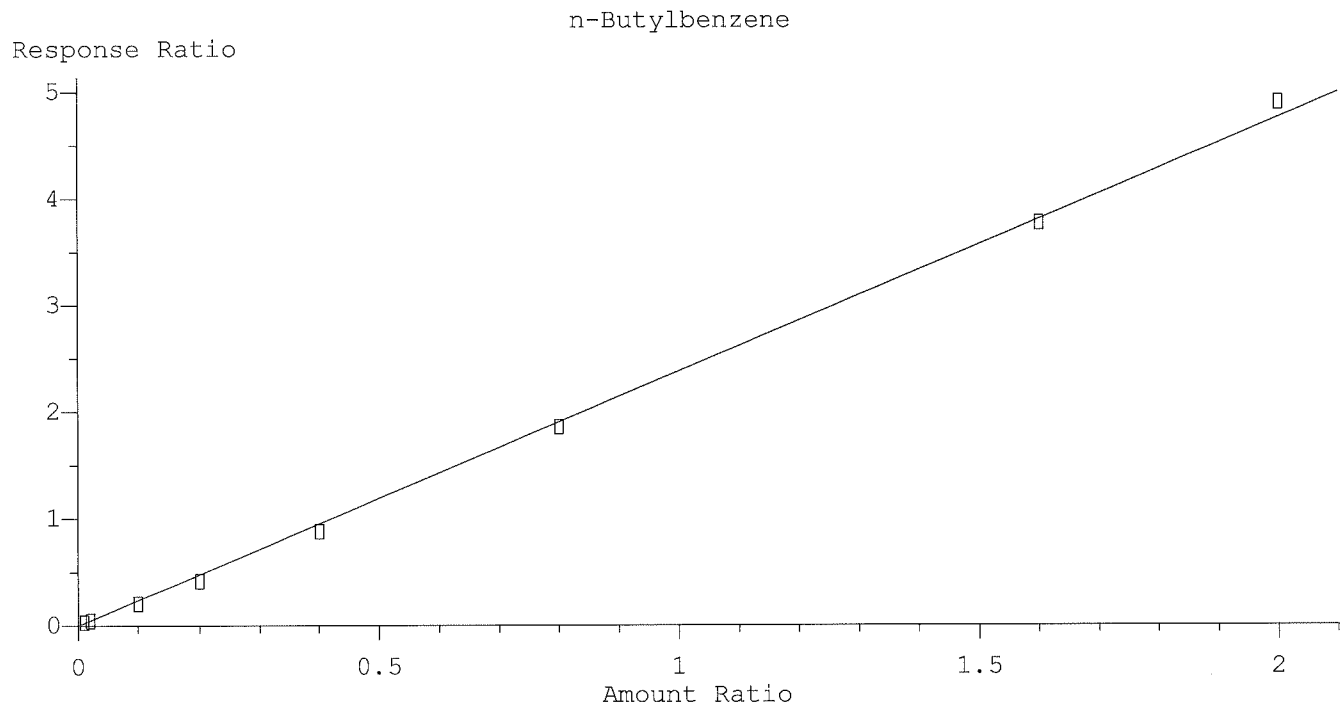


Resp Ratio = 1.70e+000 * Amt - 6.29e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Calibration Plot Report

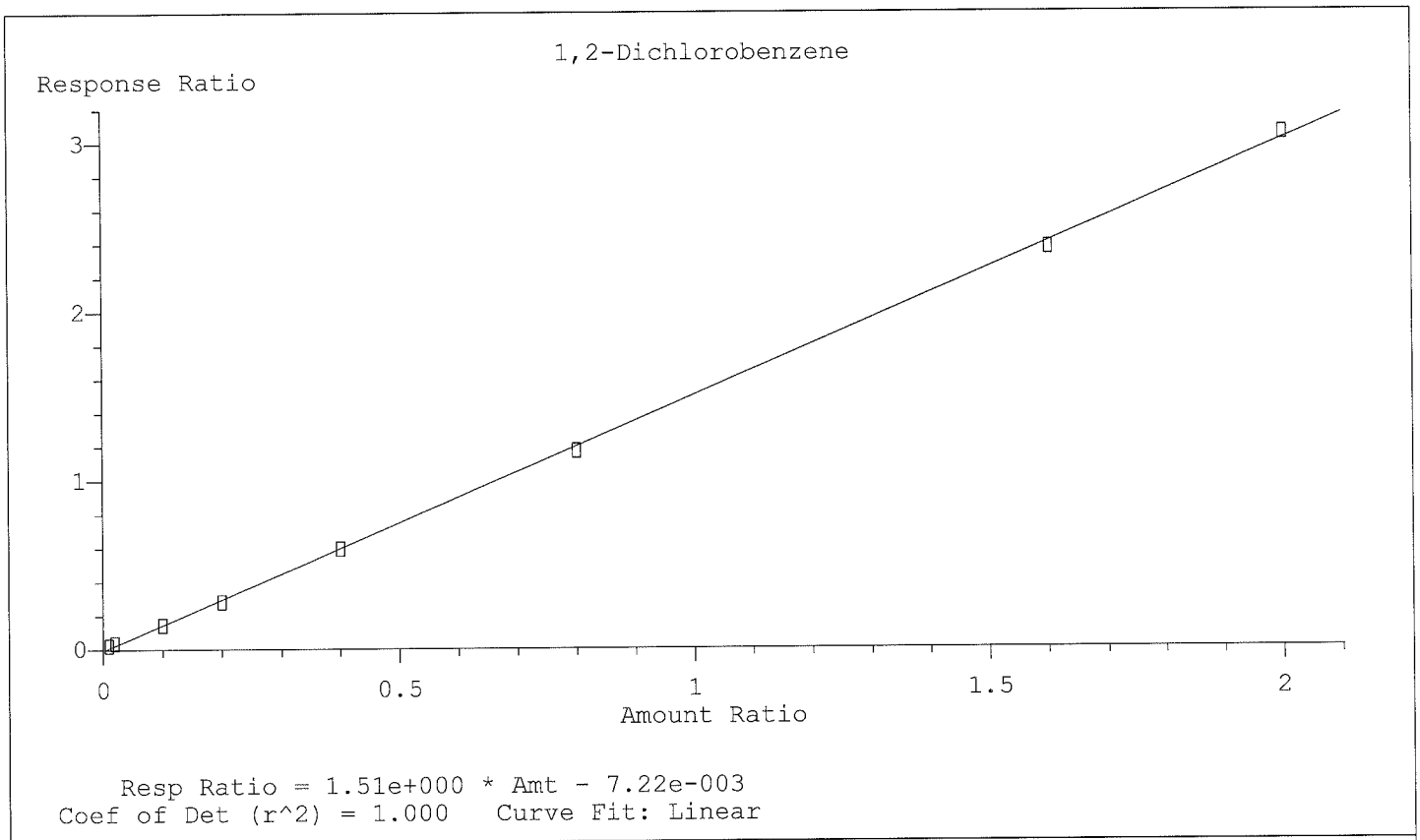


Resp Ratio = 4.19e-001 * Amt - 7.59e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

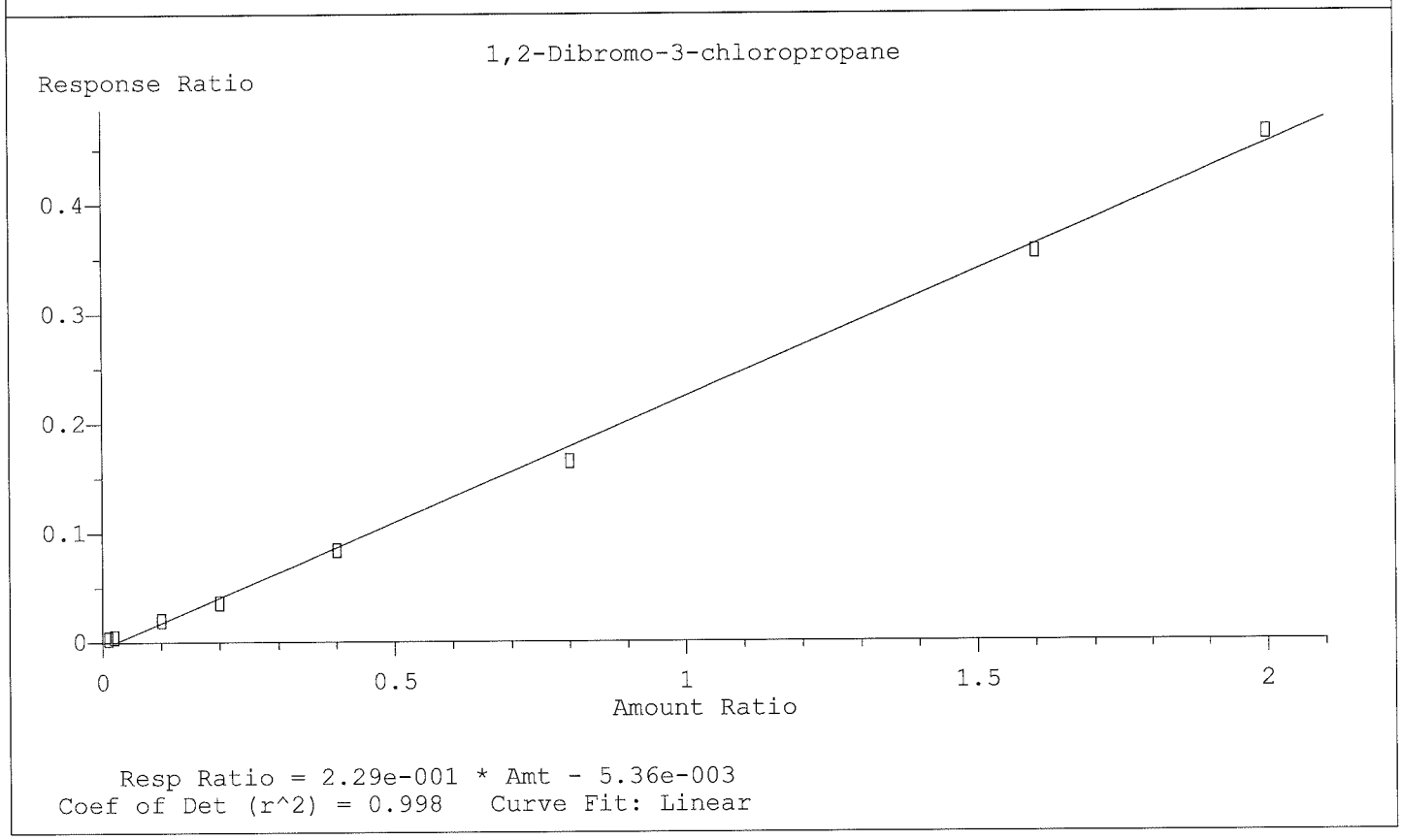


Resp Ratio = 2.37e+000 * Amt
RF Rel Std Dev = 14.7% Curve Fit: Avg RF

Calibration Plot Report

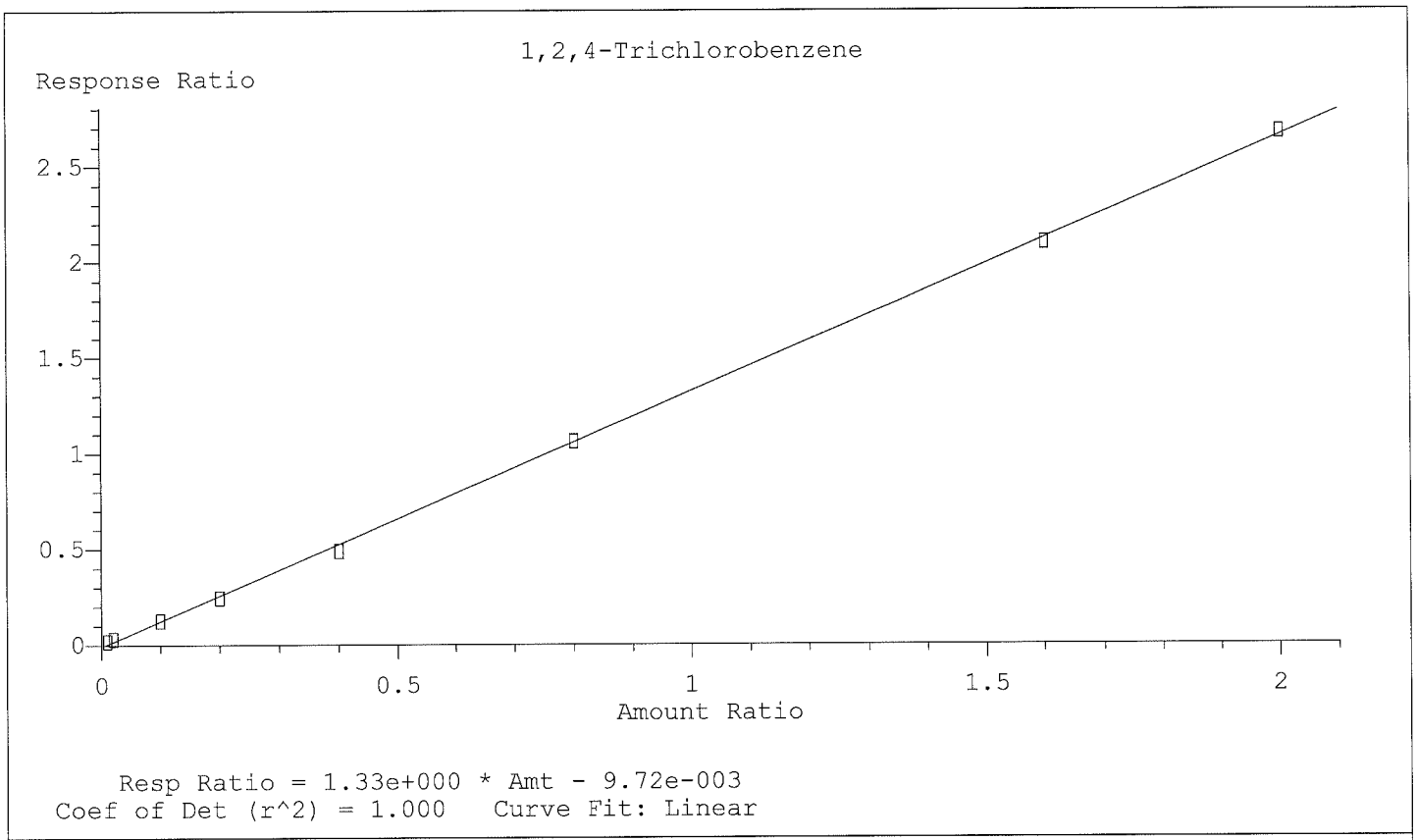


Resp Ratio = 1.51e+000 * Amt - 7.22e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

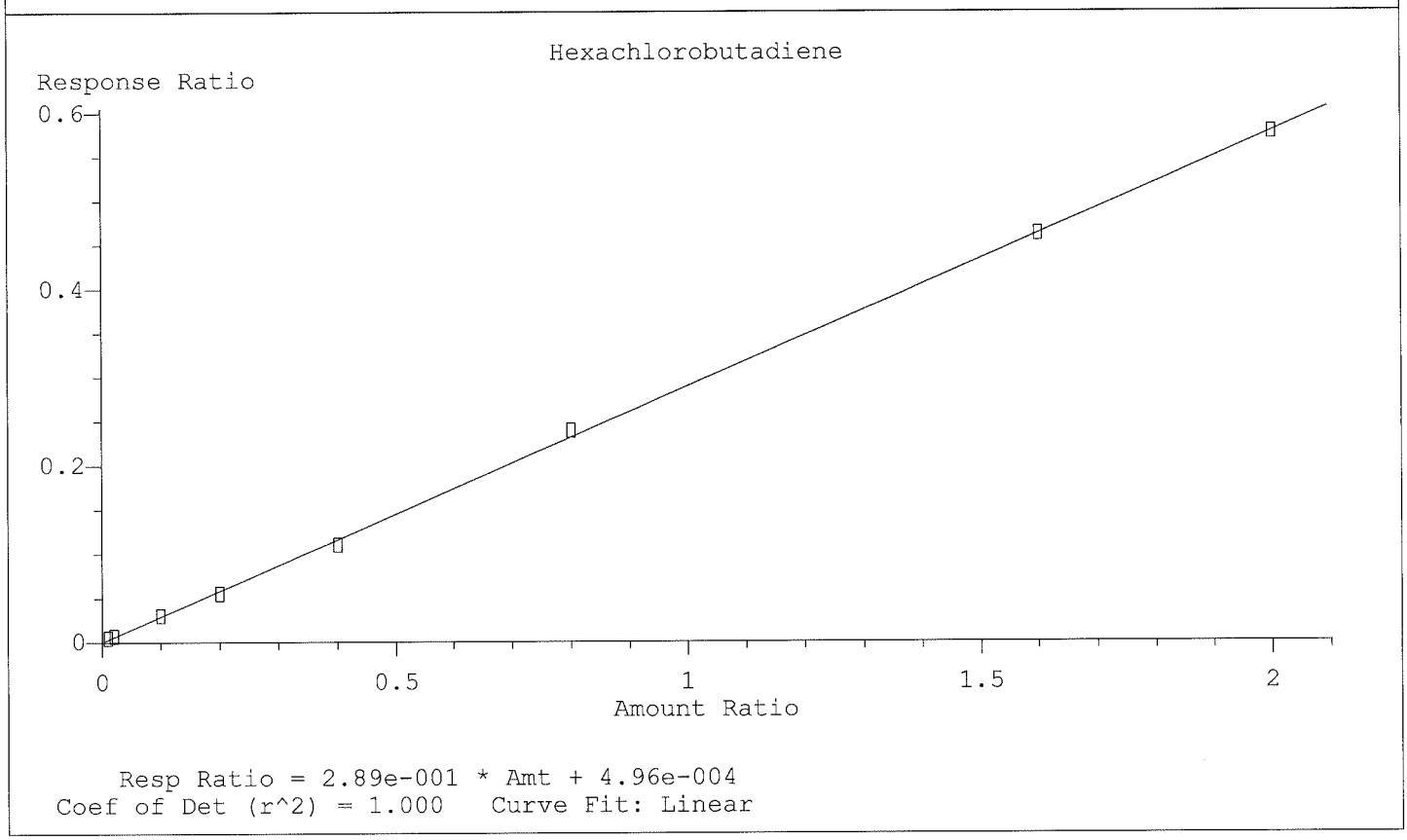


Resp Ratio = 2.29e-001 * Amt - 5.36e-003
Coef of Det (r^2) = 0.998 Curve Fit: Linear

Calibration Plot Report

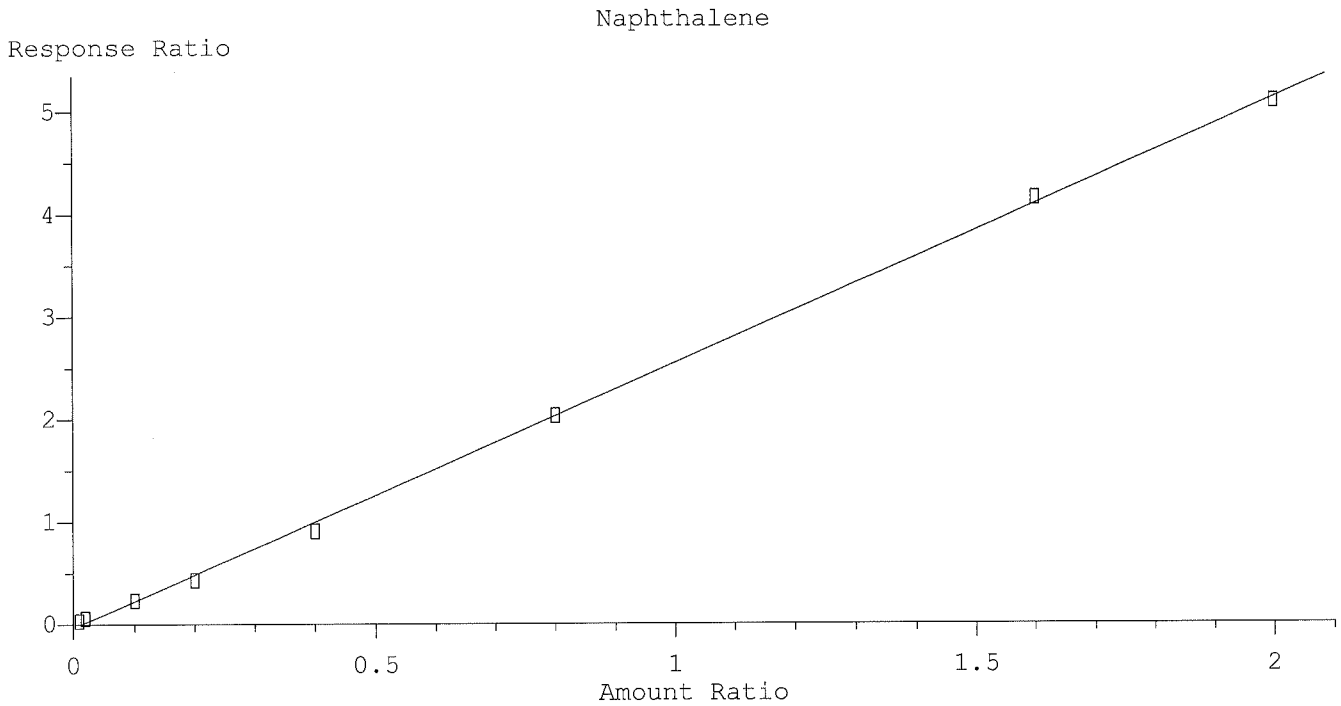


Resp Ratio = 1.33e+000 * Amt - 9.72e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

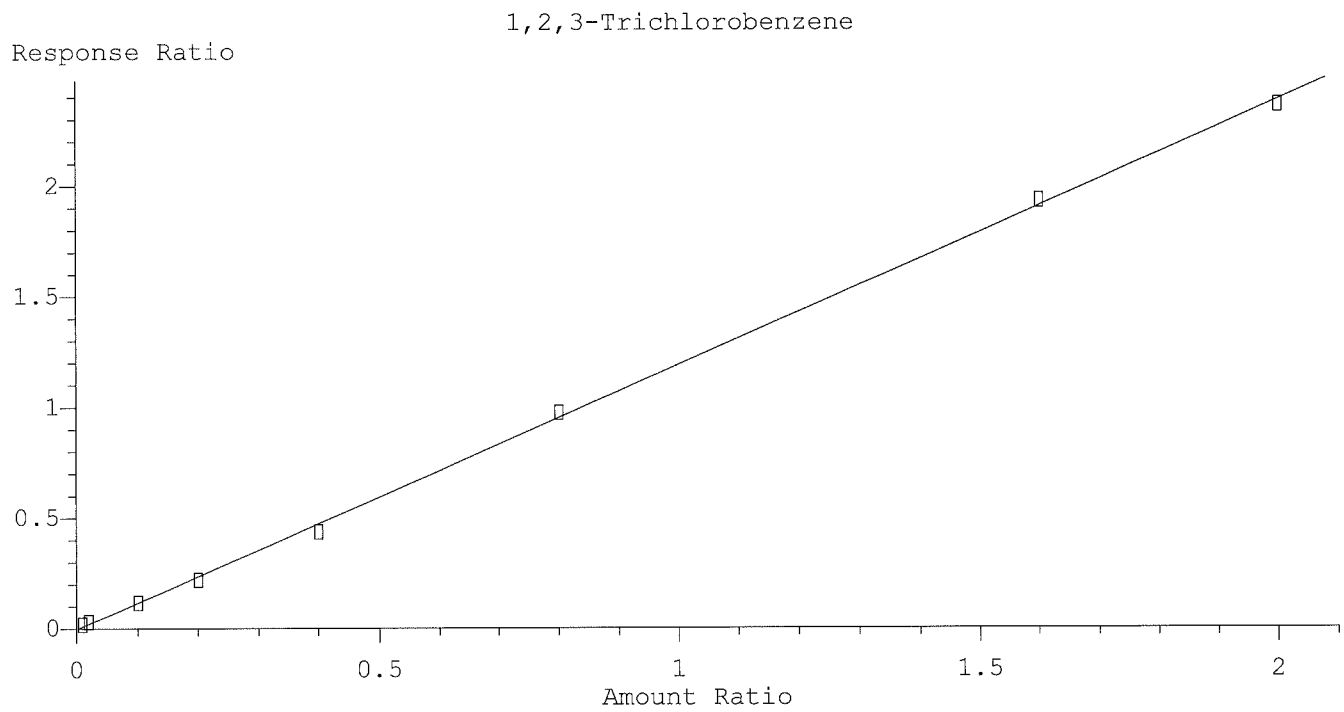


Resp Ratio = 2.89e-001 * Amt + 4.96e-004
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Calibration Plot Report



Resp Ratio = 2.58e+000 * Amt - 3.46e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear



Resp Ratio = 1.19e+000 * Amt - 3.51e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

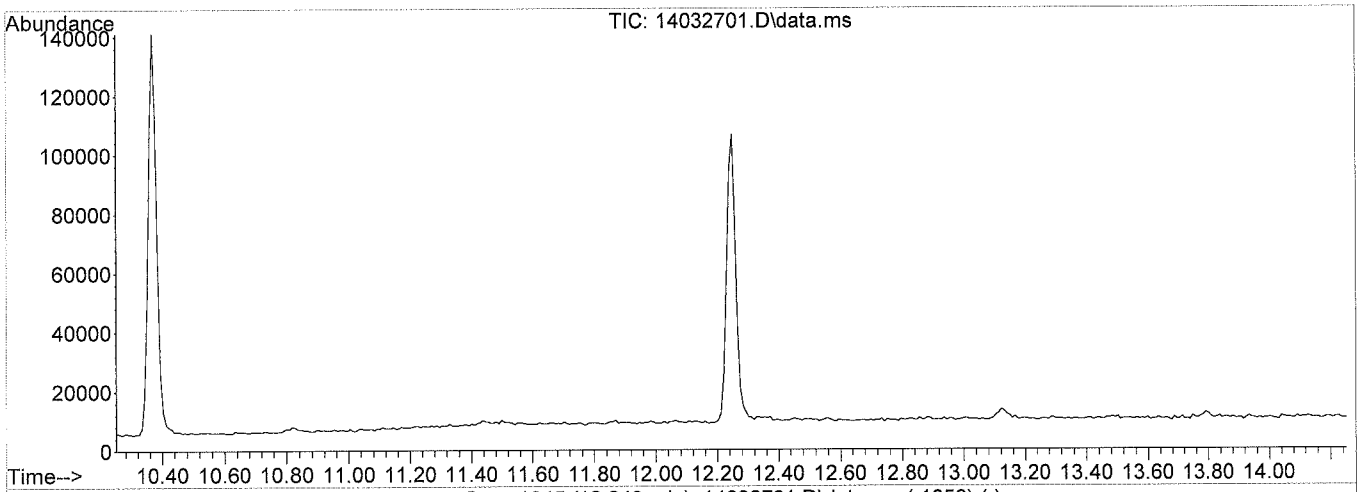
Calibration Plot Report

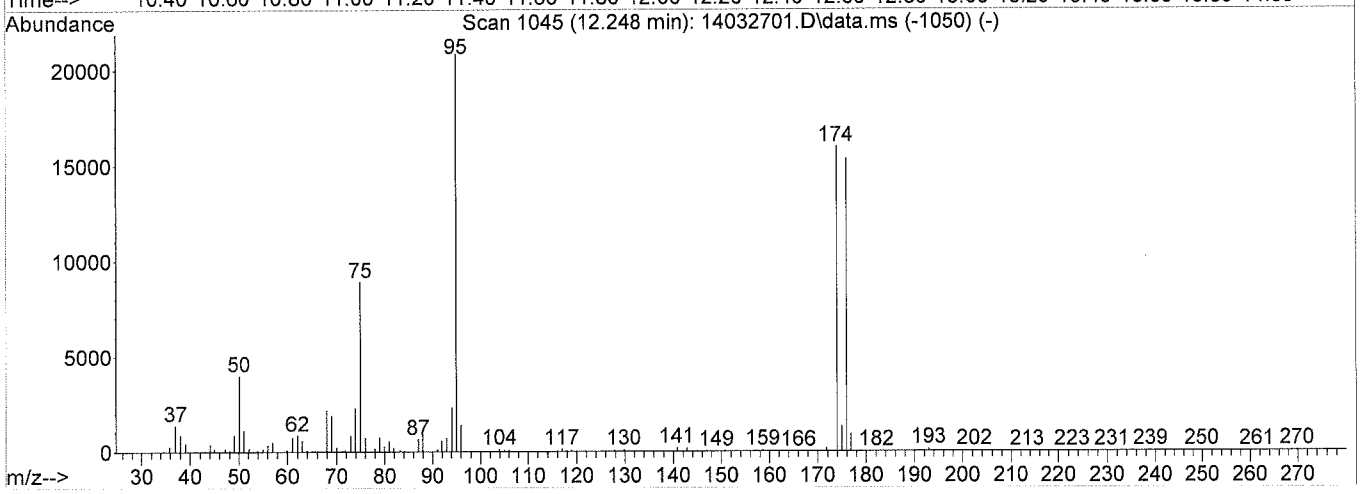
Data Path : H:\VOA\A228\140327\
Data File : 14032701.D
Acq On : 27 Mar 2014 10:03
Operator : JM
Sample : BFB
Misc : TUNE CHECK
ALS Vial : 3 Sample Multiplier: 1

JM 4/1/14

Integration File: RTEINT.P

Method : H:\VOA\A228\METHODS\140327.M
Title : 8260B_S
Last Update : Thu Mar 27 15:18:06 2014





Spectrum Information: Scan 1045

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	3995	PASS
75	95	30	60	42.8	8910	PASS
95	95	100	100	100.0	20837	PASS
96	95	5	9	6.6	1378	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.6	15960	PASS
175	174	5	9	8.1	1296	PASS
176	174	95	101	96.1	15345	PASS
177	176	5	9	5.8	894	PASS

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032703.D
Acq On : 27 Mar 2014 11:09
Operator : JM
Sample : IB
Misc : BLANK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 27 15:20:13 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.479	168	205574	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.158	114	335277	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.426	117	296647	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.121	152	142470	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.505	113	145606	49.84 ug/L	-0.01
Spiked Amount 50.000	Range 52 - 140		Recovery = 99.68%		
45) 1,2-Dichloroethane-d4	8.832	65	173992	47.88 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 95.76%		
46) Toluene-d8	10.367	98	457900	50.08 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 100.16%		
66) 4-Bromofluorobenzene	12.247	95	188990	46.49 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 92.98%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.987	85	201	Below Cal #	55
3) Chloromethane	4.340	50	796	Below Cal #	64
10) Trichlorotrifluoroethane	6.202	151	48	Below Cal #	49
24) Acetone	6.290	43	2066	Below Cal #	76
39) Bromodichloromethane	9.785	83	45	Below Cal	81
41) Dibromomethane	9.714	93	260	Below Cal	95
44) 4-Methyl-2-pentanone	10.217	43	1380	0.43 ug/L	97
50) 1,1,2-Trichloroethane	10.685	83	199	Below Cal #	32
51) 1,3-Dichloropropane	10.835	76	305	Below Cal #	1
52) Tetrachloroethene	10.853	166	261	Below Cal	85
58) 1,1,1,2-Tetrachloroethane	11.506	131	164	Below Cal #	1
65) 1,1,2,2-Tetrachloroethane	12.282	83	1008	Below Cal	80
85) 1,2,4-Trichlorobenzene	14.956	180	918	0.61 ug/L #	93
87) Naphthalene	15.265	128	3648	1.17 ug/L	95
88) 1,2,3-Trichlorobenzene	15.538	180	1229	0.51 ug/L	98

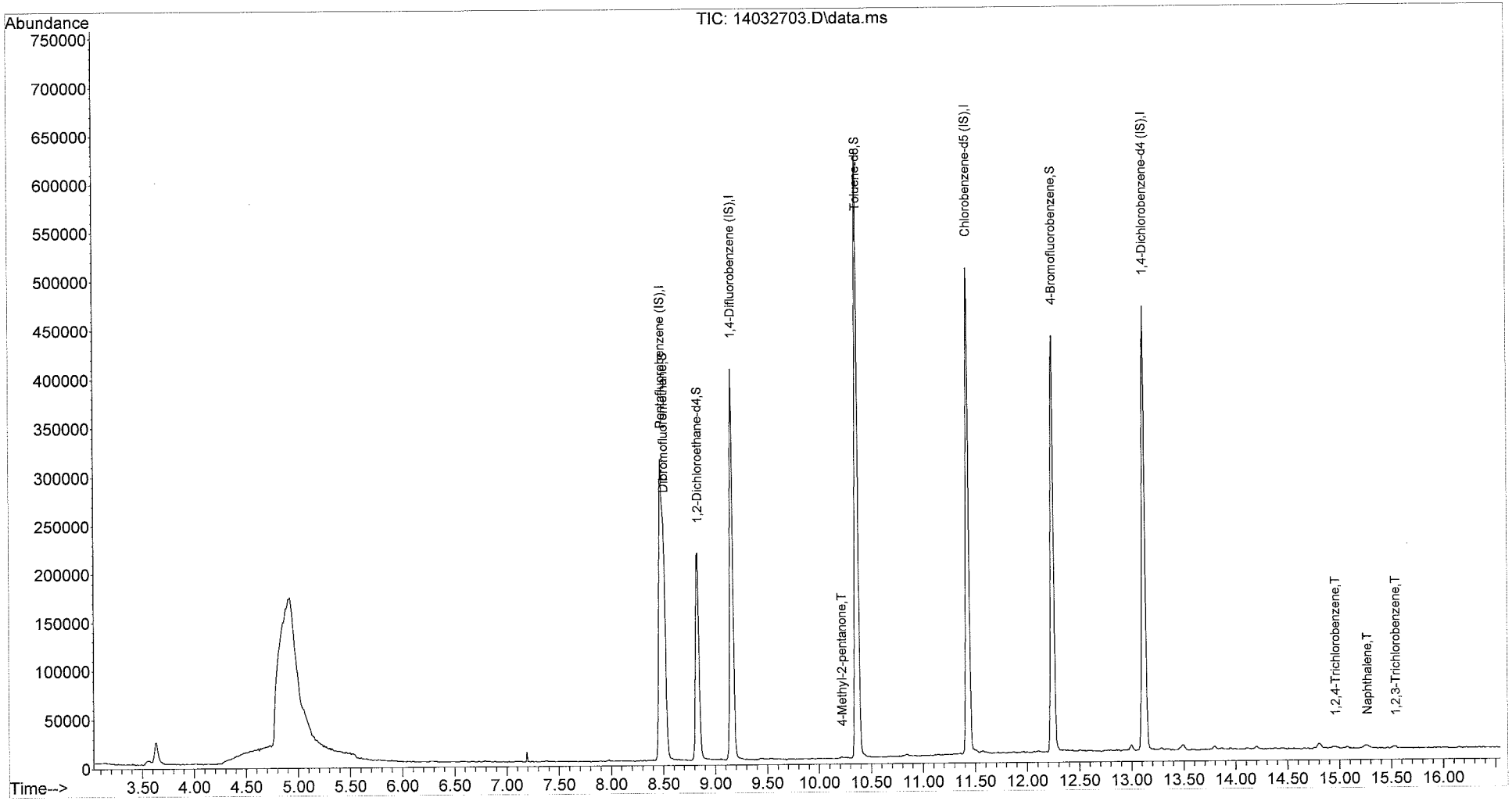
CM

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032703.D
Acq On : 27 Mar 2014 11:09
Operator : JM
Sample : IB
Misc : BLANK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 27 15:20:13 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032704.D
Acq On : 27 Mar 2014 11:35
Operator : JM
Sample : 0.5 PPB
Misc : ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 27 15:12:43 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.480	168	213069	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.159	114	335700	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.427	117	287889	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.121	152	140007	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.506	113	8531	2.82 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery	= 5.64%#	
45) 1,2-Dichloroethane-d4	8.833	65	10514	2.89 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery	= 5.78%#	
46) Toluene-d8	10.368	98	24186	2.64 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery	= 5.28%#	
66) 4-Bromofluorobenzene	12.248	95	11317	2.87 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery	= 5.74%#	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.997	85	2212	0.67 ug/L	95
3) Chloromethane	4.368	50	2283	0.68 ug/L	93
4) Vinyl chloride	4.535	62	2187	0.61 ug/L #	73
5) 1,3-Butadiene	4.606	54	970	0.59 ug/L #	77
6) Bromomethane	0.000		0	N.D. d	
7) Chloroethane	0.000		0	N.D. d	
8) Trichlorofluoromethane	5.515	101	3150	0.60 ug/L #	77
9) Acrolein	6.088	56	23464	50.97 ug/L	98
10) Trichlorotrifluoroethane	6.212	151	1441	0.71 ug/L #	80
11) 1,1-Dichloroethene	6.238	61	2915	0.64 ug/L	92
12) Methylene chloride	6.794	84	2377m	0.62 ug/L	
13) Acrylonitrile	7.050	53	804	1.39 ug/L	91
14) trans-1,2-Dichloroethene	7.112	61	2733	0.62 ug/L	92
15) n-Hexane	7.386	57	2252	1.71 ug/L	85
16) 1,1-Dichloroethane	7.544	63	3294	0.62 ug/L	88
17) Cyclohexane	8.674	84	2338	0.56 ug/L	92
18) 2,2-Dichloropropane	8.118	77	3183	0.67 ug/L #	85
19) cis-1,2-Dichloroethene	8.100	96	2389	0.63 ug/L	93
20) Chloroform	8.365	83	4177	0.68 ug/L	95
21) Bromochloromethane	8.330	128	977	0.63 ug/L	80
23) 1,1,1-Trichloroethane	8.586	97	3178	0.64 ug/L	92
24) Acetone	6.274	43	3976	1.12 ug/L #	90
25) 2-Butanone	8.083	43	3099	2.97 ug/L #	91
26) Carbon Disulfide	6.591	76	8043	0.73 ug/L #	73
27) Iodomethane	6.468	142	1857	0.48 ug/L	97
28) Vinyl acetate	7.536	43	7550	0.50 ug/L #	89
29) Methyl tert-butyl ether	7.086	73	4521	0.59 ug/L	95
31) 1,1-Dichloropropene	8.718	75	2076	0.53 ug/L	88
32) Carbon tetrachloride	8.753	117	2116	0.61 ug/L	89
33) 1,2-Dichloroethane	8.895	62	3201	0.69 ug/L	95
34) Benzene	8.912	78	7109	0.50 ug/L	96
35) 2,2,4-Trimethylpentane	8.939	57	5124	0.82 ug/L #	92
36) n-Heptane	9.053	57	1286	0.59 ug/L #	89
37) Trichloroethene	9.424	95	2012	0.61 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032704.D
Acq On : 27 Mar 2014 11:35
Operator : JM
Sample : 0.5 PPB
Misc : ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 27 15:12:43 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

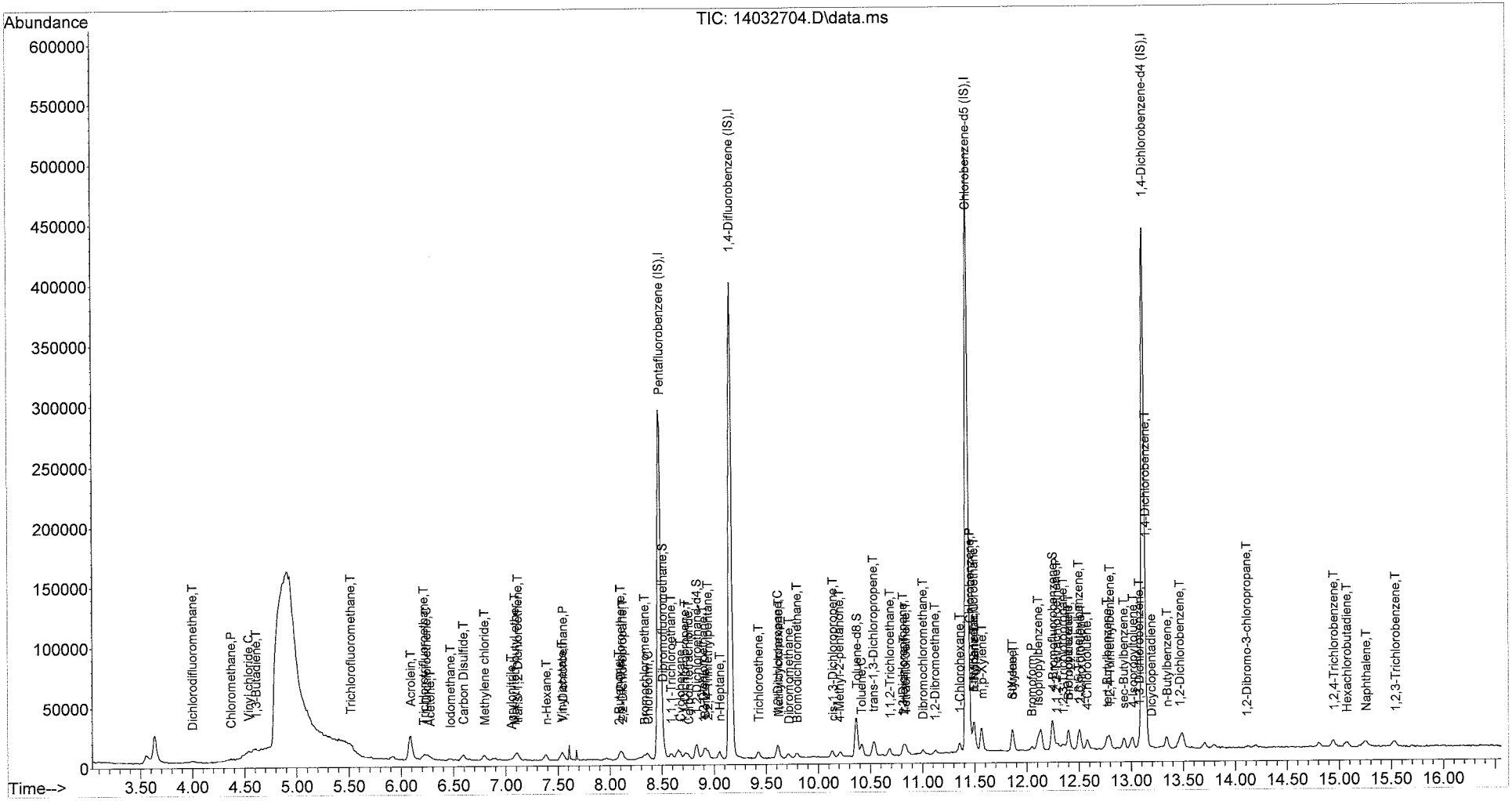
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.609	63	2045m	0.70 ug/L	
39) Bromodichloromethane	9.795	83	3230	0.72 ug/L	83
40) Methylcyclohexane	9.618	56	711	0.60 ug/L	95
41) Dibromomethane	9.715	93	1783	0.68 ug/L	93
42) cis-1,3-Dichloropropene	10.139	75	3036	0.61 ug/L	83
43) 2-Chloroethylvinylether	0.000		0	N.D. d	
44) 4-Methyl-2-pentanone	10.201	43	3984	1.25 ug/L	90
48) Toluene	10.412	92	5020	0.73 ug/L	92
49) trans-1,3-Dichloropropene	10.527	75	2978	0.70 ug/L	88
50) 1,1,2-Trichloroethane	10.686	83	2006	0.76 ug/L	87
51) 1,3-Dichloropropane	10.809	76	3314	0.69 ug/L	87
52) Tetrachloroethene	10.836	166	2032	0.69 ug/L	88
53) Dibromochloromethane	11.004	129	1913	0.70 ug/L	89
54) 1,2-Dibromoethane	11.118	107	2069	0.64 ug/L	87
55) 1-Chlorohexane	11.357	91	2816	0.63 ug/L	90
56) Chlorobenzene	11.454	112	5074	0.74 ug/L #	90
57) n-Nonane	11.498	57	2768	0.64 ug/L #	93
58) 1,1,1,2-Tetrachloroethane	11.489	131	1660	0.72 ug/L #	69
59) Ethylbenzene	11.489	91	8989	0.66 ug/L	99
60) m,p-Xylene	11.568	106	6056	1.31 ug/L	89
61) o-Xylene	11.860	106	2905	0.67 ug/L	87
62) Styrene	11.860	104	5084	0.65 ug/L	96
63) Isopropylbenzene	12.107	105	7558	0.69 ug/L	95
64) Bromoform	12.045	173	1624	0.73 ug/L	86
65) 1,1,2,2-Tetrachloroethane	12.283	83	3243	0.74 ug/L	100
67) 2-Hexanone	10.818	43	3384	1.46 ug/L	86
69) 1,2,3-Trichloropropane	12.345	110	775	0.72 ug/L	92
70) n-Propylbenzene	12.398	91	9180	0.64 ug/L	97
71) Bromobenzene	12.398	156	2308	0.76 ug/L	88
72) 1,3,5-Trimethylbenzene	12.495	105	6267	0.64 ug/L	96
73) 2-Chlorotoluene	12.513	91	7202	0.70 ug/L	98
74) 4-Chlorotoluene	12.574	91	6176	0.69 ug/L	98
75) tert-Butylbenzene	12.769	119	4619	0.63 ug/L	96
76) 1,2,4-Trimethylbenzene	12.795	105	6443	0.65 ug/L	94
77) sec-Butylbenzene	12.927	105	7570	0.64 ug/L	94
78) 4-Isopropyltoluene	13.016	119	4994	0.62 ug/L	96
79) 1,3-Dichlorobenzene	13.077	146	3518	0.72 ug/L #	83
80) 1,4-Dichlorobenzene	13.139	146	3769	0.72 ug/L #	39
81) Dicyclopentadiene	13.192	66	874	0.75 ug/L #	80
82) n-Butylbenzene	13.342	92	4437	0.67 ug/L	93
83) 1,2-Dichlorobenzene	13.466	146	3496	0.75 ug/L #	91
84) 1,2-Dibromo-3-chloropr...	14.110	157	473m	1.91 ug/L	
85) 1,2,4-Trichlorobenzene	14.948	180	2698	0.68 ug/L	93
86) Hexachlorobutadiene	15.072	190	680	0.75 ug/L	93
87) Naphthalene	15.257	128	4768	0.65 ug/L	94
88) 1,2,3-Trichlorobenzene	15.539	180	2666	0.73 ug/L	80

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032704.D
Acq On : 27 Mar 2014 11:35
Operator : JM
Sample : 0.5 PPB
Misc : ICAL
ALS Vial : 6 Sample Multiplier: 1

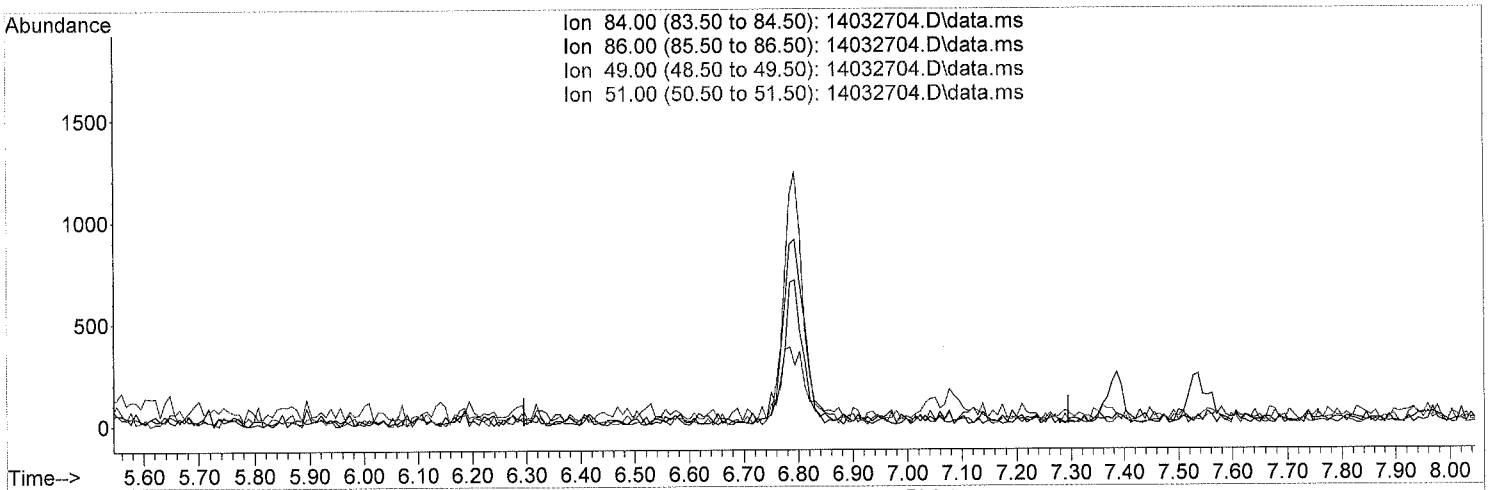
Quant Time: Mar 27 15:12:43 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

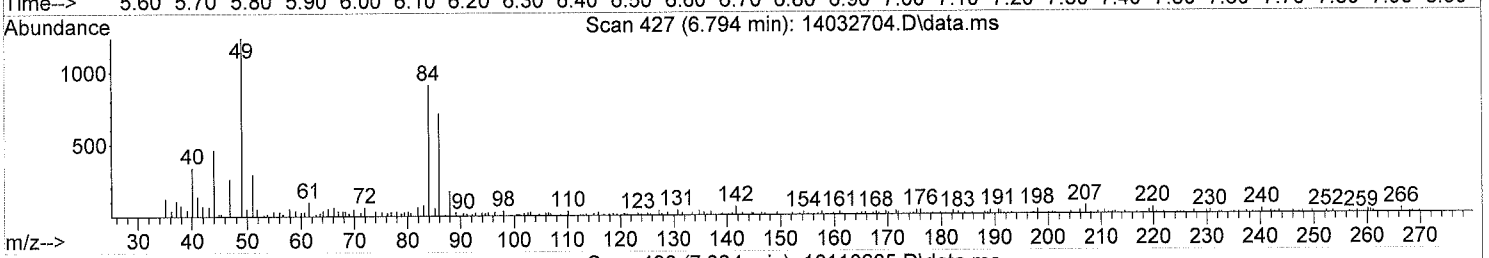


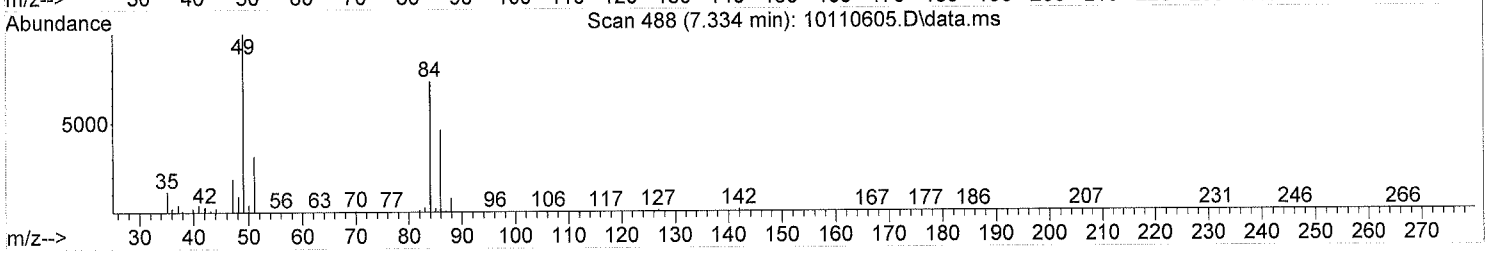
Quantitation Report (Qedit)

Data Path : H:\VOA\A228\140327\
Data File : 14032704.D
Acq On : 27 Mar 2014 11:35
Operator : JM
Sample : 0.5 PPB
Misc : ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 27 15:11:11 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration







TIC: 14032704.D\data.ms

(12) Methylene chloride (T)

6.795min (-6.795) 0.00 ug/L

response 0

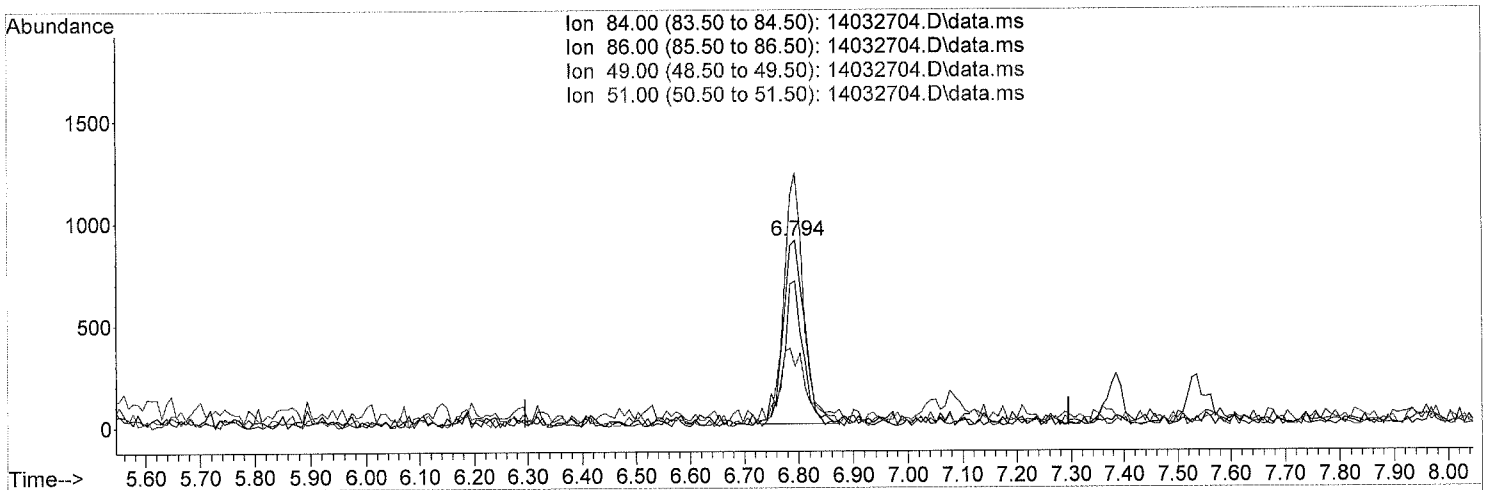
Ion	Exp%	Act%
84.00	100	0.00
86.00	64.90	0.00#
49.00	126.40	0.00#
51.00	39.40	0.00#

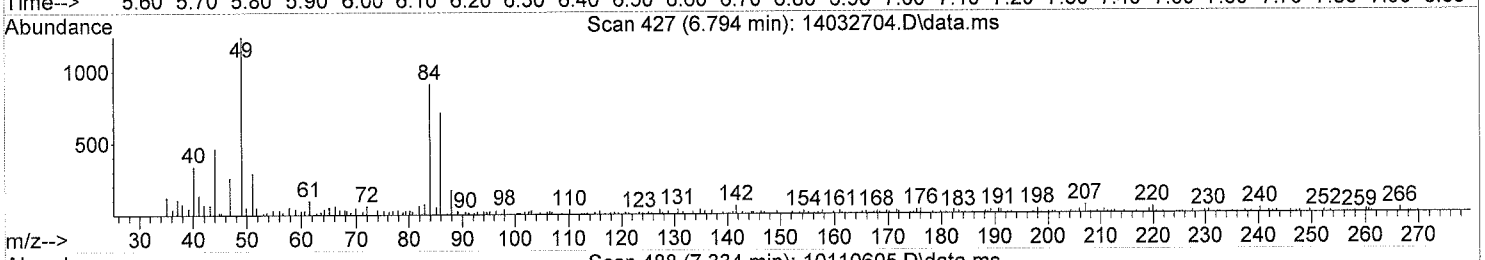
before multiply

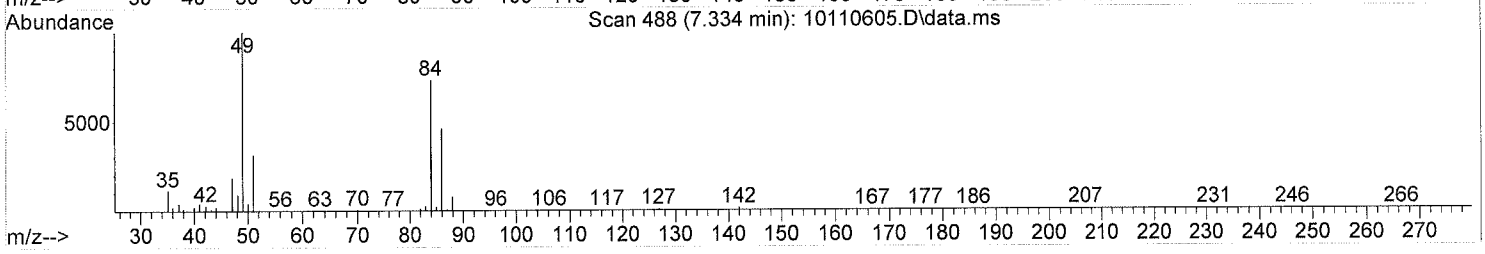
Quantitation Report (Qedit)

Data Path : H:\VOA\A228\140327\
Data File : 14032704.D
Acq On : 27 Mar 2014 11:35
Operator : JM
Sample : 0.5 PPB
Misc : ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 27 15:11:11 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration







TIC: 14032704.D\data.ms

(12) Methylene chloride (T)

6.794min (-0.001) 0.62 ug/L m

response 2377

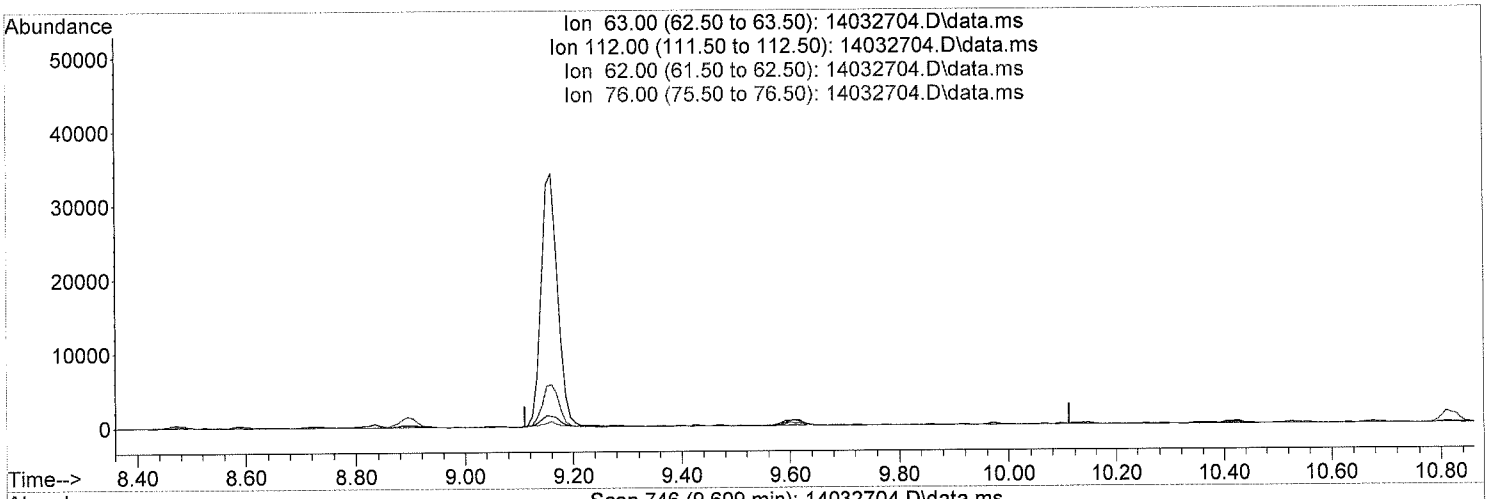
Ion	Exp%	Act%
84.00	100	100
86.00	64.90	78.11
49.00	126.40	136.19
51.00	39.40	31.90

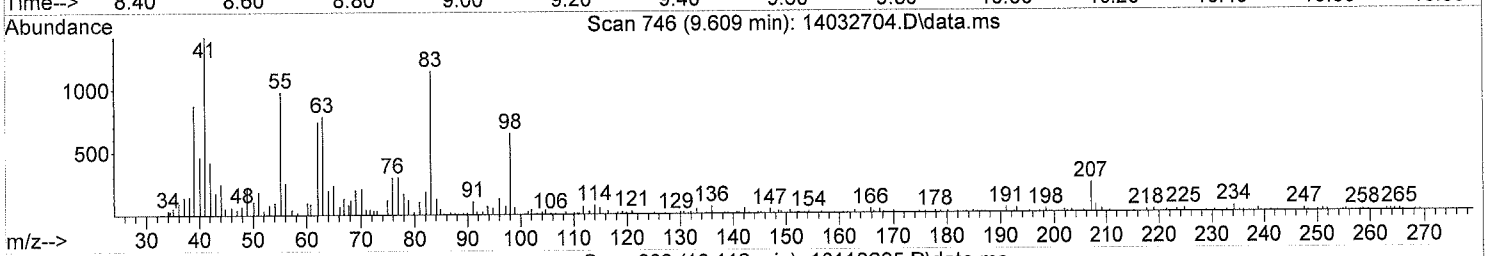
after IC multiply

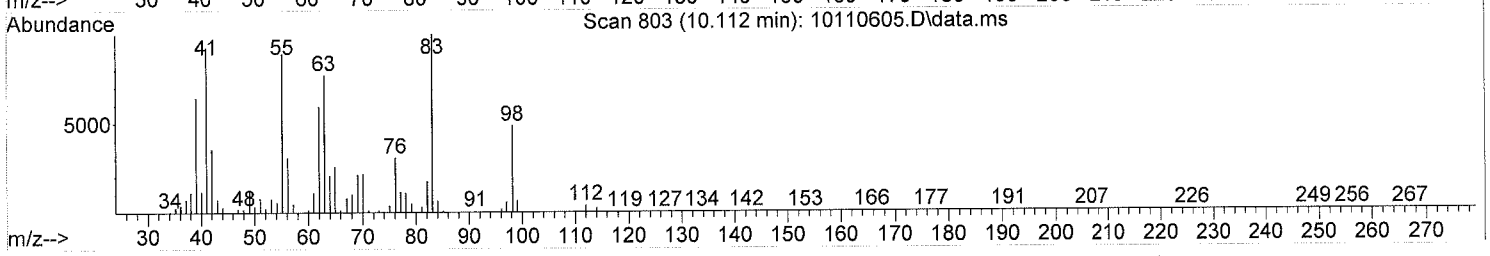
Quantitation Report (Qedit)

Data Path : H:\VOA\A228\140327\
Data File : 14032704.D
Acq On : 27 Mar 2014 11:35
Operator : JM
Sample : 0.5 PPB
Misc : ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 27 15:11:11 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration







TIC: 14032704.D\data.ms

(38) 1,2-Dichloropropane (C)

9.610min (-9.610) 0.00 ug/L

response 0

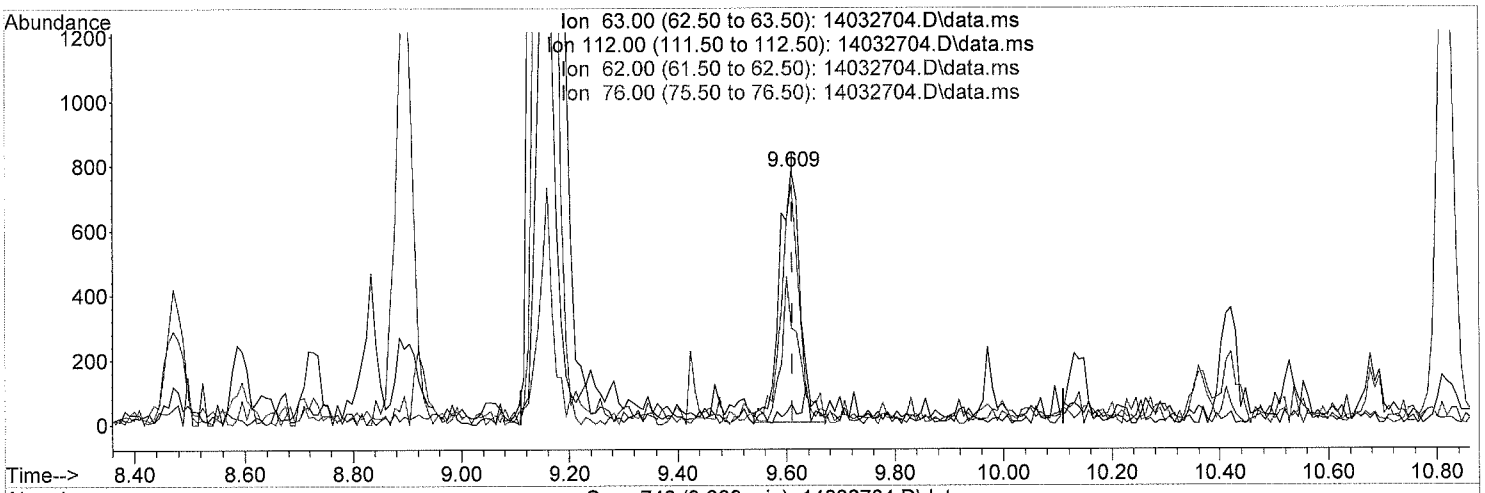
Ion	Exp%	Act%
63.00	100	0.00
112.00	3.80	0.00
62.00	74.60	0.00#
76.00	54.20	0.00#

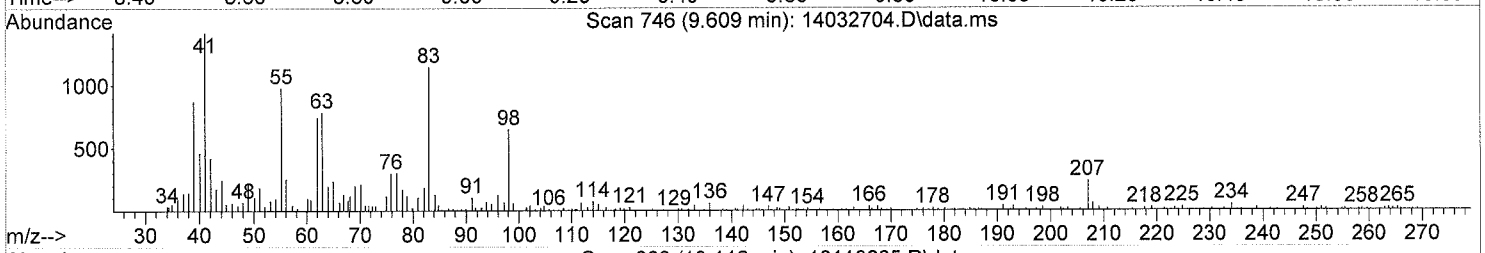
before multiply

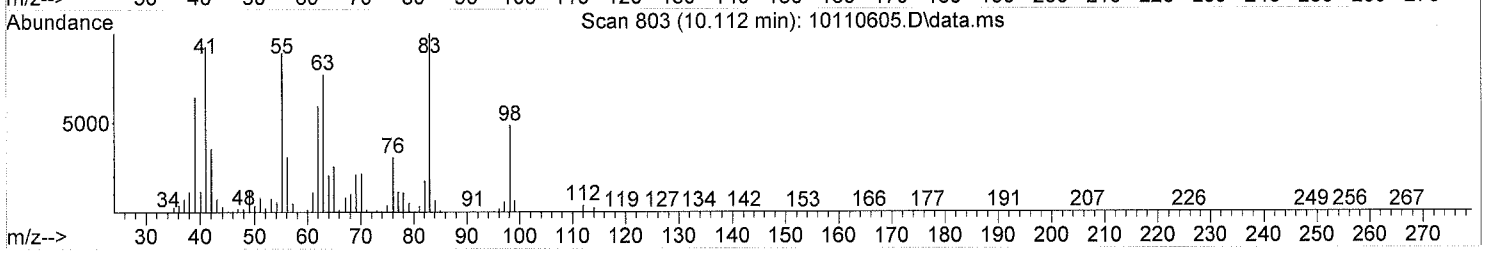
Quantitation Report (Qedit)

Data Path : H:\VOA\A228\140327\
Data File : 14032704.D
Acq On : 27 Mar 2014 11:35
Operator : JM
Sample : 0.5 PPB
Misc : ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 27 15:11:11 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration







TIC: 14032704.D\data.ms

(38) 1,2-Dichloropropane (C)

9.609min (-0.001) 0.70 ug/L m

response 2045

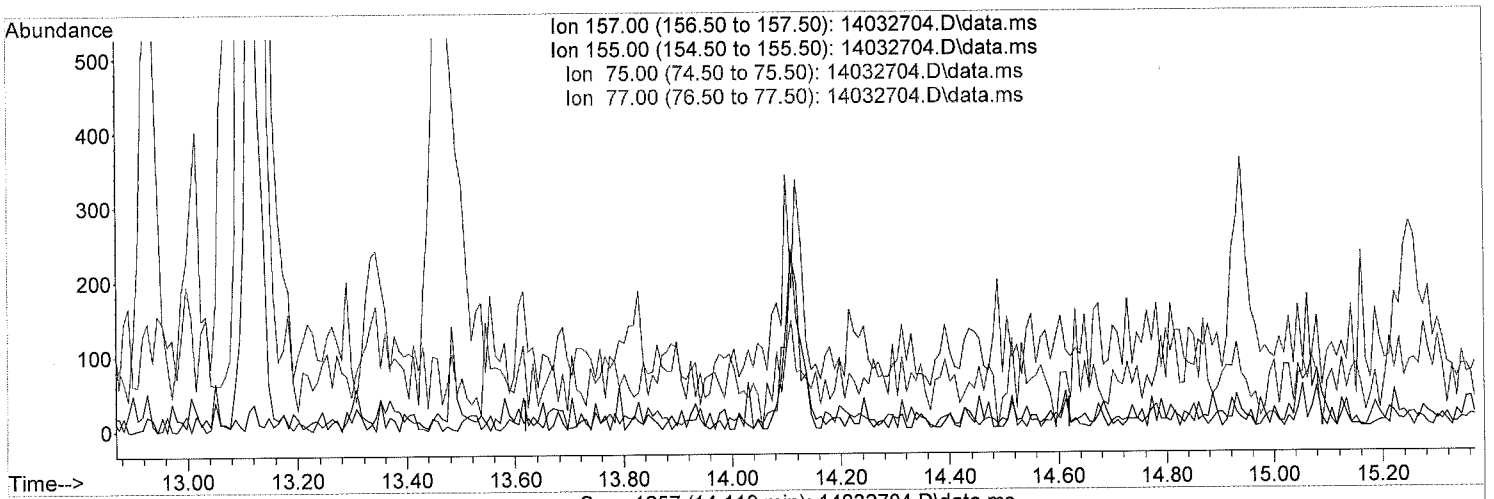
Ion	Exp%	Act%
63.00	100	100
112.00	3.80	7.80#
62.00	74.60	94.63
76.00	54.20	37.85#

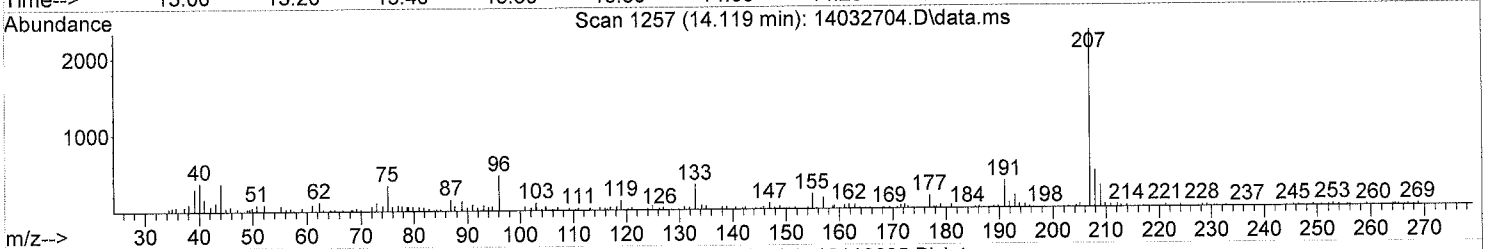
after IC
JM 4/1/14

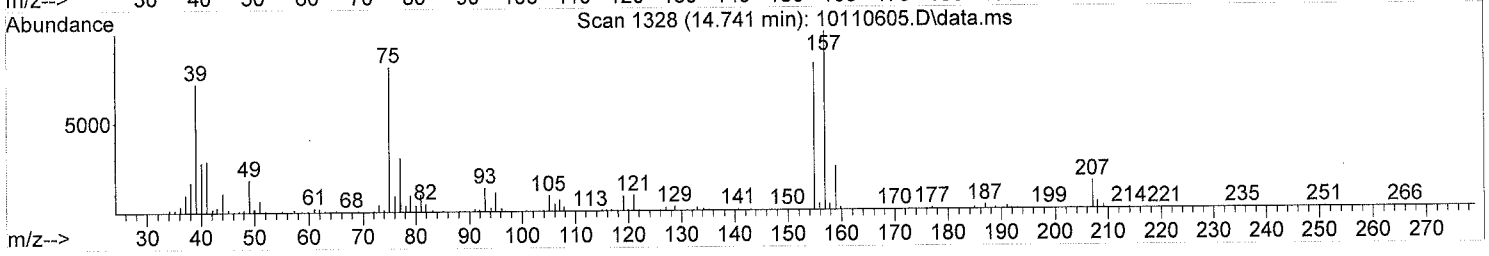
Quantitation Report (Qedit)

Data Path : H:\VOA\A228\140327\
Data File : 14032704.D
Acq On : 27 Mar 2014 11:35
Operator : JM
Sample : 0.5 PPB
Misc : ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 27 15:11:11 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration







TIC: 14032704.D\data.ms

(84) 1,2-Dibromo-3-chloropropane (T)

14.119min (-14.119) 0.00 ug/L

response 0

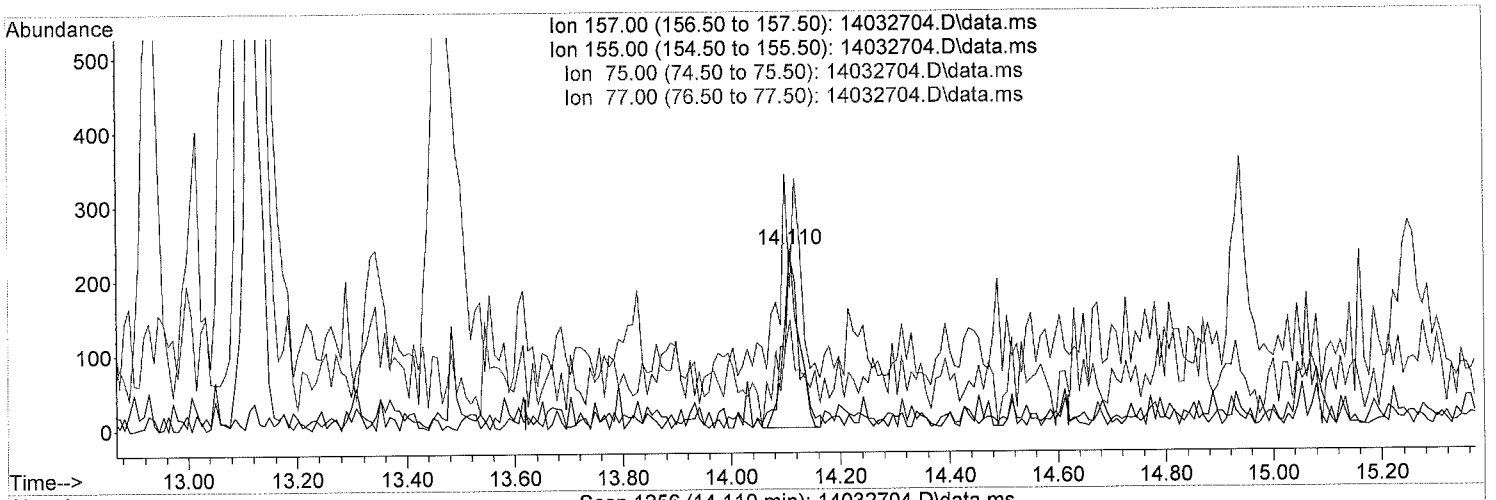
Ion	Exp%	Act%
157.00	100	0.00
155.00	76.60	0.00#
75.00	94.70	0.00#
77.00	26.90	0.00#

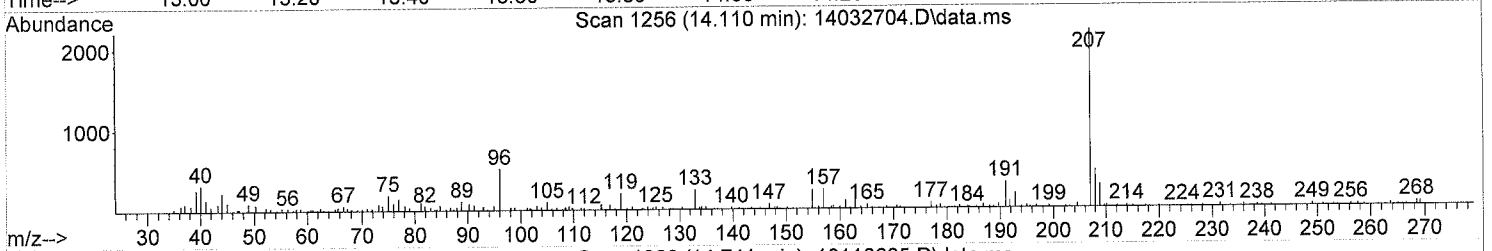
before DMulity

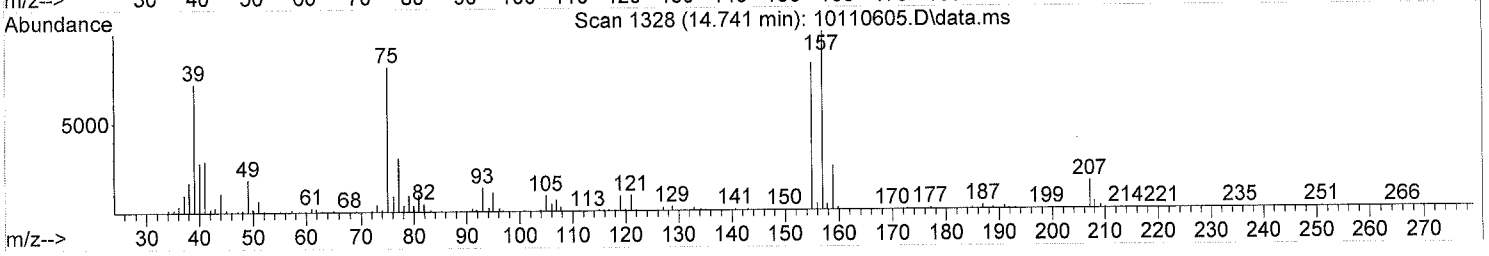
Quantitation Report (Qedit)

Data Path : H:\VOA\A228\140327\
Data File : 14032704.D
Acq On : 27 Mar 2014 11:35
Operator : JM
Sample : 0.5 PPB
Misc : ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 27 15:11:11 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration







TIC: 14032704.D\data.ms

(84) 1,2-Dibromo-3-chloropropane (T)

14.110min (-0.009) 1.91 ug/L m

response 473

Ion	Exp%	Act%
157.00	100	100
155.00	76.60	96.25
75.00	94.70	78.33
77.00	26.90	60.00#

After IC 04/01/14

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032705.D
Acq On : 27 Mar 2014 12:01
Operator : JM
Sample : 1.0 PPB
Misc : ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 27 15:08:28 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:07:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.476	168	198767	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.156	114	311207	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.432	117	273837	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.118	152	136420	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.511	113	14417	5.21 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery	= 10.42%#	
45) 1,2-Dichloroethane-d4	8.829	65	17597	5.36 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery	= 10.72%#	
46) Toluene-d8	10.365	98	42598	5.07 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery	= 10.14%#	
66) 4-Bromofluorobenzene	12.244	95	18701	5.11 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery	= 10.22%#	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.993	85	3504	1.20 ug/L	92
3) Chloromethane	4.364	50	3508	1.18 ug/L	94
4) Vinyl chloride	4.532	62	3647	1.13 ug/L	96
5) 1,3-Butadiene	4.602	54	1896	1.26 ug/L #	81
6) Bromomethane	0.000		0	N.D. d	
7) Chloroethane	5.096	64	1707	1.28 ug/L #	5
8) Trichlorofluoromethane	5.529	101	4844	1.02 ug/L	93
9) Acrolein	6.085	56	33470	78.15 ug/L	95
10) Trichlorotrifluoroethane	6.217	151	1930	1.08 ug/L #	89
11) 1,1-Dichloroethene	6.244	61	4466	1.10 ug/L	87
12) Methylene chloride	6.782	84	3756	1.11 ug/L	98
13) Acrylonitrile	7.038	53	1381m	2.15 ug/L	
14) trans-1,2-Dichloroethene	7.117	61	3990	1.01 ug/L	96
15) n-Hexane	7.382	57	3330	2.38 ug/L	94
16) 1,1-Dichloroethane	7.541	63	4990	1.05 ug/L	92
17) Cyclohexane	8.670	84	3597	0.95 ug/L #	94
18) 2,2-Dichloropropane	8.114	77	4550	1.08 ug/L	95
19) cis-1,2-Dichloroethene	8.097	96	3609	1.05 ug/L	89
20) Chloroform	8.361	83	5706	1.05 ug/L	99
21) Bromochloromethane	8.326	128	1639	1.19 ug/L	80
23) 1,1,1-Trichloroethane	8.591	97	4522	1.02 ug/L	94
24) Acetone	6.270	43	5142	2.40 ug/L #	89
25) 2-Butanone	8.079	43	3857	4.12 ug/L #	92
26) Carbon Disulfide	6.588	76	9868	1.03 ug/L	78
27) Iodomethane	6.464	142	3229	0.88 ug/L	94
28) Vinyl acetate	7.532	43	12405	0.88 ug/L #	93
29) Methyl tert-butyl ether	7.091	73	6675	0.96 ug/L	95
31) 1,1-Dichloropropene	8.723	75	3536	0.98 ug/L	88
32) Carbon tetrachloride	8.750	117	3063	0.99 ug/L #	89
33) 1,2-Dichloroethane	8.891	62	4644	1.14 ug/L	92
34) Benzene	8.917	78	10778	0.92 ug/L	94
35) 2,2,4-Trimethylpentane	8.944	57	8782	1.34 ug/L #	95
36) n-Heptane	9.050	57	1654	0.85 ug/L #	98
37) Trichloroethene	9.420	95	3082	1.04 ug/L	90

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032705.D
Acq On : 27 Mar 2014 12:01
Operator : JM
Sample : 1.0 PPB
Misc : ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 27 15:08:28 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:07:41 2014
Response via : Initial Calibration

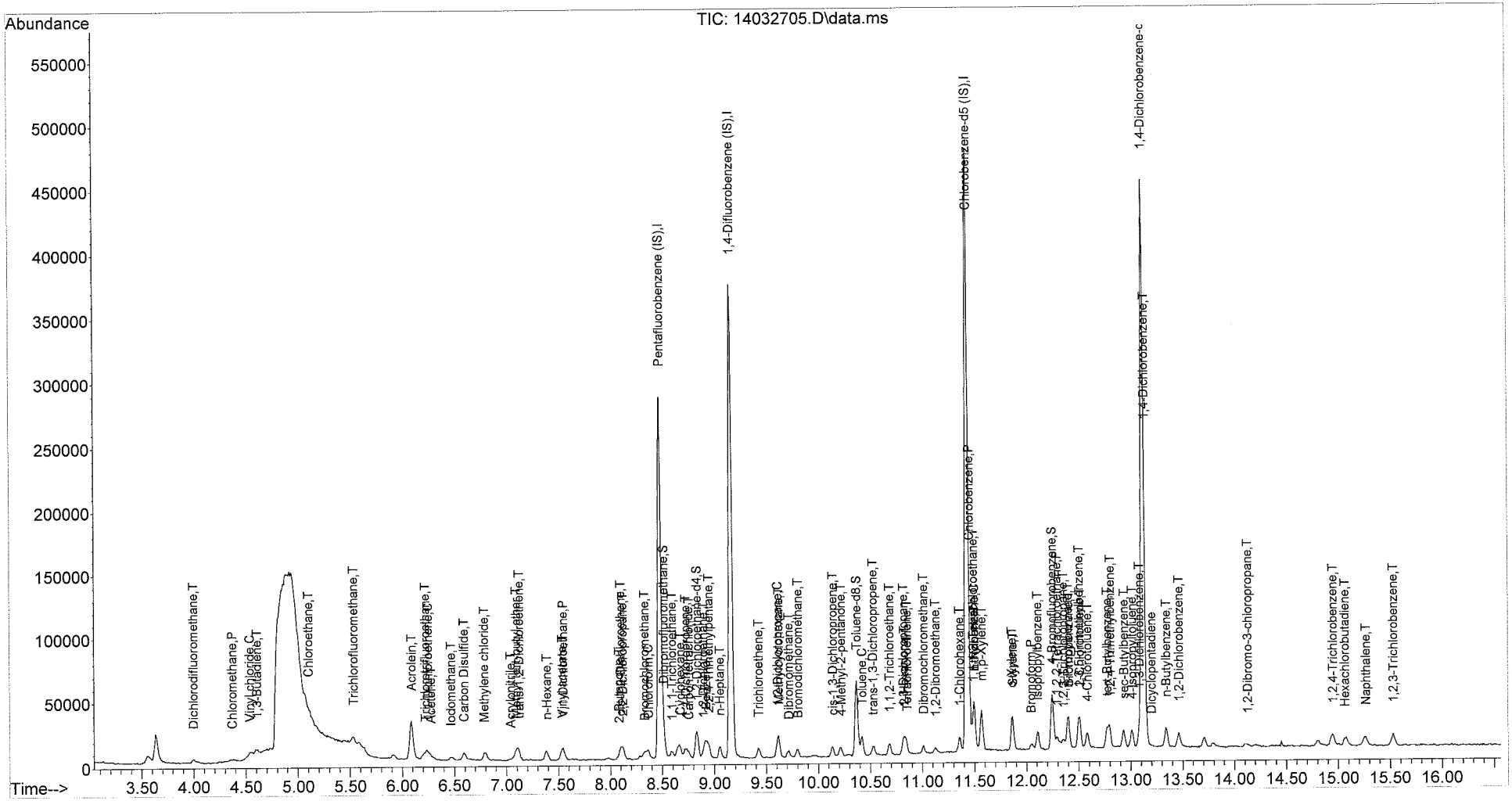
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.606	63	2702	1.07 ug/L	81
39) Bromodichloromethane	9.800	83	4134	1.06 ug/L	97
40) Methylcyclohexane	9.614	56	1176	1.11 ug/L	89
41) Dibromomethane	9.712	93	2694	1.16 ug/L	91
42) cis-1,3-Dichloropropene	10.135	75	5118	1.14 ug/L	96
43) 2-Chloroethylvinylether	0.000		0	N.D. d	
44) 4-Methyl-2-pentanone	10.215	43	6775	2.37 ug/L	98
48) Toluene	10.418	92	7070	1.14 ug/L	89
49) trans-1,3-Dichloropropene	10.523	75	4133	1.09 ug/L	94
50) 1,1,2-Trichloroethane	10.682	83	2919	1.26 ug/L #	85
51) 1,3-Dichloropropane	10.815	76	5056	1.18 ug/L #	85
52) Tetrachloroethene	10.850	166	3040	1.15 ug/L	91
53) Dibromochloromethane	11.009	129	2782	1.13 ug/L	99
54) 1,2-Dibromoethane	11.123	107	3426	1.17 ug/L	82
55) 1-Chlorohexane	11.353	91	3966	0.97 ug/L	93
56) Chlorobenzene	11.450	112	7377	1.21 ug/L #	83
57) n-Nonane	11.494	57	4145	1.06 ug/L	91
58) 1,1,1,2-Tetrachloroethane	11.485	131	2597	1.27 ug/L	92
59) Ethylbenzene	11.494	91	13100	1.07 ug/L	95
60) m,p-Xylene	11.565	106	9419	2.24 ug/L	90
61) o-Xylene	11.856	106	4363	1.11 ug/L	93
62) Styrene	11.865	104	7472	1.04 ug/L	99
63) Isopropylbenzene	12.103	105	10302	1.05 ug/L	95
64) Bromoform	12.041	173	2351	1.20 ug/L	94
65) 1,1,2,2-Tetrachloroethane	12.288	83	5365	1.38 ug/L	80
67) 2-Hexanone	10.823	43	5472	2.66 ug/L	87
69) 1,2,3-Trichloropropane	12.350	110	1254	1.28 ug/L #	70
70) n-Propylbenzene	12.394	91	14549	1.08 ug/L	97
71) Bromobenzene	12.403	156	3330	1.21 ug/L	90
72) 1,3,5-Trimethylbenzene	12.500	105	9971	1.09 ug/L	96
73) 2-Chlorotoluene	12.509	91	10568	1.12 ug/L	96
74) 4-Chlorotoluene	12.579	91	9281	1.12 ug/L	98
75) tert-Butylbenzene	12.774	119	7525	1.09 ug/L	92
76) 1,2,4-Trimethylbenzene	12.800	105	9747	1.06 ug/L	94
77) sec-Butylbenzene	12.932	105	11367	1.02 ug/L	94
78) 4-Isopropyltoluene	13.012	119	7819	1.03 ug/L	99
79) 1,3-Dichlorobenzene	13.083	146	5673	1.27 ug/L	87
80) 1,4-Dichlorobenzene	13.135	146	5925	1.25 ug/L #	25
81) Dicyclopentadiene	13.197	66	1083	1.02 ug/L #	76
82) n-Butylbenzene	13.338	92	6378	1.03 ug/L	92
83) 1,2-Dichlorobenzene	13.462	146	5197	1.24 ug/L	93
84) 1,2-Dibromo-3-chloropr...	14.124	157	660	2.62 ug/L #	61
85) 1,2,4-Trichlorobenzene	14.944	180	4539	1.24 ug/L	90
86) Hexachlorobutadiene	15.059	190	980	1.20 ug/L #	77
87) Naphthalene	15.262	128	8042	1.18 ug/L	95
88) 1,2,3-Trichlorobenzene	15.527	180	4120	1.25 ug/L	92

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032705.D
Acq On : 27 Mar 2014 12:01
Operator : JM
Sample : 1.0 PPB
Misc : ICAL
ALS Vial : 7 Sample Multiplier: 1

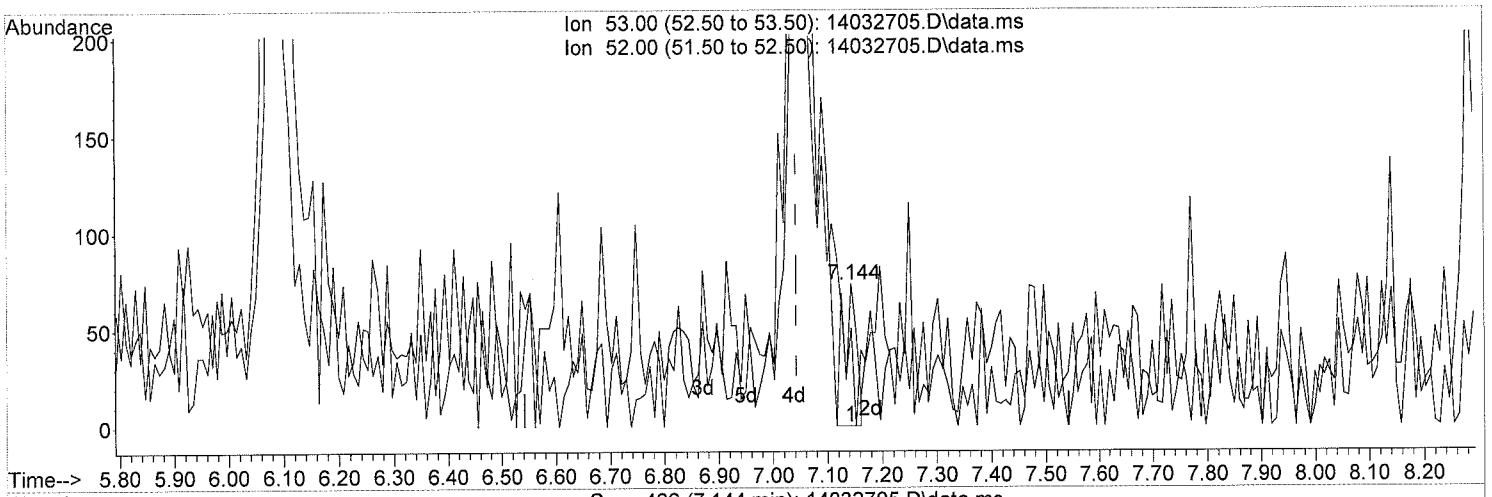
Quant Time: Mar 27 15:08:28 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:07:41 2014
Response via : Initial Calibration

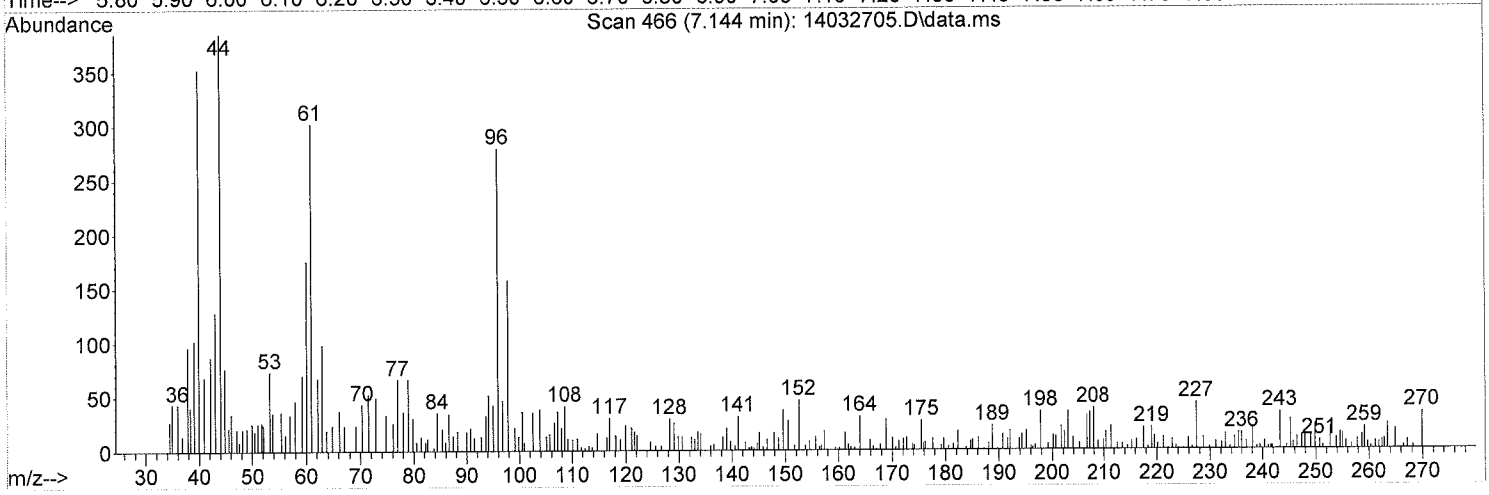


Quantitation Report (Qedit)

Data Path : H:\VOA\A228\140327\
Data File : 14032705.D
Acq On : 27 Mar 2014 12:01
Operator : JM
Sample : 1.0 PPB
Misc : ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 27 15:07:46 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:07:41 2014
Response via : Initial Calibration





TIC: 14032705.D\data.ms

(13) Acrylonitrile (T)

7.144min (+0.102) 1.12 ug/L

response 121

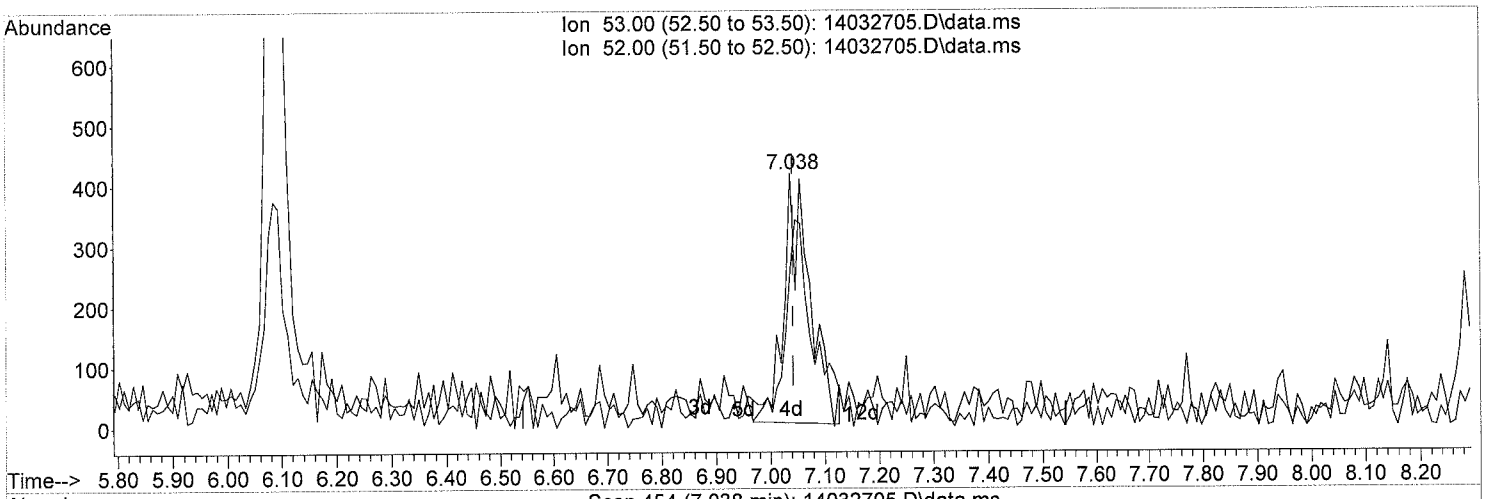
Ion	Exp%	Act%
53.00	100	100
52.00	82.90	68.49
0.00	0.00	0.00
0.00	0.00	0.00

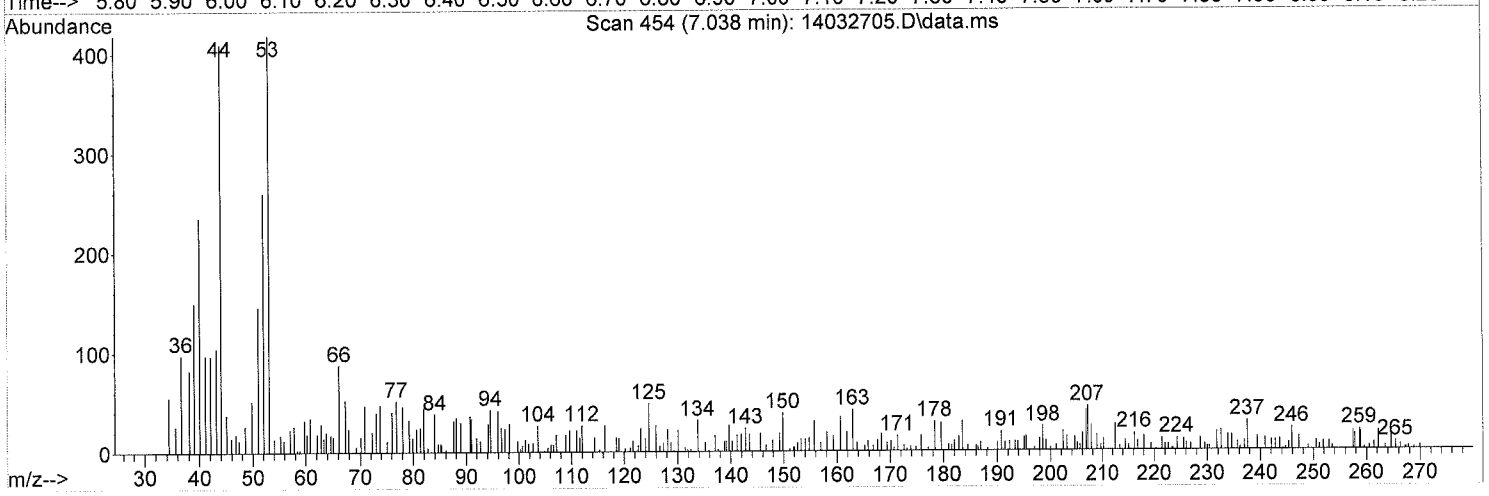
before ionization

Quantitation Report (Qedit)

Data Path : H:\VOA\A228\140327\
Data File : 14032705.D
Acq On : 27 Mar 2014 12:01
Operator : JM
Sample : 1.0 PPB
Misc : ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 27 15:07:46 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:07:41 2014
Response via : Initial Calibration





TIC: 14032705.D\data.ms

(13) Acrylonitrile (T)

7.038min (-0.004) 2.15 ug/L m

response 1381

Ion	Exp%	Act%
53.00	100	100
52.00	82.90	62.20#
0.00	0.00	0.00
0.00	0.00	0.00

After IC Quality

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032706.D
Acq On : 27 Mar 2014 12:27
Operator : JM
Sample : 5.0 PPB
Misc : ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 27 15:18:30 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.480	168	199809	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.160	114	313069	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.428	117	279777	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.122	152	139021	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.507	113	55149	19.42 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery =	38.84%#	
45) 1,2-Dichloroethane-d4	8.824	65	68406	20.16 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery =	40.32%#	
46) Toluene-d8	10.360	98	164233	19.24 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery =	38.48%#	
66) 4-Bromofluorobenzene	12.239	95	71825	18.74 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery =	37.48%#	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.997	85	15223	4.75 ug/L	94
3) Chloromethane	4.368	50	15189	4.97 ug/L	99
4) Vinyl chloride	4.536	62	16273	4.87 ug/L	98
5) 1,3-Butadiene	4.597	54	7605	4.91 ug/L	99
6) Bromomethane	4.950	94	4060	4.67 ug/L #	93
7) Chloroethane	5.092	64	7232	5.38 ug/L #	81
8) Trichlorofluoromethane	5.524	101	23246	4.74 ug/L	94
9) Acrolein	6.080	56	42575	98.62 ug/L	97
10) Trichlorotrifluoroethane	6.204	151	8870	4.84 ug/L	98
11) 1,1-Dichloroethene	6.239	61	20589	4.85 ug/L	94
12) Methylene chloride	6.795	84	17018	4.77 ug/L	92
13) Acrylonitrile	7.033	53	5806	4.72 ug/L	82
14) trans-1,2-Dichloroethene	7.112	61	19473	4.71 ug/L	89
15) n-Hexane	7.377	57	15538	4.49 ug/L	99
16) 1,1-Dichloroethane	7.545	63	24224	4.88 ug/L	95
17) Cyclohexane	8.674	84	18249	4.70 ug/L	93
18) 2,2-Dichloropropane	8.118	77	21712	4.86 ug/L	98
19) cis-1,2-Dichloroethene	8.101	96	16169	4.53 ug/L	97
20) Chloroform	8.365	83	27328	4.73 ug/L	96
21) Bromochloromethane	8.330	128	6834	4.73 ug/L	82
23) 1,1,1-Trichloroethane	8.586	97	22396	4.82 ug/L	93
24) Acetone	6.274	43	14710	10.65 ug/L	92
25) 2-Butanone	8.074	43	15369	10.71 ug/L	97
26) Carbon Disulfide	6.592	76	46051	4.97 ug/L	97
27) Iodomethane	6.468	142	15849	4.34 ug/L	98
28) Vinyl acetate	7.527	43	63642	4.48 ug/L	96
29) Methyl tert-butyl ether	7.095	73	34396	4.80 ug/L	99
31) 1,1-Dichloropropene	8.718	75	18513	5.04 ug/L	95
32) Carbon tetrachloride	8.745	117	15840	4.91 ug/L	96
33) 1,2-Dichloroethane	8.895	62	21476	4.60 ug/L	97
34) Benzene	8.913	78	49529	4.69 ug/L	98
35) 2,2,4-Trimethylpentane	8.939	57	42578	4.70 ug/L	97
36) n-Heptane	9.054	57	9511	4.71 ug/L	95
37) Trichloroethene	9.424	95	14233	4.62 ug/L	96

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032706.D
Acq On : 27 Mar 2014 12:27
Operator : JM
Sample : 5.0 PPB
Misc : ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 27 15:18:30 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

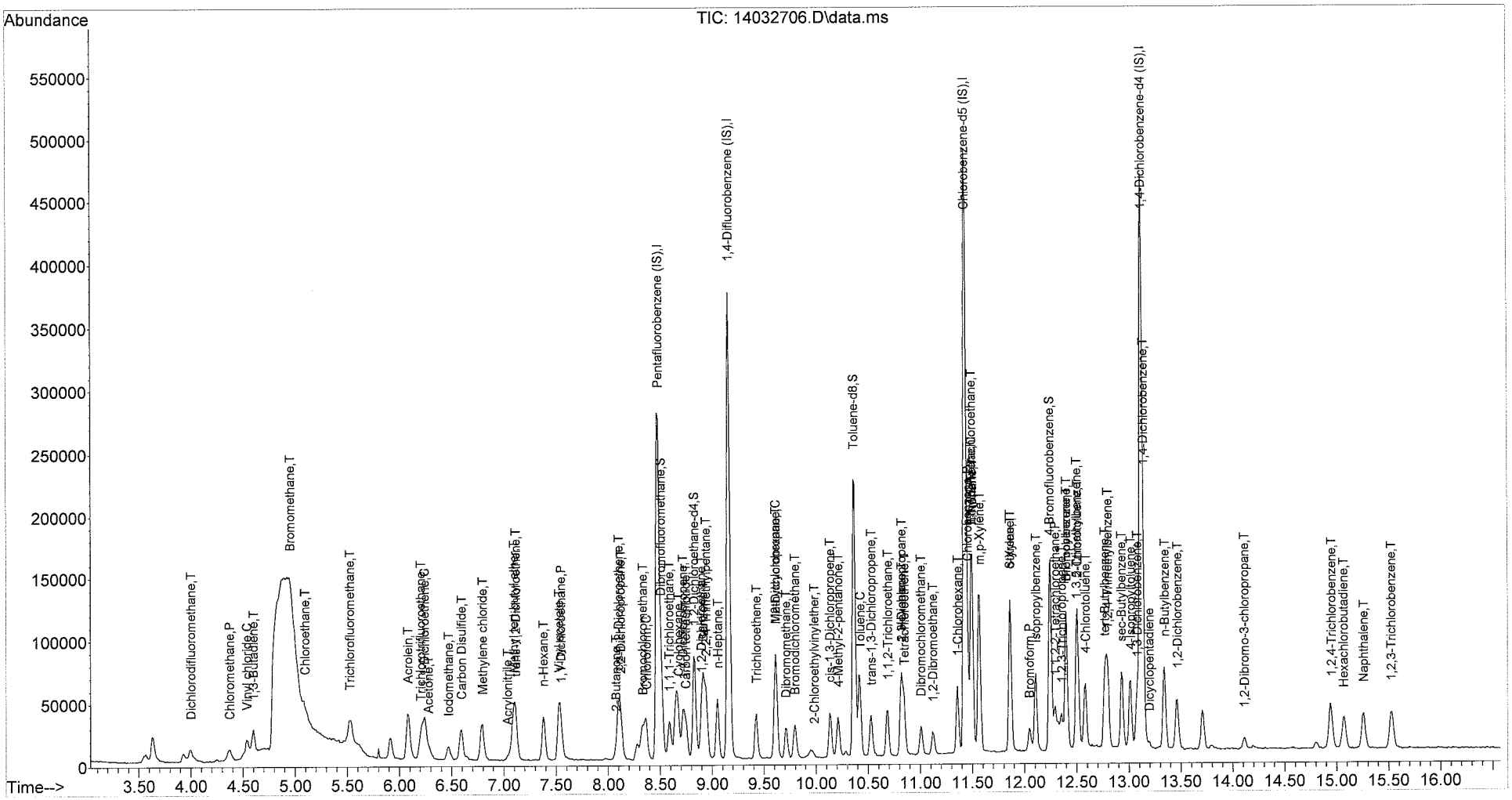
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.610	63	12748	4.95 ug/L	95
39) Bromodichloromethane	9.795	83	19674	4.64 ug/L	99
40) Methylcyclohexane	9.610	56	4652	4.22 ug/L	95
41) Dibromomethane	9.707	93	11327	4.52 ug/L	90
42) cis-1,3-Dichloropropene	10.130	75	21458	4.59 ug/L	95
43) 2-Chloroethylvinylether	9.980	63	1347	5.80 ug/L #	75
44) 4-Methyl-2-pentanone	10.210	43	26402	8.86 ug/L	96
48) Toluene	10.422	92	33252	4.61 ug/L	94
49) trans-1,3-Dichloropropene	10.527	75	18379	4.71 ug/L	96
50) 1,1,2-Trichloroethane	10.686	83	11962	5.04 ug/L	98
51) 1,3-Dichloropropane	10.819	76	21552	4.82 ug/L	97
52) Tetrachloroethene	10.845	166	13366	4.65 ug/L	94
53) Dibromochloromethane	11.004	129	11843	4.81 ug/L	97
54) 1,2-Dibromoethane	11.119	107	14463	4.64 ug/L	95
55) 1-Chlorohexane	11.357	91	19737	4.54 ug/L	96
56) Chlorobenzene	11.454	112	29397	4.87 ug/L	96
57) n-Nonane	11.498	57	19818	4.75 ug/L	96
58) 1,1,1,2-Tetrachloroethane	11.489	131	9926	4.69 ug/L	95
59) Ethylbenzene	11.489	91	60969	4.64 ug/L	99
60) m,p-Xylene	11.569	106	40516	9.00 ug/L	98
61) o-Xylene	11.860	106	19613	4.65 ug/L	99
62) Styrene	11.860	104	32991	4.32 ug/L	96
63) Isopropylbenzene	12.107	105	46446	4.65 ug/L	97
64) Bromoform	12.045	173	9601	5.05 ug/L	95
65) 1,1,2,2-Tetrachloroethane	12.292	83	19832	5.09 ug/L	98
67) 2-Hexanone	10.819	43	19264	10.38 ug/L	99
69) 1,2,3-Trichloropropane	12.354	110	4721	5.23 ug/L	82
70) n-Propylbenzene	12.398	91	63607	4.44 ug/L	98
71) Bromobenzene	12.398	156	13057	4.82 ug/L	96
72) 1,3,5-Trimethylbenzene	12.495	105	42322	4.36 ug/L	98
73) 2-Chlorotoluene	12.504	91	45504	4.88 ug/L	97
74) 4-Chlorotoluene	12.584	91	38537	4.98 ug/L	99
75) tert-Butylbenzene	12.769	119	31957	4.37 ug/L	98
76) 1,2,4-Trimethylbenzene	12.795	105	42719	4.37 ug/L	95
77) sec-Butylbenzene	12.928	105	52182	4.42 ug/L	99
78) 4-Isopropyltoluene	13.016	119	34501	4.32 ug/L	99
79) 1,3-Dichlorobenzene	13.078	146	22213	5.12 ug/L	98
80) 1,4-Dichlorobenzene	13.139	146	22882	5.01 ug/L #	89
81) Dicyclopentadiene	13.192	66	4845	5.06 ug/L	96
82) n-Butylbenzene	13.342	92	28795	4.37 ug/L	95
83) 1,2-Dichlorobenzene	13.466	146	20322	5.08 ug/L	96
84) 1,2-Dibromo-3-chloropr...	14.110	157	2811	5.58 ug/L	89
85) 1,2,4-Trichlorobenzene	14.948	180	17866	5.19 ug/L	94
86) Hexachlorobutadiene	15.063	190	4226	5.18 ug/L	95
87) Naphthalene	15.257	128	32725	5.23 ug/L	96
88) 1,2,3-Trichlorobenzene	15.522	180	16283	5.06 ug/L	93

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032706.D
Acq On : 27 Mar 2014 12:27
Operator : JM
Sample : 5.0 PPB
Misc : ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 27 15:18:30 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032707.D
Acq On : 27 Mar 2014 12:53
Operator : JM
Sample : 10 PPB
Misc : ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 27 15:18:38 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.481	168	206104	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.160	114	321165	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.428	117	276901	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.123	152	138315	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.516	113	83108	28.38 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 56.76%		
45) 1,2-Dichloroethane-d4	8.834	65	102123	29.34 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 58.68%		
46) Toluene-d8	10.369	98	254941	29.11 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 58.22%#		
66) 4-Bromofluorobenzene	12.249	95	108289	28.54 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 57.08%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.998	85	29873	9.90 ug/L	99
3) Chloromethane	4.369	50	30298	10.01 ug/L	99
4) Vinyl chloride	4.536	62	33847	9.81 ug/L	95
5) 1,3-Butadiene	4.607	54	14582	9.13 ug/L	97
6) Bromomethane	4.960	94	10562	11.78 ug/L #	87
7) Chloroethane	5.101	64	13687	9.88 ug/L	89
8) Trichlorofluoromethane	5.534	101	45966	9.08 ug/L	95
9) Acrolein	6.089	56	52248	117.33 ug/L	97
10) Trichlorotrifluoroethane	6.222	151	17794	9.59 ug/L	88
11) 1,1-Dichloroethene	6.248	61	40079	9.15 ug/L	94
12) Methylene chloride	6.795	84	33774	9.18 ug/L	99
13) Acrylonitrile	7.051	53	11012	8.67 ug/L	96
14) trans-1,2-Dichloroethene	7.122	61	40416	9.49 ug/L	91
15) n-Hexane	7.387	57	31846	8.91 ug/L	95
16) 1,1-Dichloroethane	7.545	63	47533	9.28 ug/L	96
17) Cyclohexane	8.675	84	37272	9.30 ug/L	98
18) 2,2-Dichloropropane	8.119	77	43648	9.47 ug/L	97
19) cis-1,2-Dichloroethene	8.101	96	33520	9.10 ug/L	94
20) Chloroform	8.366	83	56096	9.41 ug/L	98
21) Bromochloromethane	8.331	128	13367	8.97 ug/L	94
23) 1,1,1-Trichloroethane	8.596	97	45004	9.39 ug/L	99
24) Acetone	6.275	43	25610	19.42 ug/L	96
25) 2-Butanone	8.075	43	29117	18.70 ug/L	98
26) Carbon Disulfide	6.601	76	95750	9.67 ug/L	99
27) Iodomethane	6.478	142	35555	9.45 ug/L	99
28) Vinyl acetate	7.528	43	138360	9.44 ug/L	98
29) Methyl tert-butyl ether	7.095	73	68803	9.31 ug/L	99
31) 1,1-Dichloropropene	8.719	75	36559	9.70 ug/L	99
32) Carbon tetrachloride	8.754	117	31723	9.58 ug/L	96
33) 1,2-Dichloroethane	8.896	62	42243	9.89 ug/L	99
34) Benzene	8.913	78	104664	9.66 ug/L	99
35) 2,2,4-Trimethylpentane	8.949	57	87573	9.42 ug/L	97
36) n-Heptane	9.054	57	19676	9.50 ug/L	96
37) Trichloroethene	9.425	95	29993	9.49 ug/L	99

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032707.D
Acq On : 27 Mar 2014 12:53
Operator : JM
Sample : 10 PPB
Misc : ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 27 15:18:38 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

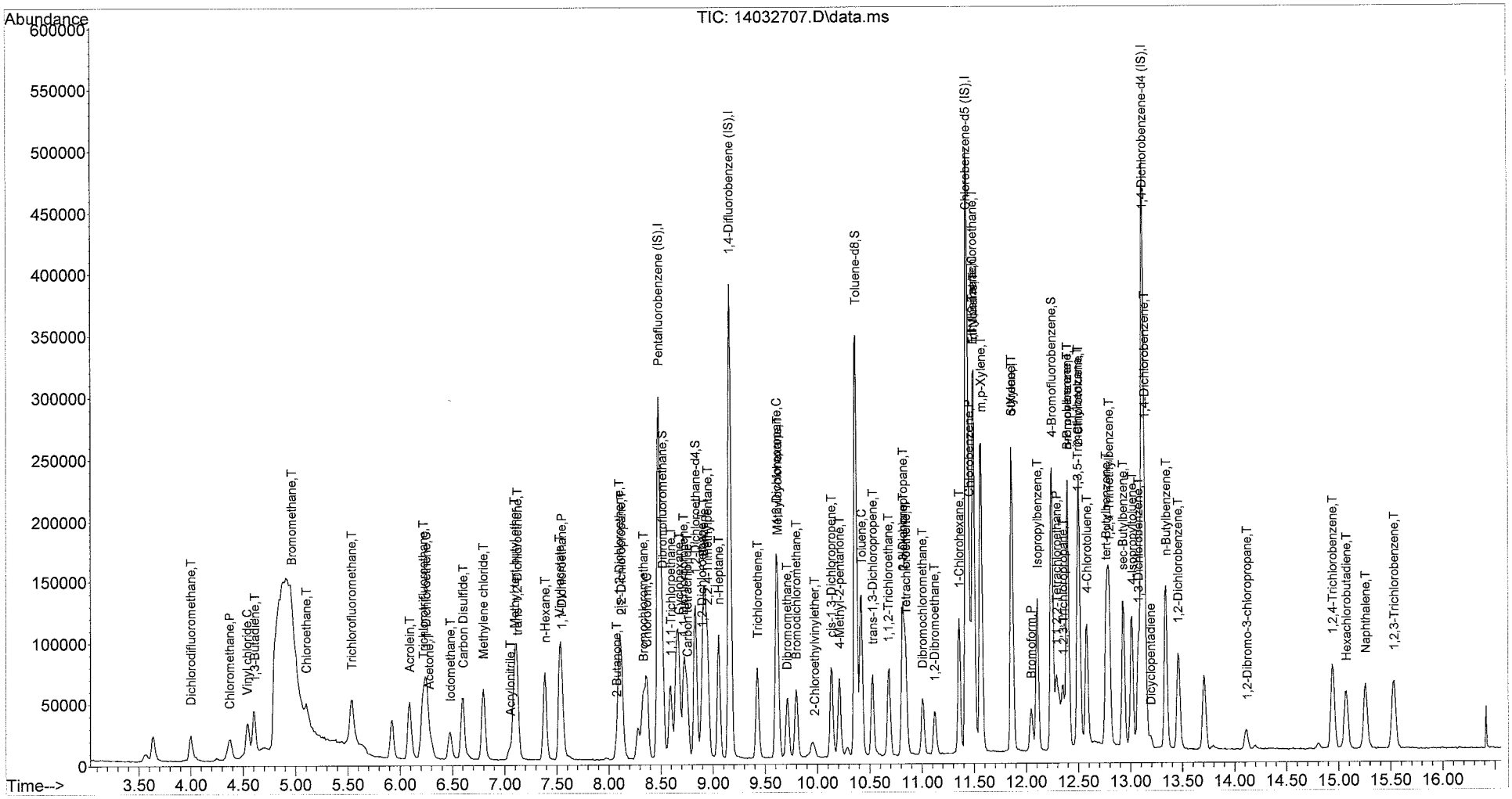
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.610	63	25030	9.65 ug/L	96
39) Bromodichloromethane	9.796	83	39867	9.70 ug/L	99
40) Methylcyclohexane	9.619	56	10417	9.22 ug/L	80
41) Dibromomethane	9.707	93	23452	9.75 ug/L	96
42) cis-1,3-Dichloropropene	10.131	75	43674	9.11 ug/L	98
43) 2-Chloroethylvinylether	9.972	63	2296	9.42 ug/L	88
44) 4-Methyl-2-pentanone	10.210	43	53843	17.60 ug/L	99
48) Toluene	10.422	92	67123	9.40 ug/L	99
49) trans-1,3-Dichloropropene	10.528	75	36768	9.54 ug/L	97
50) 1,1,2-Trichloroethane	10.678	83	22240	9.76 ug/L	95
51) 1,3-Dichloropropane	10.819	76	42969	10.05 ug/L	93
52) Tetrachloroethene	10.846	166	26607	9.95 ug/L	97
53) Dibromochloromethane	11.005	129	24501	10.01 ug/L	99
54) 1,2-Dibromoethane	11.119	107	28149	9.12 ug/L	97
55) 1-Chlorohexane	11.358	91	39643	9.21 ug/L	99
56) Chlorobenzene	11.455	112	59728	10.01 ug/L	98
57) n-Nonane	11.499	57	36924	8.94 ug/L	98
58) 1,1,1,2-Tetrachloroethane	11.490	131	19965	9.93 ug/L	99
59) Ethylbenzene	11.490	91	122274	9.40 ug/L	99
60) m,p-Xylene	11.569	106	81953	18.40 ug/L	95
61) o-Xylene	11.861	106	38664	9.25 ug/L	98
62) Styrene	11.861	104	68637	9.09 ug/L	98
63) Isopropylbenzene	12.108	105	95588	9.56 ug/L	98
64) Bromoform	12.046	173	18531	9.65 ug/L	96
65) 1,1,2,2-Tetrachloroethane	12.293	83	35976	9.63 ug/L	95
67) 2-Hexanone	10.819	43	37501	19.32 ug/L	99
69) 1,2,3-Trichloropropane	12.355	110	8933	9.51 ug/L	95
70) n-Propylbenzene	12.399	91	126804	8.90 ug/L	98
71) Bromobenzene	12.399	156	27209	10.01 ug/L	99
72) 1,3,5-Trimethylbenzene	12.496	105	85893	8.89 ug/L	99
73) 2-Chlorotoluene	12.505	91	90416	9.62 ug/L	96
74) 4-Chlorotoluene	12.584	91	76778	9.42 ug/L	98
75) tert-Butylbenzene	12.770	119	64111	8.81 ug/L	100
76) 1,2,4-Trimethylbenzene	12.796	105	86160	8.85 ug/L	99
77) sec-Butylbenzene	12.928	105	104478	8.89 ug/L	99
78) 4-Isopropyltoluene	13.017	119	70499	8.87 ug/L	98
79) 1,3-Dichlorobenzene	13.078	146	42932	9.90 ug/L	98
80) 1,4-Dichlorobenzene	13.140	146	45801	9.90 ug/L	92
81) Dicyclopentadiene	13.193	66	9984	9.51 ug/L	99
82) n-Butylbenzene	13.343	92	57737	8.80 ug/L	97
83) 1,2-Dichlorobenzene	13.458	146	38885	9.56 ug/L	94
84) 1,2-Dibromo-3-chloropr...	14.120	157	4997	9.05 ug/L	95
85) 1,2,4-Trichlorobenzene	14.940	180	33962	9.59 ug/L	96
86) Hexachlorobutadiene	15.073	190	7591	9.41 ug/L	93
87) Naphthalene	15.258	128	60054	9.09 ug/L	98
88) 1,2,3-Trichlorobenzene	15.532	180	30613	9.43 ug/L	94

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032707.D
Acq On : 27 Mar 2014 12:53
Operator : JM
Sample : 10 PPB
Misc : ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 27 15:18:38 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032708.D
Acq On : 27 Mar 2014 13:19
Operator : JM
Sample : 20 PPB
Misc : ICAL
ALS Vial : 10 Sample Multiplier: 1

JM 4/1/14

Quant Time: Mar 27 15:18:46 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.480	168	199226	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.160	114	313690	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.428	117	278783	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.122	152	133195	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.516	113	138125	48.79 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 97.58%		
45) 1,2-Dichloroethane-d4	8.833	65	169036	49.72 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 99.44%		
46) Toluene-d8	10.369	98	426085	49.81 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 99.62%		
66) 4-Bromofluorobenzene	12.248	95	183086	47.93 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 95.86%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.998	85	58281	20.95 ug/L	100
3) Chloromethane	4.377	50	61192	21.38 ug/L	100
4) Vinyl chloride	4.545	62	65484	19.64 ug/L	100
5) 1,3-Butadiene	4.606	54	29624	19.19 ug/L	100
6) Bromomethane	4.959	94	18548	21.40 ug/L	100
7) Chloroethane	5.109	64	25614	19.13 ug/L	100
8) Trichlorofluoromethane	5.533	101	94414	19.29 ug/L	100
9) Acrolein	6.089	56	63385	147.26 ug/L	100
10) Trichlorotrifluoroethane	6.221	151	36224	20.41 ug/L	100
11) 1,1-Dichloroethene	6.248	61	80923	19.12 ug/L	100
12) Methylene chloride	6.795	84	67415	18.96 ug/L	100
13) Acrylonitrile	7.042	53	22979	18.72 ug/L	100
14) trans-1,2-Dichloroethene	7.113	61	80447	19.54 ug/L	100
15) n-Hexane	7.386	57	64197	18.59 ug/L	100
16) 1,1-Dichloroethane	7.545	63	94989	19.19 ug/L	100
17) Cyclohexane	8.675	84	75613	19.53 ug/L	100
18) 2,2-Dichloropropane	8.119	77	84805	19.04 ug/L	100
19) cis-1,2-Dichloroethene	8.101	96	68141	19.14 ug/L	100
20) Chloroform	8.366	83	111670	19.39 ug/L	100
21) Bromochloromethane	8.330	128	27730	19.25 ug/L	100
23) 1,1,1-Trichloroethane	8.595	97	89712	19.36 ug/L	100
24) Acetone	6.274	43	49003	40.53 ug/L	100
25) 2-Butanone	8.074	43	60319	38.74 ug/L	100
26) Carbon Disulfide	6.592	76	190304	19.50 ug/L	100
27) Iodomethane	6.477	142	75429	20.73 ug/L	100
28) Vinyl acetate	7.527	43	294555	20.79 ug/L	100
29) Methyl tert-butyl ether	7.095	73	140391	19.65 ug/L	100
31) 1,1-Dichloropropene	8.719	75	73907	20.07 ug/L	100
32) Carbon tetrachloride	8.754	117	64104	19.82 ug/L	100
33) 1,2-Dichloroethane	8.895	62	83290	21.16 ug/L	100
34) Benzene	8.913	78	202075	19.10 ug/L	100
35) 2,2,4-Trimethylpentane	8.948	57	179960	19.82 ug/L	100
36) n-Heptane	9.054	57	39673	19.61 ug/L	100
37) Trichloroethene	9.425	95	59222	19.19 ug/L	100

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032708.D
Acq On : 27 Mar 2014 13:19
Operator : JM
Sample : 20 PPB
Misc : ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 27 15:18:46 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

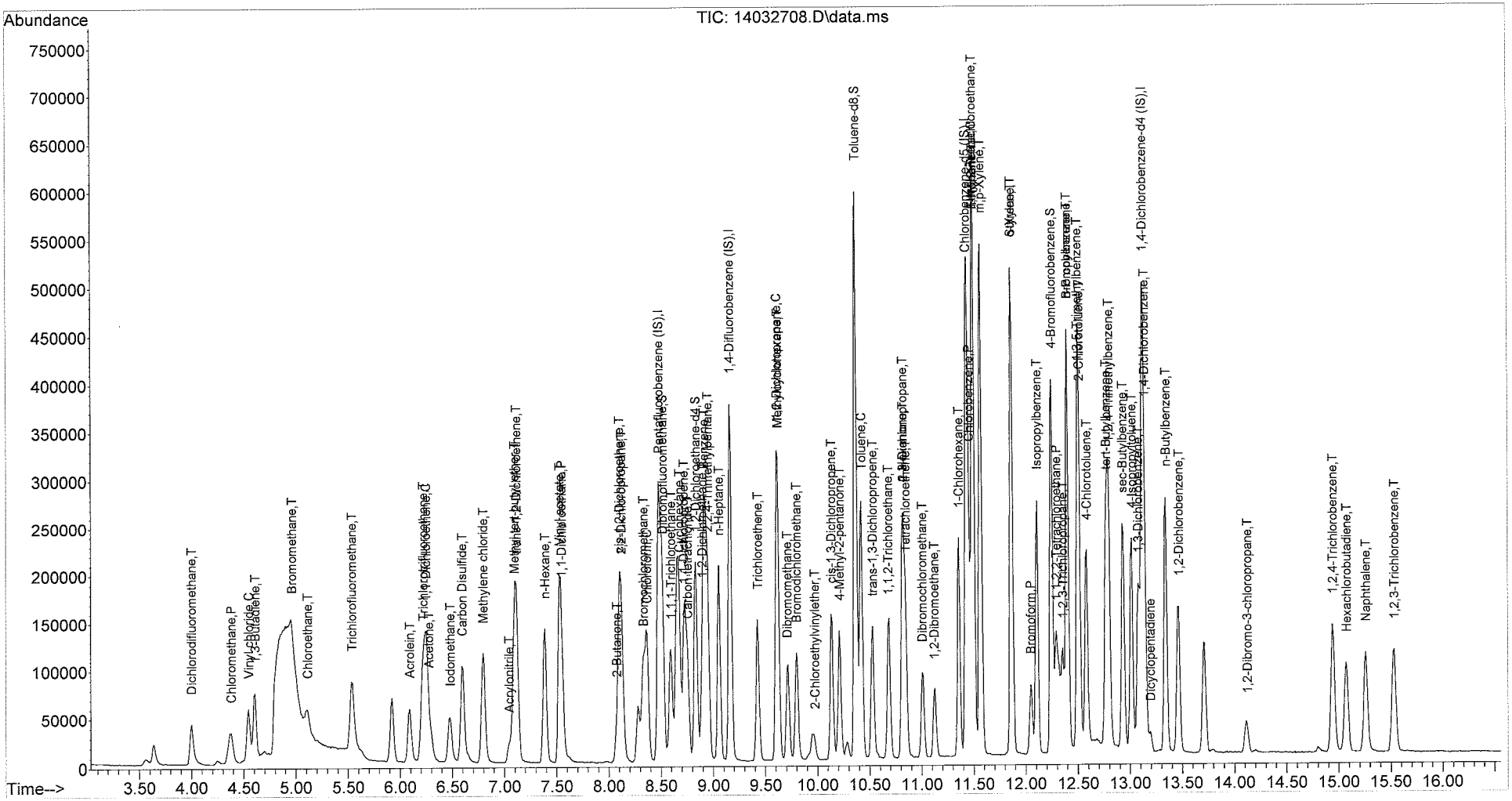
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.610	63	50345	20.08 ug/L	100
39) Bromodichloromethane	9.795	83	80857	20.74 ug/L	100
40) Methylcyclohexane	9.619	56	21634	19.60 ug/L	100
41) Dibromomethane	9.707	93	47966	21.10 ug/L	100
42) cis-1,3-Dichloropropene	10.131	75	90428	19.32 ug/L	100
43) 2-Chloroethylvinylether	9.972	63	5590	22.05 ug/L	100
44) 4-Methyl-2-pentanone	10.210	43	110873	37.11 ug/L	100
48) Toluene	10.422	92	134924	18.77 ug/L	100
49) trans-1,3-Dichloropropene	10.528	75	78025	20.13 ug/L	100
50) 1,1,2-Trichloroethane	10.678	83	45017	19.95 ug/L	100
51) 1,3-Dichloropropane	10.819	76	86321	20.39 ug/L	100
52) Tetrachloroethene	10.845	166	53970	20.65 ug/L	100
53) Dibromochloromethane	11.004	129	49527	20.07 ug/L	100
54) 1,2-Dibromoethane	11.119	107	58083	18.69 ug/L	100
55) 1-Chlorohexane	11.357	91	84314	19.45 ug/L	100
56) Chlorobenzene	11.454	112	118593	19.75 ug/L	100
57) n-Nonane	11.498	57	76241	18.34 ug/L	100
58) 1,1,1,2-Tetrachloroethane	11.490	131	40028	20.15 ug/L	100
59) Ethylbenzene	11.490	91	250108	19.10 ug/L	100
60) m,p-Xylene	11.569	106	171561	38.27 ug/L	100
61) o-Xylene	11.860	106	78900	18.76 ug/L	100
62) Styrene	11.860	104	146938	19.33 ug/L	100
63) Isopropylbenzene	12.107	105	203522	20.12 ug/L	100
64) Bromoform	12.045	173	38024	19.43 ug/L	100
65) 1,1,2,2-Tetrachloroethane	12.293	83	76089	20.62 ug/L	100
67) 2-Hexanone	10.819	43	77798	38.61 ug/L	100
69) 1,2,3-Trichloropropane	12.354	110	18342	19.73 ug/L	100
70) n-Propylbenzene	12.398	91	259526	18.91 ug/L	100
71) Bromobenzene	12.398	156	53057	20.20 ug/L	100
72) 1,3,5-Trimethylbenzene	12.496	105	174547	18.76 ug/L	100
73) 2-Chlorotoluene	12.513	91	184111	20.20 ug/L	100
74) 4-Chlorotoluene	12.584	91	159126	19.63 ug/L	100
75) tert-Butylbenzene	12.769	119	131943	18.82 ug/L	100
76) 1,2,4-Trimethylbenzene	12.796	105	176205	18.80 ug/L	100
77) sec-Butylbenzene	12.928	105	212830	18.80 ug/L	100
78) 4-Isopropyltoluene	13.016	119	144602	18.90 ug/L	100
79) 1,3-Dichlorobenzene	13.078	146	84340	20.16 ug/L	100
80) 1,4-Dichlorobenzene	13.140	146	87108	19.36 ug/L	100
81) Dicyclopentadiene	13.193	66	20194	18.99 ug/L	100
82) n-Butylbenzene	13.343	92	117162	18.54 ug/L	100
83) 1,2-Dichlorobenzene	13.466	146	79301	19.97 ug/L	100
84) 1,2-Dibromo-3-chloropr...	14.119	157	11206	19.53 ug/L	100
85) 1,2,4-Trichlorobenzene	14.940	180	65281	18.78 ug/L	100
86) Hexachlorobutadiene	15.072	190	14653	18.96 ug/L	100
87) Naphthalene	15.258	128	121469	18.35 ug/L	100
88) 1,2,3-Trichlorobenzene	15.531	180	58193	18.48 ug/L	100

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032708.D
Acq On : 27 Mar 2014 13:19
Operator : JM
Sample : 20 PPB
Misc : ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 27 15:18:46 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032709.D
Acq On : 27 Mar 2014 13:45
Operator : JM
Sample : 40 PPB
Misc : ICAL
ALS Vial : 11 Sample Multiplier: 1

JM 4/1/14

Quant Time: Mar 27 15:18:53 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.476	168	210538	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.165	114	333476	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.433	117	295573	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.118	152	142494	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.512	113	203022	67.86 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 135.72%		
45) 1,2-Dichloroethane-d4	8.829	65	236708	65.50 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 131.00%		
46) Toluene-d8	10.365	98	644956	70.92 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 141.84%#		
66) 4-Bromofluorobenzene	12.245	95	282750	69.81 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 139.62%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.994	85	117875	40.96 ug/L	98
3) Chloromethane	4.364	50	114660	38.25 ug/L	97
4) Vinyl chloride	4.541	62	127076	36.06 ug/L	99
5) 1,3-Butadiene	4.594	54	57852	35.46 ug/L	97
6) Bromomethane	4.947	94	36442	39.78 ug/L	92
7) Chloroethane	5.097	64	48696	34.41 ug/L	98
8) Trichlorofluoromethane	5.529	101	204168	39.47 ug/L	95
9) Acrolein	6.094	56	77167	169.64 ug/L	95
10) Trichlorotrifluoroethane	6.217	151	75131	40.24 ug/L	89
11) 1,1-Dichloroethene	6.244	61	166400	37.20 ug/L	96
12) Methylene chloride	6.800	84	138590	36.88 ug/L	96
13) Acrylonitrile	7.038	53	47474	36.61 ug/L	96
14) trans-1,2-Dichloroethene	7.118	61	166745	38.32 ug/L	94
15) n-Hexane	7.382	57	144994	39.73 ug/L	100
16) 1,1-Dichloroethane	7.550	63	196915	37.64 ug/L	96
17) Cyclohexane	8.671	84	165156	40.36 ug/L	88
18) 2,2-Dichloropropane	8.123	77	174679	37.11 ug/L	98
19) cis-1,2-Dichloroethene	8.097	96	145769	38.74 ug/L	98
20) Chloroform	8.362	83	228490	37.53 ug/L	99
21) Bromochloromethane	8.326	128	55964	36.77 ug/L	98
23) 1,1,1-Trichloroethane	8.591	97	188179	38.43 ug/L	98
24) Acetone	6.270	43	96213	77.11 ug/L	98
25) 2-Butanone	8.071	43	127850	76.54 ug/L	99
26) Carbon Disulfide	6.597	76	410024	39.39 ug/L	99
27) Iodomethane	6.473	142	168336	43.78 ug/L	97
28) Vinyl acetate	7.523	43	621073	41.48 ug/L	99
29) Methyl tert-butyl ether	7.091	73	297712	39.43 ug/L	99
31) 1,1-Dichloropropene	8.724	75	158697	40.53 ug/L	96
32) Carbon tetrachloride	8.750	117	135591	39.44 ug/L	99
33) 1,2-Dichloroethane	8.891	62	171432	42.05 ug/L	99
34) Benzene	8.918	78	433683	38.55 ug/L	98
35) 2,2,4-Trimethylpentane	8.944	57	401615	41.61 ug/L	97
36) n-Heptane	9.050	57	89541	41.62 ug/L	98
37) Trichloroethene	9.421	95	130384	39.74 ug/L	97

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032709.D
Acq On : 27 Mar 2014 13:45
Operator : JM
Sample : 40 PPB
Misc : ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 27 15:18:53 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

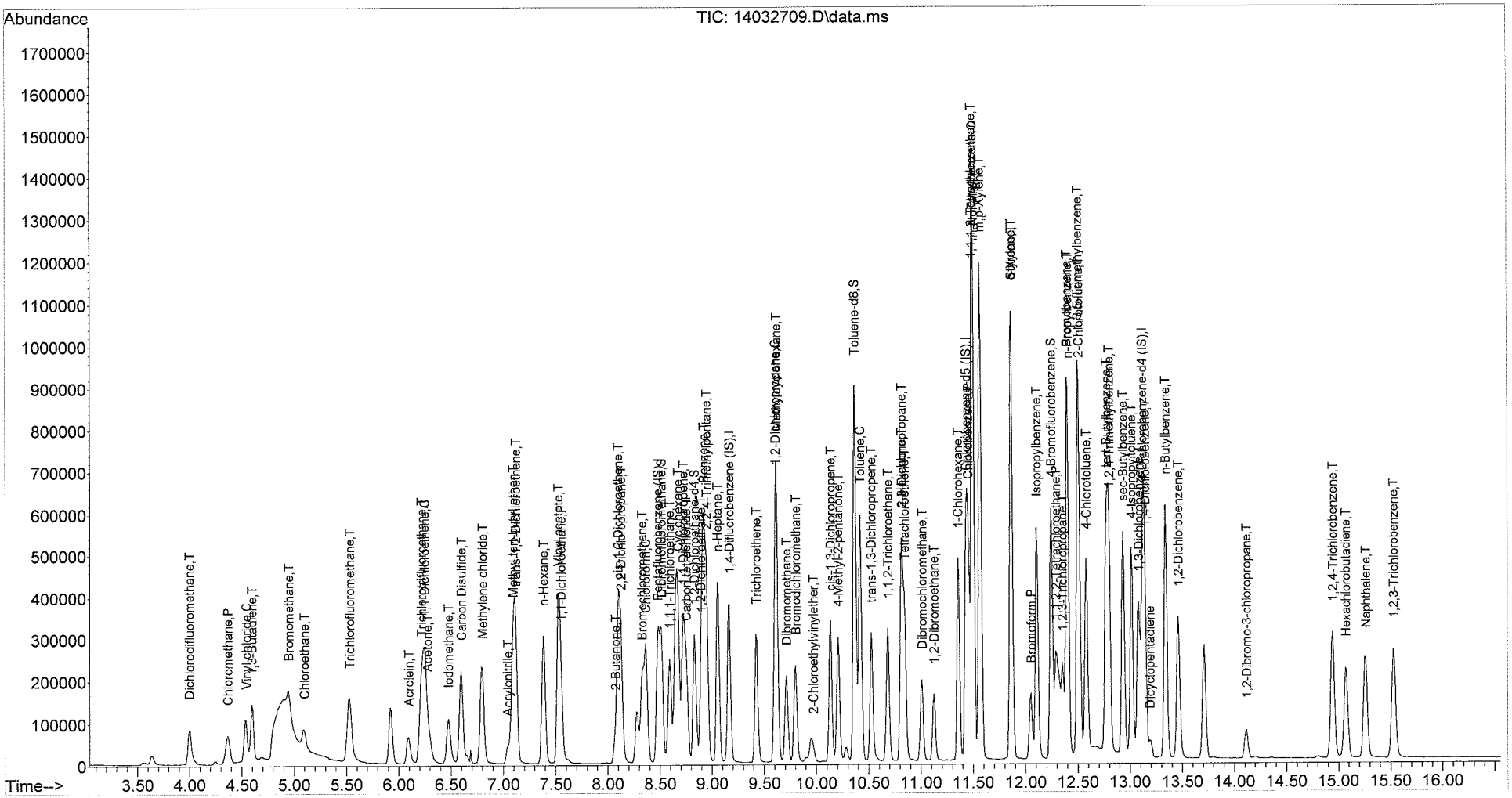
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.606	63	107587	40.55 ug/L	95
39) Bromodichloromethane	9.800	83	167327	40.91 ug/L	99
40) Methylcyclohexane	9.615	56	47115	40.15 ug/L	98
41) Dibromomethane	9.712	93	97228	40.80 ug/L	91
42) cis-1,3-Dichloropropene	10.135	75	193297	38.84 ug/L	97
43) 2-Chloroethylvinylether	9.968	63	10263	35.80 ug/L	90
44) 4-Methyl-2-pentanone	10.206	43	243745	76.75 ug/L	99
48) Toluene	10.418	92	291331	38.22 ug/L	99
49) trans-1,3-Dichloropropene	10.524	75	166092	40.42 ug/L	97
50) 1,1,2-Trichloroethane	10.683	83	95833	40.38 ug/L	97
51) 1,3-Dichloropropane	10.815	76	179446	40.29 ug/L	95
52) Tetrachloroethene	10.841	166	112876	41.31 ug/L	97
53) Dibromochloromethane	11.009	129	103570	39.56 ug/L	98
54) 1,2-Dibromoethane	11.124	107	122909	37.31 ug/L	99
55) 1-Chlorohexane	11.353	91	186048	40.49 ug/L	98
56) Chlorobenzene	11.450	112	255012	40.07 ug/L	99
57) n-Nonane	11.503	57	183465	41.62 ug/L	94
58) 1,1,1,2-Tetrachloroethane	11.486	131	84758	40.62 ug/L	98
59) Ethylbenzene	11.494	91	530970	38.24 ug/L	98
60) m,p-Xylene	11.565	106	366588	77.12 ug/L	98
61) o-Xylene	11.865	106	169269	37.95 ug/L	98
62) Styrene	11.865	104	319999	39.70 ug/L	97
63) Isopropylbenzene	12.103	105	435834	40.53 ug/L	98
64) Bromoform	12.050	173	83047	39.79 ug/L	98
65) 1,1,2,2-Tetrachloroethane	12.289	83	153653	39.60 ug/L	97
67) 2-Hexanone	10.815	43	168136	77.52 ug/L	99
69) 1,2,3-Trichloropropane	12.350	110	39346	39.09 ug/L	94
70) n-Propylbenzene	12.403	91	570846	38.88 ug/L	98
71) Bromobenzene	12.395	156	110008	39.08 ug/L	91
72) 1,3,5-Trimethylbenzene	12.500	105	387078	38.88 ug/L	99
73) 2-Chlorotoluene	12.509	91	389130	39.78 ug/L	99
74) 4-Chlorotoluene	12.580	91	345018	39.21 ug/L	100
75) tert-Butylbenzene	12.774	119	291802	38.90 ug/L	95
76) 1,2,4-Trimethylbenzene	12.800	105	387824	38.67 ug/L	99
77) sec-Butylbenzene	12.933	105	476990	39.38 ug/L	99
78) 4-Isopropyltoluene	13.012	119	327779	40.05 ug/L	98
79) 1,3-Dichlorobenzene	13.083	146	176801	39.45 ug/L	98
80) 1,4-Dichlorobenzene	13.145	146	191411	39.58 ug/L	96
81) Dicyclopentadiene	13.189	66	45866	39.30 ug/L	96
82) n-Butylbenzene	13.339	92	264210	39.08 ug/L	95
83) 1,2-Dichlorobenzene	13.462	146	167364	39.17 ug/L	97
84) 1,2-Dibromo-3-chloropr...	14.115	157	23508	37.17 ug/L	95
85) 1,2,4-Trichlorobenzene	14.945	180	151217	40.23 ug/L	96
86) Hexachlorobutadiene	15.068	190	34093	41.33 ug/L	92
87) Naphthalene	15.262	128	289704	40.08 ug/L	100
88) 1,2,3-Trichlorobenzene	15.527	180	138729	40.99 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032709.D
Acq On : 27 Mar 2014 13:45
Operator : JM
Sample : 40 PPB
Misc : ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 27 15:18:53 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032710.D
Acq On : 27 Mar 2014 14:11
Operator : JM
Sample : 80 PPB
Misc : ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 27 15:19:02 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	8.476	168	207500	50.00	ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.165	114	344129	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.433	117	305677	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.127	152	141421	50.00	ug/L	0.00
System Monitoring Compounds						
22) Dibromofluoromethane	8.512	113	262667	89.08	ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 178.16%#			
45) 1,2-Dichloroethane-d4	8.829	65	296866	79.60	ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 159.20%#			
46) Toluene-d8	10.365	98	843113	89.84	ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 179.68%#			
66) 4-Bromofluorobenzene	12.244	95	381368	91.05	ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 182.10%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.002	85	228442	81.46	ug/L	97
3) Chloromethane	4.364	50	239587	81.57	ug/L	99
4) Vinyl chloride	4.541	62	254075	73.15	ug/L	99
5) 1,3-Butadiene	4.602	54	116921	72.72	ug/L	97
6) Bromomethane	4.947	94	67609	74.88	ug/L	93
7) Chloroethane	5.097	64	101564	72.82	ug/L	94
8) Trichlorofluoromethane	5.529	101	406552	79.75	ug/L	96
9) Acrolein	6.094	56	103756	231.43	ug/L	97
10) Trichlorotrifluoroethane	6.217	151	147437	80.32	ug/L	86
11) 1,1-Dichloroethene	6.253	61	333737	75.70	ug/L	94
12) Methylene chloride	6.800	84	280354	75.69	ug/L	98
13) Acrylonitrile	7.047	53	100839	78.89	ug/L	99
14) trans-1,2-Dichloroethene	7.117	61	338508	78.92	ug/L	94
15) n-Hexane	7.382	57	298090	82.87	ug/L	97
16) 1,1-Dichloroethane	7.550	63	403140	78.19	ug/L	98
17) Cyclohexane	8.671	84	334289	82.89	ug/L	83
18) 2,2-Dichloropropane	8.123	77	345616	74.51	ug/L	98
19) cis-1,2-Dichloroethene	8.106	96	295865	79.78	ug/L	99
20) Chloroform	8.362	83	450988	75.17	ug/L	99
21) Bromochloromethane	8.335	128	112495	74.99	ug/L	95
23) 1,1,1-Trichloroethane	8.591	97	371464	76.97	ug/L	99
24) Acetone	6.270	43	198453	163.70	ug/L	98
25) 2-Butanone	8.070	43	266055	160.32	ug/L	96
26) Carbon Disulfide	6.597	76	831155	80.65	ug/L	98
27) Iodomethane	6.473	142	345334	91.13	ug/L	98
28) Vinyl acetate	7.523	43	1301106	88.16	ug/L	99
29) Methyl tert-butyl ether	7.091	73	603698	81.12	ug/L	98
31) 1,1-Dichloropropene	8.723	75	319832	79.16	ug/L	97
32) Carbon tetrachloride	8.750	117	272048	76.67	ug/L	98
33) 1,2-Dichloroethane	8.900	62	333985	80.43	ug/L	98
34) Benzene	8.918	78	878160	75.65	ug/L	97
35) 2,2,4-Trimethylpentane	8.944	57	822563	82.58	ug/L	96
36) n-Heptane	9.059	57	183851	82.82	ug/L	97
37) Trichloroethene	9.421	95	264368	78.08	ug/L	95

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032710.D
Acq On : 27 Mar 2014 14:11
Operator : JM
Sample : 80 PPB
Misc : ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 27 15:19:02 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

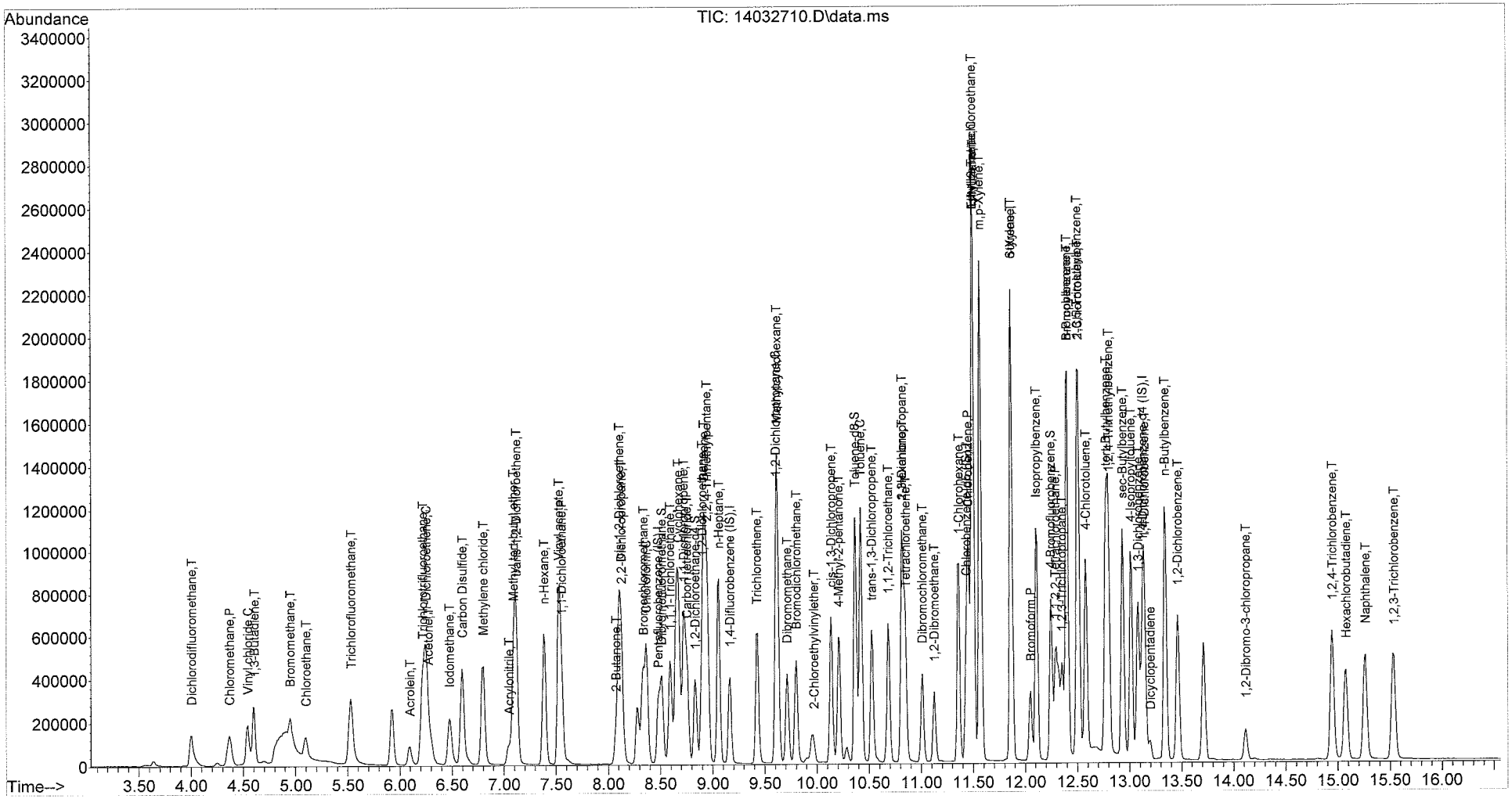
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.606	63	217773	79.72 ug/L	94
39) Bromodichloromethane	9.800	83	339281	80.91 ug/L	99
40) Methylcyclohexane	9.615	56	94747	78.24 ug/L	96
41) Dibromomethane	9.712	93	196214	80.39 ug/L	93
42) cis-1,3-Dichloropropene	10.135	75	395471	77.01 ug/L	96
43) 2-Chloroethylvinylether	9.968	63	29743	83.48 ug/L	90
44) 4-Methyl-2-pentanone	10.206	43	514441	156.97 ug/L	98
48) Toluene	10.418	92	590151	74.87 ug/L	100
49) trans-1,3-Dichloropropene	10.524	75	340362	80.11 ug/L	98
50) 1,1,2-Trichloroethane	10.682	83	194753	79.67 ug/L	95
51) 1,3-Dichloropropane	10.815	76	362238	78.96 ug/L	97
52) Tetrachloroethene	10.850	166	221187	78.81 ug/L	98
53) Dibromochloromethane	11.009	129	215743	79.65 ug/L	98
54) 1,2-Dibromoethane	11.124	107	252557	74.13 ug/L	98
55) 1-Chlorohexane	11.362	91	373719	78.64 ug/L	96
56) Chlorobenzene	11.450	112	517262	78.59 ug/L	99
57) n-Nonane	11.503	57	359740	78.91 ug/L	93
58) 1,1,1,2-Tetrachloroethane	11.494	131	171269	79.73 ug/L	98
59) Ethylbenzene	11.494	91	1072781	74.70 ug/L	98
60) m,p-Xylene	11.565	106	736428	149.81 ug/L	97
61) o-Xylene	11.865	106	341552	74.05 ug/L	96
62) Styrene	11.865	104	651783	78.19 ug/L	97
63) Isopropylbenzene	12.103	105	883427	79.34 ug/L	97
64) Bromoform	12.050	173	172227	79.57 ug/L	98
65) 1,1,2,2-Tetrachloroethane	12.289	83	316062	79.11 ug/L	98
67) 2-Hexanone	10.815	43	354070	156.66 ug/L	98
69) 1,2,3-Trichloropropane	12.350	110	77830	77.43 ug/L	94
70) n-Propylbenzene	12.403	91	1147644	78.75 ug/L	98
71) Bromobenzene	12.403	156	221507	79.22 ug/L	97
72) 1,3,5-Trimethylbenzene	12.500	105	776684	78.61 ug/L	100
73) 2-Chlorotoluene	12.509	91	768373	79.02 ug/L	99
74) 4-Chlorotoluene	12.580	91	700580	79.64 ug/L	99
75) tert-Butylbenzene	12.774	119	595491	79.99 ug/L	96
76) 1,2,4-Trimethylbenzene	12.800	105	788397	79.21 ug/L	99
77) sec-Butylbenzene	12.933	105	965375	80.30 ug/L	99
78) 4-Isopropyltoluene	13.012	119	657013	80.89 ug/L	98
79) 1,3-Dichlorobenzene	13.083	146	344427	77.40 ug/L	98
80) 1,4-Dichlorobenzene	13.144	146	382955	79.60 ug/L	96
81) Dicyclopentadiene	13.197	66	91540	78.11 ug/L	97
82) n-Butylbenzene	13.339	92	532373	79.34 ug/L	93
83) 1,2-Dichlorobenzene	13.462	146	335691	78.91 ug/L	96
84) 1,2-Dibromo-3-chloropr...	14.115	157	50267	78.74 ug/L	96
85) 1,2,4-Trichlorobenzene	14.945	180	296753	79.18 ug/L	97
86) Hexachlorobutadiene	15.077	190	65351	79.91 ug/L	96
87) Naphthalene	15.262	128	587536	81.20 ug/L	99
88) 1,2,3-Trichlorobenzene	15.536	180	272866	81.10 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032710.D
Acq On : 27 Mar 2014 14:11
Operator : JM
Sample : 80 PPB
Misc : ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 27 15:19:02 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032711.D
Acq On : 27 Mar 2014 14:37
Operator : JM
Sample : 100 PPB
Misc : ICAL
ALS Vial : 13 Sample Multiplier: 1

JM 4/1/14

Quant Time: Mar 27 15:19:10 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	8.479	168	210571	50.00	ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.167	114	345356	50.00	ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.435	117	300393	50.00	ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.121	152	136264	50.00	ug/L	0.00
System Monitoring Compounds						
22) Dibromofluoromethane	8.488	113	671	0.22	ug/L	-0.03
Spiked Amount 50.000	Range 52 - 140		Recovery = 0.44%#			
45) 1,2-Dichloroethane-d4	8.894	65	18897	5.05	ug/L	0.06
Spiked Amount 50.000	Range 54 - 133		Recovery = 10.10%#			
46) Toluene-d8	10.368	98	2531	0.27	ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 0.54%#			
66) 4-Bromofluorobenzene	12.291	95	58552	14.22	ug/L	0.04
Spiked Amount 50.000	Range 62 - 123		Recovery = 28.44%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.996	85	279152	98.29	ug/L	98
3) Chloromethane	4.376	50	295338	99.17	ug/L	97
4) Vinyl chloride	4.543	62	326632	92.67	ug/L	99
5) 1,3-Butadiene	4.605	54	153885	94.32	ug/L	93
6) Bromomethane	4.949	94	81384	88.82	ug/L	91
7) Chloroethane	5.099	64	131684	93.04	ug/L	92
8) Trichlorofluoromethane	5.532	101	518205	100.17	ug/L	97
9) Acrolein	6.088	56	235862	518.43	ug/L	98
10) Trichlorotrifluoroethane	6.220	151	185466	99.61	ug/L	89
11) 1,1-Dichloroethene	6.247	61	419429	93.75	ug/L	96
12) Methylene chloride	6.794	84	350507	93.25	ug/L	100
13) Acrylonitrile	7.041	53	129531	99.86	ug/L	98
14) trans-1,2-Dichloroethene	7.120	61	424359	97.50	ug/L	90
15) n-Hexane	7.385	57	389653	106.74	ug/L	98
16) 1,1-Dichloroethane	7.553	63	504071	96.34	ug/L	97
17) Cyclohexane	8.673	84	428992	104.82	ug/L	94
18) 2,2-Dichloropropane	8.126	77	427862	90.89	ug/L	98
19) cis-1,2-Dichloroethene	8.100	96	373043	99.12	ug/L	99
20) Chloroform	8.364	83	558164	91.67	ug/L	99
21) Bromochloromethane	8.329	128	141295	92.82	ug/L	97
23) 1,1,1-Trichloroethane	8.594	97	463049	94.55	ug/L	99
24) Acetone	6.273	43	243195	198.12	ug/L	97
25) 2-Butanone	8.073	43	339774	201.45	ug/L	98
26) Carbon Disulfide	6.600	76	1045140	99.85	ug/L	98
27) Iodomethane	6.476	142	412282	107.22	ug/L	98
28) Vinyl acetate	7.526	43	1659940	110.83	ug/L	99
29) Methyl tert-butyl ether	7.094	73	761098	100.78	ug/L	98
31) 1,1-Dichloropropene	8.726	75	403601	99.54	ug/L	95
32) Carbon tetrachloride	8.753	117	337568	94.80	ug/L	98
33) 1,2-Dichloroethane	8.894	62	410018	98.65	ug/L	99
34) Benzene	8.920	78	1105778	94.92	ug/L	97
35) 2,2,4-Trimethylpentane	8.947	57	1024393	102.48	ug/L	95
36) n-Heptane	9.053	57	231880	104.08	ug/L	97
37) Trichloroethene	9.423	95	330687	97.32	ug/L	97

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032711.D
Acq On : 27 Mar 2014 14:37
Operator : JM
Sample : 100 PPB
Misc : ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 27 15:19:10 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

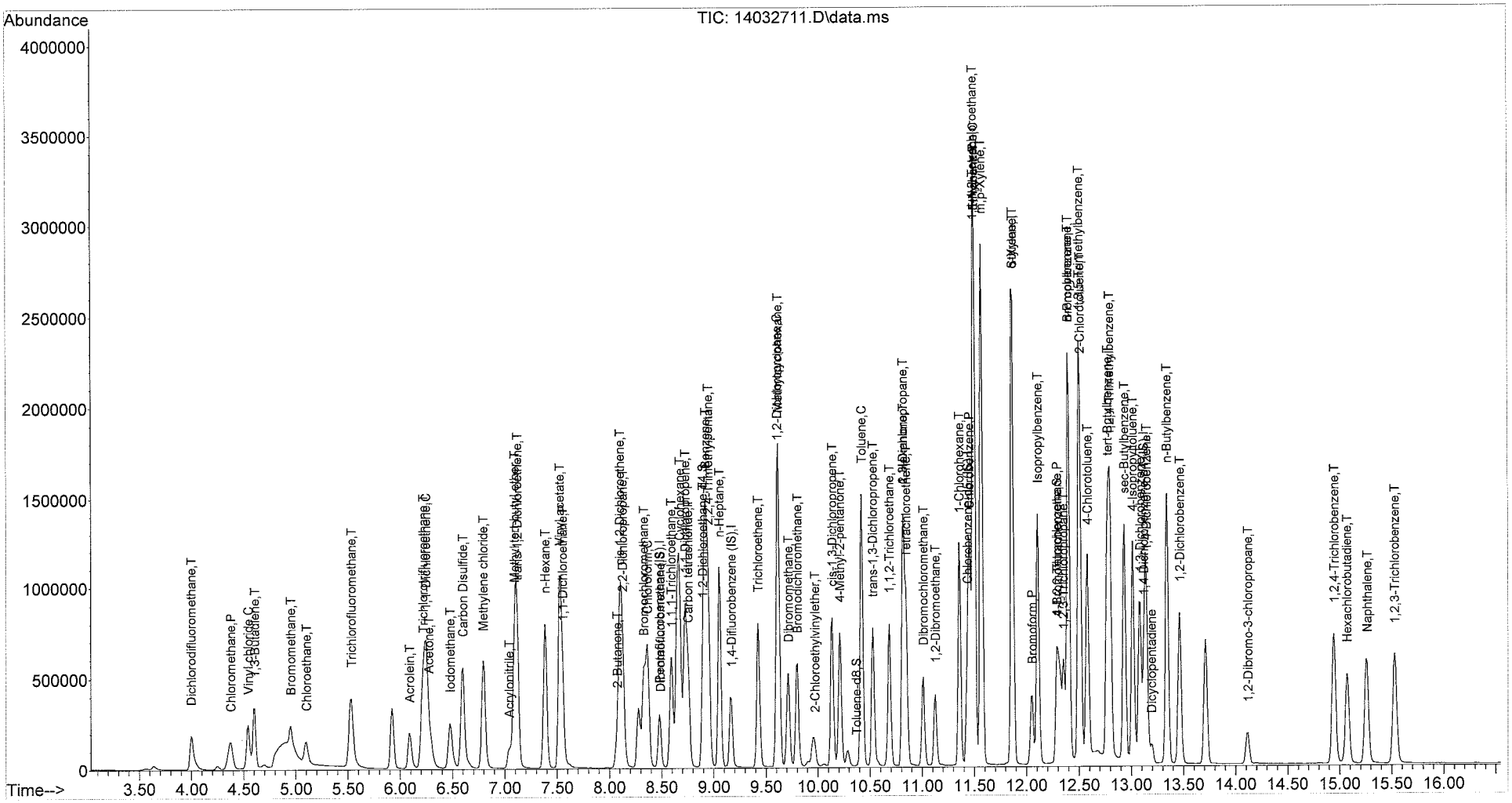
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.609	63	274117	100.03 ug/L	94
39) Bromodichloromethane	9.803	83	415292	98.81 ug/L	99
40) Methylcyclohexane	9.617	56	120821	99.42 ug/L	92
41) Dibromomethane	9.715	93	242652	99.20 ug/L	92
42) cis-1,3-Dichloropropene	10.138	75	492974	95.65 ug/L	95
43) 2-Chloroethylvinylether	9.970	63	37042	98.39 ug/L	85
44) 4-Methyl-2-pentanone	10.209	43	642676	195.40 ug/L	98
48) Toluene	10.421	92	739277	95.44 ug/L	99
49) trans-1,3-Dichloropropene	10.526	75	416534	99.77 ug/L	99
50) 1,1,2-Trichloroethane	10.685	83	240381	100.15 ug/L	95
51) 1,3-Dichloropropane	10.818	76	453298	100.64 ug/L	99
52) Tetrachloroethene	10.844	166	276230	100.32 ug/L	95
53) Dibromochloromethane	11.012	129	267402	100.45 ug/L	97
54) 1,2-Dibromoethane	11.126	107	319357	95.39 ug/L	99
55) 1-Chlorohexane	11.356	91	473303	101.35 ug/L	98
56) Chlorobenzene	11.453	112	654230	101.15 ug/L	98
57) n-Nonane	11.497	57	406914	90.82 ug/L	94
58) 1,1,1,2-Tetrachloroethane	11.488	131	210816	99.96 ug/L	99
59) Ethylbenzene	11.497	91	1327377	94.05 ug/L	97
60) m,p-Xylene	11.568	106	912907	188.97 ug/L	98
61) o-Xylene	11.868	106	426165	94.02 ug/L	94
62) Styrene	11.868	104	814701	99.45 ug/L	96
63) Isopropylbenzene	12.106	105	1098451	100.36 ug/L	97
64) Bromoform	12.053	173	214030	100.57 ug/L	98
65) 1,1,2,2-Tetrachloroethane	12.291	83	395310	100.78 ug/L	98
67) 2-Hexanone	10.818	43	453766	203.96 ug/L	97
69) 1,2,3-Trichloropropane	12.353	110	99424	102.50 ug/L	99
70) n-Propylbenzene	12.397	91	1422310	101.29 ug/L	98
71) Bromobenzene	12.397	156	272057	100.96 ug/L	92
72) 1,3,5-Trimethylbenzene	12.503	105	970577	101.95 ug/L	99
73) 2-Chlorotoluene	12.512	91	945364	100.87 ug/L	100
74) 4-Chlorotoluene	12.583	91	854987	100.73 ug/L	100
75) tert-Butylbenzene	12.777	119	739663	103.12 ug/L	92
76) 1,2,4-Trimethylbenzene	12.794	105	980409	102.23 ug/L	99
77) sec-Butylbenzene	12.935	105	1213562	104.77 ug/L	98
78) 4-Isopropyltoluene	13.015	119	822557	105.10 ug/L	99
79) 1,3-Dichlorobenzene	13.085	146	438562	102.27 ug/L	97
80) 1,4-Dichlorobenzene	13.147	146	466662	100.62 ug/L	95
81) Dicyclopentadiene	13.191	66	115527	102.03 ug/L	96
82) n-Butylbenzene	13.341	92	666231	103.04 ug/L	94
83) 1,2-Dichlorobenzene	13.465	146	415290	101.25 ug/L	97
84) 1,2-Dibromo-3-chloropr...	14.118	157	63130	102.28 ug/L	97
85) 1,2,4-Trichlorobenzene	14.947	180	364450	100.83 ug/L	98
86) Hexachlorobutadiene	15.071	190	78619	99.79 ug/L	96
87) Naphthalene	15.265	128	694055	99.40 ug/L	99
88) 1,2,3-Trichlorobenzene	15.530	180	321310	99.08 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032711.D
Acq On : 27 Mar 2014 14:37
Operator : JM
Sample : 100 PPB
Misc : ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 27 15:19:10 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032714.D
Acq On : 27 Mar 2014 15:55
Operator : JM
Sample : ICV
Misc : SECOND SOURCE
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 28 11:21:36 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.481	168	219922	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.170	114	355701	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.438	117	307428	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.123	152	144435	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.517	113	151509	48.48 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 96.96%		
45) 1,2-Dichloroethane-d4	8.834	65	173563	45.02 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 90.04%		
46) Toluene-d8	10.370	98	485130	50.01 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 100.02%		
66) 4-Bromofluorobenzene	12.249	95	200486	47.59 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 95.18%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.999	85	55141	17.82 ug/L	97
3) Chloromethane	4.369	50	56787	17.91 ug/L	98
4) Vinyl chloride	4.546	62	63062	17.13 ug/L	98
5) 1,3-Butadiene	4.607	54	29231	17.15 ug/L	94
6) Bromomethane	4.960	94	21398	22.36 ug/L	94
7) Chloroethane	5.110	64	25998	17.59 ug/L	99
8) Trichlorofluoromethane	5.543	101	95518	17.68 ug/L	98
9) Acrolein	6.099	56	43713	92.00 ug/L	97
10) Trichlorotrifluoroethane	6.222	151	36416	18.57 ug/L	83
11) 1,1-Dichloroethene	6.258	61	81828	17.51 ug/L	96
12) Methylene chloride	6.805	84	69895	17.80 ug/L	96
13) Acrylonitrile	7.043	53	23539	17.38 ug/L	100
14) trans-1,2-Dichloroethene	7.122	61	81858	18.01 ug/L	92
15) n-Hexane	7.387	57	71042	18.63 ug/L	99
16) 1,1-Dichloroethane	7.555	63	98232	17.98 ug/L	99
17) Cyclohexane	8.676	84	81155	18.99 ug/L	90
18) 2,2-Dichloropropane	8.128	77	81271	16.53 ug/L	97
19) cis-1,2-Dichloroethene	8.102	96	72805	18.52 ug/L	99
20) Chloroform	8.367	83	110447	17.37 ug/L	98
21) Bromochloromethane	8.331	128	27862	17.52 ug/L	96
23) 1,1,1-Trichloroethane	8.596	97	91382	17.87 ug/L	97
24) Acetone	6.275	43	47118	35.03 ug/L	95
25) 2-Butanone	8.084	43	63408	36.95 ug/L	98
26) Carbon Disulfide	6.602	76	200722	18.65 ug/L	98
27) Iodomethane	6.478	142	63078	15.71 ug/L	97
28) Vinyl acetate	7.528	43	301320	19.26 ug/L	99
29) Methyl tert-butyl ether	7.096	73	141196	17.90 ug/L	98
31) 1,1-Dichloropropene	8.728	75	75693	18.13 ug/L	94
32) Carbon tetrachloride	8.755	117	65617	17.89 ug/L	99
33) 1,2-Dichloroethane	8.905	62	81763	18.16 ug/L	96
34) Benzene	8.923	78	216198	18.02 ug/L	97
35) 2,2,4-Trimethylpentane	8.949	57	196104	19.05 ug/L	97
36) n-Heptane	9.055	57	44254	19.29 ug/L	97
37) Trichloroethene	9.426	95	63617	18.18 ug/L	96

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032714.D
Acq On : 27 Mar 2014 15:55
Operator : JM
Sample : ICV
Misc : SECOND SOURCE
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 28 11:21:36 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration

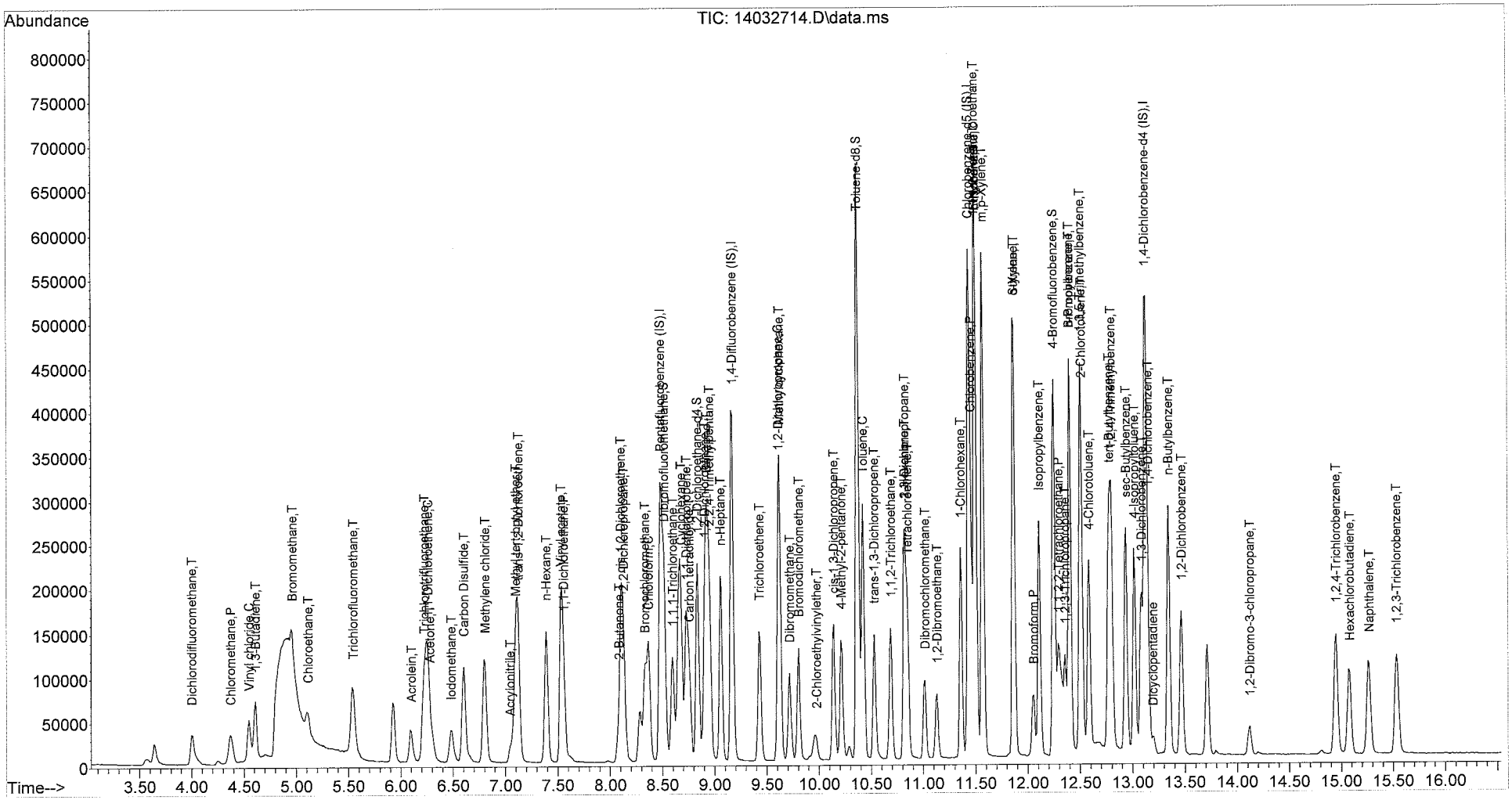
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.611	63	53325	18.74 ug/L	97
39) Bromodichloromethane	9.805	83	84287	19.03 ug/L	97
40) Methylcyclohexane	9.620	56	22105	17.66 ug/L	90
41) Dibromomethane	9.717	93	47515	18.36 ug/L	94
42) cis-1,3-Dichloropropene	10.140	75	93226	17.56 ug/L	93
43) 2-Chloroethylvinylether	9.973	63	6876	23.73 ug/L	95
44) 4-Methyl-2-pentanone	10.211	43	115087	33.97 ug/L	99
48) Toluene	10.423	92	142034	17.92 ug/L	98
49) trans-1,3-Dichloropropene	10.529	75	77907	18.22 ug/L	99
50) 1,1,2-Trichloroethane	10.687	83	46454	18.65 ug/L	93
51) 1,3-Dichloropropane	10.820	76	88262	18.88 ug/L	97
52) Tetrachloroethene	10.846	166	55048	19.06 ug/L	96
53) Dibromochloromethane	11.014	129	48986	18.01 ug/L	95
54) 1,2-Dibromoethane	11.129	107	59383	17.33 ug/L	99
55) 1-Chlorohexane	11.358	91	88592	18.54 ug/L	97
56) Chlorobenzene	11.455	112	124312	18.77 ug/L	99
57) n-Nonane	11.499	57	79523	17.34 ug/L	93
58) 1,1,1,2-Tetrachloroethane	11.491	131	40833	18.61 ug/L	98
59) Ethylbenzene	11.499	91	261943	18.14 ug/L	99
60) m,p-Xylene	11.570	106	177215	35.84 ug/L	97
61) o-Xylene	11.870	106	82486	17.78 ug/L	93
62) Styrene	11.870	104	149810	17.87 ug/L	95
63) Isopropylbenzene	12.108	105	205142	18.39 ug/L	98
64) Bromoform	12.055	173	37947	17.60 ug/L	98
65) 1,1,2,2-Tetrachloroethane	12.294	83	75644	18.56 ug/L	96
67) 2-Hexanone	10.820	43	79262	35.76 ug/L	99
69) 1,2,3-Trichloropropane	12.355	110	19499	19.35 ug/L	95
70) n-Propylbenzene	12.399	91	269249	18.09 ug/L	99
71) Bromobenzene	12.399	156	53163	18.67 ug/L	94
72) 1,3,5-Trimethylbenzene	12.505	105	182192	18.06 ug/L	99
73) 2-Chlorotoluene	12.514	91	182649	18.49 ug/L	99
74) 4-Chlorotoluene	12.585	91	161833	18.44 ug/L	100
75) tert-Butylbenzene	12.779	119	136362	17.94 ug/L	94
76) 1,2,4-Trimethylbenzene	12.797	105	184617	18.16 ug/L	98
77) sec-Butylbenzene	12.938	105	224032	18.25 ug/L	99
78) 4-Isopropyltoluene	13.017	119	151092	18.21 ug/L	98
79) 1,3-Dichlorobenzene	13.088	146	85382	18.82 ug/L	96
80) 1,4-Dichlorobenzene	13.149	146	90382	18.54 ug/L	97
81) Dicyclopentadiene	13.194	66	20651	17.96 ug/L	97
82) n-Butylbenzene	13.344	92	123015	17.95 ug/L	97
83) 1,2-Dichlorobenzene	13.467	146	79126	18.40 ug/L	96
84) 1,2-Dibromo-3-chloropr...	14.120	157	10914	17.66 ug/L	95
85) 1,2,4-Trichlorobenzene	14.950	180	67804	18.00 ug/L	94
86) Hexachlorobutadiene	15.082	190	15695	18.73 ug/L	91
87) Naphthalene	15.267	128	126249	17.61 ug/L	100
88) 1,2,3-Trichlorobenzene	15.532	180	61247	17.94 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140327\
Data File : 14032714.D
Acq On : 27 Mar 2014 15:55
Operator : JM
Sample : ICV
Misc : SECOND SOURCE
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 28 11:21:36 2014
Quant Method : H:\VOA\A228\METHODS\140327.M
Quant Title : 8260B_S
QLast Update : Thu Mar 27 15:11:05 2014
Response via : Initial Calibration



Initial Calibration Verification

ICV
3/27/2014 15:55

14032714.D
GCMS 10

Name	Spike	Conc.	%Rec	LCL	UCL	
Pentafluorobenzene (IS)	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
Dichlorodifluoromethane	20	17.82	89	37	170	
Chloromethane	20	17.91	90	61	149	
Vinyl chloride	20	17.13	86	53	150	
1,3-Butadiene	20	17.15	86	70	130	
Bromomethane	20	22.36	112	41	170	
Chloroethane	20	17.59	88	57	150	
Trichlorofluoromethane	20	17.68	88	64	125	
Acrolein	100	92.00	92	70	130	
Trichlorotrifluoroethane	20	18.57	93	69	131	
1,1-Dichloroethene	20	17.51	88	70	130	
Methylene chloride	20	17.80	89	70	130	
Acrylonitrile	20	17.38	87	70	130	
trans-1,2-Dichloroethene	20	18.01	90	70	130	
n-Hexane	20	18.63	93	70	130	
1,1-Dichloroethane	20	17.98	90	70	130	
Cyclohexane	20	18.99	95	70	130	
2,2-Dichloropropane	20	16.53	83	70	130	
cis-1,2-Dichloroethene	20	18.52	93	70	130	
Chloroform	20	17.37	87	70	130	
Bromochloromethane	20	17.52	88	65	116	
Dibromofluoromethane	50	48.48	97	70	130	
1,1,1-Trichloroethane	20	17.87	89	67	112	
Acetone	40	35.03	88	69	139	
2-Butanone	40	36.95	92	70	130	
Carbon Disulfide	20	18.65	93	59	170	
Iodomethane	20	15.71	79	61	139	
Vinyl acetate	20	19.26	96	61	151	
Methyl tert-butyl ether	20	17.90	90	70	130	
1,4-Difluorobenzene (IS)	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
1,1-Dichloropropene	20	18.13	91	70	130	
Carbon tetrachloride	20	17.89	89	70	130	
1,2-Dichloroethane	20	18.16	91	70	130	
Benzene	20	18.02	90	70	130	
2,2,4-Trimethylpentane	20	19.05	95	70	130	
n-Heptane	20	19.29	96	70	130	
Trichloroethene	20	18.18	91	70	130	
1,2-Dichloropropane	20	18.74	94	70	130	
Bromodichloromethane	20	19.03	95	70	130	
Methylcyclohexane	20	17.66	88	70	130	
Dibromomethane	20	18.36	92	69	111	
cis-1,3-Dichloropropene	20	17.56	88	70	130	
2-Chloroethylvinylether	20	23.73	119	48	165	
4-Methyl-2-pentanone	40	33.97	85	70	130	
1,2-Dichloroethane-d4	50	45.02	90	70	130	

Toluene-d8	50	50.01	100	70	130	
Chlorobenzene-d5 (IS)	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
Toluene	20	18.22	91	70	130	
trans-1,3-Dichloropropene	20	18.22	91	70	130	
1,1,2-Trichloroethane	20	18.65	93	69	114	
1,3-Dichloropropane	20	18.88	94	70	130	
Tetrachloroethene	20	19.06	95	67	116	
Dibromochloromethane	20	18.01	90	70	130	
1,2-Dibromoethane	20	17.33	87	70	130	
1-Chlorohexane	20	18.54	93	70	130	
Chlorobenzene	20	18.77	94	70	130	
n-Nonane	20	17.34	87	70	130	
1,1,1,2-Tetrachloroethane	20	18.61	93	70	130	
Ethylbenzene	20	18.14	91	70	130	
m,p-Xylene	40	35.84	90	70	130	
o-Xylene	20	17.78	89	70	130	
Styrene	20	17.87	89	70	130	
Isopropylbenzene	20	18.39	92	70	130	
Bromoform	20	17.60	88	70	130	
1,1,2,2-Tetrachloroethane	20	18.56	93	70	130	
4-Bromofluorobenzene	50	47.59	95	70	130	
2-Hexanone	40	35.76	89	70	130	
1,4-Dichlorobenzene-d4 (IS)	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
1,2,3-Trichloropropane	20	19.35	97	70	130	
n-Propylbenzene	20	18.09	90	70	130	
Bromobenzene	20	18.67	93	70	130	
1,3,5-Trimethylbenzene	20	18.06	90	70	130	
2-Chlorotoluene	20	18.49	92	70	130	
4-Chlorotoluene	20	18.44	92	70	130	
tert-Butylbenzene	20	17.94	90	70	130	
1,2,4-Trimethylbenzene	20	18.16	91	70	130	
sec-Butylbenzene	20	18.25	91	70	130	
4-Isopropyltoluene	20	18.21	91	70	130	
1,3-Dichlorobenzene	20	18.82	94	70	130	
1,4-Dichlorobenzene	20	18.54	93	70	130	
Dicyclopentadiene	20	17.96	90	70	130	
n-Butylbenzene	20	17.95	90	70	130	
1,2-Dichlorobenzene	20	18.40	92	70	130	
1,2-Dibromo-3-chloropropane	20	17.66	88	66	114	
1,2,4-Trichlorobenzene	20	18.00	90	70	130	
Hexachlorobutadiene	20	18.73	94	70	130	

Method 8260B

Run ID 140329 **Date of Run 3/29/14** **Analyst JM** **Page # 12**

Acquisition Method **SC8260**

Standard IDs			**Syringe IDs:**
Primary Std.	Std Prep Log ID	**GCMSVOA-6079**	**V-126**
Internal Std.	Std Prep Log ID	**GCMSVOA-6078**	V-029
Surrogate Std.	Std Prep Log ID	**GCMSVOA-6077**	V-024
BFB Std.	Std Prep Log ID	**GCMSVOA-6077**	V-024
Secondary Spike	Std Prep Log ID	**GCMSVOA-6076**	V-126

Standards Preparation

Name	**Secondary Standard (Working)** (µL)	**Surrogate (Working)** (µL)	**Acrolein** (µL)	**Internal Standard** (µL)	**Final Volume** (mL)
BFB	--	2	--	10	5
ICV	10	10	1	10	

Curve Dilutions

Primary Standard (Working)	**Surrogate (Working)**	**Methanol**	**Acrolein (500ppm)**	**Internal Standard**	**Conc µg/L**
0.25 µL	0.5 µL	99 µL	0.5 µL	10 µL	0.5
0.50 µL	1 µL	98.5 µL	0.75 µL	10 µL	1
2.5 µL	4 µL	93.5 µL	1.0 µL	10 µL	5
5 µL	6 µL	89 µL	1.25 µL	10 µL	10
10µL	10 µL	80 µL	1.5 µL	10 µL	20
20µL	14 µL	66 µL	1.75 µL	10 µL	40
40 µL	18 µL	42 µL	2.25 µL	10 µL	80
50 µL	--	50 µL	5.0 µL	10 µL	100

VOA-004-Inst10Curve RV1
Create a book by attaching a copy of the injection Log and number it in consecutive order up to 100

Injection Log

13

Directory: h:\voa\a228\140329

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	7	14032901.d	1.	BFB	TUNE CHECK	29 Mar 14 16:13
2	8	14032902.d	1.	CCV	CCV	29 Mar 14 16:39
3	9	14032903.d	1.	IB	BLANK	29 Mar 14 17:16
4	10	14032904.d	1.	0.5 PPB	ICAL	29 Mar 14 17:42
5	11	14032905.d	1.	1.0 PPB	ICAL	29 Mar 14 18:07
6	12	14032906.d	1.	5.0 PPB	ICAL	29 Mar 14 18:33
7	13	14032907.d	1.	10 PPB	ICAL	29 Mar 14 18:58
8	14	14032908.d	1.	20 PPB	ICAL	29 Mar 14 19:24
9	15	14032909.d	1.	40 PPB	ICAL	29 Mar 14 19:50
10	16	14032910.d	1.	80 PPB	ICAL	29 Mar 14 20:16
11	1	14032911.d	1.	100 PPB	ICAL	29 Mar 14 20:42
12	3	14032912.d	1.	IB	BLANK	29 Mar 14 21:08
13	4	14032913.d	1.	IB	BLANK	29 Mar 14 21:33
14	5	14032914.d	1.	ICV	SECOND SOURCE	29 Mar 14 22:00
15	6	14032915.d	1.	LCSV	TERTIARY STD	29 Mar 14 22:25
16		14032916.d	1.			

3/30/14

GC/MS QA-QC Check Report

Tune File : H:\VOA\A228\140329\14032901.D
Tune Time : 29 Mar 2014 16:13

Daily Calibration File : H:\VOA\A228\140329\14032908.D

4/1/14

369812 651678 567525

264140

File	Sample	Surrogate Recovery %				Internal Standard Responses		
No Quant Results for H:\VOA\A228\140329\14032902.D								
14032903.D	IB	96	90	95	92	342047	611392	536908
			247558					
14032904.D	0.5 PPB	6*	6*	6*	9*	381210	663356	565127
			258430					
14032905.D	1.0 PPB	10*	10*	10*	11*	374175	659073	586064
			269492					
14032906.D	5.0 PPB	39*	39*	39*	38*	357355	627791	560368
			252122					
14032907.D	10 PPB	55	57	53*	55*	358459	633226	555411
			257562					
14032908.D	20 PPB	98	97	97	97	369812	651678	567525
			264140					
14032909.D	40 PPB	138	136*	140*	141*	366544	644182	566430
			266982					
14032910.D	80 PPB	179*	170*	178*	182*	368023	653436	581534
			260508					
14032911.D	100 PPB	0*	10*	0*	28*	382707	679053	600049
			267300					
14032912.D	IB	96	91	97	92	375204	664138	573146
			264394					
14032913.D	IB	96	95	98	89	338601	591514	533786
			242515					
14032914.D	ICV	99	98	101	98	367722	646924	579190
			263539					
14032915.D	LCSV	101	98	100	101	371187	658665	567071
			262572					

SURR= ICAL

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

Created: Sun Mar 30 17:44:13 2014 GCMS 10

Calibration Status Report GCMS 10

Method Path : H:\VOA\A228\METHODS\
Method File : 140329.M
Title : 8260B_S
Last Update : Sun Mar 30 16:02:31 2014
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	20	20	50	H:\VOA\A228\140329\14032908.D
2	0.5	1	50	H:\VOA\A228\140329\14032904.D
3	1.0	1	50	H:\VOA\A228\140329\14032905.D
4	5.0	5	50	H:\VOA\A228\140329\14032906.D
5	10	10	50	H:\VOA\A228\140329\14032907.D
6	40	40	50	H:\VOA\A228\140329\14032909.D
7	80	80	50	H:\VOA\A228\140329\14032910.D
8	100	100	50	H:\VOA\A228\140329\14032911.D

#	ID	Update Time	Quant Time	Acquisition Time
1	20	Mar 30 15:47 2014	Mar 30 15:45 2014	29 Mar 2014 19:24
2	0.5	Mar 30 15:54 2014	Mar 30 15:53 2014	29 Mar 2014 17:42
3	1.0	Mar 30 15:52 2014	Mar 30 15:51 2014	29 Mar 2014 18:07
4	5.0	Mar 30 15:51 2014	Mar 30 15:50 2014	29 Mar 2014 18:33
5	10	Mar 30 15:50 2014	Mar 30 15:49 2014	29 Mar 2014 18:58
6	40	Mar 30 15:48 2014	Mar 30 15:47 2014	29 Mar 2014 19:50
7	80	Mar 30 15:48 2014	Mar 30 15:48 2014	29 Mar 2014 20:16
8	100	Mar 30 15:49 2014	Mar 30 15:48 2014	29 Mar 2014 20:42

140329.M Sun Mar 30 17:39:00 2014

Calibration Table Report
Method: 140329.M
Title: 8260B_S
Last Calibration: Sun Mar 30 16:02:31 2014

9/11/14

Calibration Files

Compound	20 14032908.D	0.5 14032904.D	1 14032905.D	5 14032906.D	10 14032907.D	40 14032909.D	80 14032910.D	100 14032911.D	Avg	%RSD	
Pentafluorobenzene (IS)	ISTD										
Dichlorodifluoromethane	0.795	0.859	0.795	0.801	0.775	0.773	0.766	0.741	0.788	4.404	
Chloromethane	1.055	1.284	1.247	1.081	1.069	1.045	1.058	0.941	1.098	10.270	
Vinyl chloride	0.975	0.978	0.988	0.982	0.972	0.954	0.925	0.906	0.960	3.084	
1,3-Butadiene	0.442	0.476	0.465	0.459	0.436	0.425	0.411	0.409	0.440	5.622	
Bromomethane	0.164	0.415	0.335	0.202	0.174	0.132	0.120	0.117	0.207	52.784	L=0.996
Chloroethane	0.315	0.571	0.414	0.370	0.319	0.286	0.284	0.273	0.354	28.206	L=0.999
Trichlorofluoromethane	1.275	1.343	1.248	1.267	1.260	1.261	1.268	1.230	1.269	2.614	
Acrolein	0.133	0.136	0.134	0.139	0.134	0.132	0.130	0.132	0.134	1.965	
Trichlorotrifluoroethane	0.431	0.496	0.441	0.427	0.424	0.427	0.426	0.415	0.436	5.817	
1,1-Dichloroethene	1.236	1.259	1.230	1.202	1.229	1.215	1.191	1.152	1.214	2.702	
Methylene chloride	0.956	1.187	1.012	0.976	0.945	0.933	0.920	0.890	0.977	9.454	
Acrylonitrile	0.375	0.425	0.354	0.348	0.359	0.383	0.384	0.379	0.376	6.388	
trans-1,2-Dichloroethene	1.230	1.322	1.147	1.240	1.222	1.220	1.203	1.178	1.220	4.193	
n-Hexane	1.140	1.285	1.068	1.087	1.109	1.118	1.098	1.097	1.125	6.035	
1,1-Dichloroethane	1.447	1.674	1.561	1.420	1.448	1.418	1.418	1.378	1.470	6.667	
Cyclohexane	1.084	0.981	1.080	1.058	1.048	1.092	1.080	1.064	1.061	3.329	
2,2-Dichloropropane	1.192	1.302	1.130	1.170	1.189	1.180	1.170	1.140	1.184	4.432	
cis-1,2-Dichloroethene	0.906	0.872	0.869	0.874	0.884	0.901	0.912	0.880	0.887	1.879	
Chloroform	1.530	1.603	1.574	1.522	1.520	1.497	1.504	1.468	1.527	2.811	
Bromochloromethane	0.350	0.392	0.340	0.340	0.347	0.351	0.352	0.344	0.352	4.783	
Dibromofluoromethane	0.760	0.928	0.763	0.749	0.707	0.766	0.771		0.778	8.970	
1,1,1-Trichloroethane	1.171	1.195	1.096	1.150	1.165	1.168	1.188	1.154	1.161	2.606	
Acetone	0.382	0.922	0.696	0.393	0.388	0.385	0.363	0.359	0.486	42.914	L=0.999
2-Butanone	0.505	0.807	0.659	0.479	0.518	0.534	0.520	0.519	0.568	19.486	L=1.000
Carbon Disulfide	2.777	2.730	2.682	2.727	2.707	2.779	2.800	2.746	2.744	1.462	
Iodomethane	0.976	0.884	0.856	0.881	0.942	1.002	1.022	0.956	0.940	6.481	
Vinyl acetate	4.976	4.053	3.881	4.385	4.775	5.125	5.147	5.151	4.687	10.973	
Methyl tert-butyl ether	1.985	1.824	1.842	1.878	1.933	2.012	2.020	1.998	1.937	4.090	
1,4-Difluorobenzene (IS)	ISTD										
1,1-Dichloropropene	0.618	0.574	0.567	0.594	0.594	0.619	0.609	0.599	0.597	3.160	
Carbon tetrachloride	0.466	0.468	0.421	0.462	0.446	0.472	0.466	0.459	0.457	3.634	
1,2-Dichloroethane	0.663	0.721	0.688	0.686	0.665	0.664	0.651	0.634	0.672	3.956	
Benzene	1.663	1.857	1.679	1.646	1.645	1.656	1.624	1.601	1.671	4.716	
2,2,4-Trimethylpentane	1.771	1.688	1.585	1.704	1.692	1.751	1.727	1.695	1.702	3.273	
n-Heptane	0.389	0.361	0.336	0.377	0.378	0.396	0.386	0.379	0.375	5.018	
Trichloroethene	0.463	0.499	0.475	0.467	0.447	0.458	0.464	0.457	0.466	3.308	
1,2-Dichloropropane	0.454	0.495	0.482	0.458	0.444	0.451	0.450	0.436	0.459	4.285	
Bromodichloromethane	0.619	0.616	0.623	0.601	0.604	0.631	0.634	0.619	0.618	1.869	

Methylcyclohexane		0.207	0.202	0.186	0.204	0.201	0.204	0.202	0.196	0.200	3.298	
Dibromomethane		0.343	0.383	0.357	0.350	0.350	0.354	0.351	0.345	0.354	3.549	
cis-1,3-Dichloropropene		0.752	0.718	0.699	0.724	0.733	0.764	0.757	0.747	0.736624	3.042	
2-Chloroethylvinylether		0.047	0.046	0.062	0.036	0.034	0.059	0.064	0.07	0.0521458	25.4507	L=0.994
4-Methyl-2-pentanone		0.524	0.575	0.525	0.475	0.515	0.569	0.563	0.545	0.536351	6.25873	
1,2-Dichloroethane-d4		0.56	0.685	0.563	0.568	0.549	0.56	0.545		0.5758	8.4488	
Toluene-d8		1.366	1.726	1.359	1.368	1.244	1.408	1.392		1.40905	10.6117	
Chlorobenzene-d5 (IS)	ISTD											
Toluene		1.158	1.34	1.145	1.123	1.142	1.155	1.142	1.116	1.16505	6.19234	
trans-1,3-Dichloropropene		0.71	0.761	0.773	0.668	0.69	0.743	0.734	0.724	0.725322	4.85361	
1,1,2-Trichloroethane		0.409	0.586	0.45	0.415	0.408	0.414	0.4	0.393	0.434365	14.6076	
1,3-Dichloropropane		0.781	0.969	0.861	0.782	0.791	0.795	0.77	0.75	0.812389	8.75571	
Tetrachloroethene		0.407	0.418	0.42	0.413	0.397	0.408	0.398	0.393	0.406578	2.5077	
Dibromochloromethane		0.4	0.444	0.42	0.386	0.397	0.42	0.421	0.417	0.413002	4.41443	
1,2-Dibromoethane		0.474	0.517	0.526	0.454	0.478	0.489	0.487	0.48	0.488125	4.79308	
1-Chlorohexane		0.738	0.718	0.712	0.719	0.712	0.762	0.75	0.734	0.730606	2.55003	
Chlorobenzene		0.985	1.256	1.146	0.998	0.985	0.997	0.976	0.959	1.03767	10.1896	
n-Nonane		0.908	0.785	0.825	0.899	0.824	0.824	0.778	0.774	0.827293	6.27662	
1,1,1,2-Tetrachloroethane		0.333	0.443	0.374	0.336	0.328	0.333	0.328	0.322	0.349747	11.676	
Ethylbenzene		2.172	2.392	2.215	2.172	2.122	2.156	2.13	2.072	2.17882	4.40582	
m,p-Xylene		0.683	0.761	0.713	0.68	0.673	0.695	0.674	0.654	0.691561	4.74531	
o-Xylene		0.629	0.737	0.68	0.637	0.627	0.641	0.629	0.605	0.648135	6.42701	
Styrene		1.198	1.324	1.224	1.144	1.142	1.228	1.212	1.174	1.2057	4.82896	
Isopropylbenzene		1.656	1.849	1.826	1.634	1.63	1.714	1.684	1.651	1.7055	5.05066	
Bromoform		0.288	0.375	0.3	0.258	0.276	0.307	0.307	0.308	0.302418	11.3727	
1,1,2,2-Tetrachloroethane		0.648	1.022	0.718	0.652	0.662	0.661	0.648	0.638	0.706072	18.4153	L=1.000
4-Bromofluorobenzene		0.666	1.015	0.667	0.636	0.619	0.695	0.698		0.713835	19.0413	L=0.998
2-Hexanone		0.413	0.591	0.406	0.364	0.408	0.44	0.43	0.421	0.434031	15.4967	L=1.000
1,4-Dichlorobenzene-d4 (IS)	ISTD											
1,2,3-Trichloropropane		0.319	0.563	0.454	0.334	0.327	0.326	0.335	0.338	0.374374	23.5171	L=1.000
n-Propylbenzene		4.996	6.04	5.324	5.013	4.884	5.009	5.051	5.014	5.16621	7.24602	
Bromobenzene		0.894	1.236	1.09	0.924	0.903	0.885	0.898	0.893	0.96532	13.3046	
1,3,5-Trimethylbenzene		3.21	3.99	3.356	3.212	3.112	3.229	3.335	3.272	3.33956	8.19794	
2-Chlorotoluene		3.357	4.364	3.682	3.499	3.334	3.396	3.393	3.339	3.54532	9.88314	
4-Chlorotoluene		3.033	3.999	3.262	3.113	2.964	2.992	3.103	3.052	3.18967	10.6452	
tert-Butylbenzene		2.416	3.335	2.663	2.452	2.358	2.431	2.454	2.44	2.56868	12.538	
1,2,4-Trimethylbenzene		3.223	4.068	3.541	3.331	3.139	3.249	3.341	3.277	3.39599	8.70435	
sec-Butylbenzene		3.982	5.063	4.268	3.997	3.845	4.031	4.116	4.061	4.17034	9.12128	
4-Isopropyltoluene		2.682	3.344	2.785	2.7	2.558	2.748	2.821	2.776	2.80175	8.34094	
1,3-Dichlorobenzene		1.503	2.195	1.691	1.491	1.408	1.472	1.451	1.488	1.58724	16.33	L=1.000
1,4-Dichlorobenzene		1.532	2.382	1.829	1.683	1.597	1.546	1.603	1.531	1.71307	16.8269	L=0.999
Dicyclopentadiene		0.438	0.582	0.487	0.449	0.42	0.453	0.469	0.47	0.471126	10.4743	
n-Butylbenzene		2.298	2.846	2.286	2.31	2.154	2.309	2.367	2.313	2.36051	8.70631	
1,2-Dichlorobenzene		1.38	2.226	1.645	1.431	1.361	1.37	1.414	1.393	1.52757	19.4164	L=1.000
1,2-Dibromo-3-chloropropane		0.174		0.233	0.172	0.171	0.187	0.202	0.201	0.191316	11.7175	
1,2,4-Trichlorobenzene		1.137		1.205	1.182	1.079	1.128	1.16	1.125	1.14514	3.62191	
Hexachlorobutadiene		0.269		0.297	0.289	0.239	0.257	0.26	0.257	0.266773	7.45458	
Naphthalene		2.18		2.304	2.19	2.147	2.294	2.286	2.433	2.26188	4.33181	
1,2,3-Trichlorobenzene		1.003	1.462	1.143	1.085	0.962	1.004	1.025	1.02	1.08801	14.8185	

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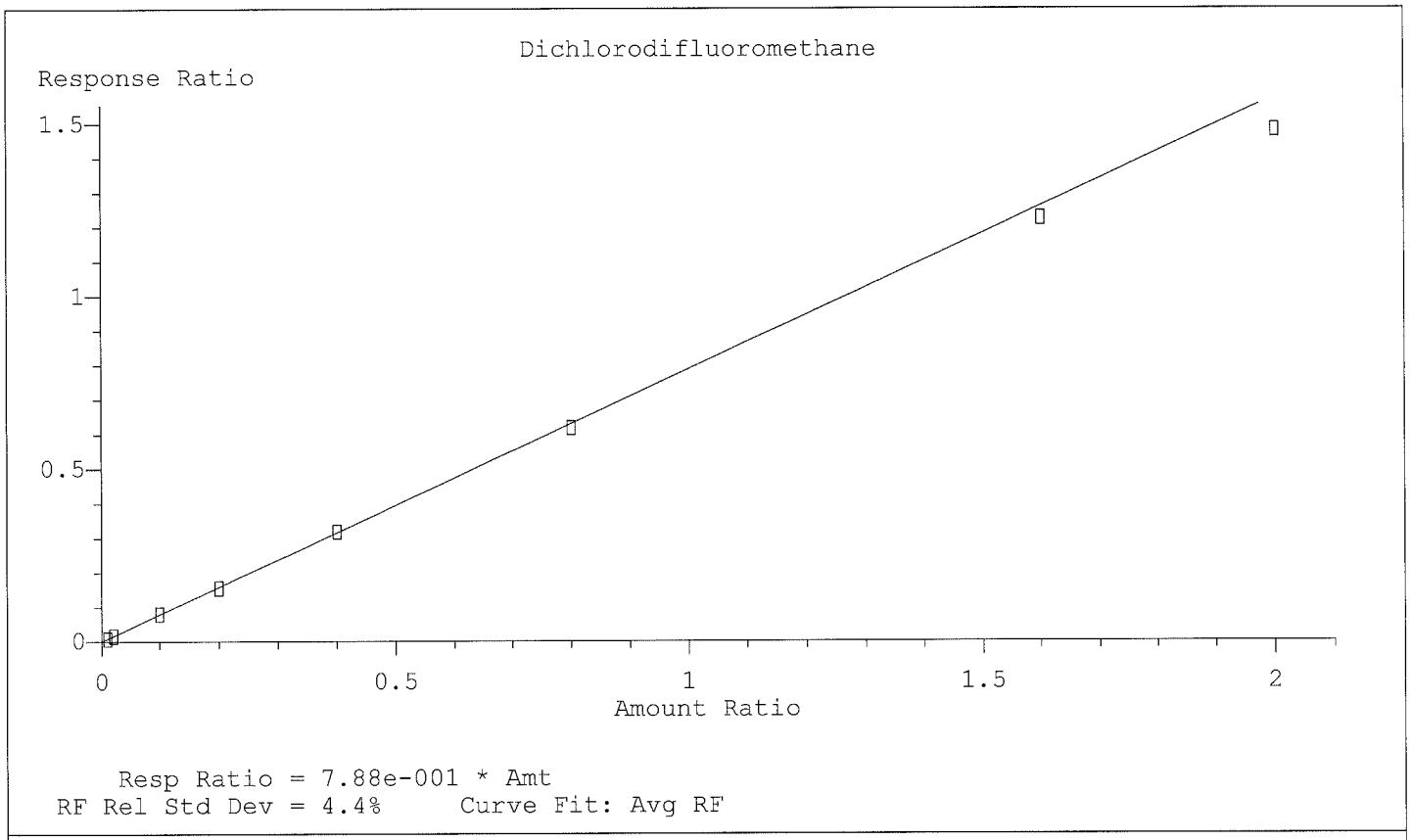
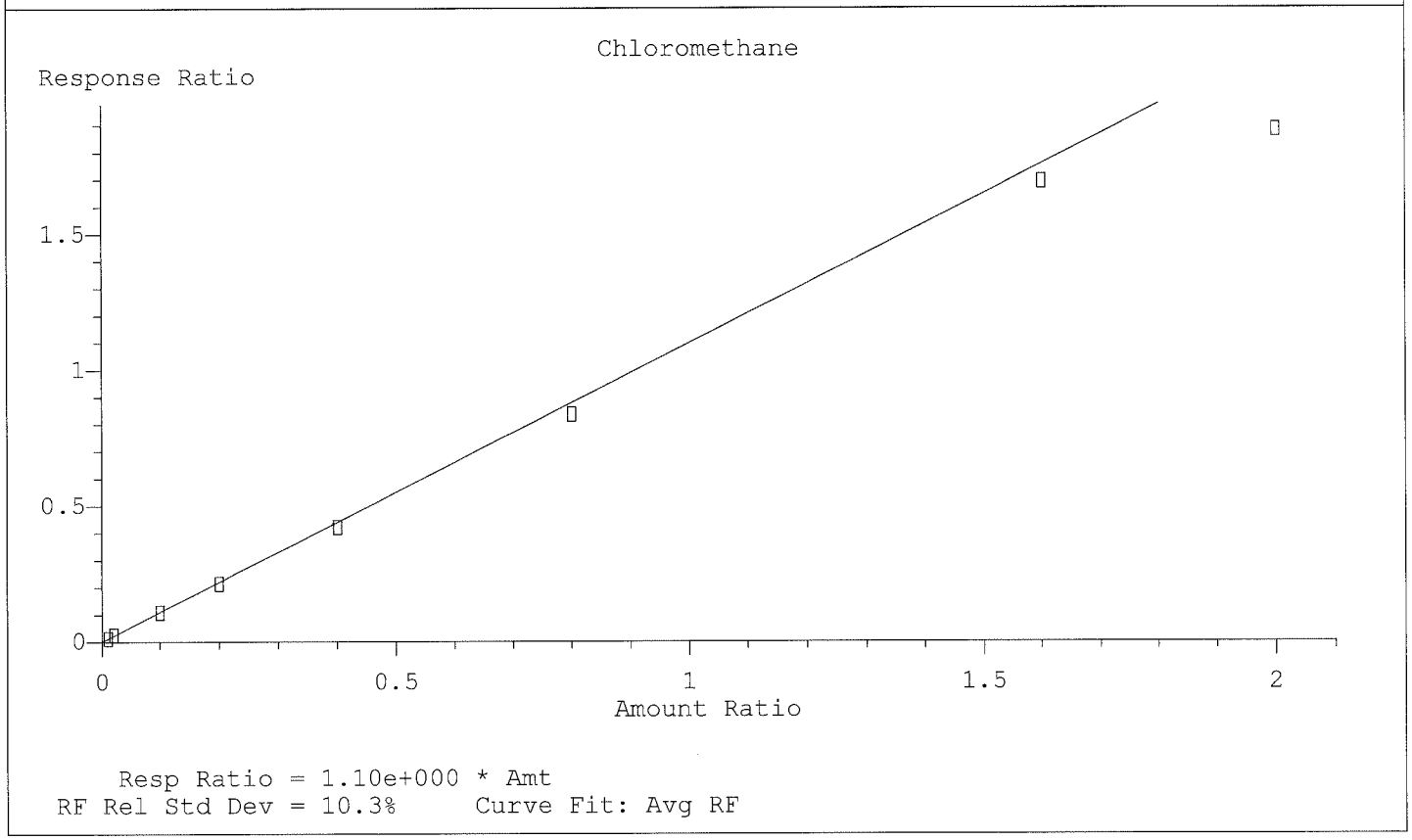
Calibration Plot Report

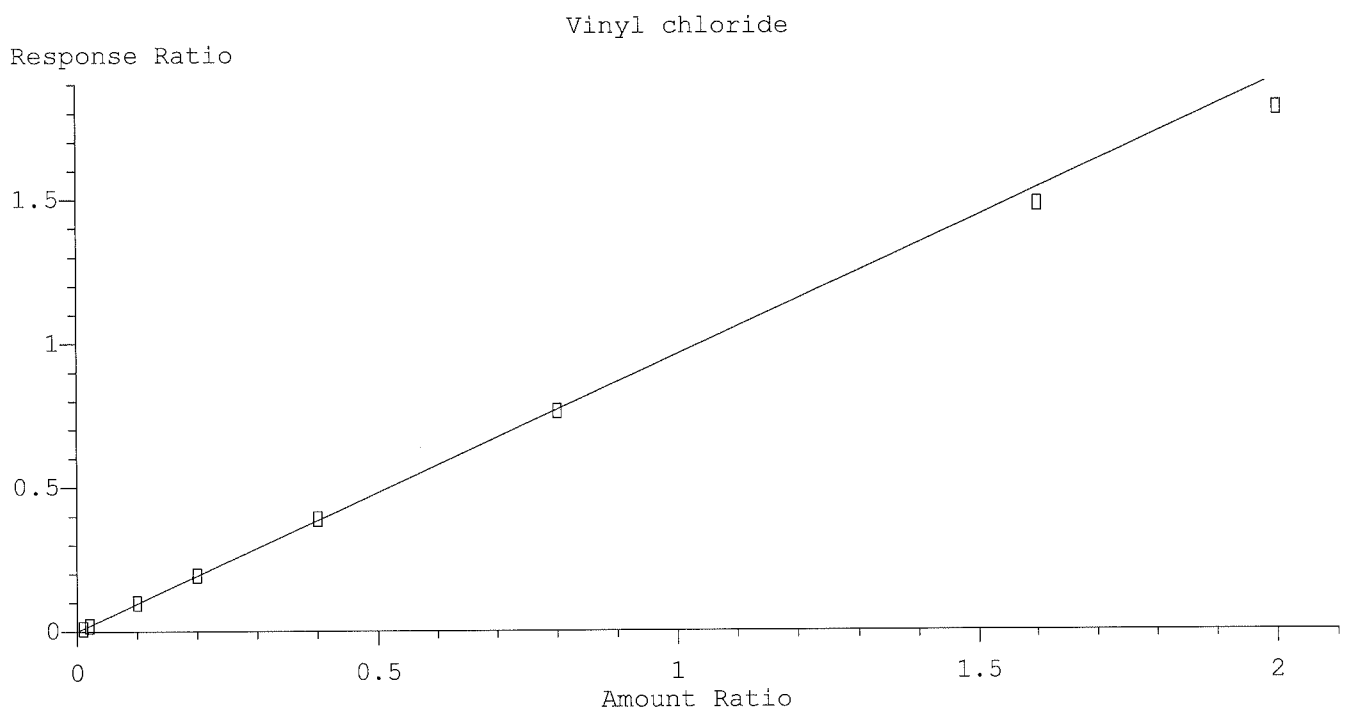


Resp Ratio = 7.88e-001 * Amt
RF Rel Std Dev = 4.4% Curve Fit: Avg RF

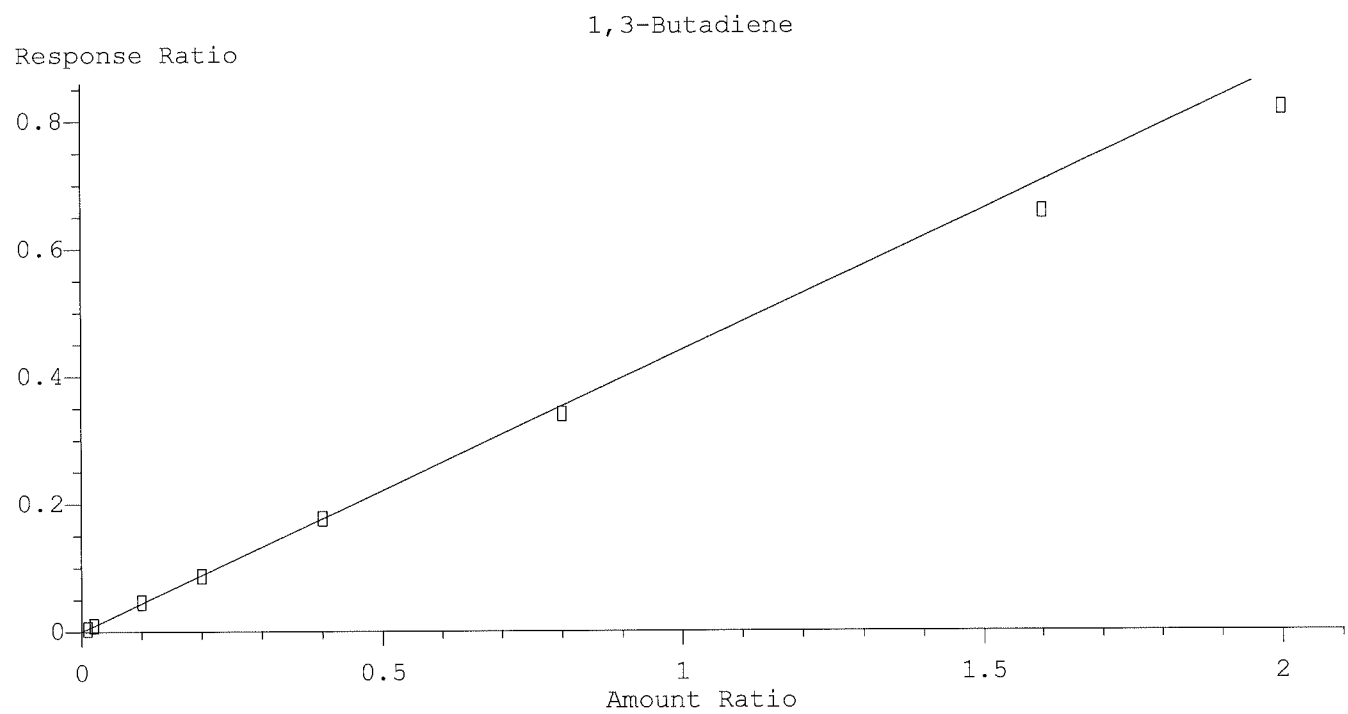


Resp Ratio = 1.10e+000 * Amt
RF Rel Std Dev = 10.3% Curve Fit: Avg RF

Calibration Plot Report

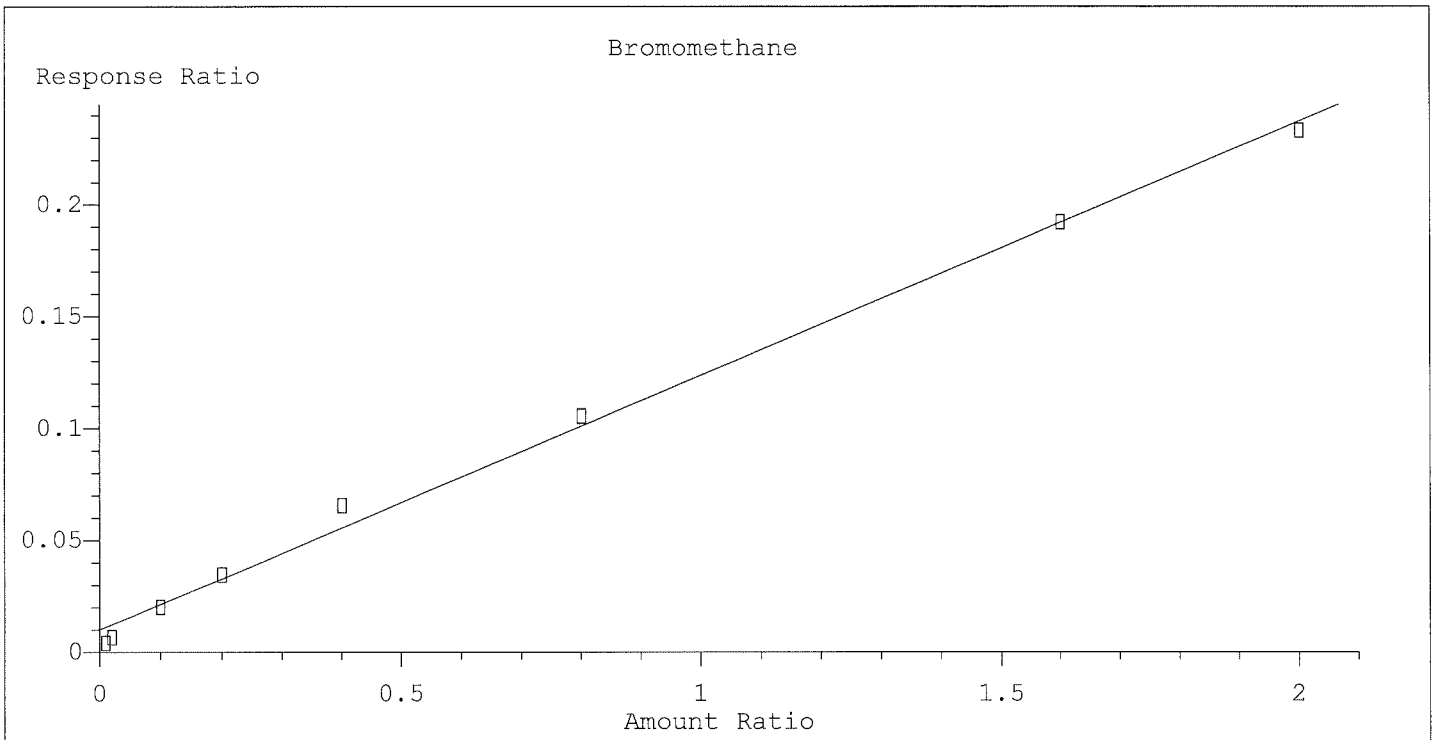


Resp Ratio = 9.60e-001 * Amt
RF Rel Std Dev = 3.1% Curve Fit: Avg RF

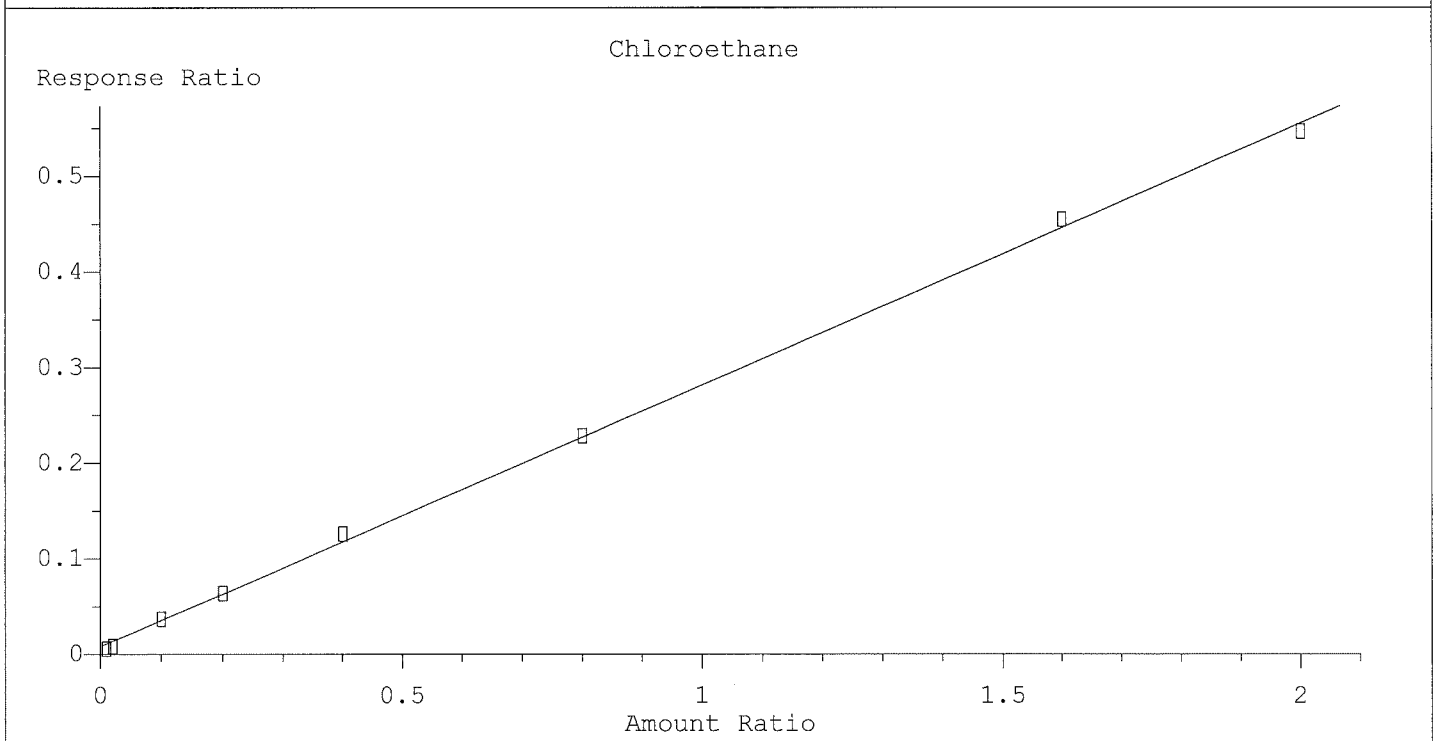


Resp Ratio = 4.40e-001 * Amt
RF Rel Std Dev = 5.6% Curve Fit: Avg RF

Calibration Plot Report

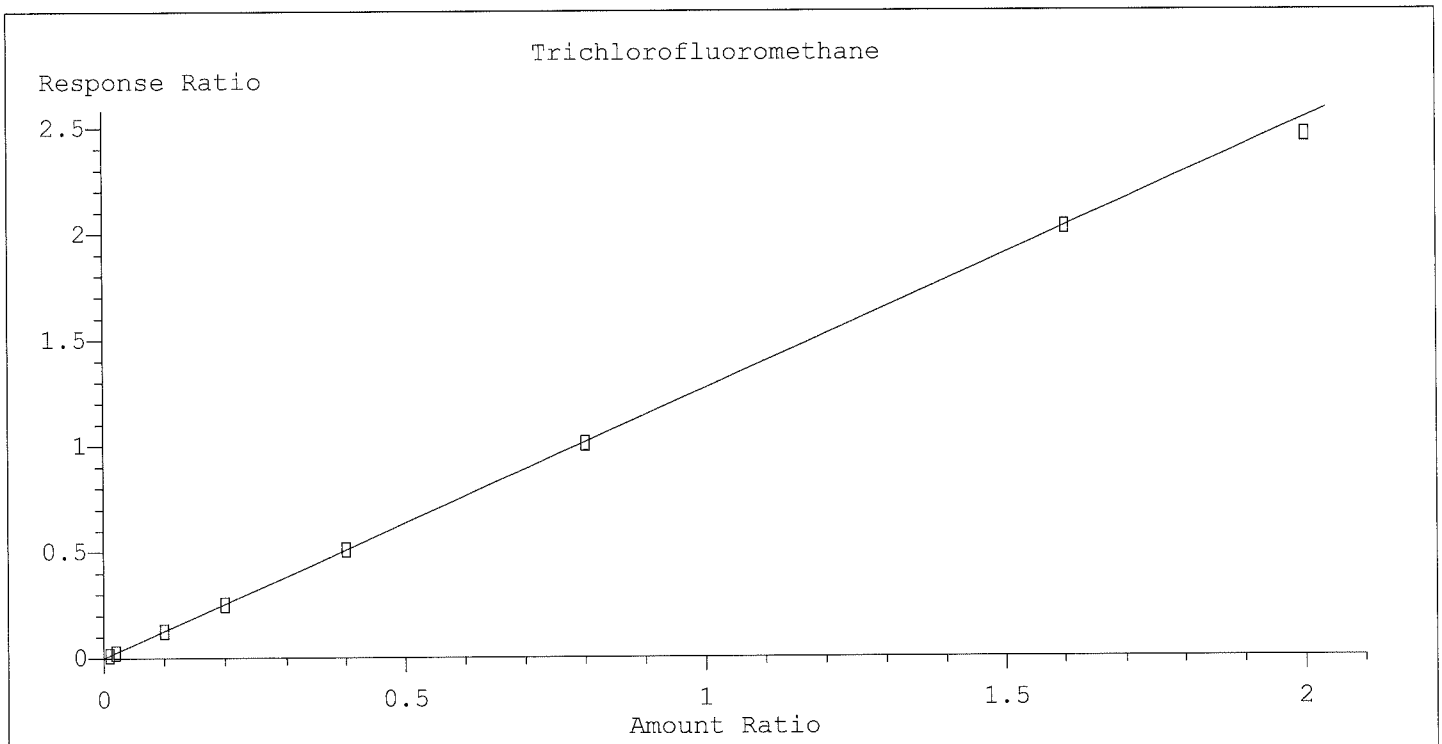


Resp Ratio = 1.14e-001 * Amt + 9.80e-003
Coef of Det (r^2) = 0.996 Curve Fit: Linear

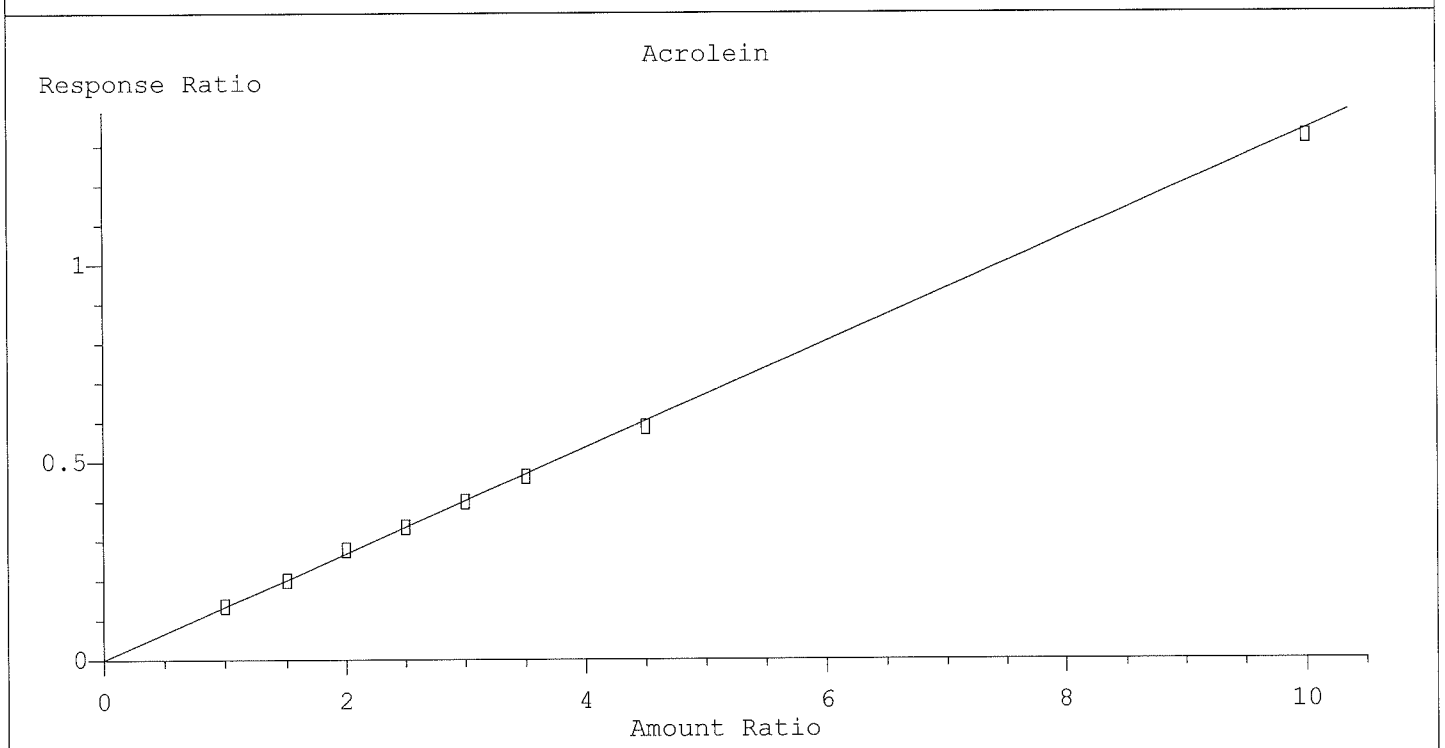


Resp Ratio = 2.74e-001 * Amt + 8.40e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Calibration Plot Report

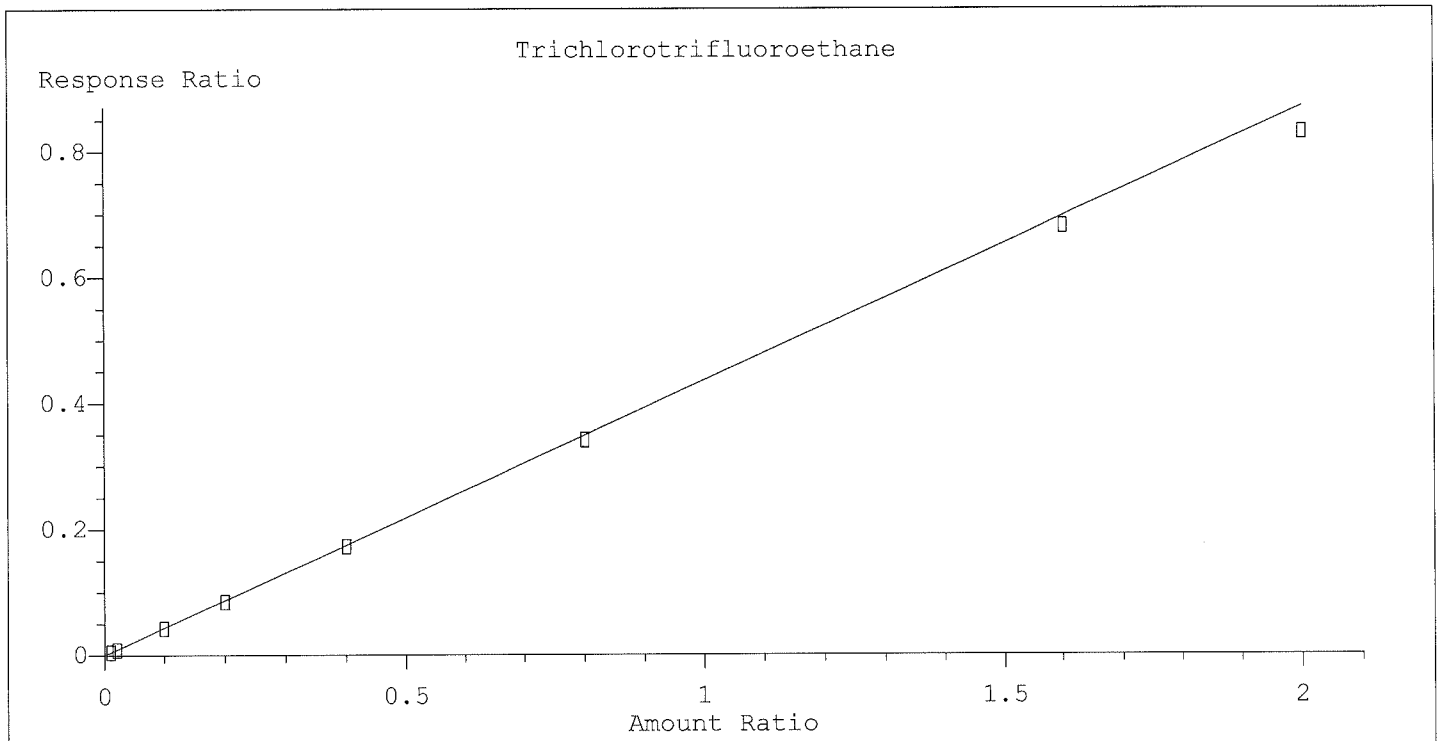


Resp Ratio = 1.27e+000 * Amt
RF Rel Std Dev = 2.6% Curve Fit: Avg RF

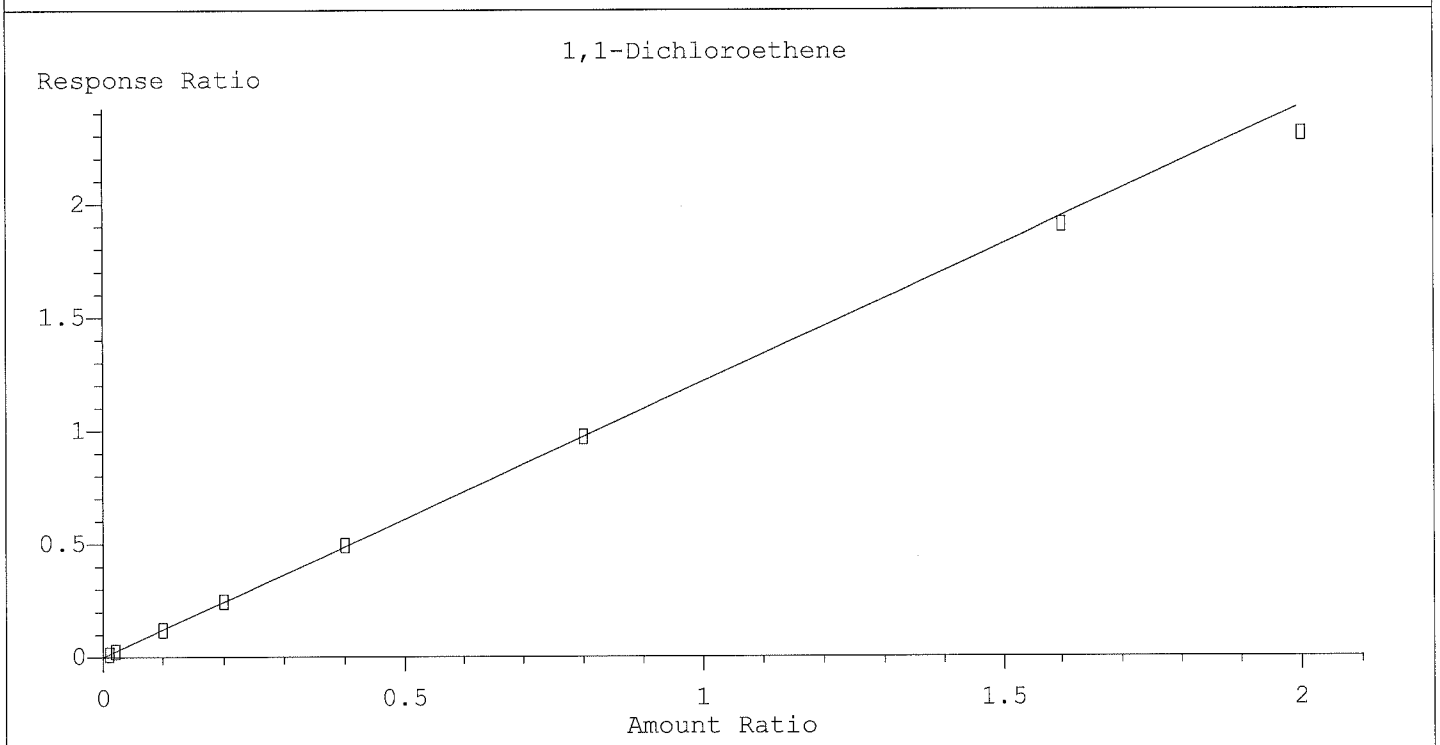


Resp Ratio = 1.34e-001 * Amt
RF Rel Std Dev = 2.0% Curve Fit: Avg RF

Calibration Plot Report

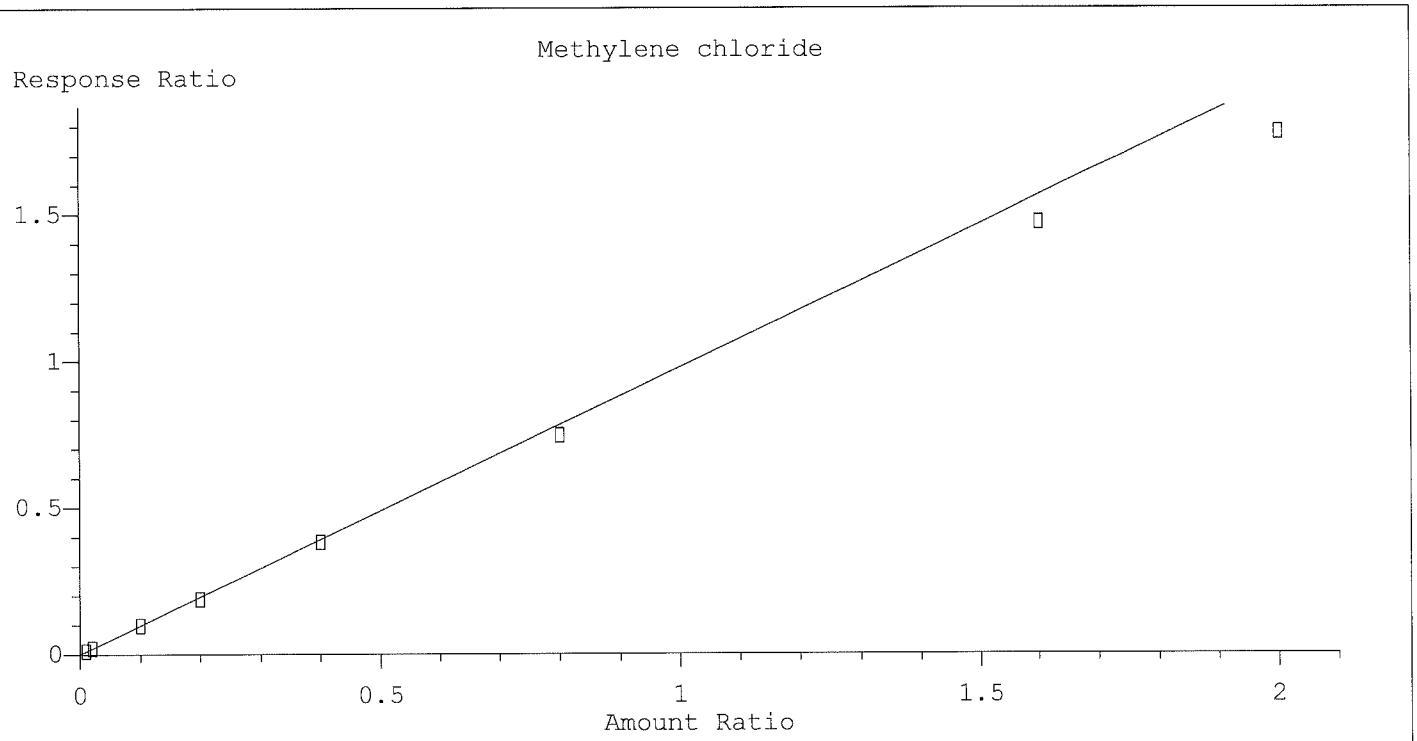


Resp Ratio = 4.36e-001 * Amt
RF Rel Std Dev = 5.8% Curve Fit: Avg RF

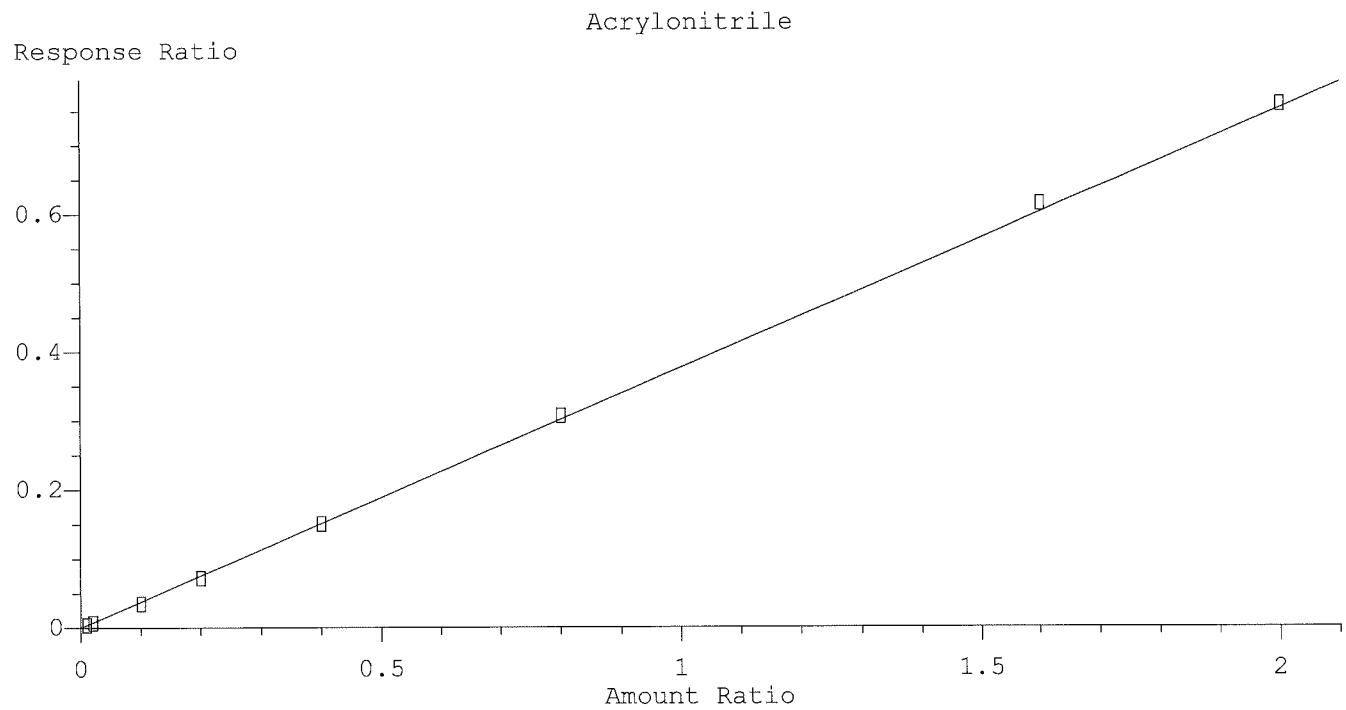


Resp Ratio = 1.21e+000 * Amt
RF Rel Std Dev = 2.7% Curve Fit: Avg RF

Calibration Plot Report

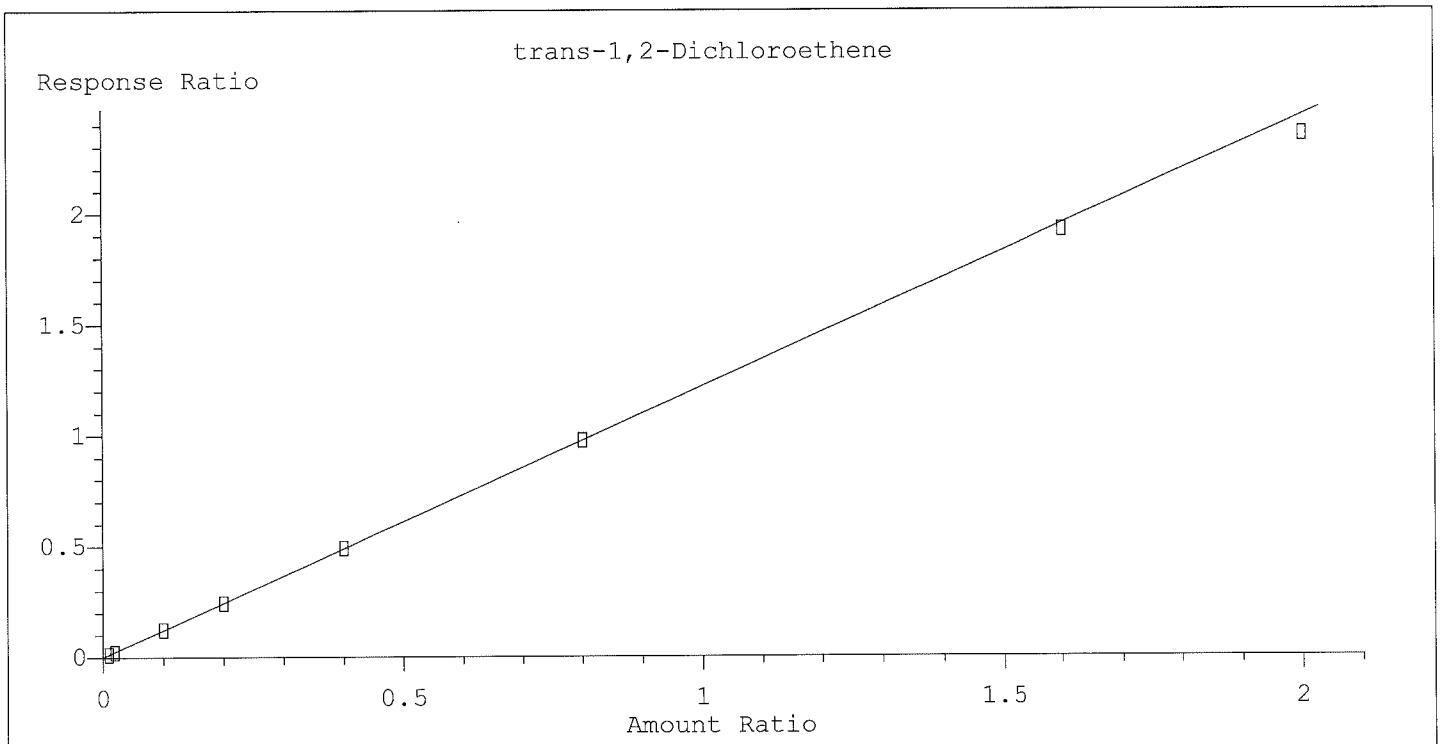


Resp Ratio = 9.77e-001 * Amt
RF Rel Std Dev = 9.5% Curve Fit: Avg RF

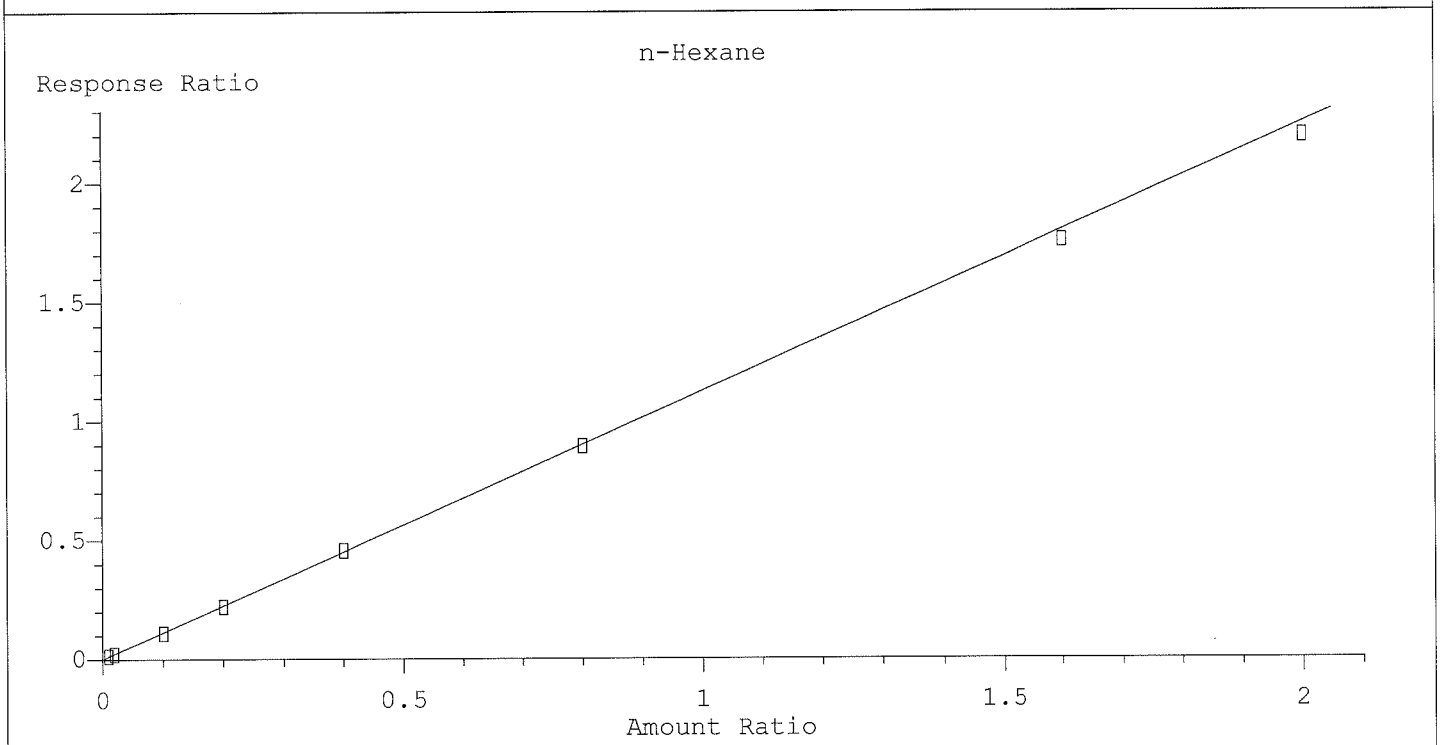


Resp Ratio = 3.76e-001 * Amt
RF Rel Std Dev = 6.4% Curve Fit: Avg RF

Calibration Plot Report

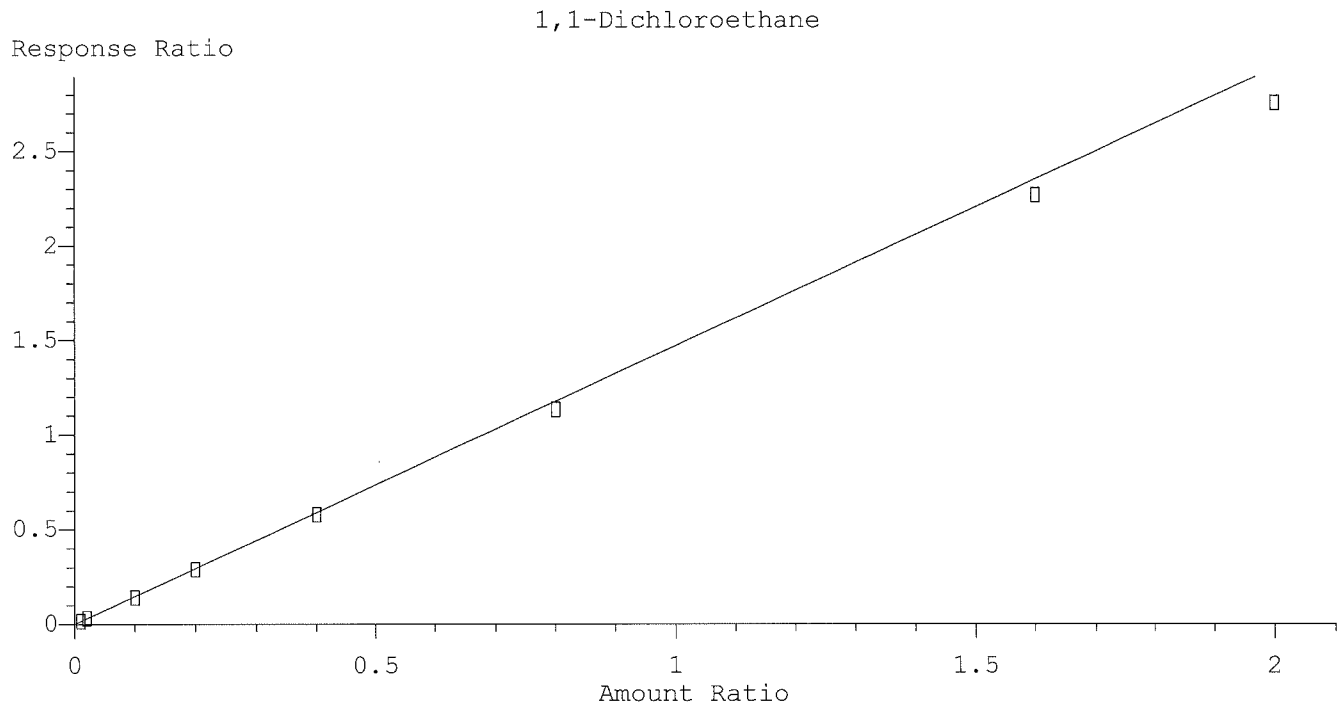


Resp Ratio = 1.22e+000 * Amt
RF Rel Std Dev = 4.2% Curve Fit: Avg RF

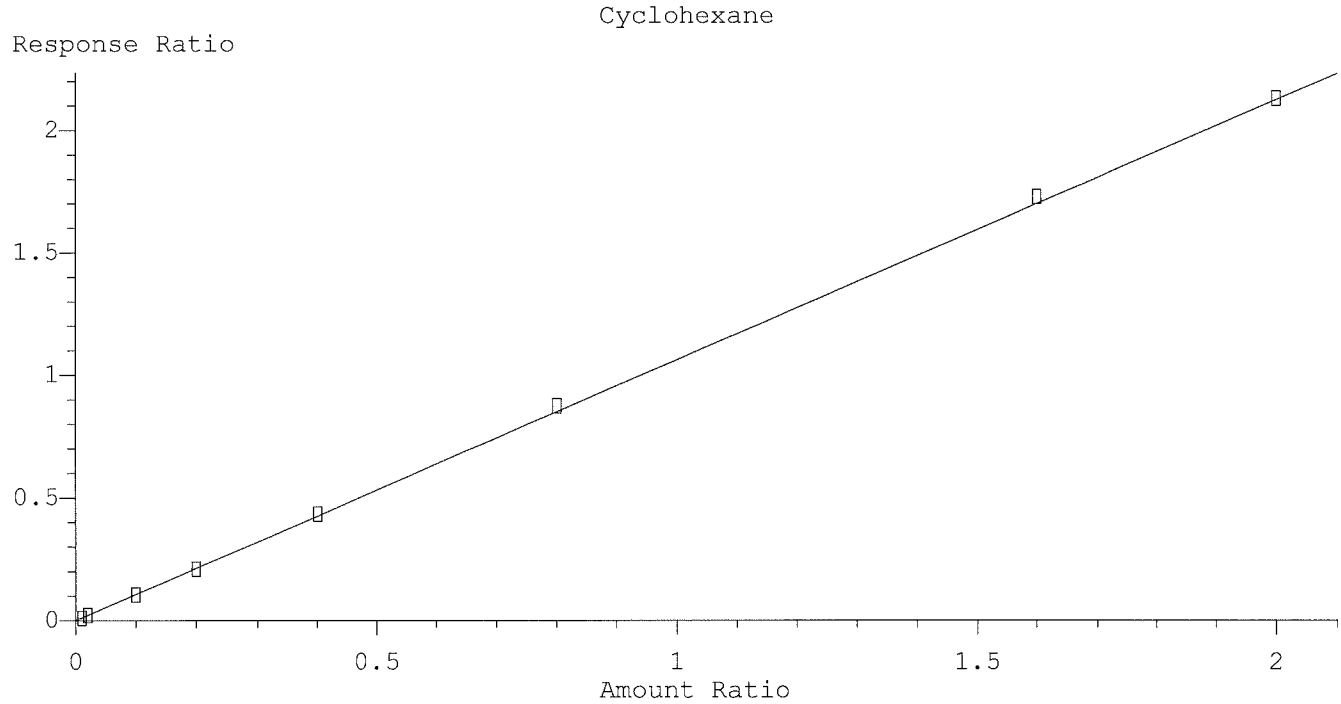


Resp Ratio = 1.13e+000 * Amt
RF Rel Std Dev = 6.0% Curve Fit: Avg RF

Calibration Plot Report

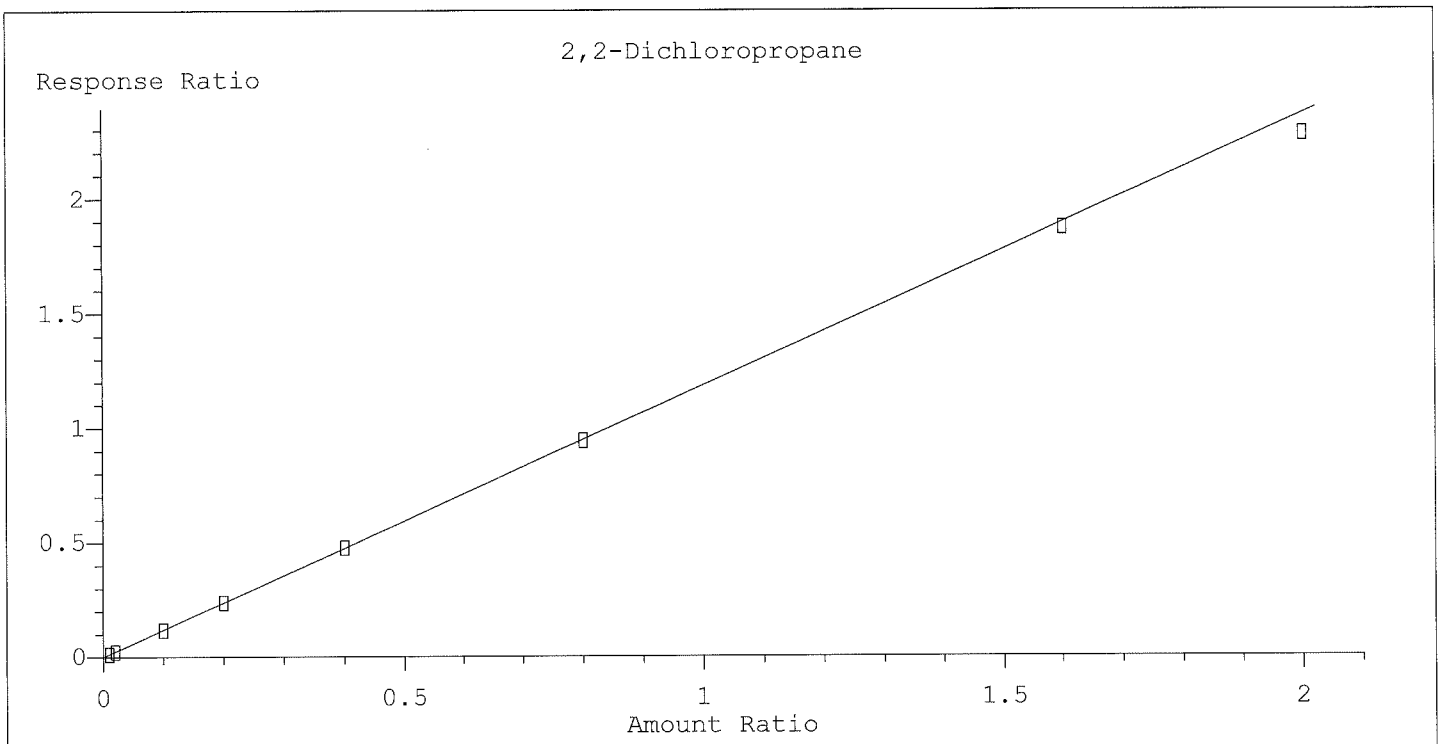


Resp Ratio = 1.47e+000 * Amt
RF Rel Std Dev = 6.7% Curve Fit: Avg RF

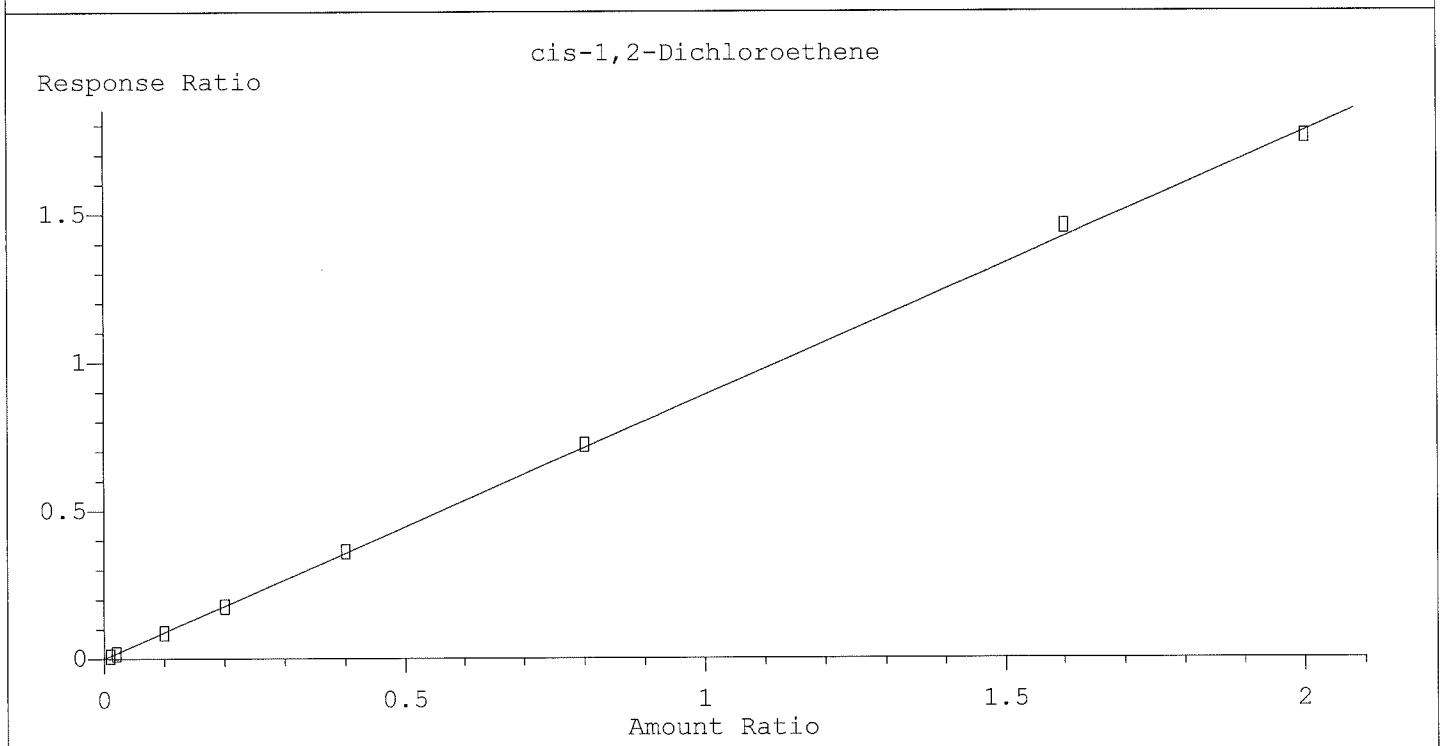


Resp Ratio = 1.06e+000 * Amt
RF Rel Std Dev = 3.3% Curve Fit: Avg RF

Calibration Plot Report

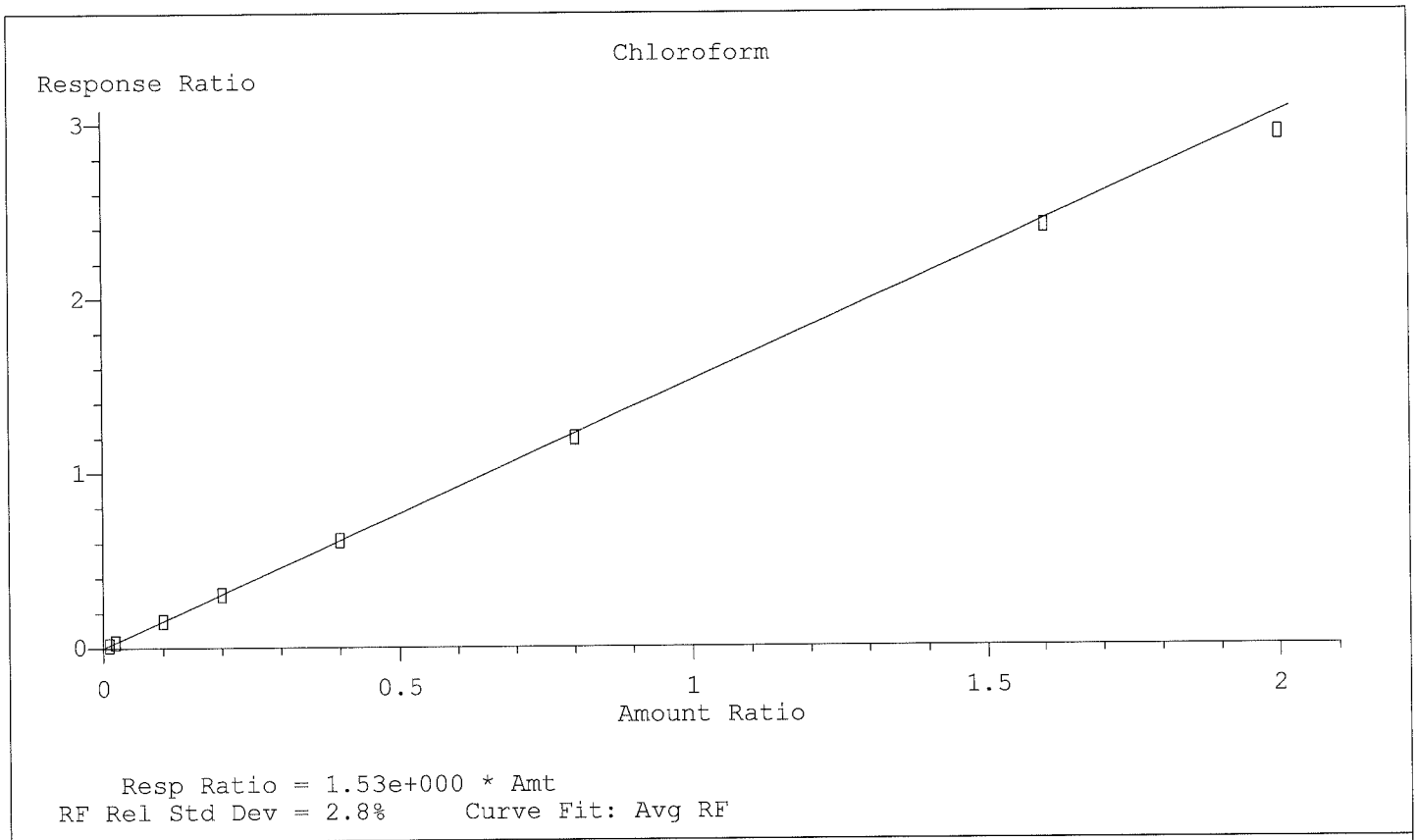


Resp Ratio = 1.18e+000 * Amt
RF Rel Std Dev = 4.4% Curve Fit: Avg RF

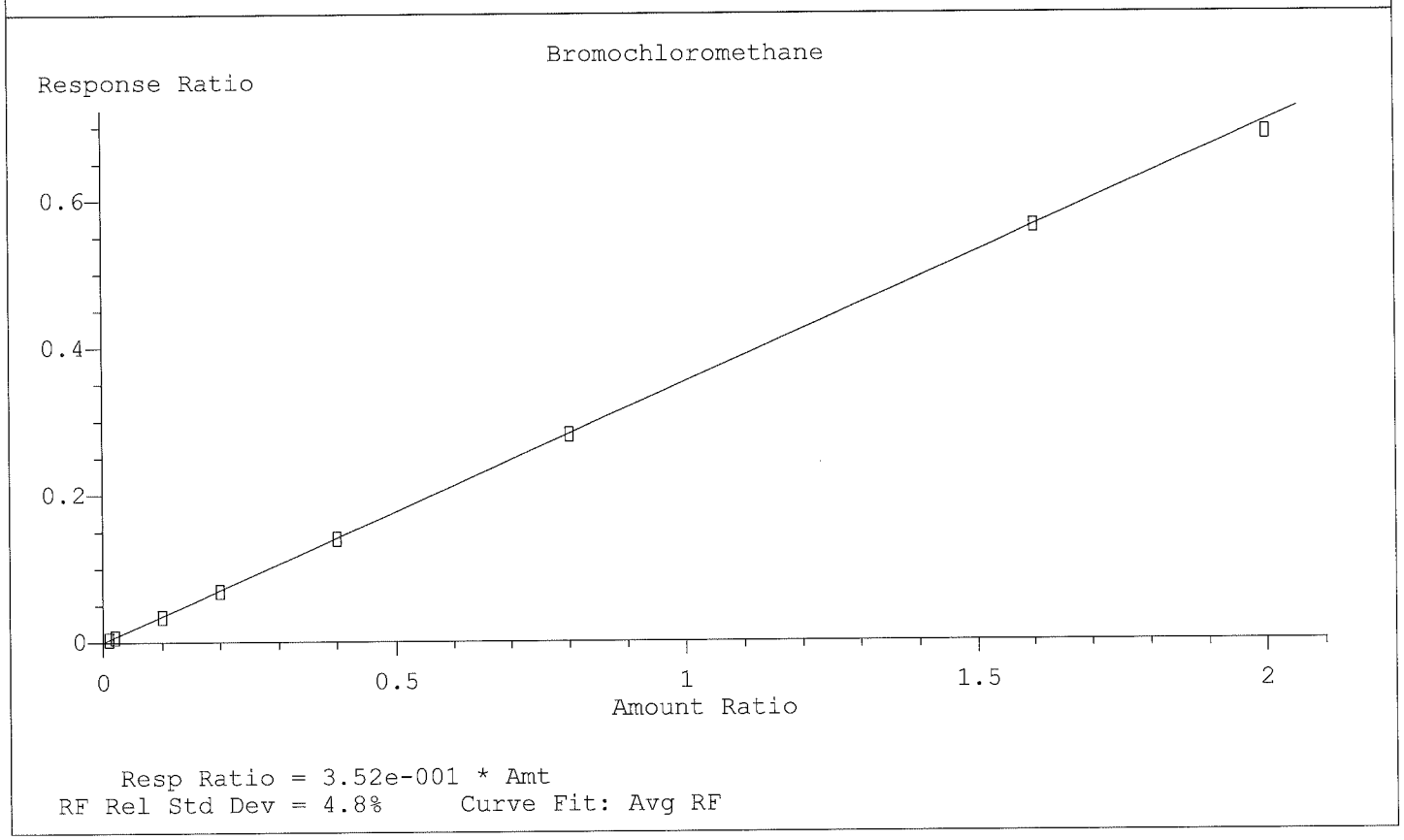


Resp Ratio = 8.87e-001 * Amt
RF Rel Std Dev = 1.9% Curve Fit: Avg RF

Calibration Plot Report

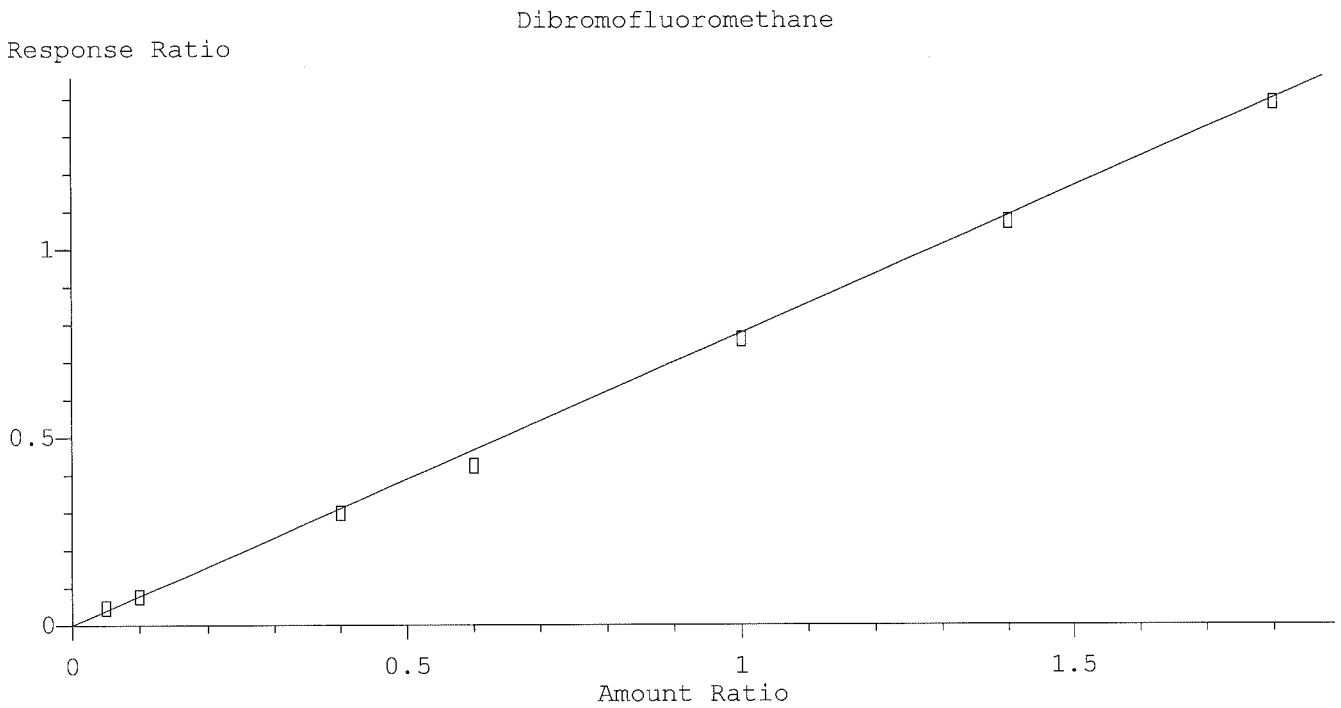


Resp Ratio = 1.53e+000 * Amt
RF Rel Std Dev = 2.8% Curve Fit: Avg RF

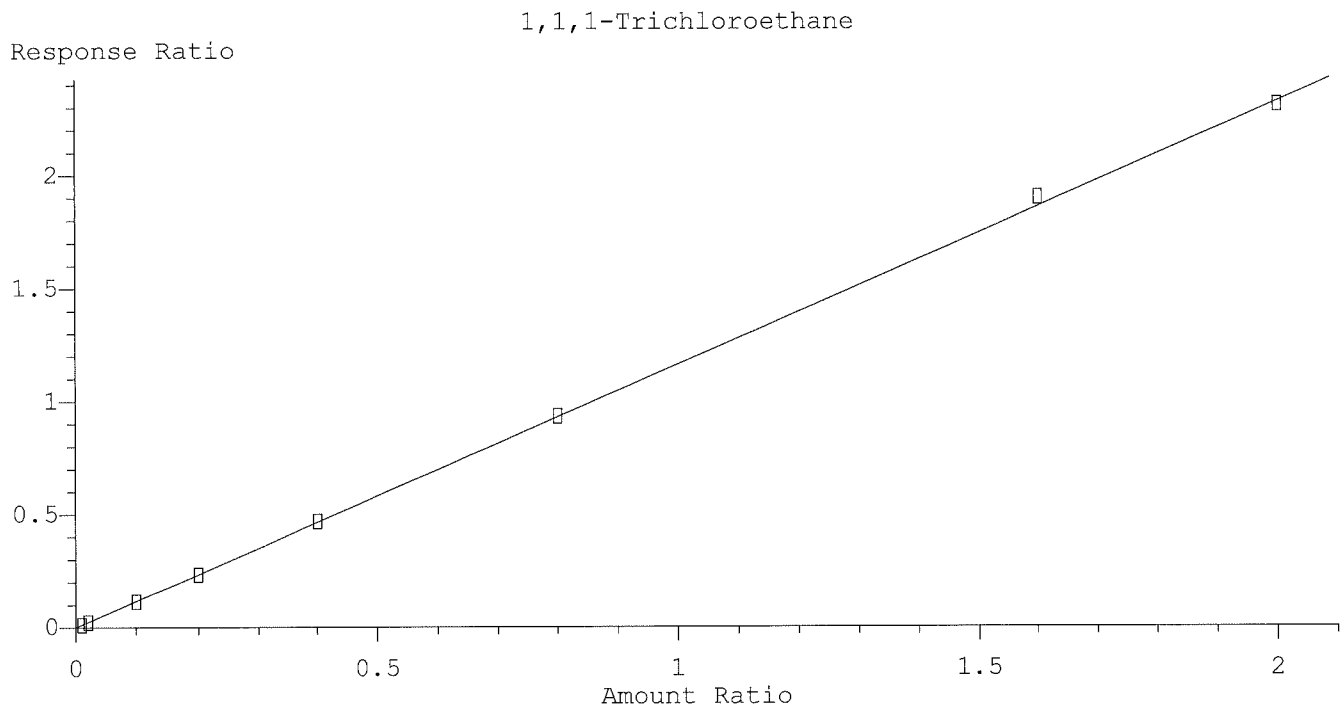


Resp Ratio = 3.52e-001 * Amt
RF Rel Std Dev = 4.8% Curve Fit: Avg RF

Calibration Plot Report

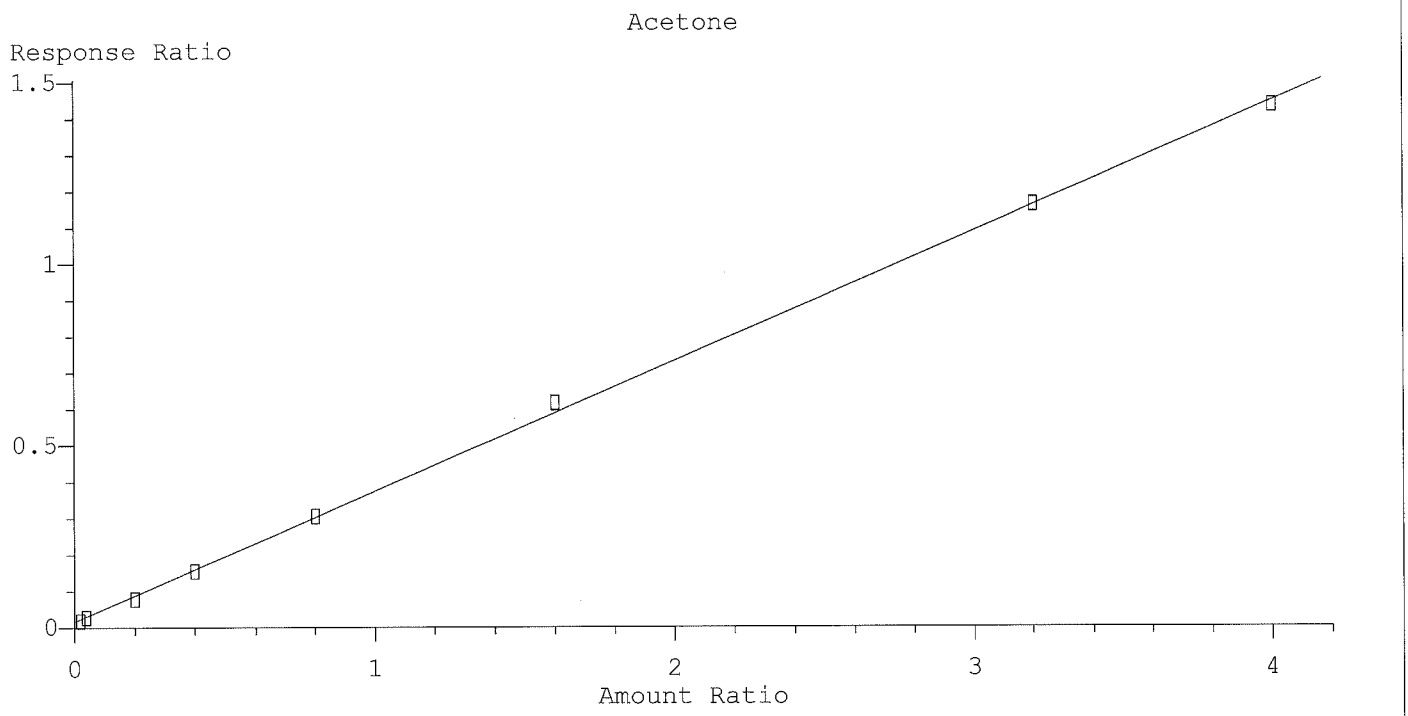


Resp Ratio = 7.78e-001 * Amt
RF Rel Std Dev = 9.0% Curve Fit: Avg RF

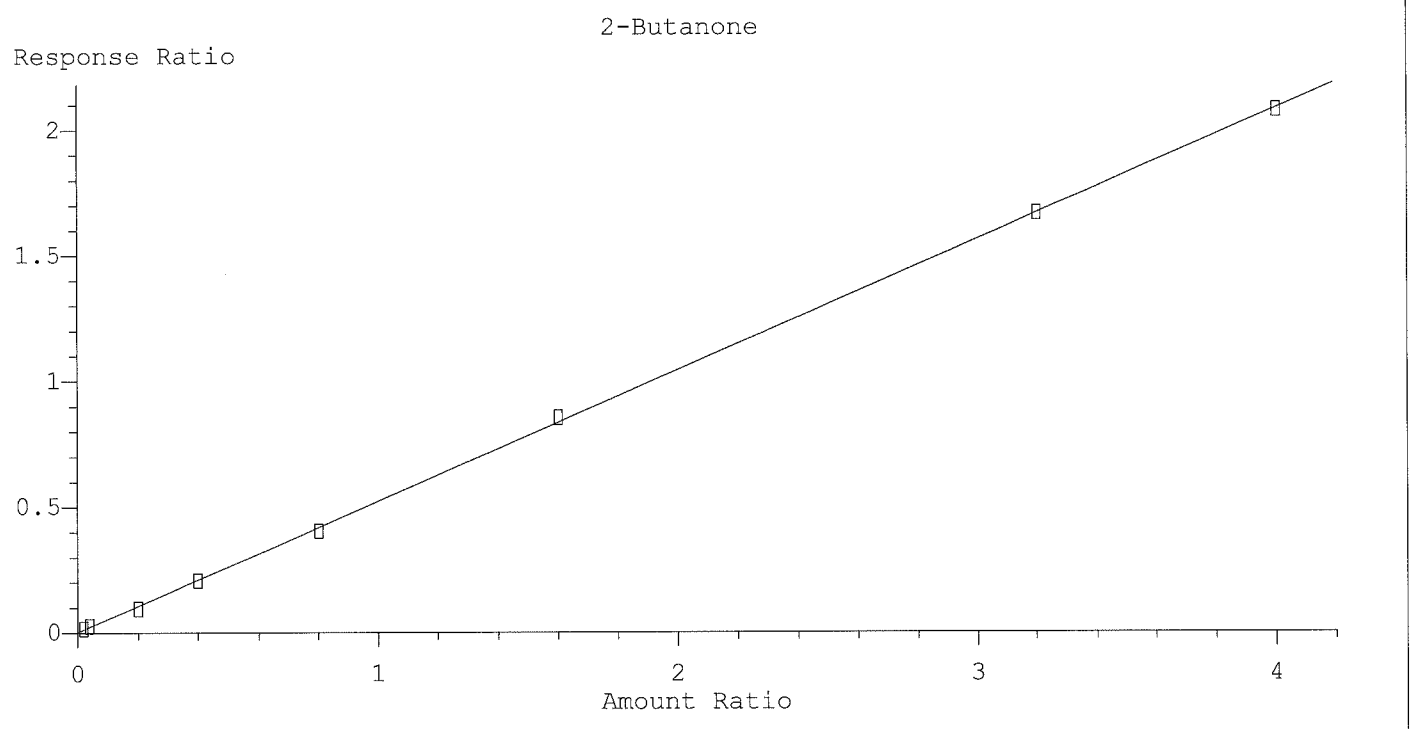


Resp Ratio = 1.16e+000 * Amt
RF Rel Std Dev = 2.6% Curve Fit: Avg RF

Calibration Plot Report

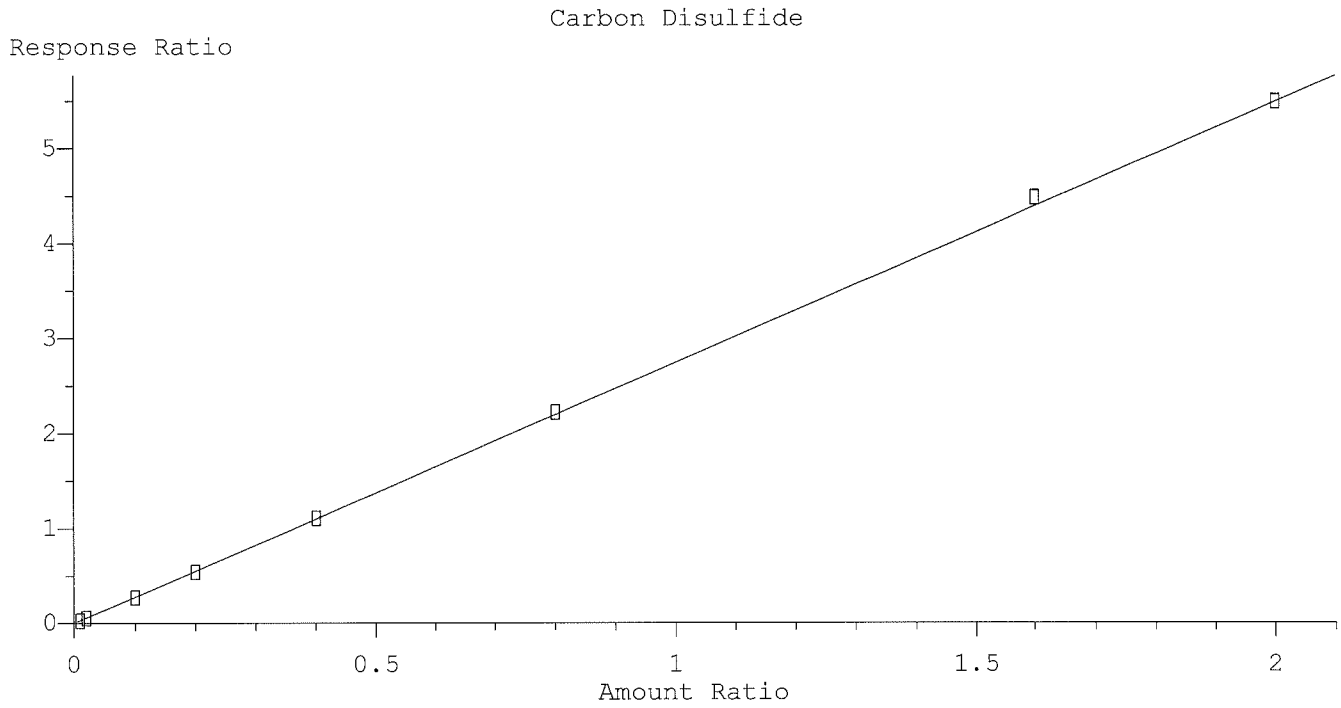


Resp Ratio = 3.58e-001 * Amt + 1.61e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear

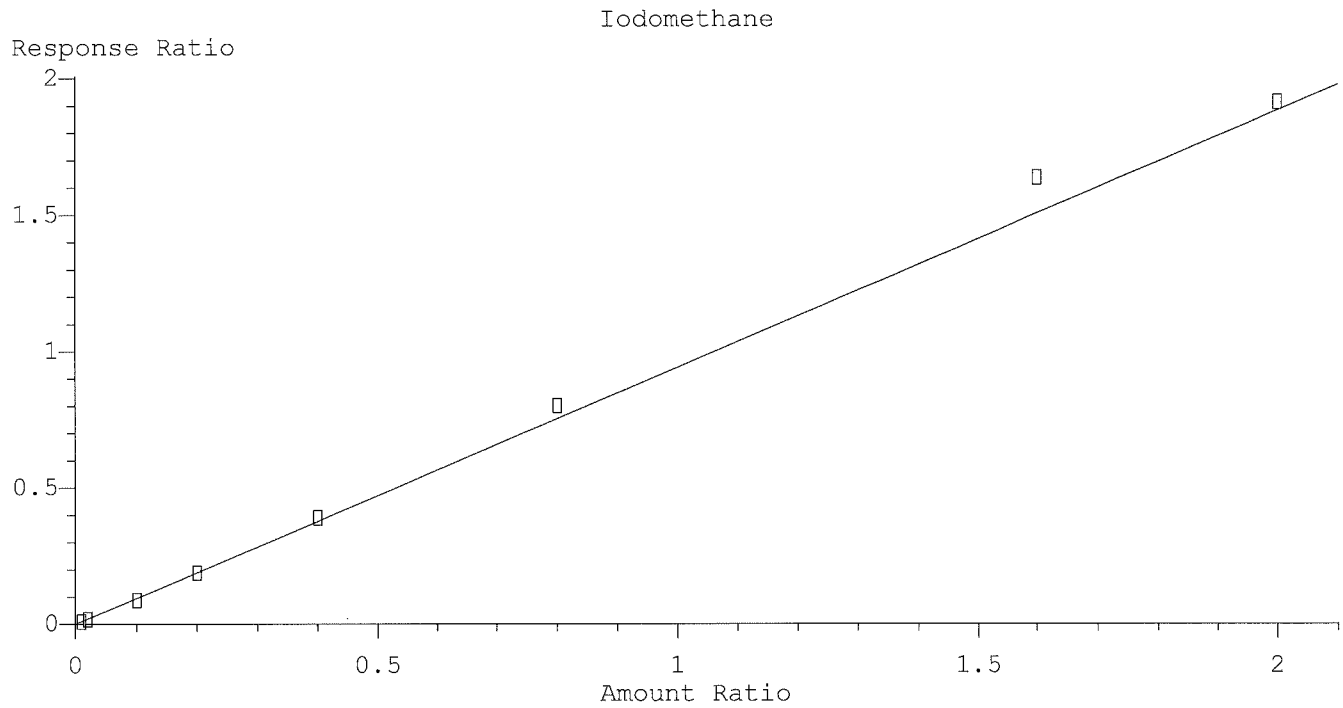


Resp Ratio = 5.20e-001 * Amt + 1.21e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Calibration Plot Report

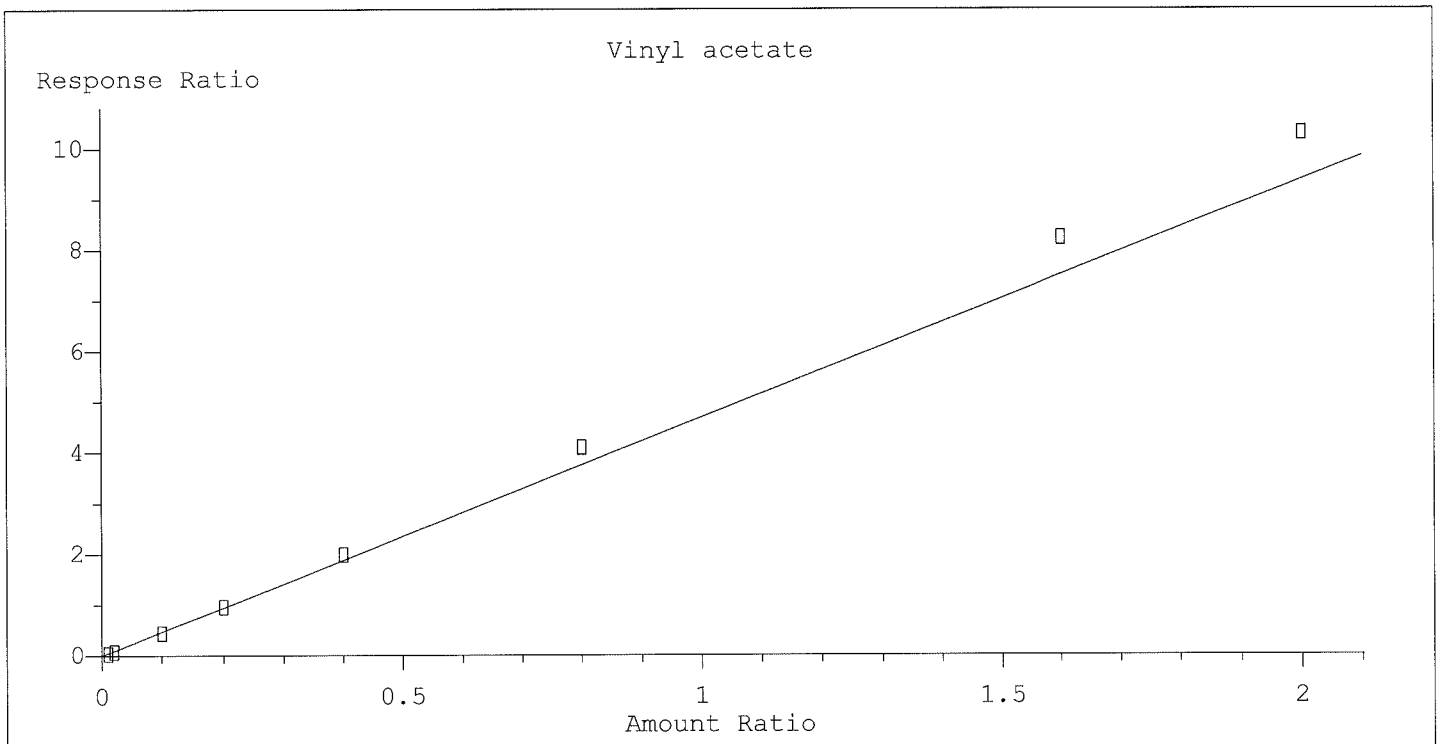


Resp Ratio = 2.74e+000 * Amt
RF Rel Std Dev = 1.5% Curve Fit: Avg RF

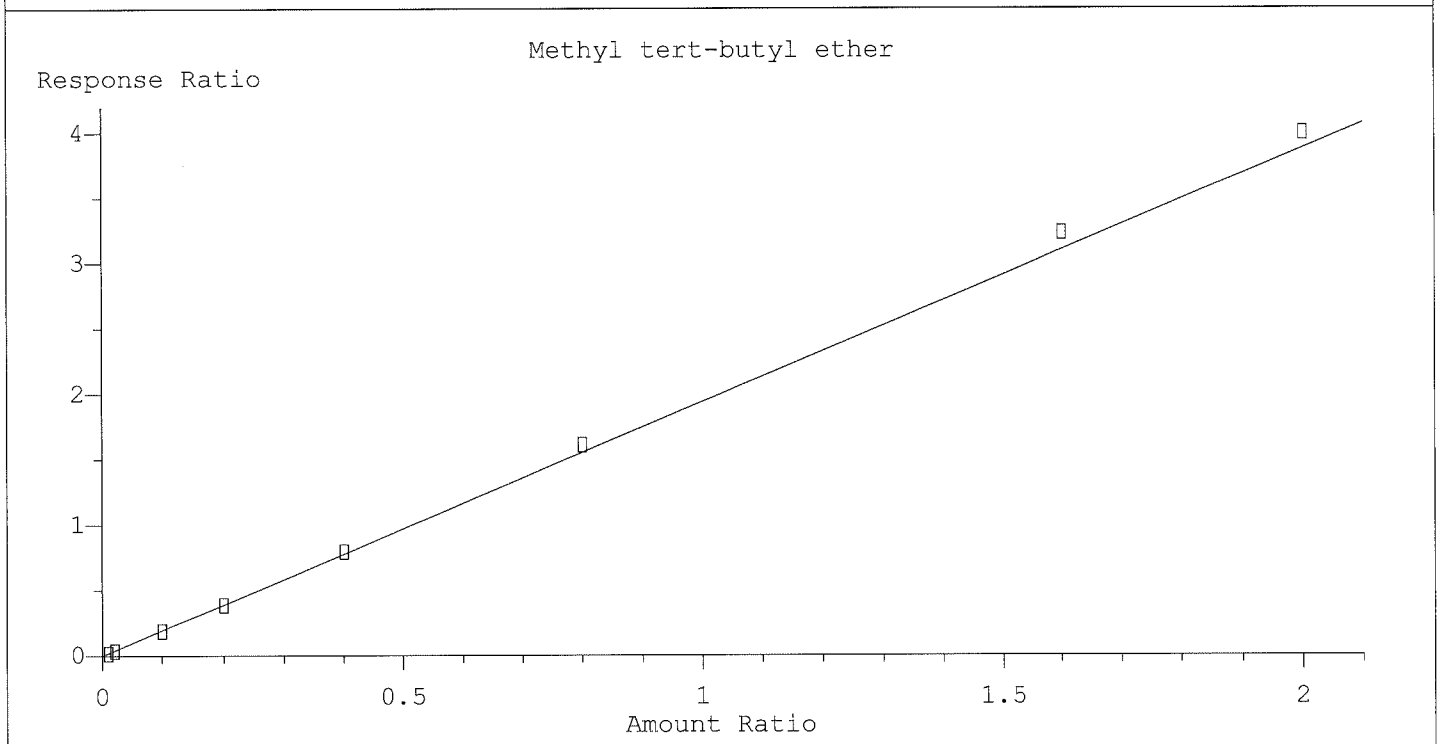


Resp Ratio = 9.40e-001 * Amt
RF Rel Std Dev = 6.5% Curve Fit: Avg RF

Calibration Plot Report

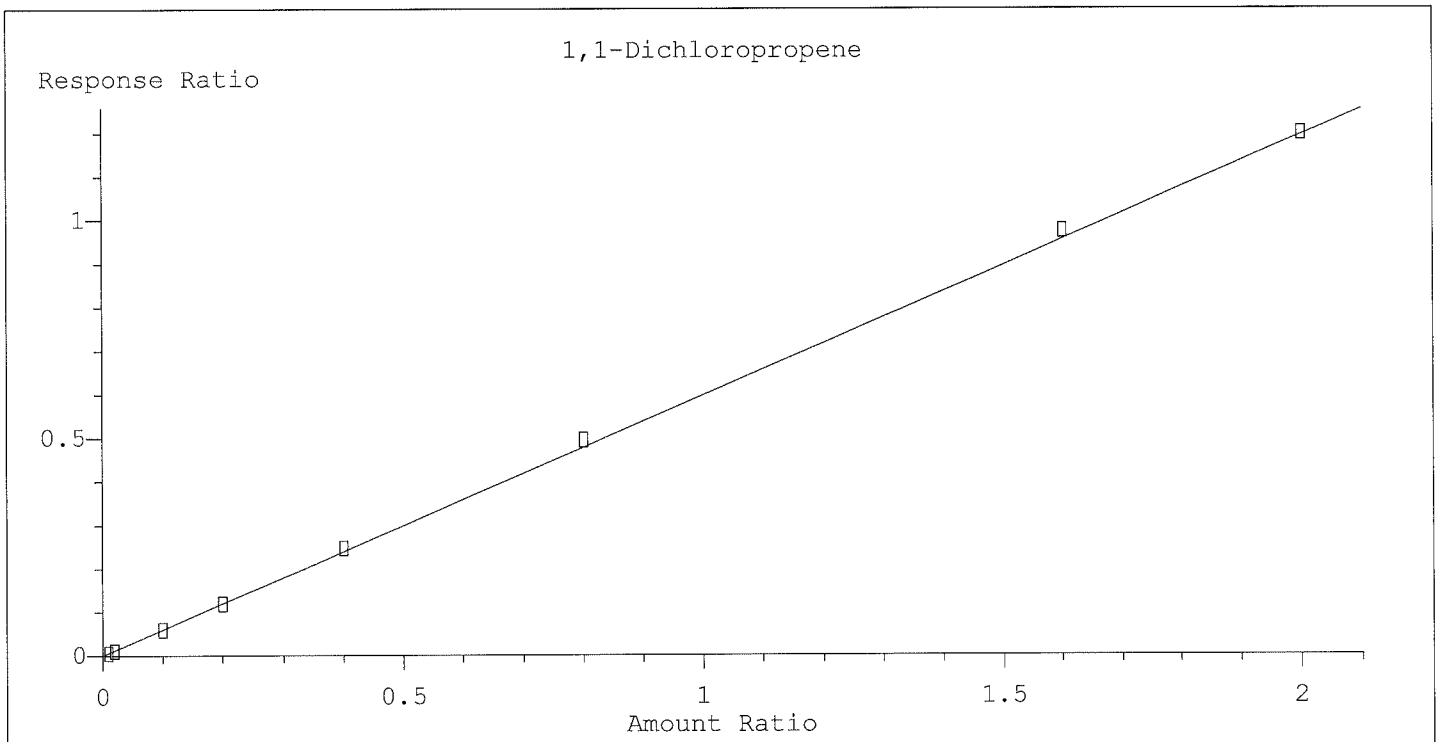


Resp Ratio = 4.69e+000 * Amt
RF Rel Std Dev = 11.0% Curve Fit: Avg RF

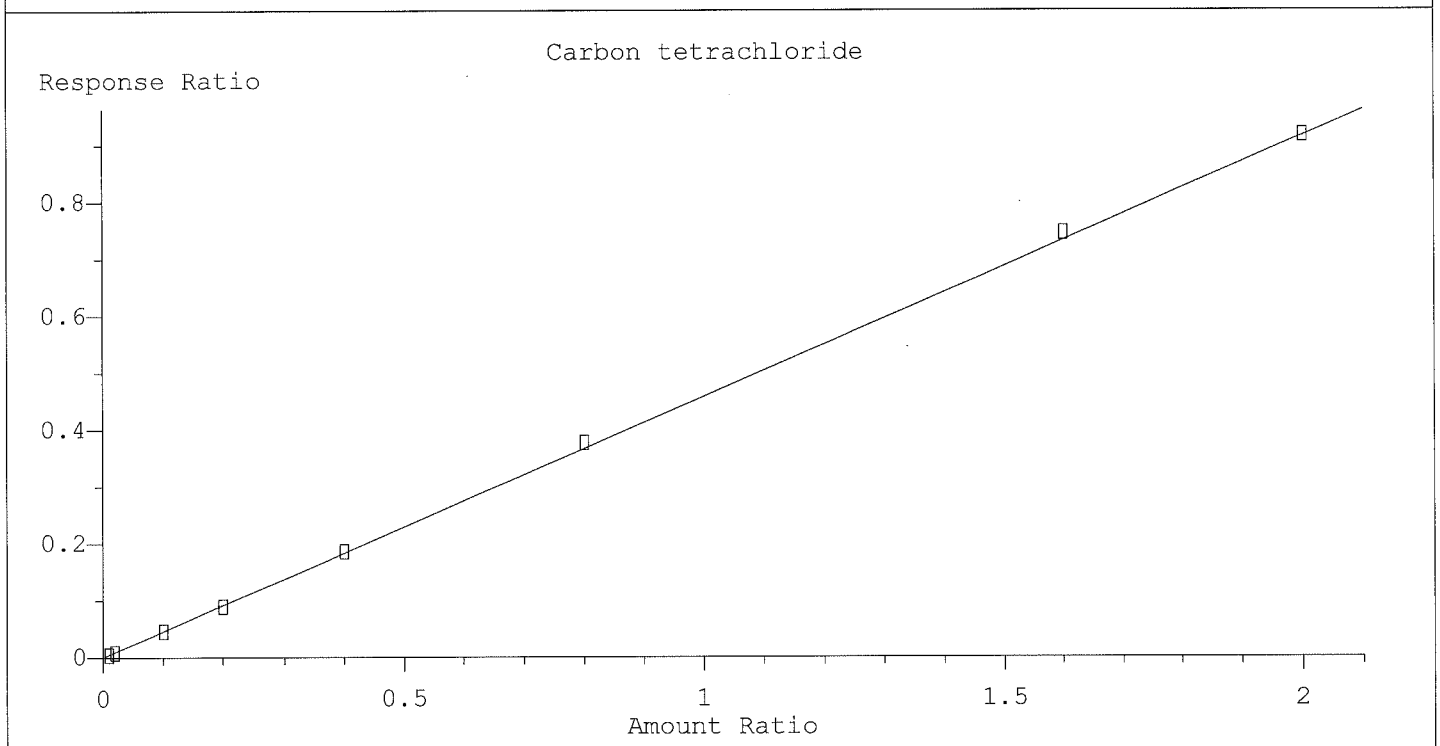


Resp Ratio = 1.94e+000 * Amt
RF Rel Std Dev = 4.1% Curve Fit: Avg RF

Calibration Plot Report

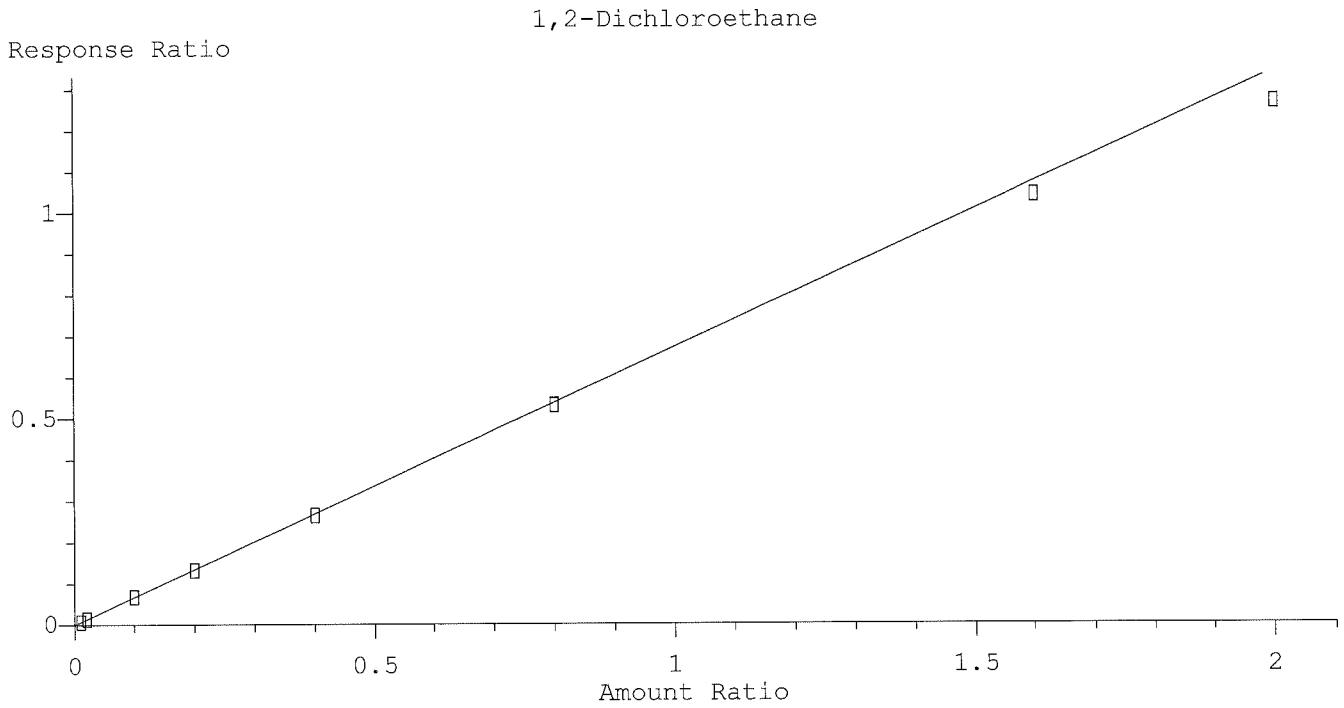


Resp Ratio = 5.97e-001 * Amt
RF Rel Std Dev = 3.2% Curve Fit: Avg RF

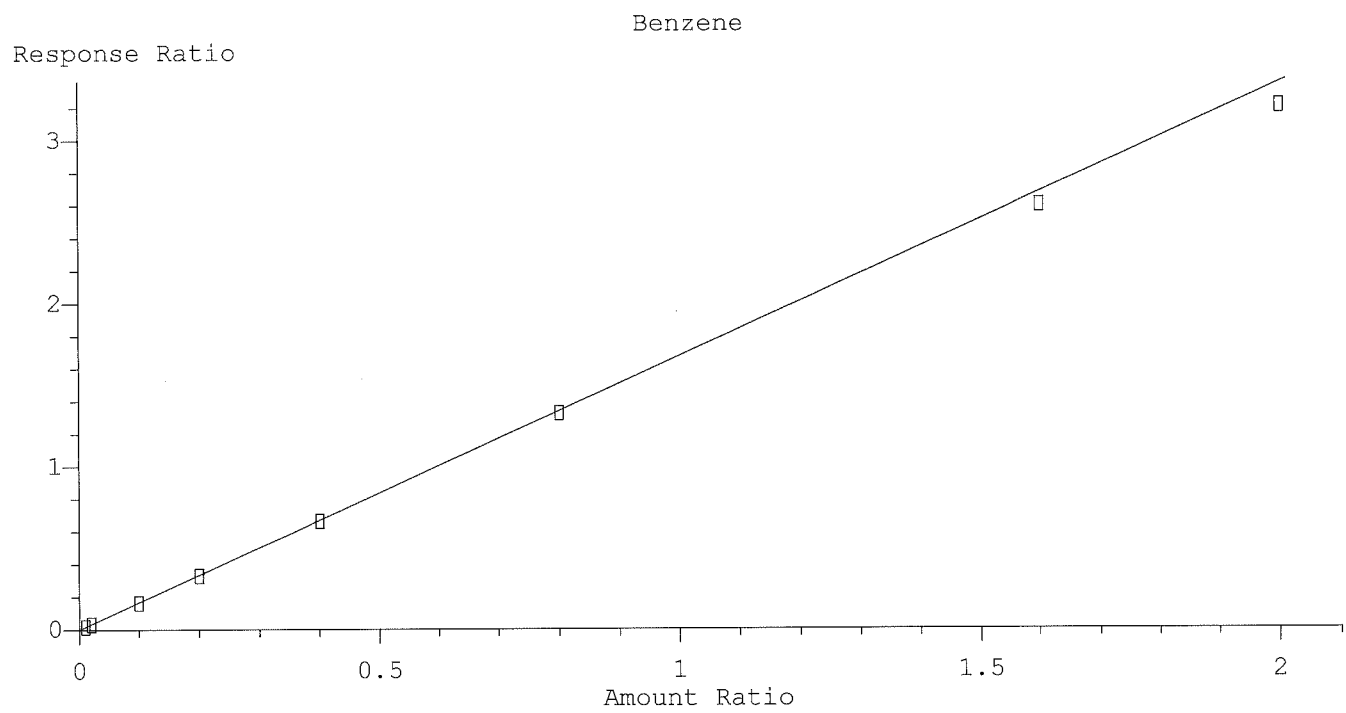


Resp Ratio = 4.57e-001 * Amt
RF Rel Std Dev = 3.6% Curve Fit: Avg RF

Calibration Plot Report

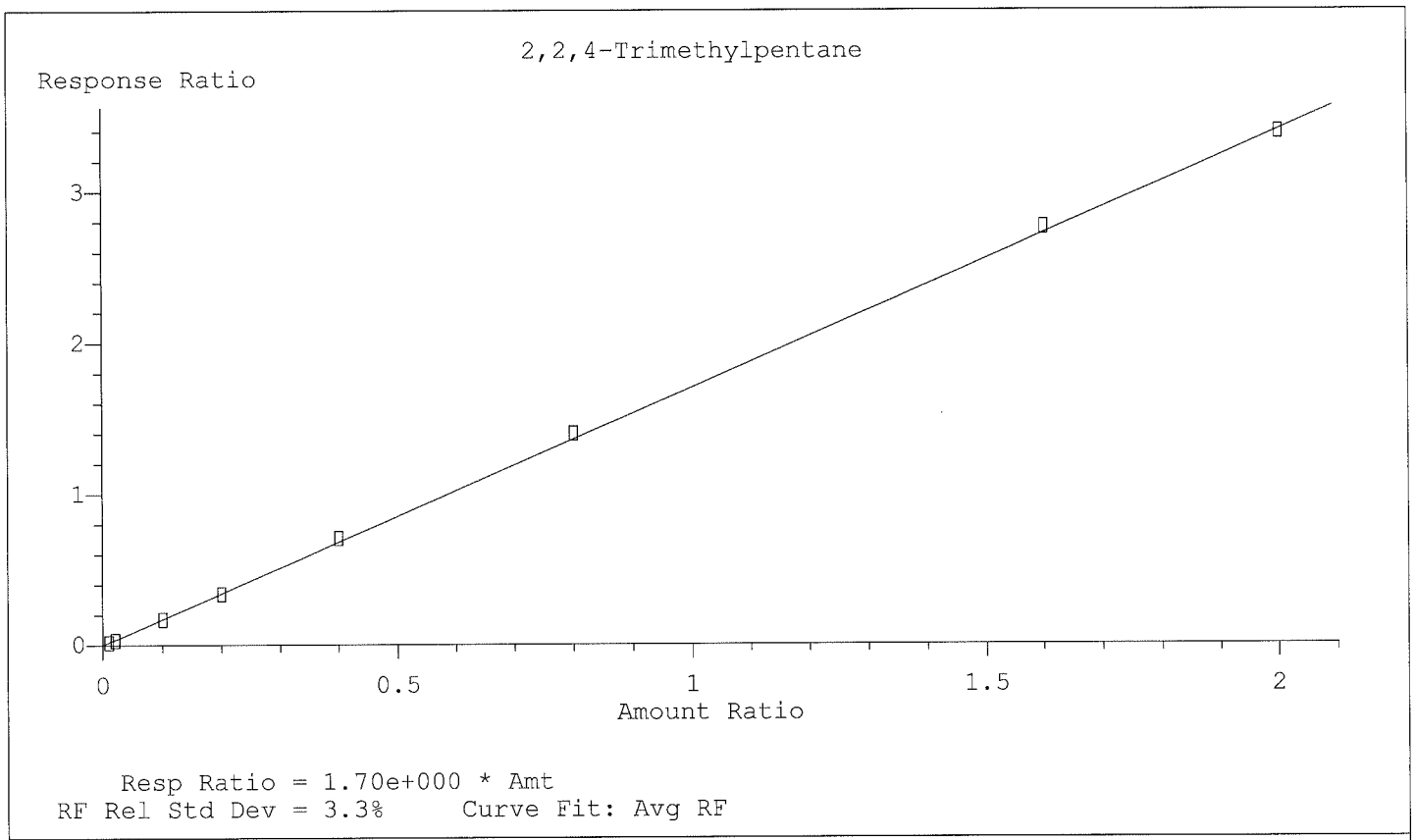


Resp Ratio = 6.72e-001 * Amt
RF Rel Std Dev = 4.0% Curve Fit: Avg RF

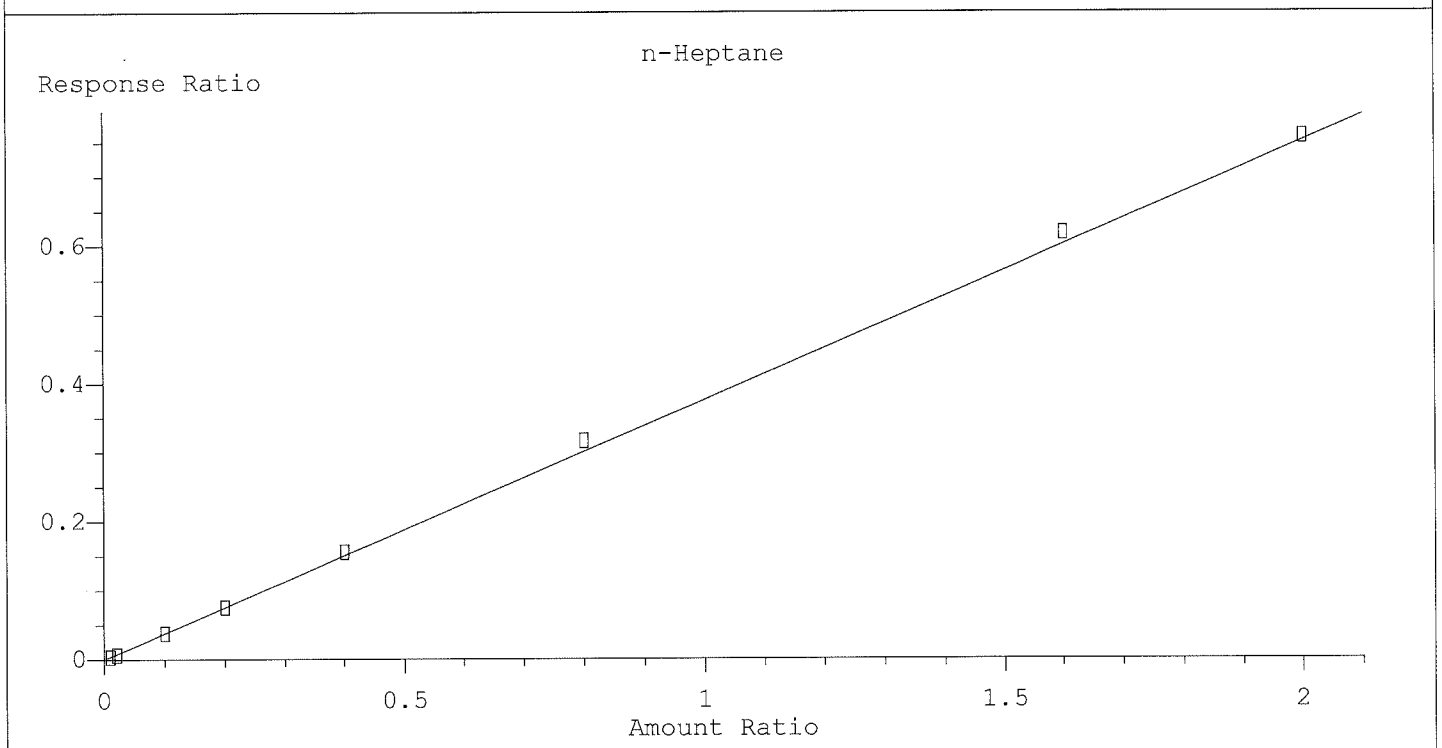


Resp Ratio = 1.67e+000 * Amt
RF Rel Std Dev = 4.7% Curve Fit: Avg RF

Calibration Plot Report

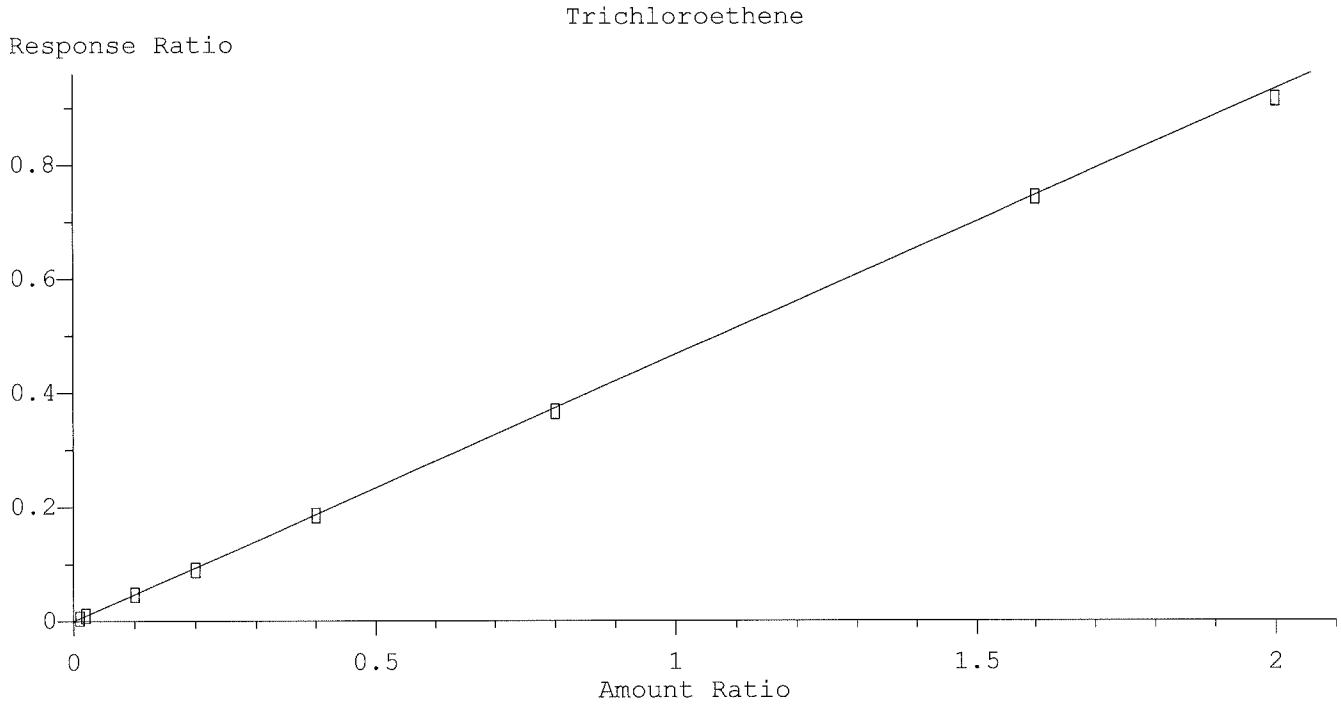


Resp Ratio = 1.70e+000 * Amt
RF Rel Std Dev = 3.3% Curve Fit: Avg RF

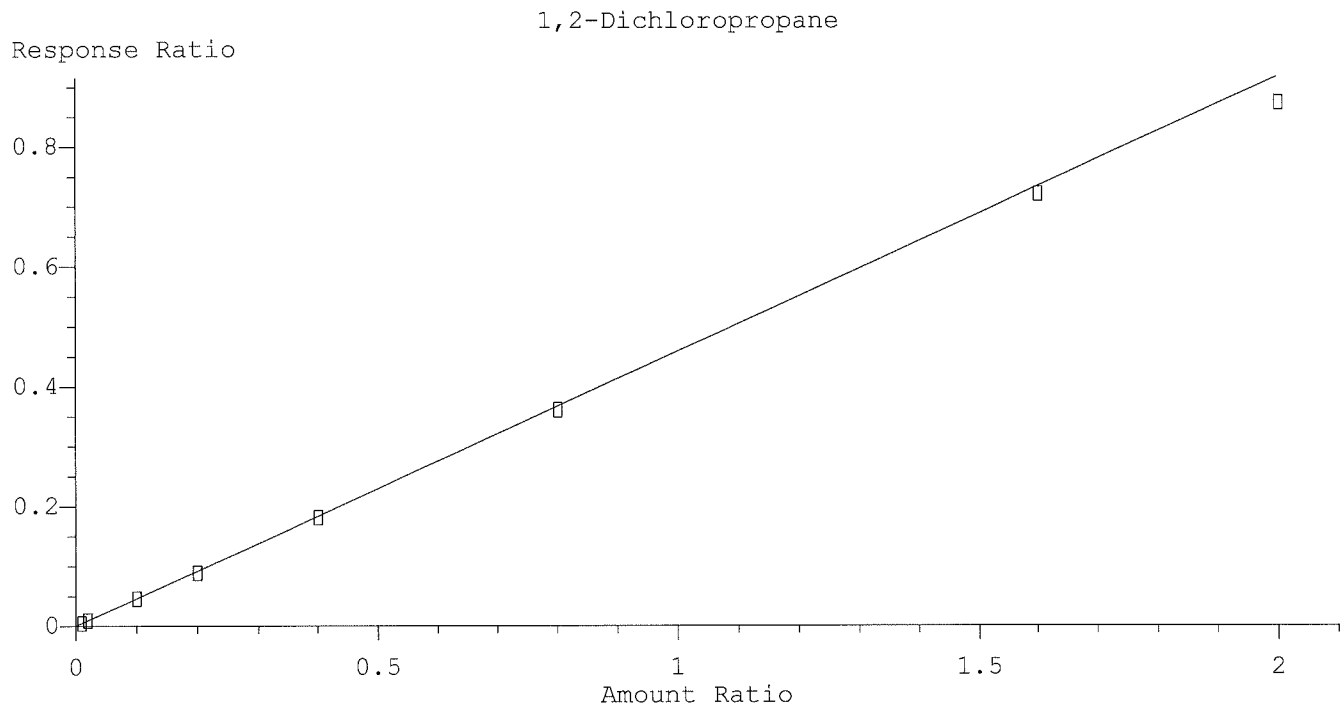


Resp Ratio = 3.75e-001 * Amt
RF Rel Std Dev = 5.0% Curve Fit: Avg RF

Calibration Plot Report

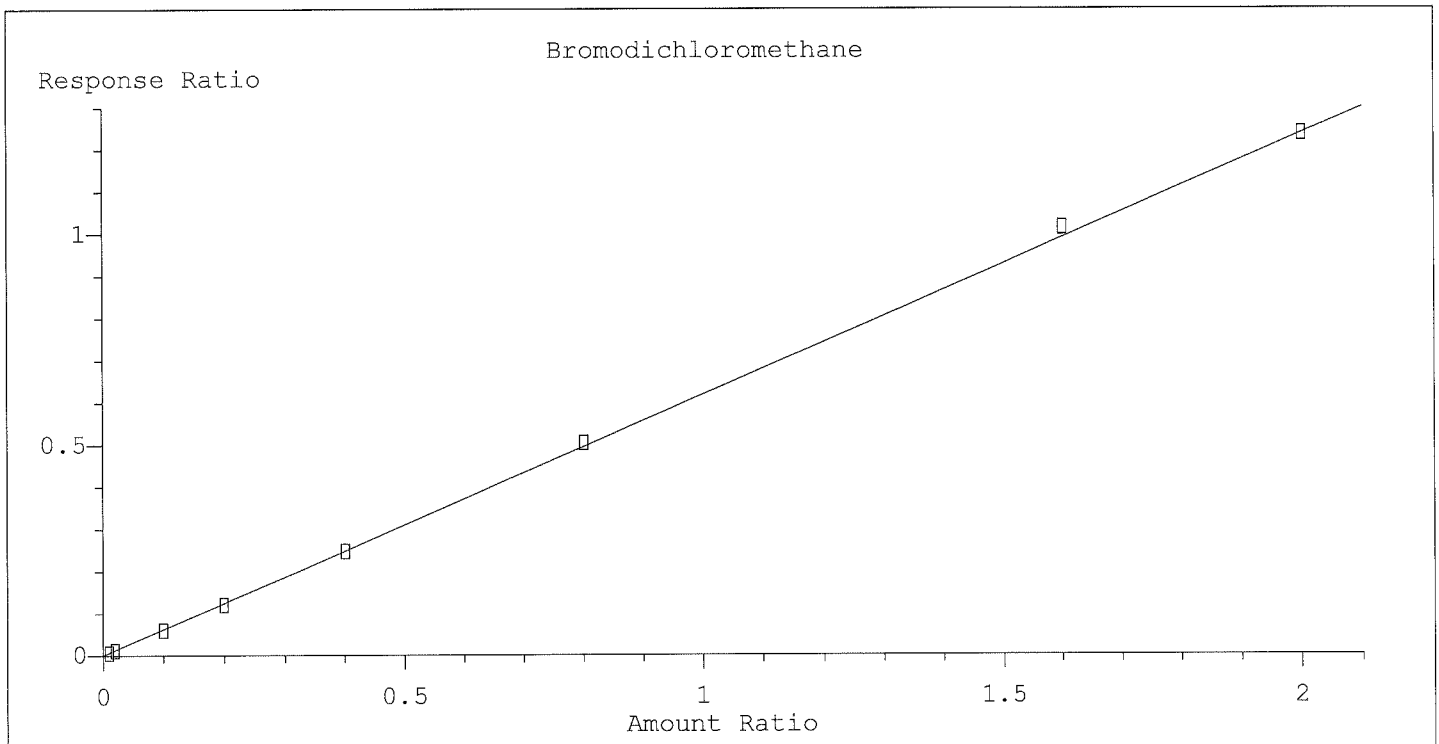


Resp Ratio = 4.66e-001 * Amt
RF Rel Std Dev = 3.3% Curve Fit: Avg RF

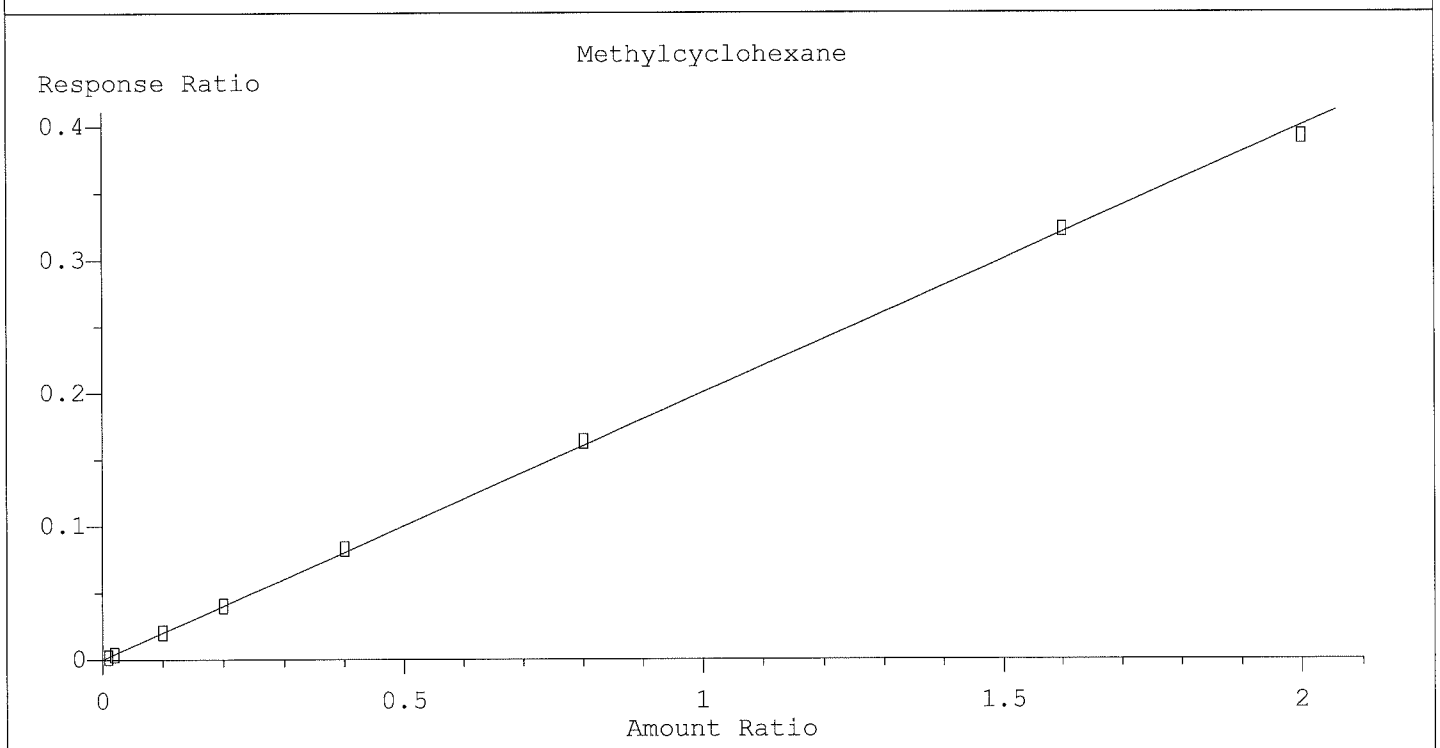


Resp Ratio = 4.59e-001 * Amt
RF Rel Std Dev = 4.3% Curve Fit: Avg RF

Calibration Plot Report

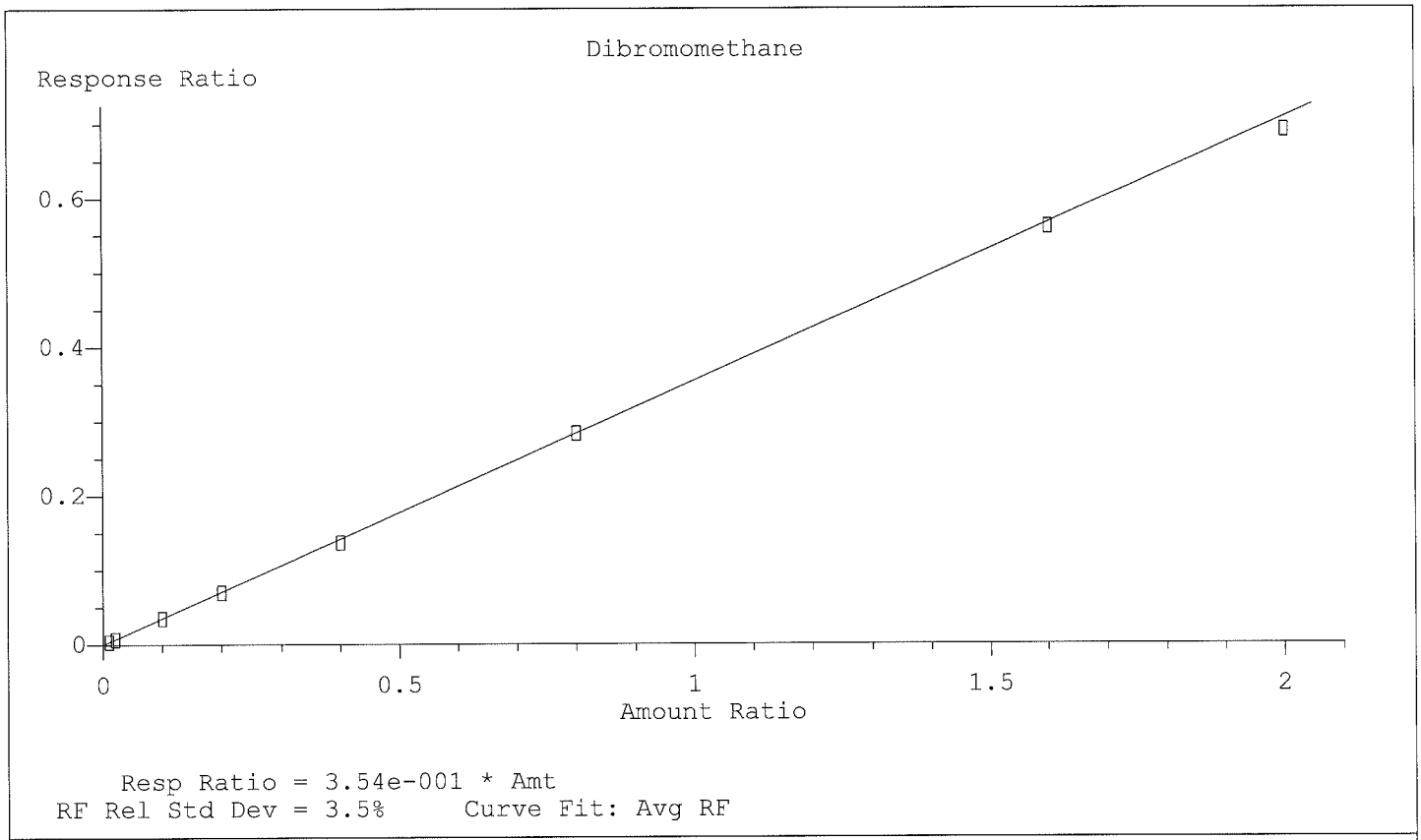


Resp Ratio = 6.18e-001 * Amt
RF Rel Std Dev = 1.9% Curve Fit: Avg RF

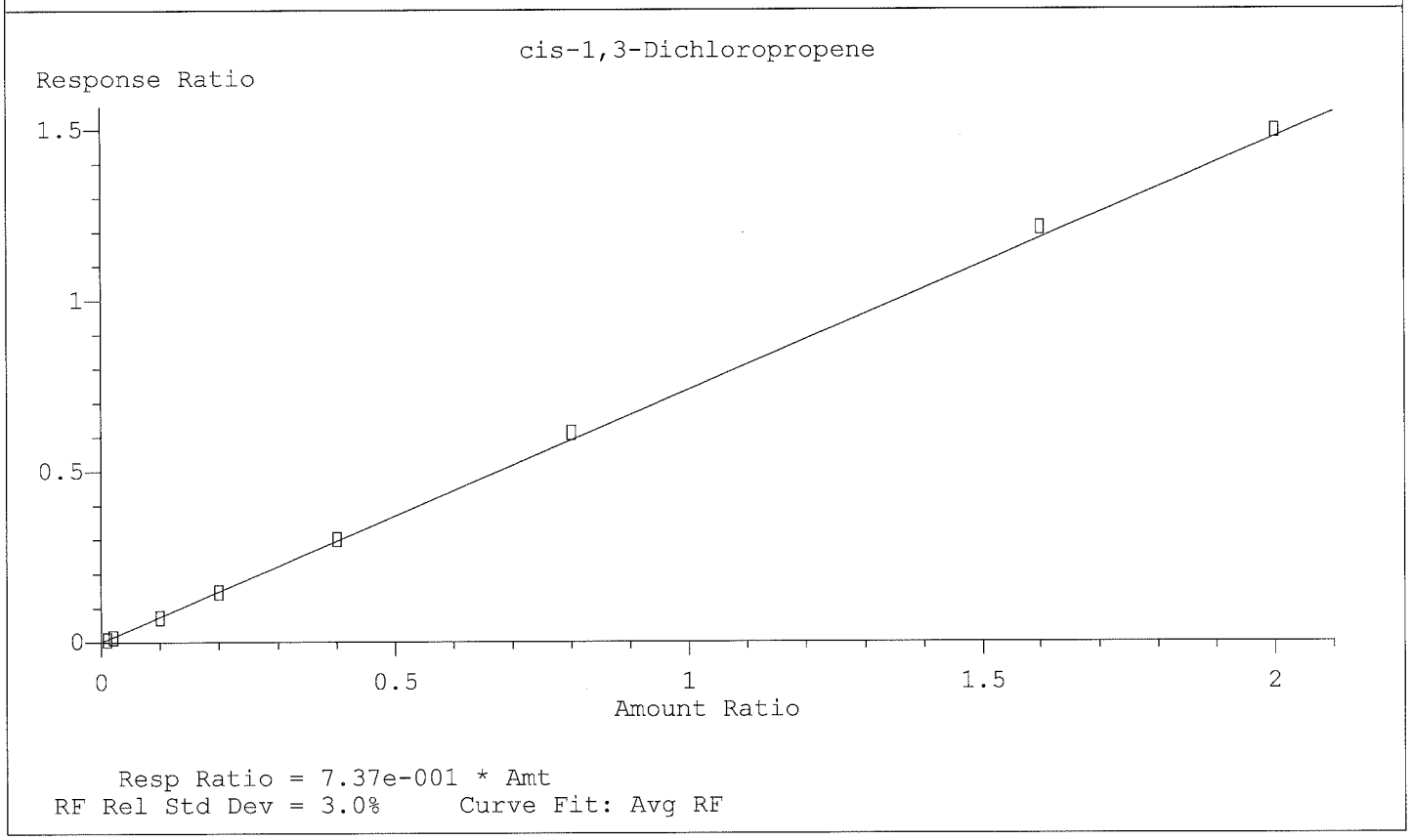


Resp Ratio = 2.00e-001 * Amt
RF Rel Std Dev = 3.3% Curve Fit: Avg RF

Calibration Plot Report

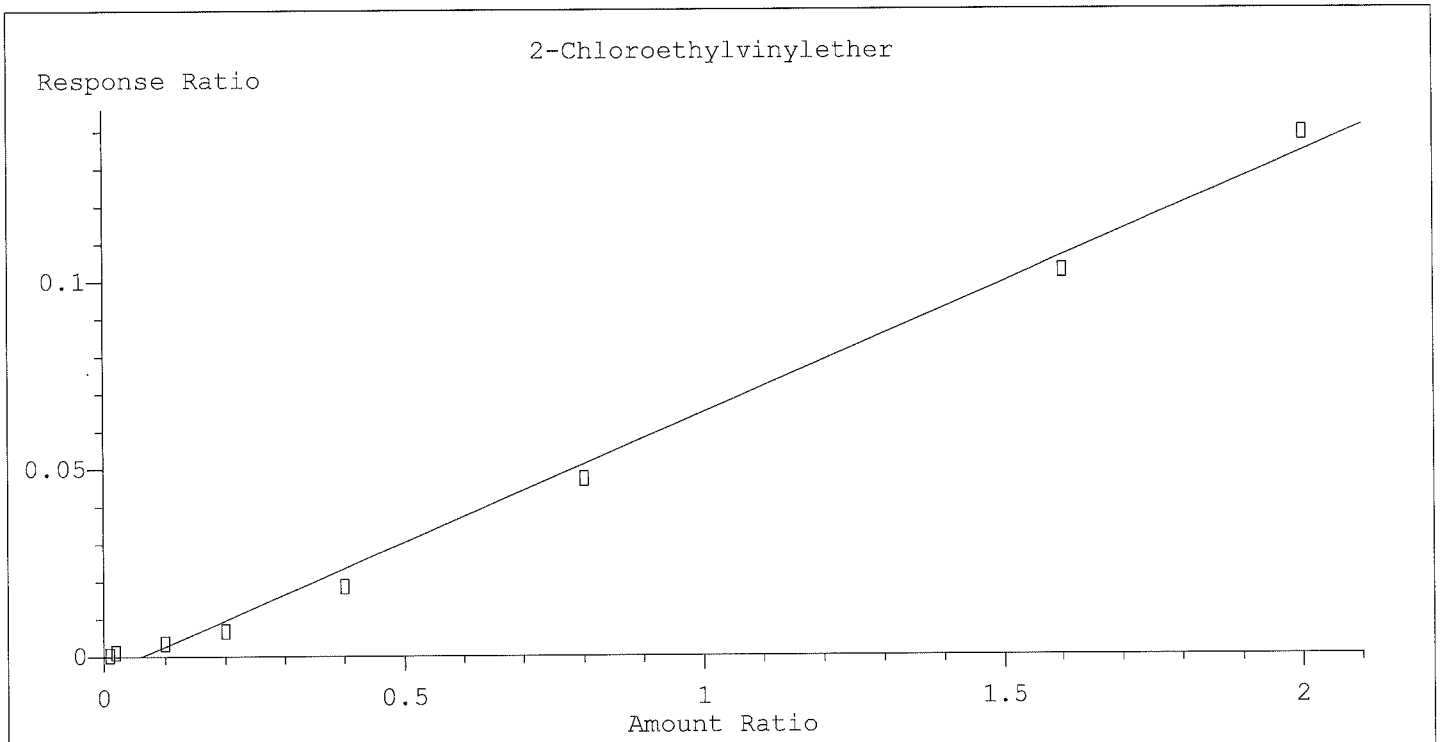


Resp Ratio = 3.54e-001 * Amt
RF Rel Std Dev = 3.5% Curve Fit: Avg RF

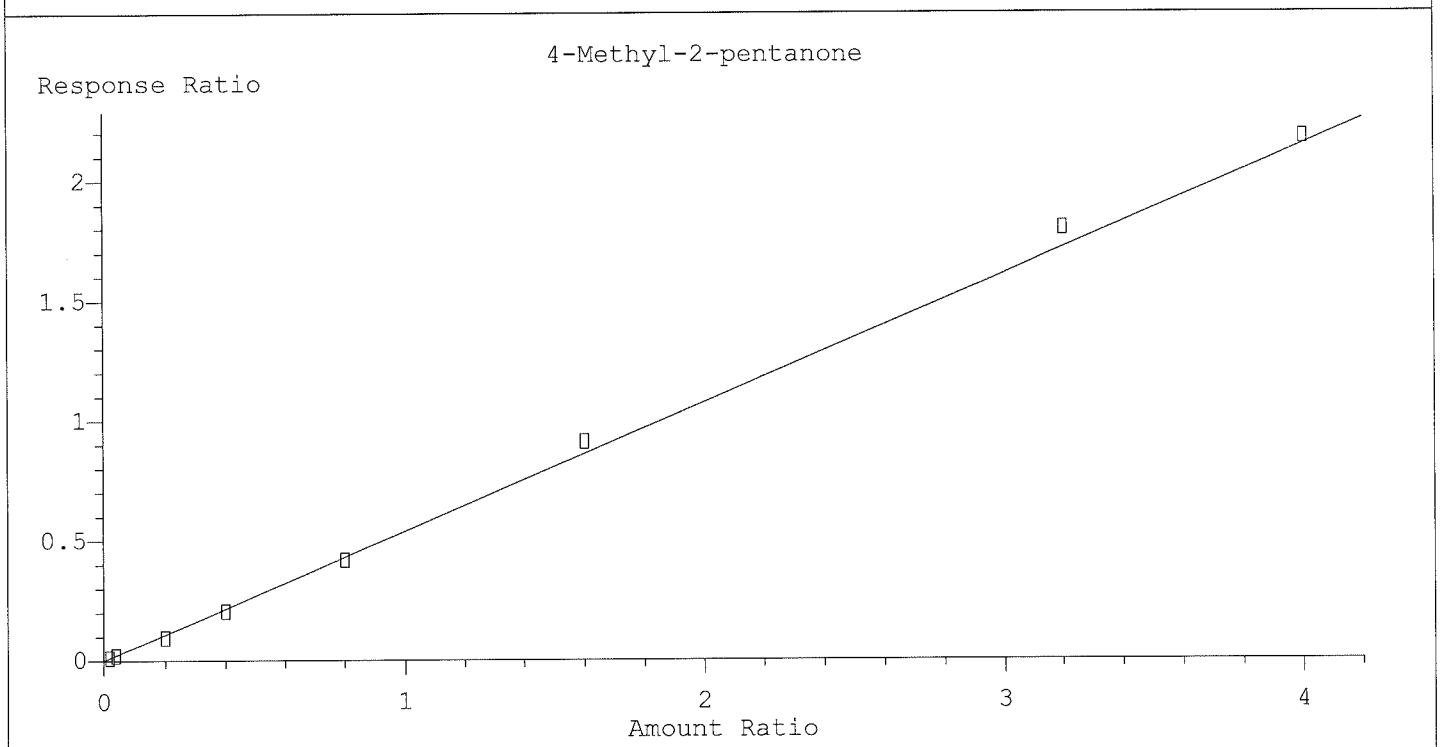


Resp Ratio = 7.37e-001 * Amt
RF Rel Std Dev = 3.0% Curve Fit: Avg RF

Calibration Plot Report

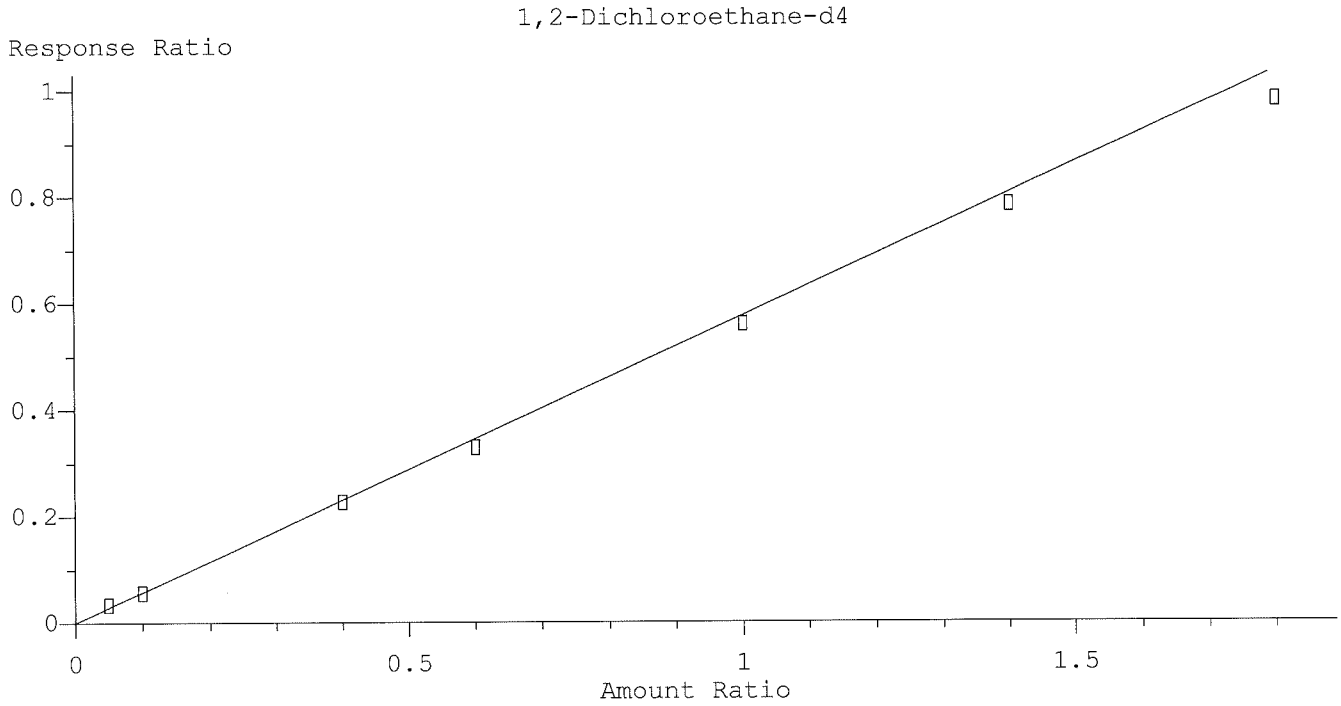


Resp Ratio = 6.90e-002 * Amt - 4.28e-003
Coef of Det (r^2) = 0.994 Curve Fit: Linear

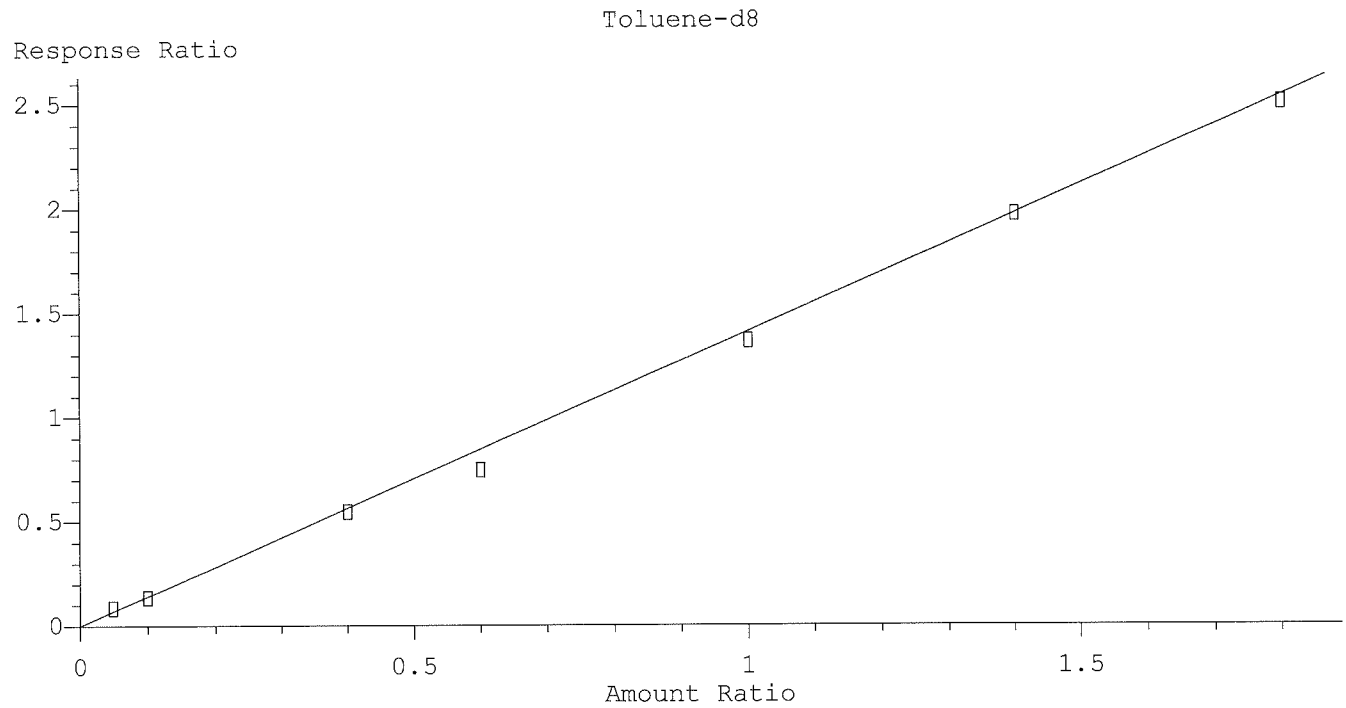


Resp Ratio = 5.36e-001 * Amt
RF Rel Std Dev = 6.3% Curve Fit: Avg RF

Calibration Plot Report

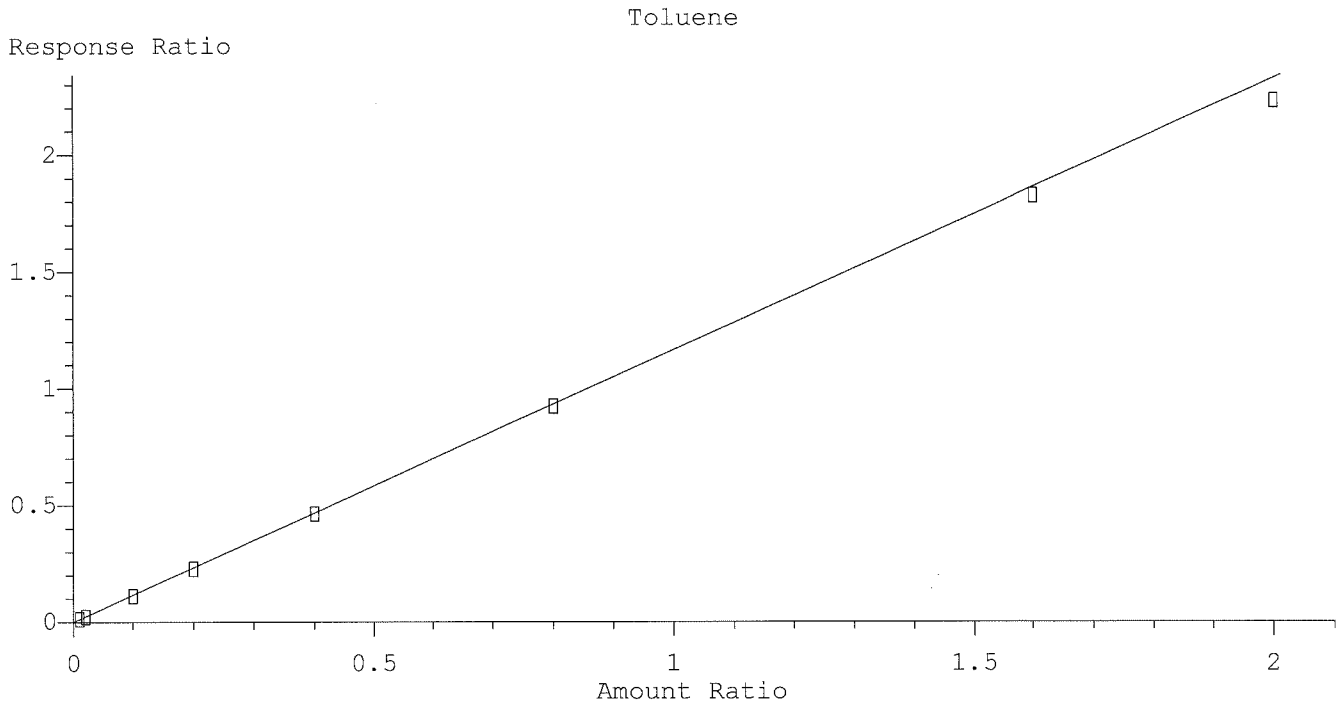


Resp Ratio = 5.76e-001 * Amt
RF Rel Std Dev = 8.4% Curve Fit: Avg RF

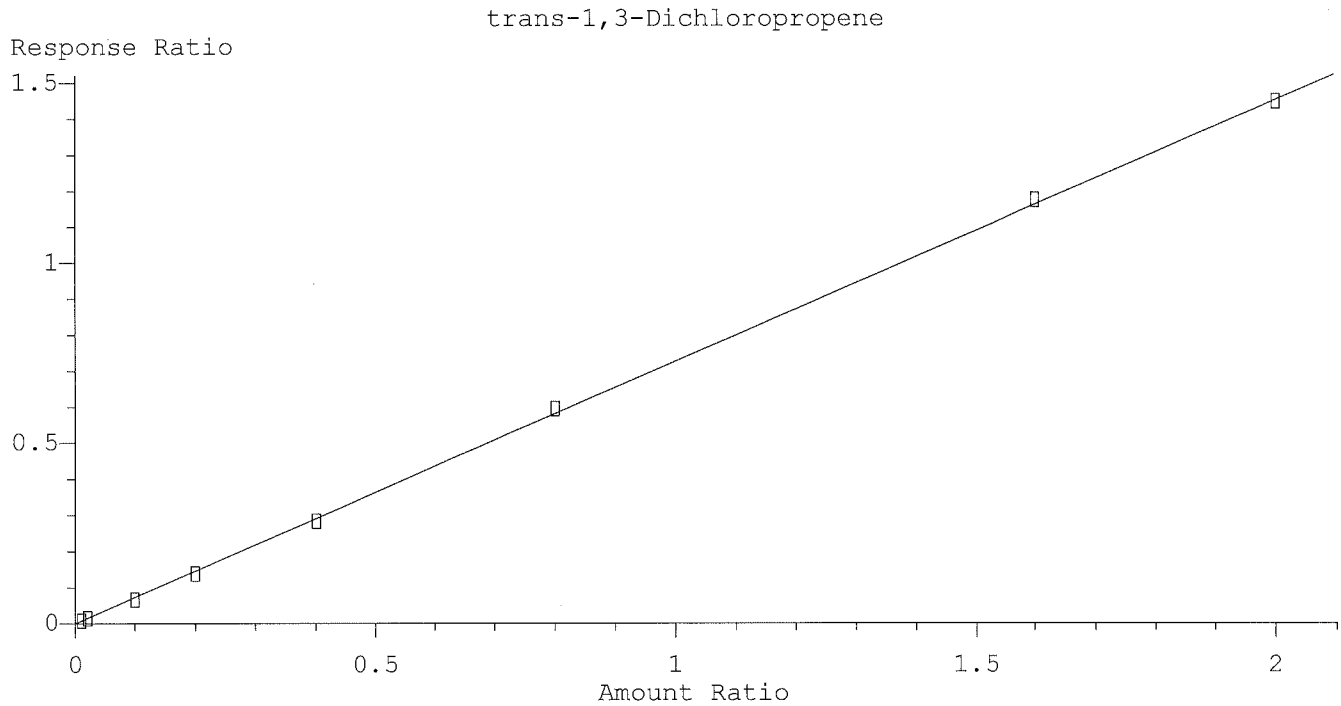


Resp Ratio = 1.41e+000 * Amt
RF Rel Std Dev = 10.6% Curve Fit: Avg RF

Calibration Plot Report

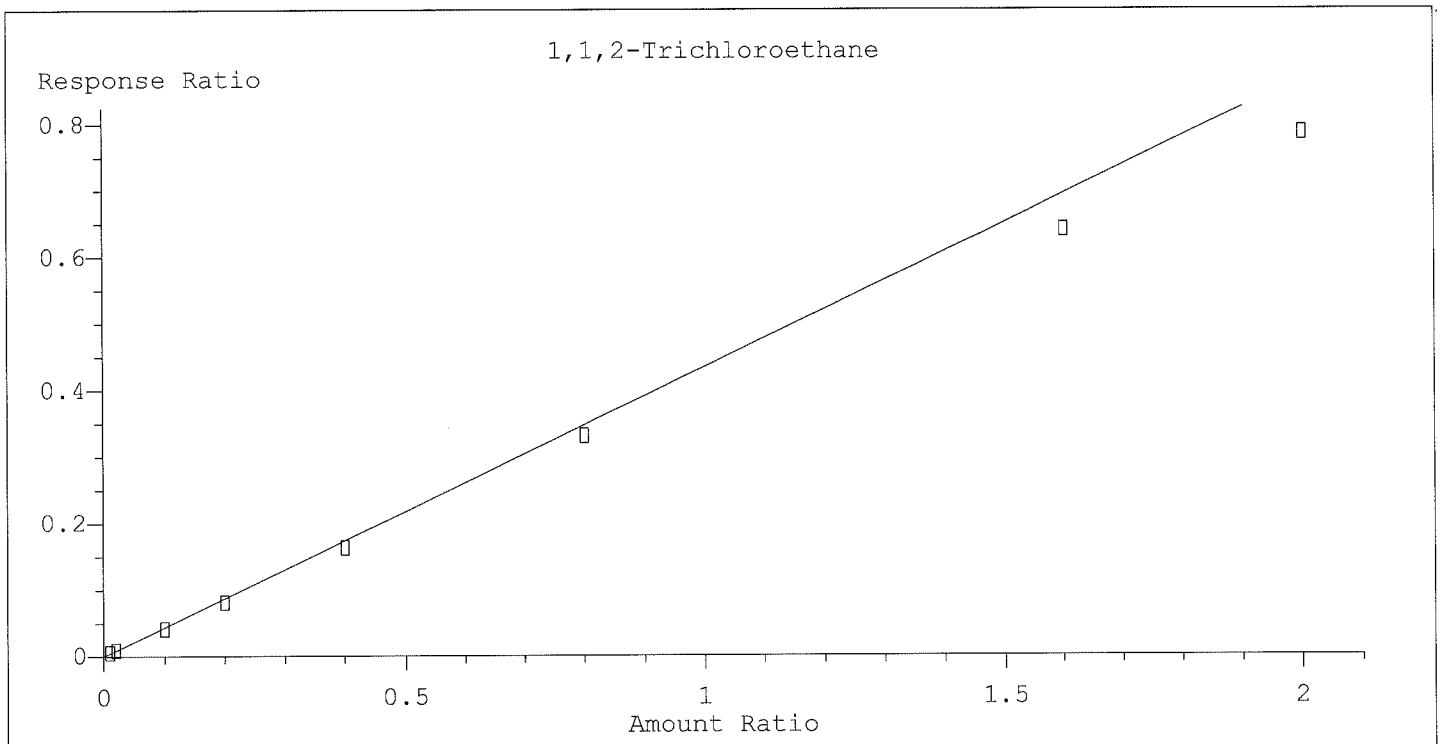


Resp Ratio = 1.17e+000 * Amt
RF Rel Std Dev = 6.2% Curve Fit: Avg RF

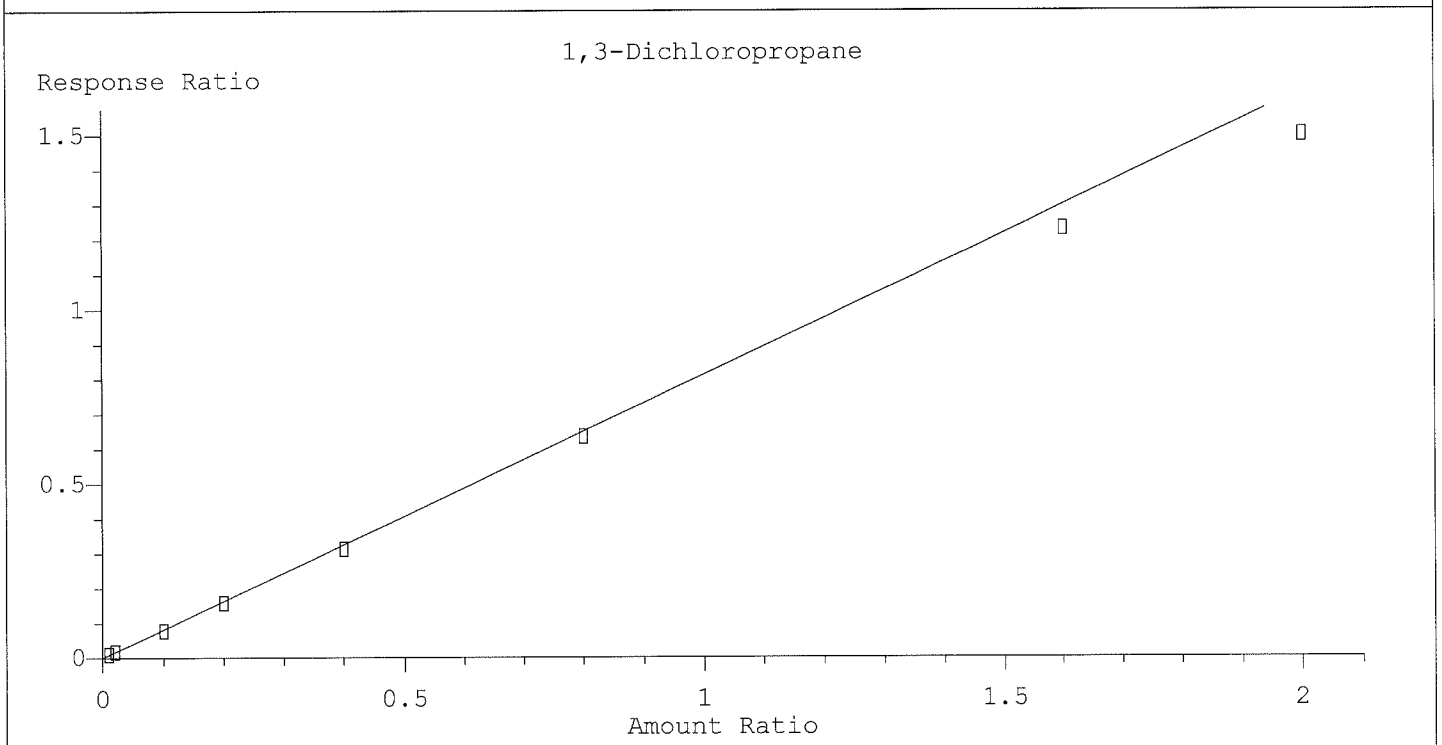


Resp Ratio = 7.25e-001 * Amt
RF Rel Std Dev = 4.9% Curve Fit: Avg RF

Calibration Plot Report

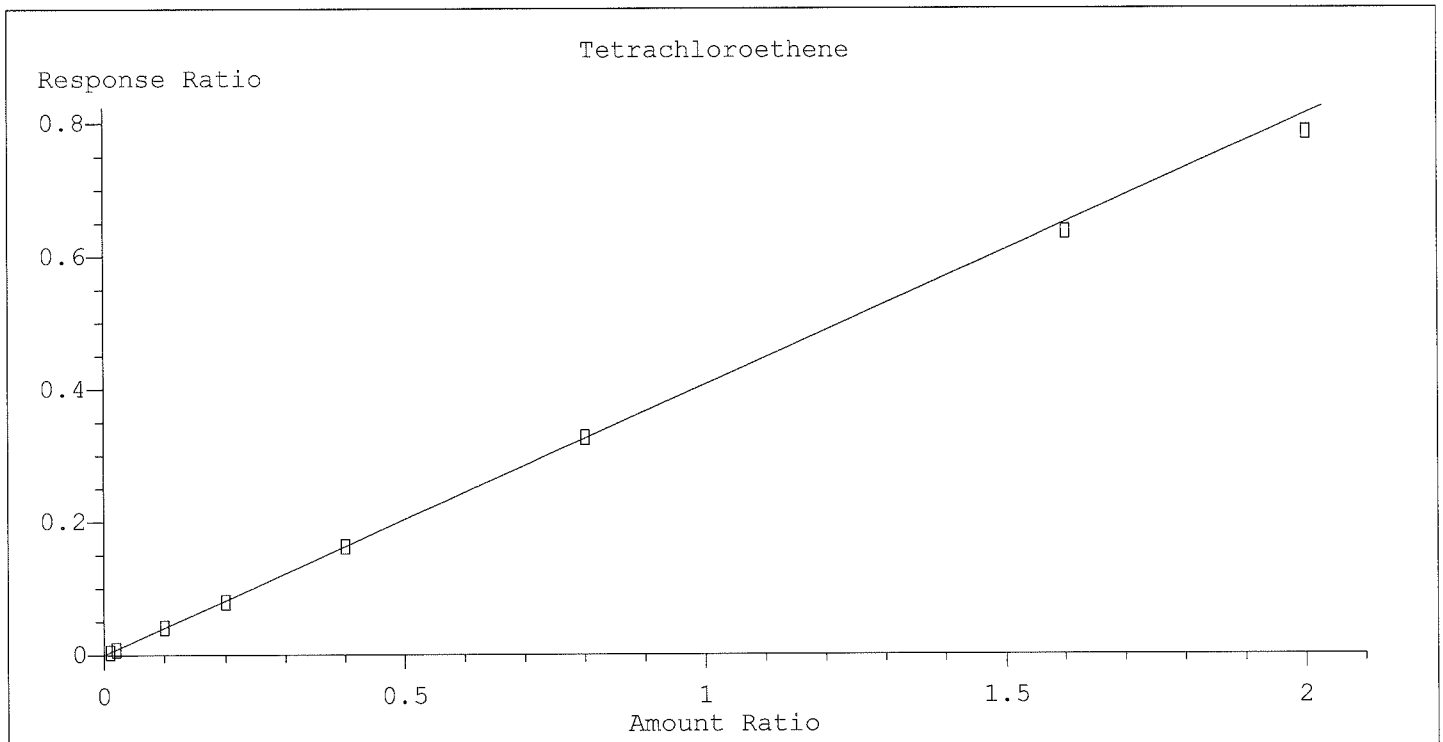


Resp Ratio = 4.34e-001 * Amt
RF Rel Std Dev = 14.6% Curve Fit: Avg RF

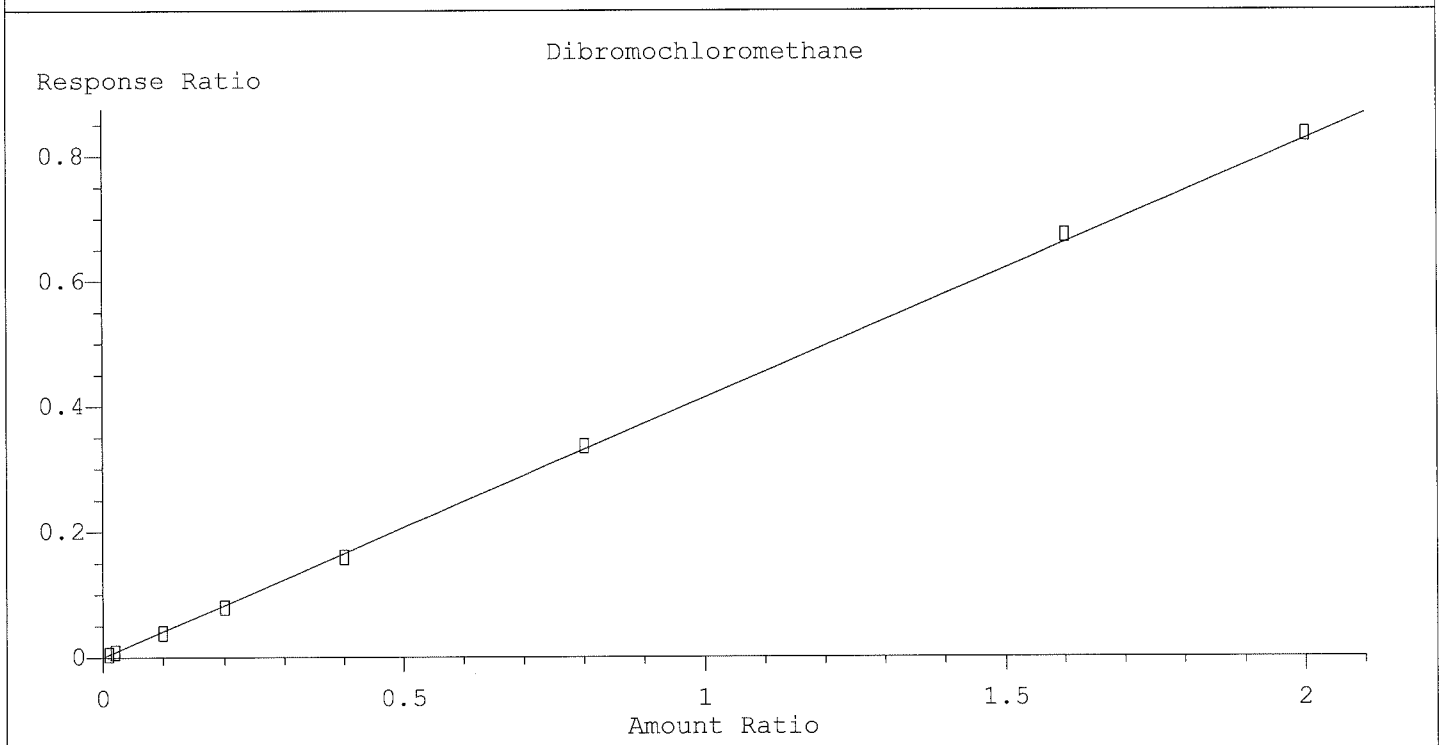


Resp Ratio = 8.12e-001 * Amt
RF Rel Std Dev = 8.8% Curve Fit: Avg RF

Calibration Plot Report

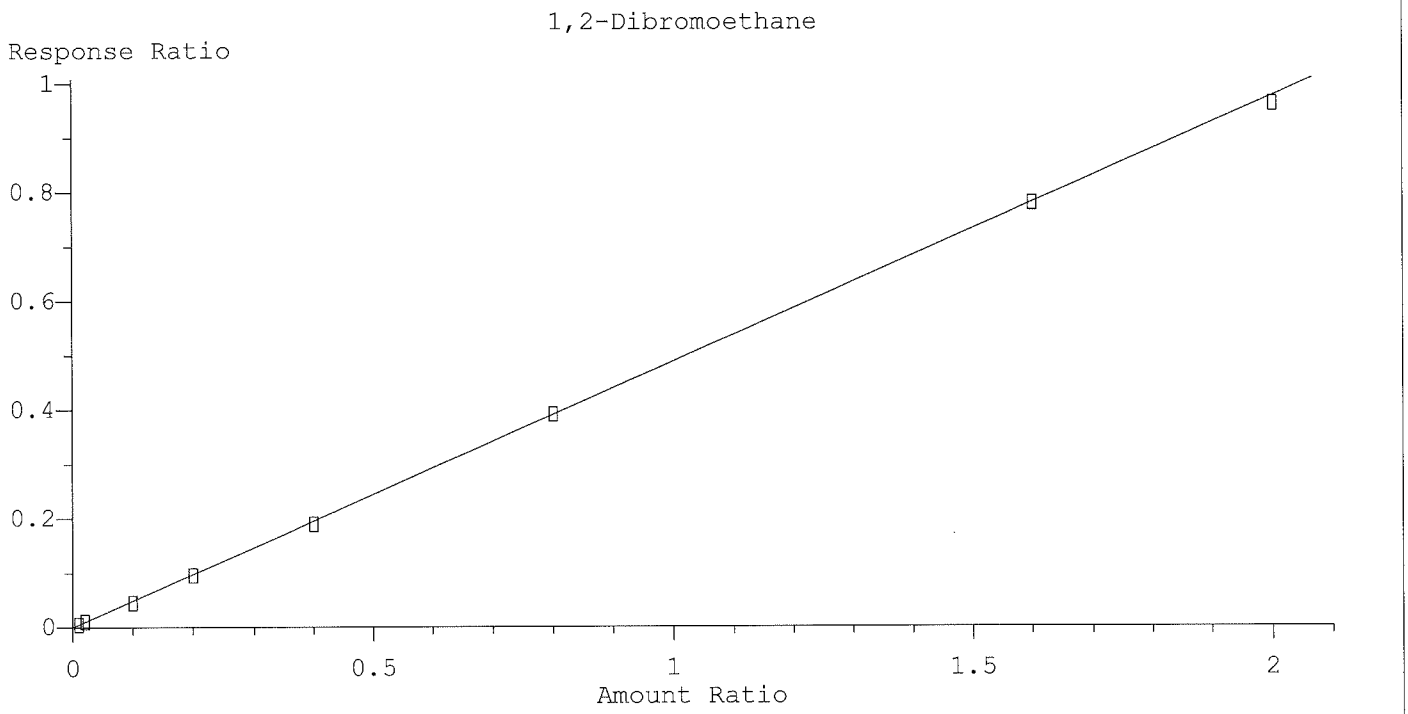


Resp Ratio = 4.07e-001 * Amt
RF Rel Std Dev = 2.5% Curve Fit: Avg RF

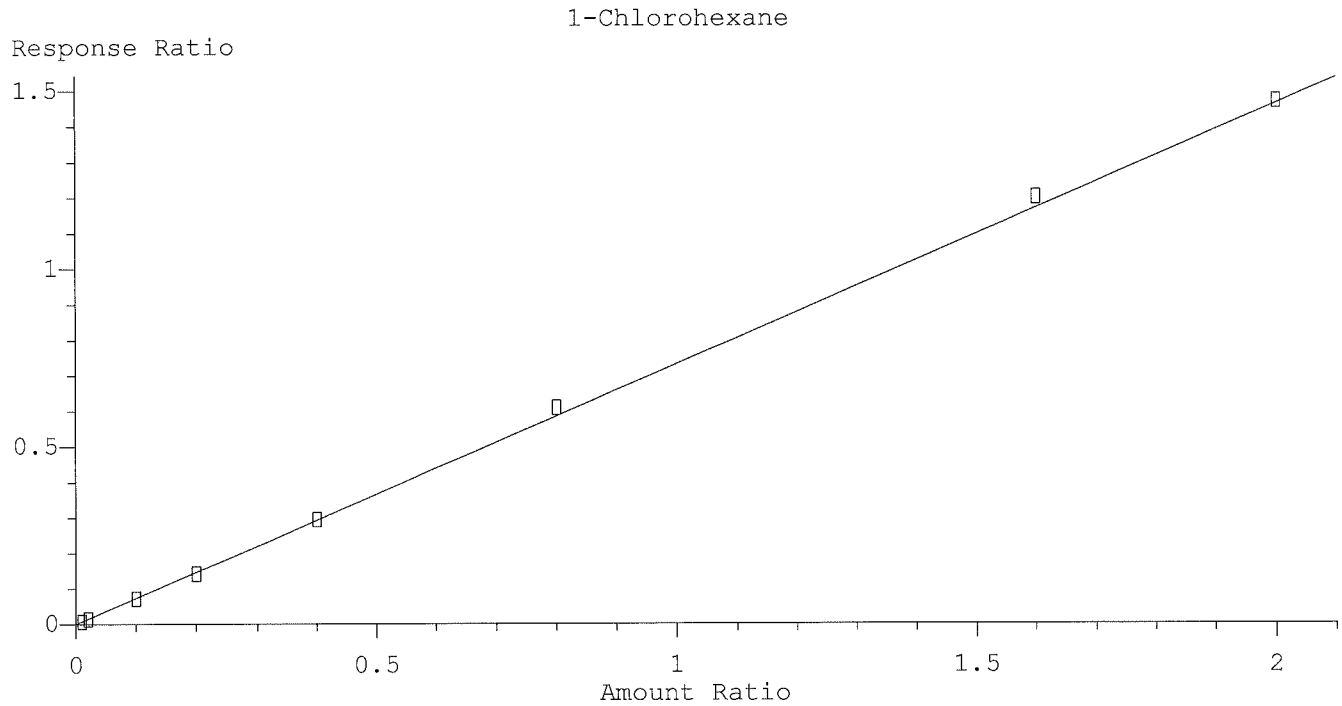


Resp Ratio = 4.13e-001 * Amt
RF Rel Std Dev = 4.4% Curve Fit: Avg RF

Calibration Plot Report

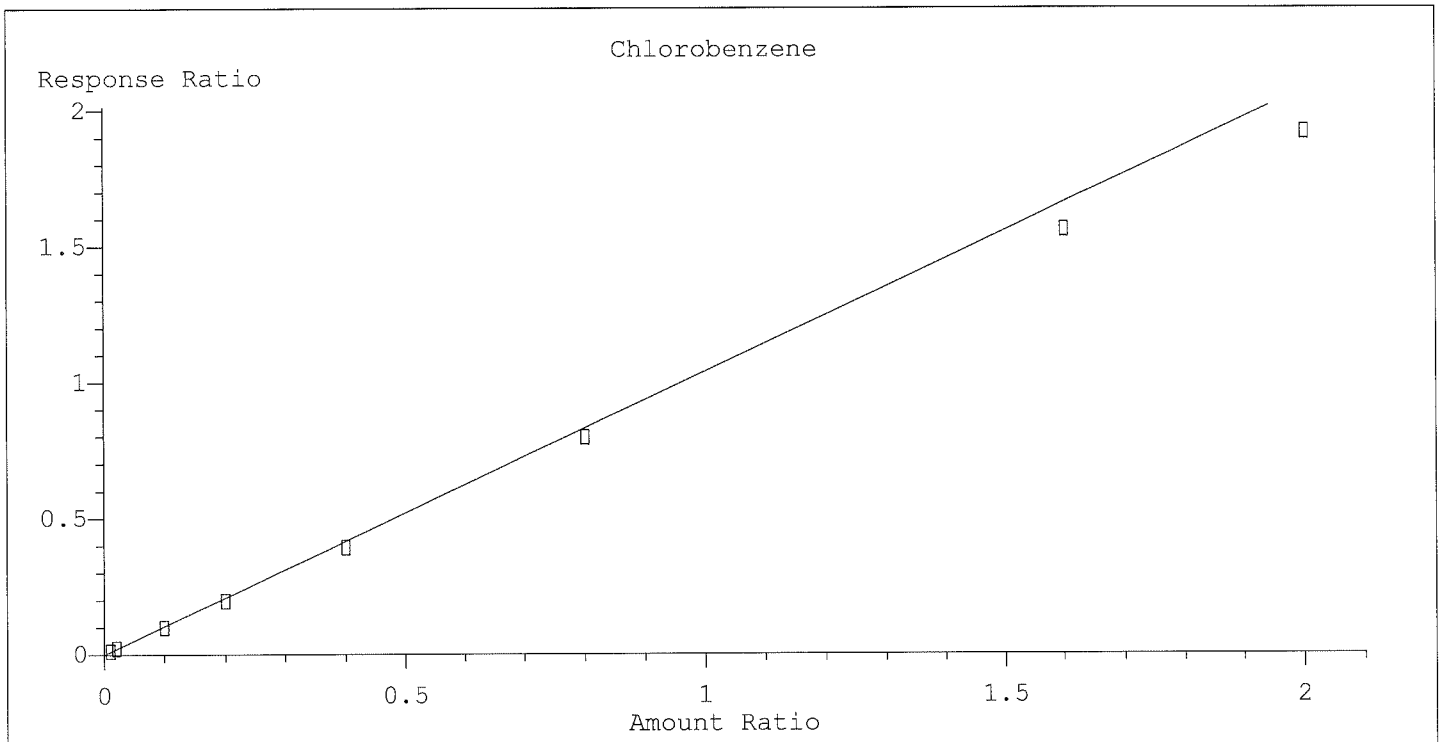


Resp Ratio = 4.88e-001 * Amt
RF Rel Std Dev = 4.8% Curve Fit: Avg RF

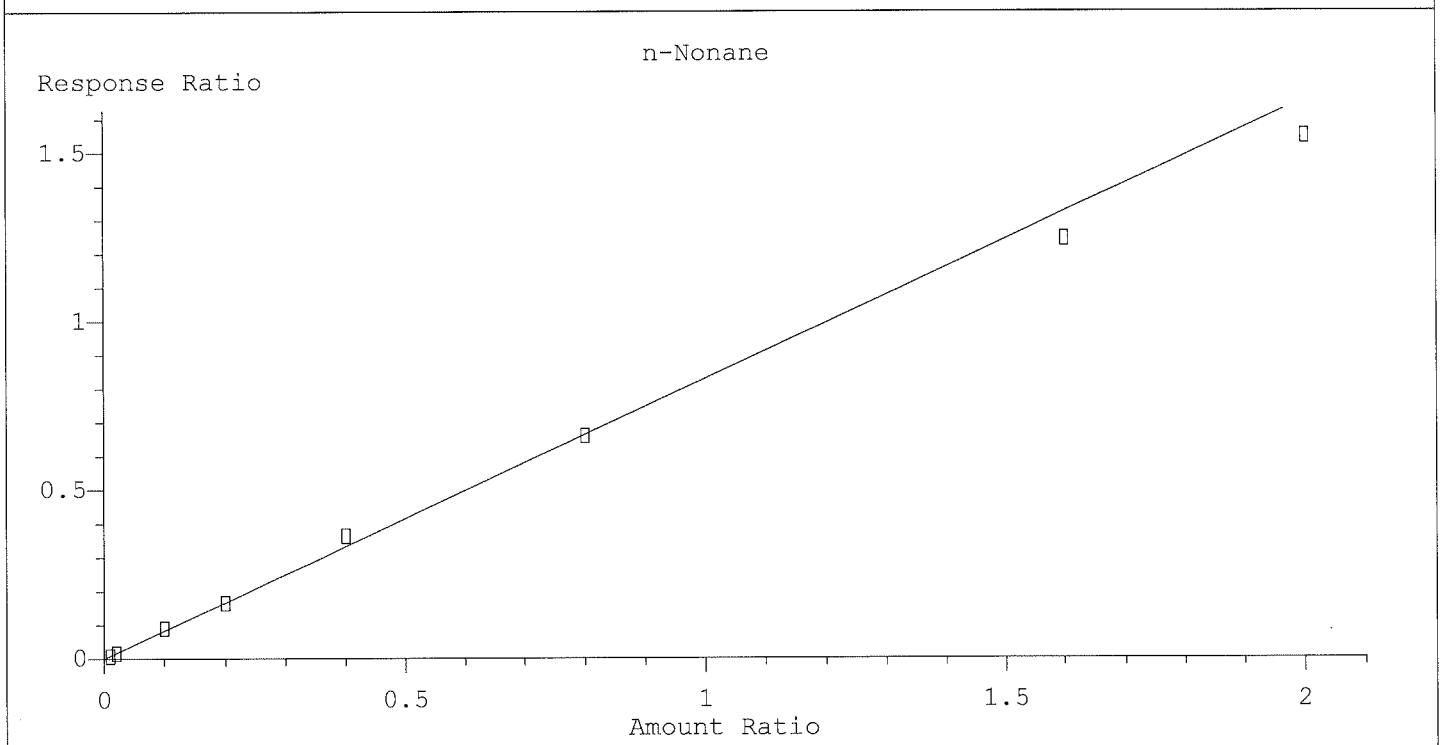


Resp Ratio = 7.31e-001 * Amt
RF Rel Std Dev = 2.6% Curve Fit: Avg RF

Calibration Plot Report

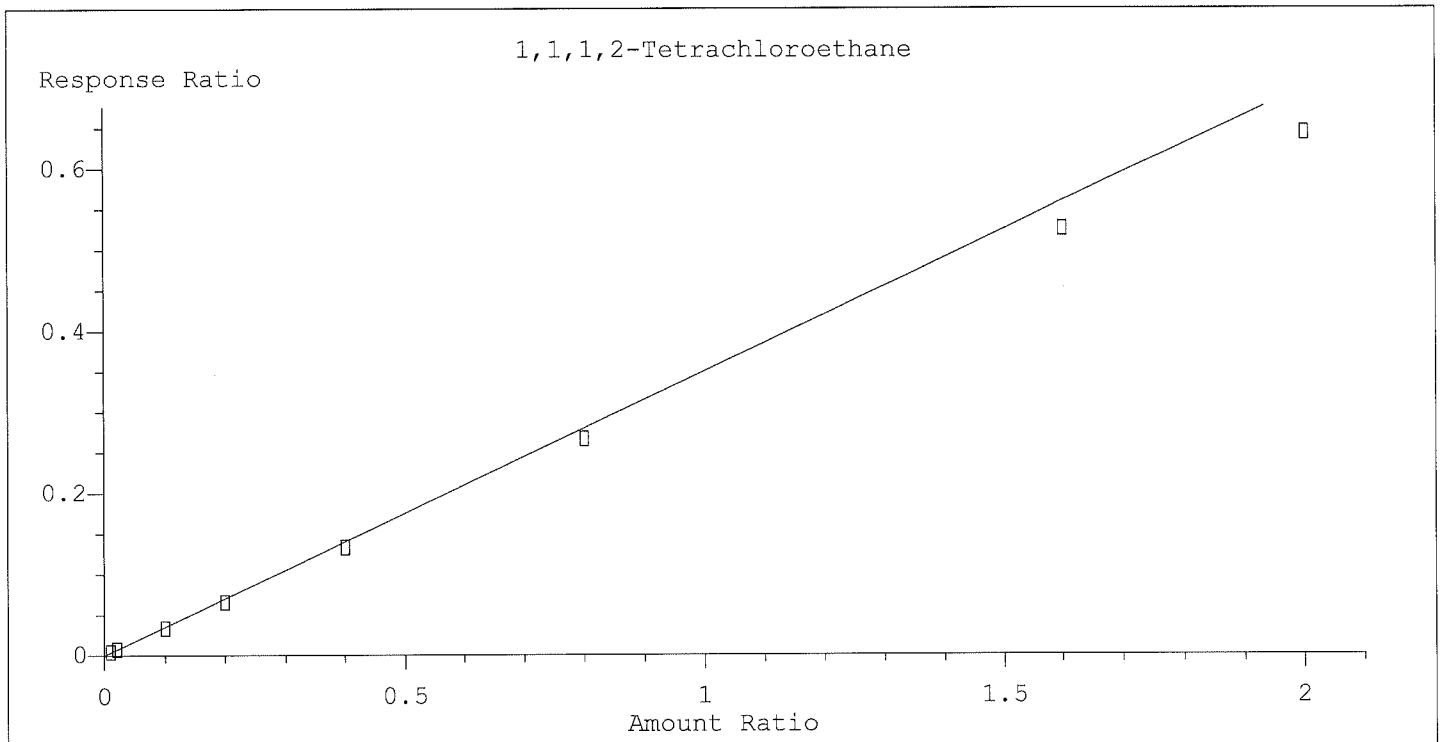


Resp Ratio = 1.04e+000 * Amt
RF Rel Std Dev = 10.2% Curve Fit: Avg RF

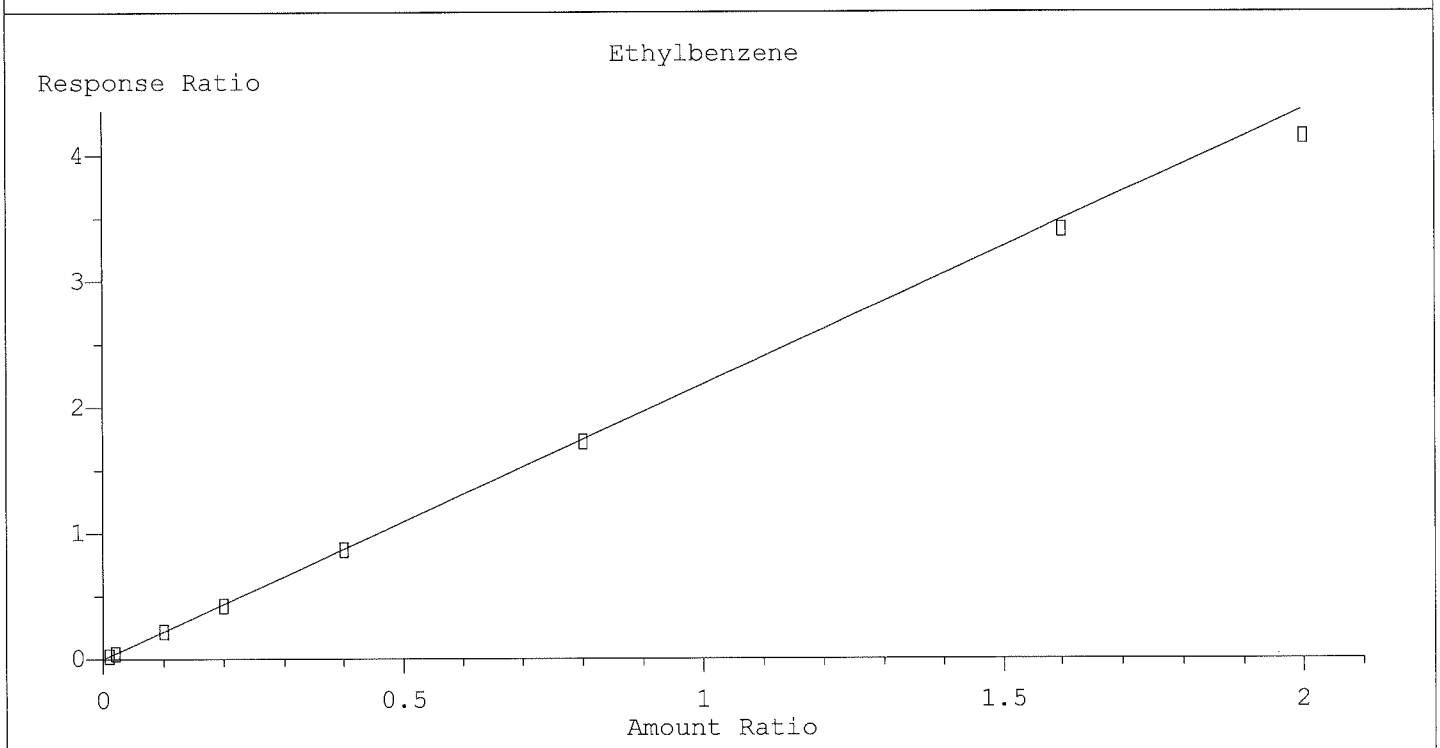


Resp Ratio = 8.27e-001 * Amt
RF Rel Std Dev = 6.3% Curve Fit: Avg RF

Calibration Plot Report

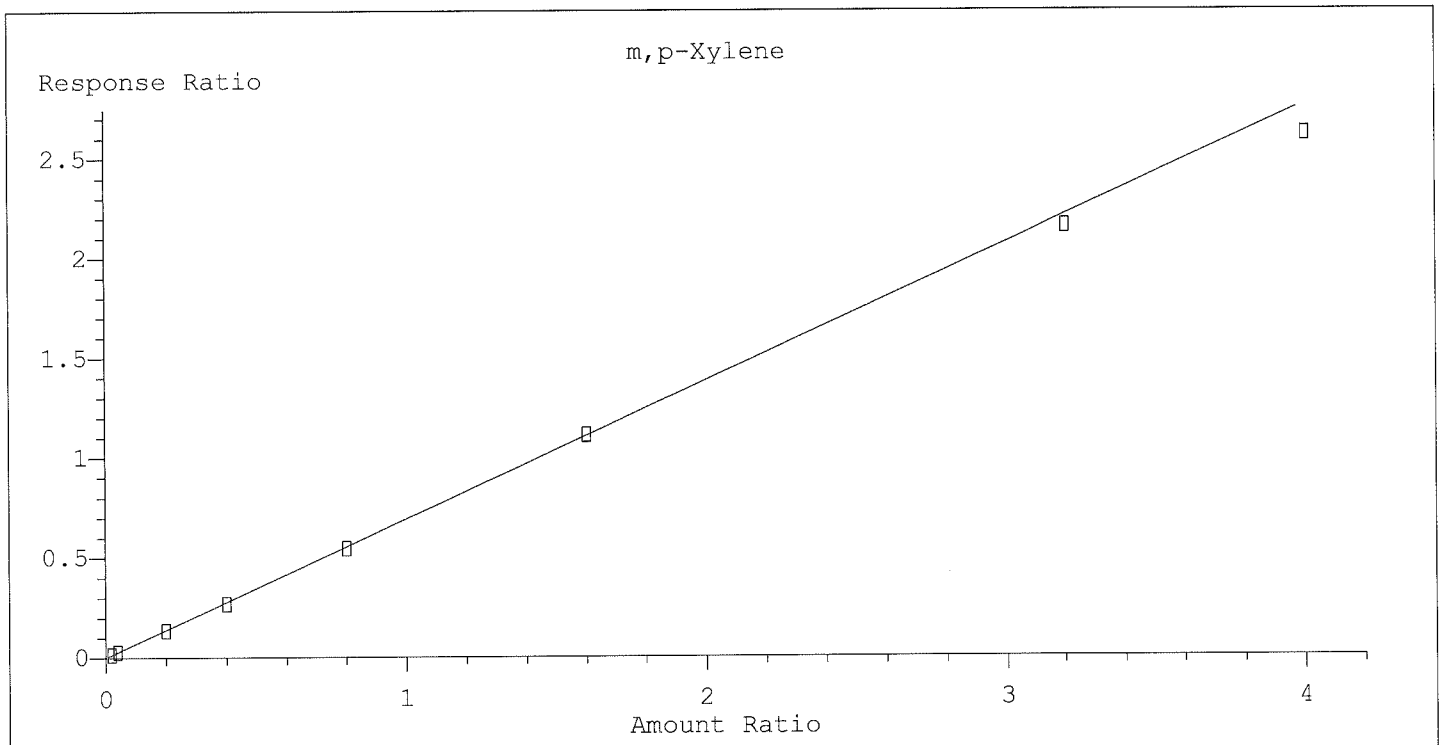


Resp Ratio = 3.50e-001 * Amt
RF Rel Std Dev = 11.7% Curve Fit: Avg RF

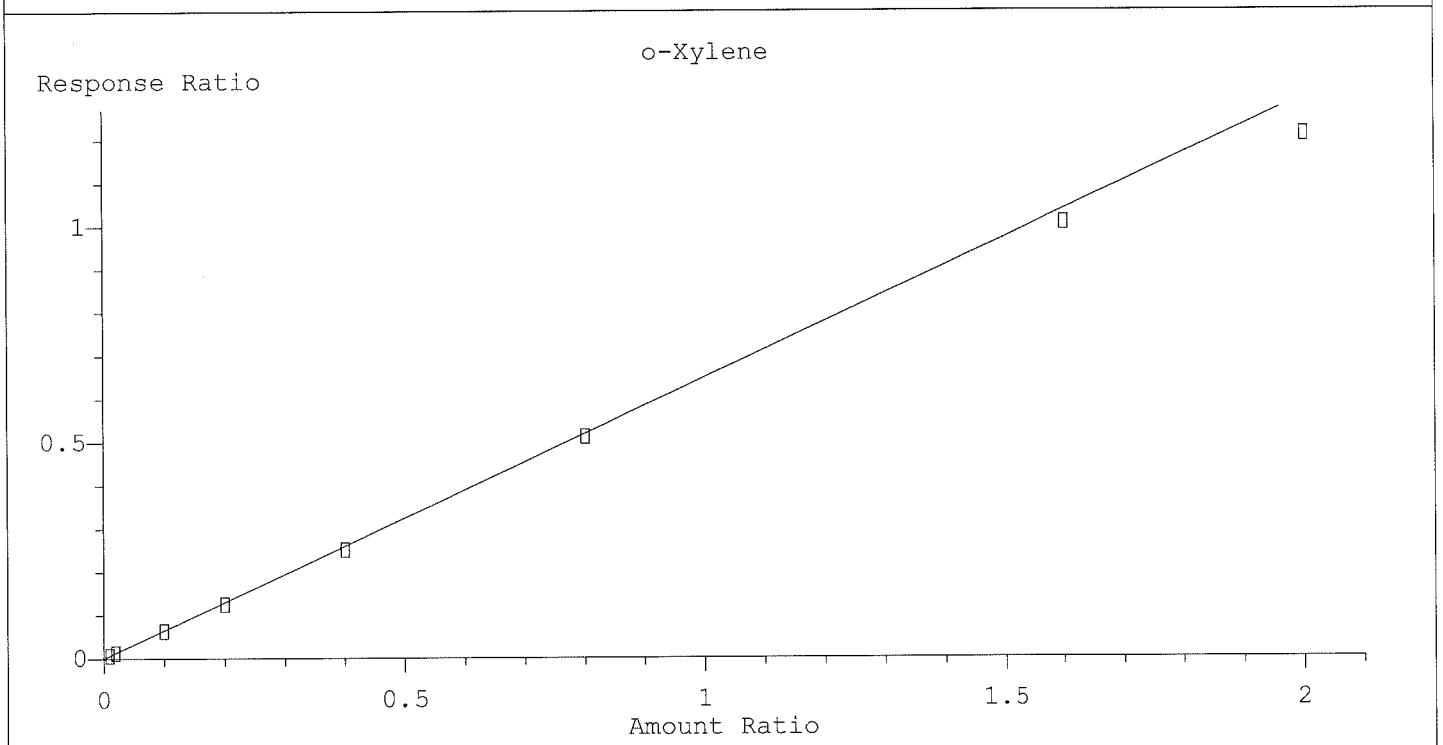


Resp Ratio = 2.18e+000 * Amt
RF Rel Std Dev = 4.4% Curve Fit: Avg RF

Calibration Plot Report

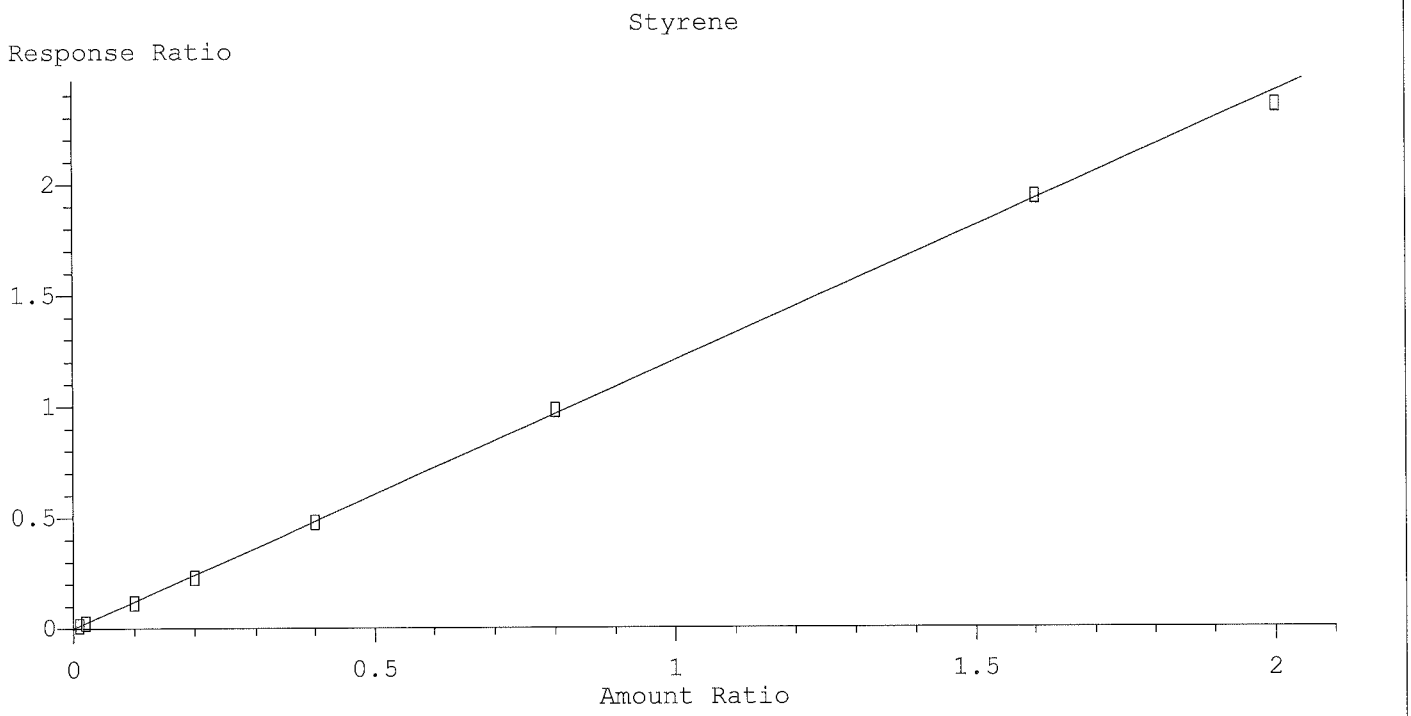


Resp Ratio = 6.92e-001 * Amt
RF Rel Std Dev = 4.7% Curve Fit: Avg RF

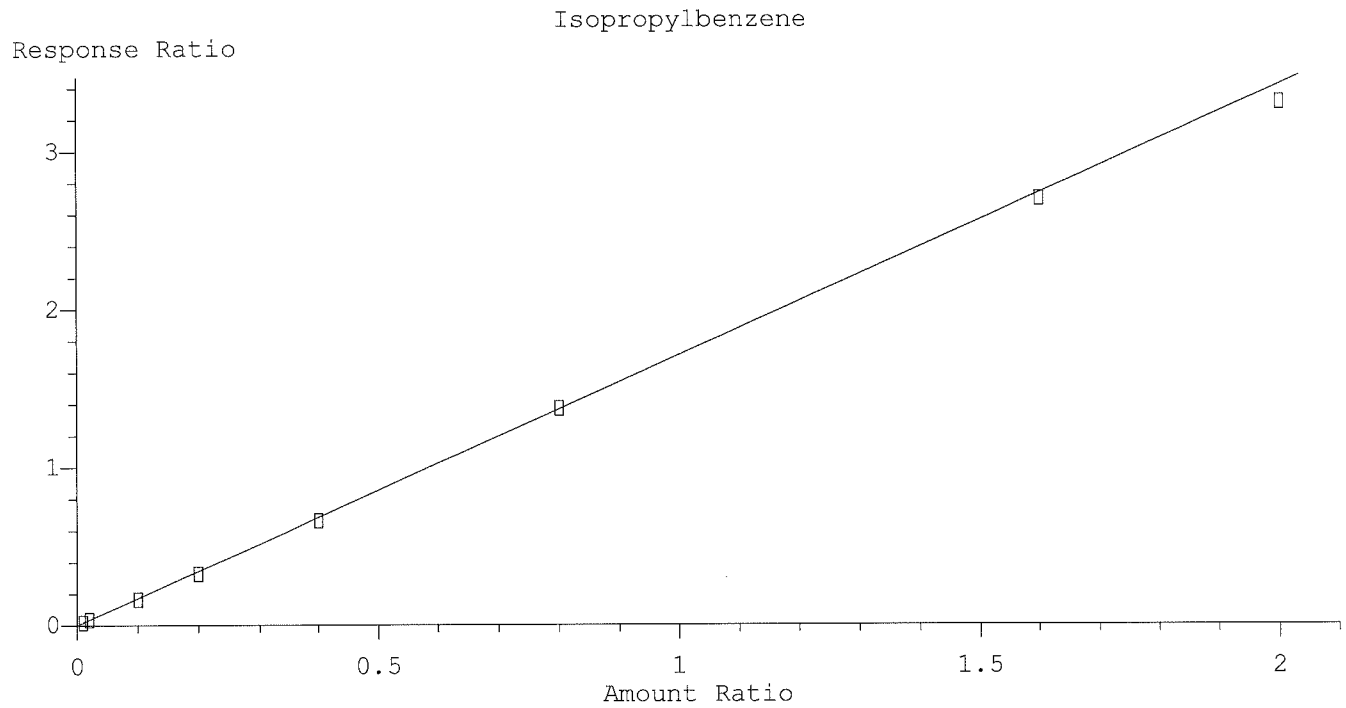


Resp Ratio = 6.48e-001 * Amt
RF Rel Std Dev = 6.4% Curve Fit: Avg RF

Calibration Plot Report

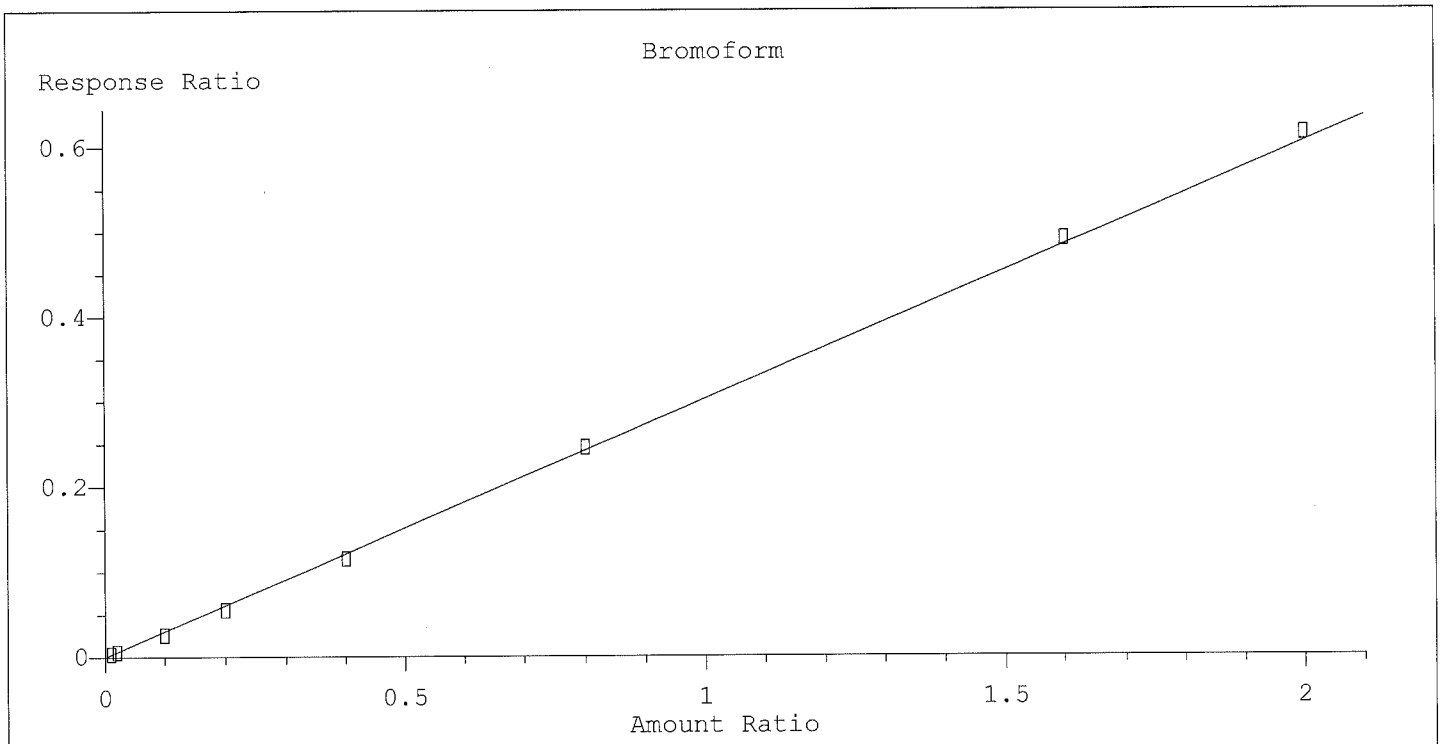


Resp Ratio = 1.21e+000 * Amt
RF Rel Std Dev = 4.8% Curve Fit: Avg RF

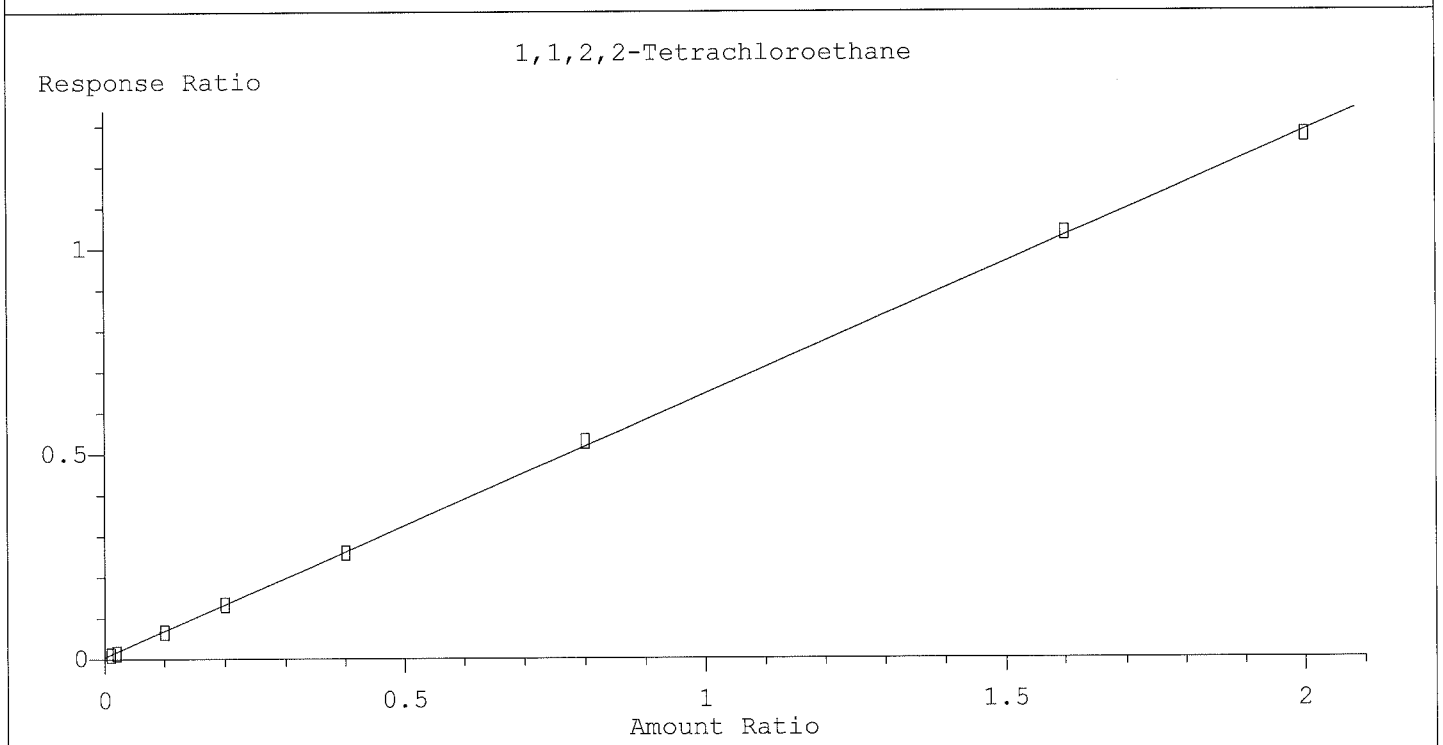


Resp Ratio = 1.71e+000 * Amt
RF Rel Std Dev = 5.1% Curve Fit: Avg RF

Calibration Plot Report

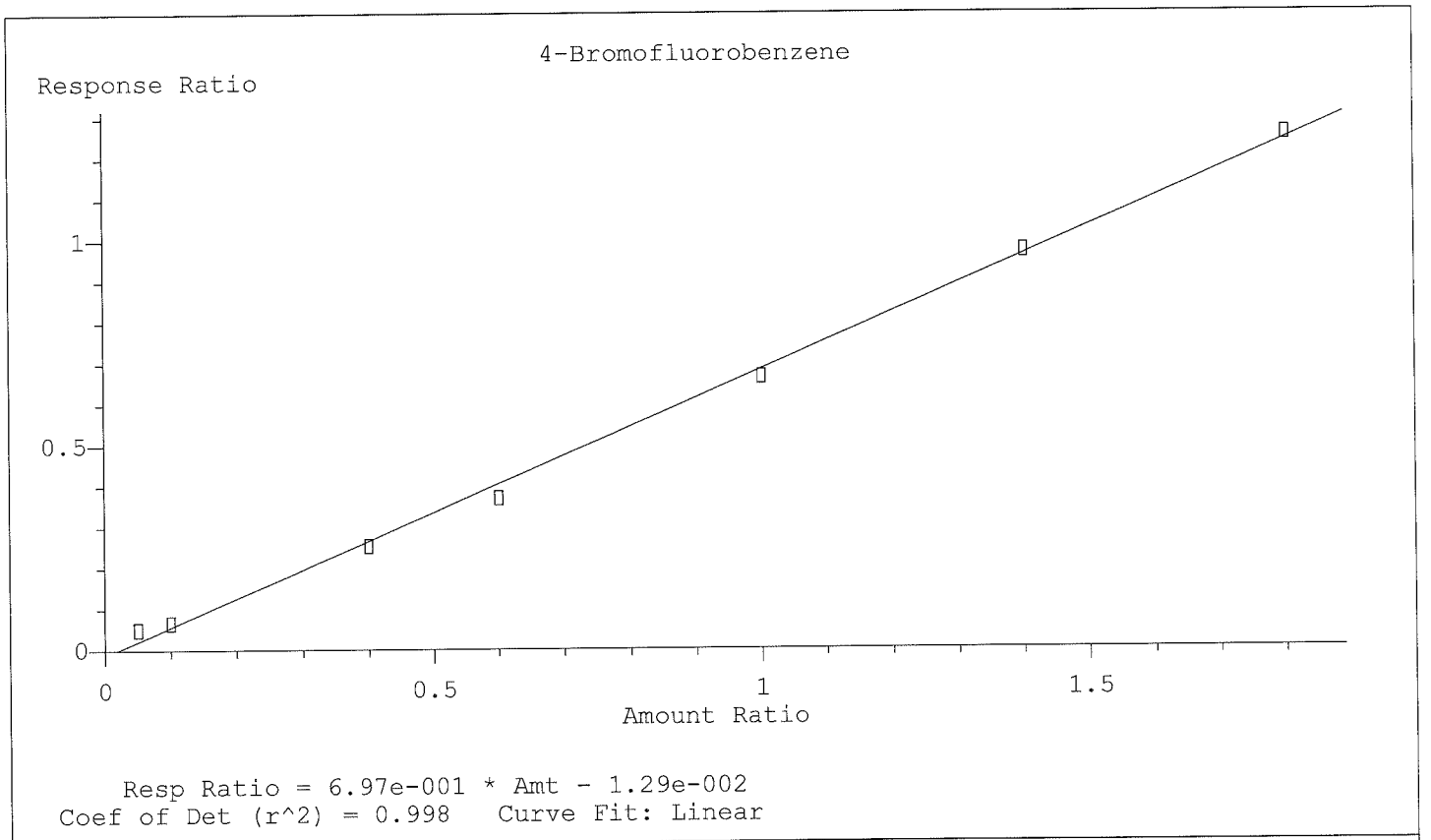


Resp Ratio = 3.02e-001 * Amt
RF Rel Std Dev = 11.4% Curve Fit: Avg RF

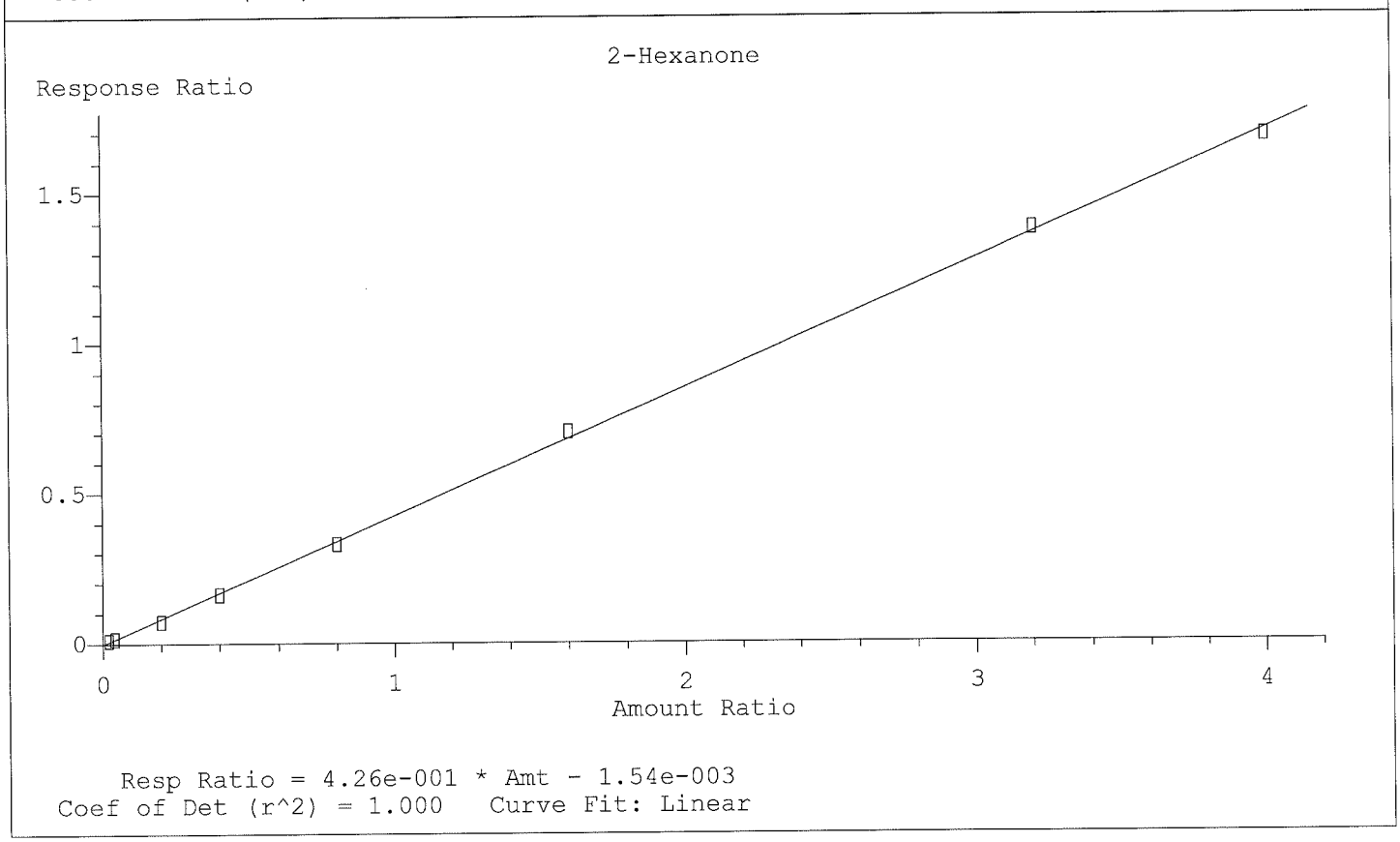


Resp Ratio = 6.40e-001 * Amt + 4.66e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Calibration Plot Report

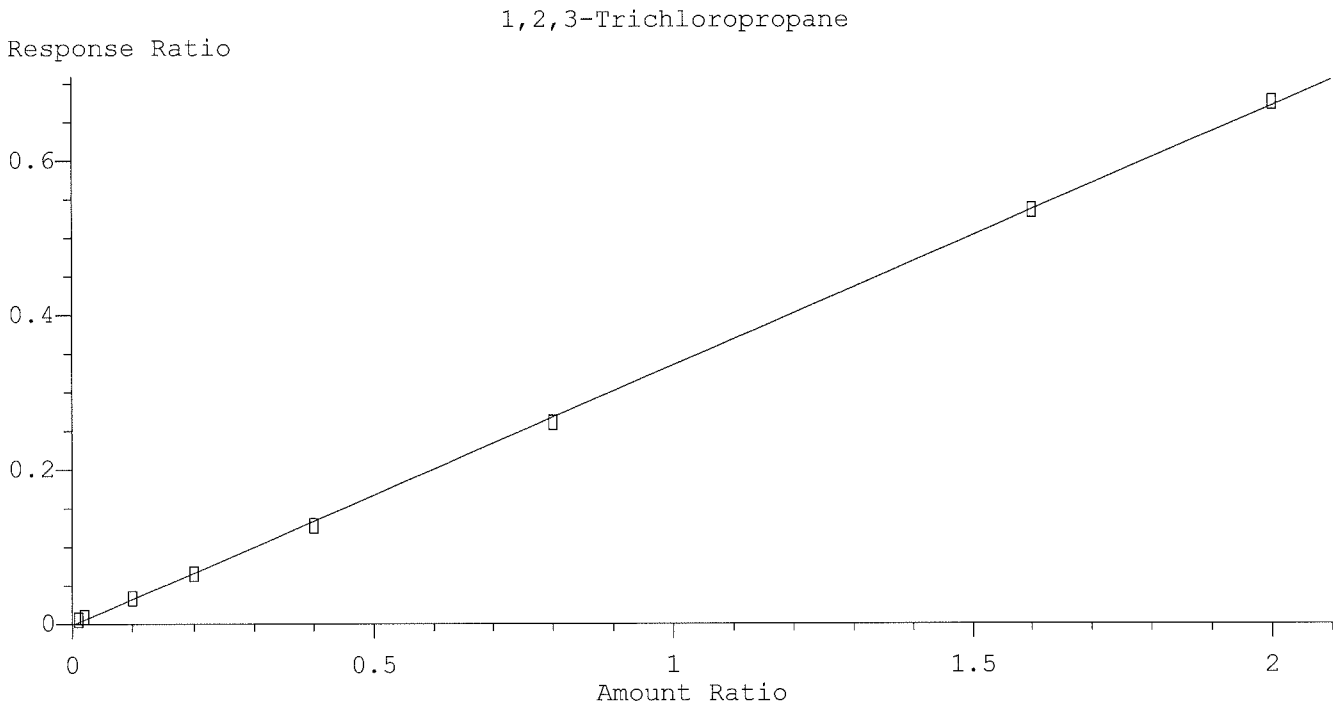


Resp Ratio = 6.97e-001 * Amt - 1.29e-002
Coef of Det (r^2) = 0.998 Curve Fit: Linear

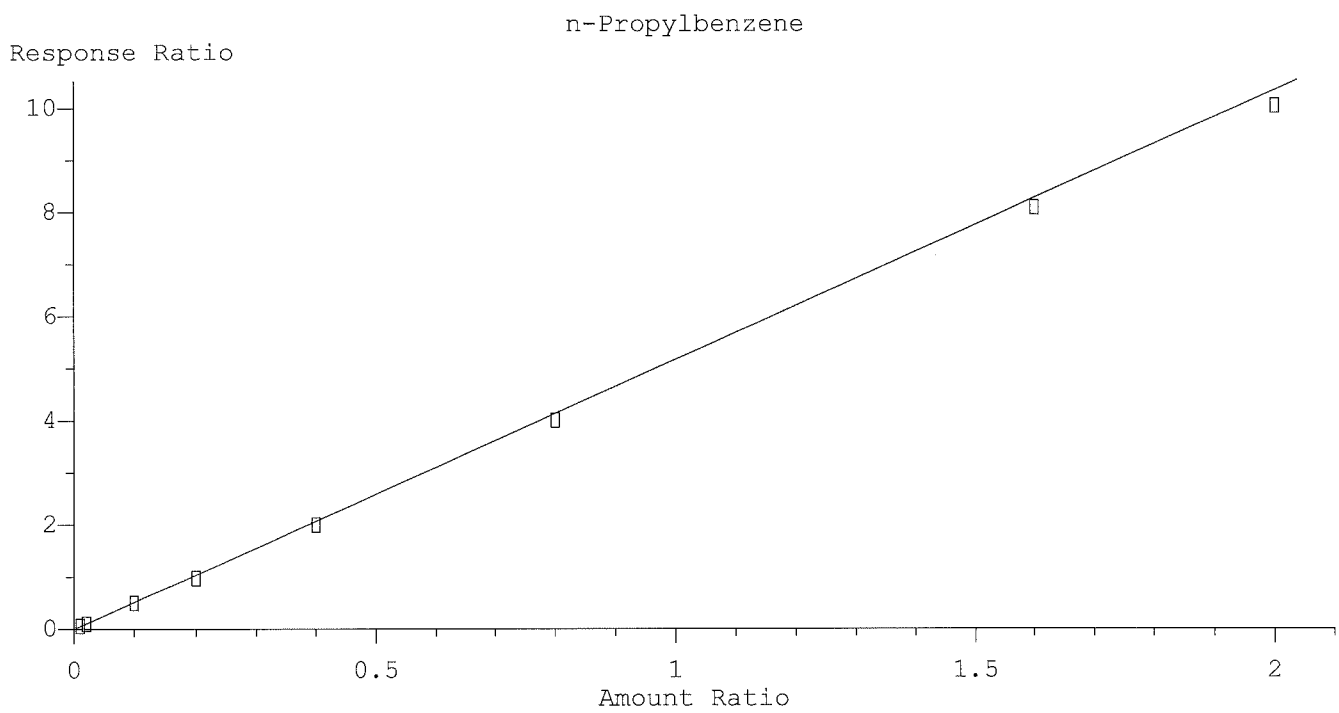


Resp Ratio = 4.26e-001 * Amt - 1.54e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Calibration Plot Report

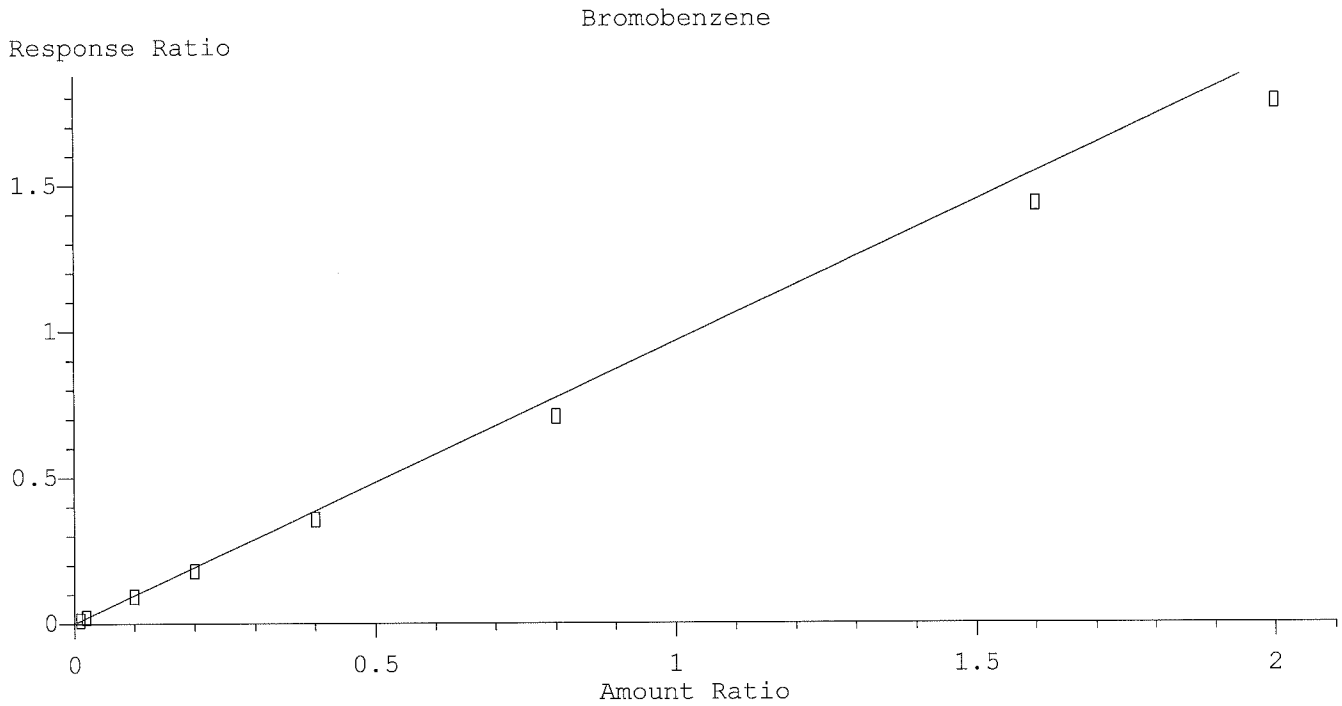


Resp Ratio = 3.36e-001 * Amt - 1.55e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

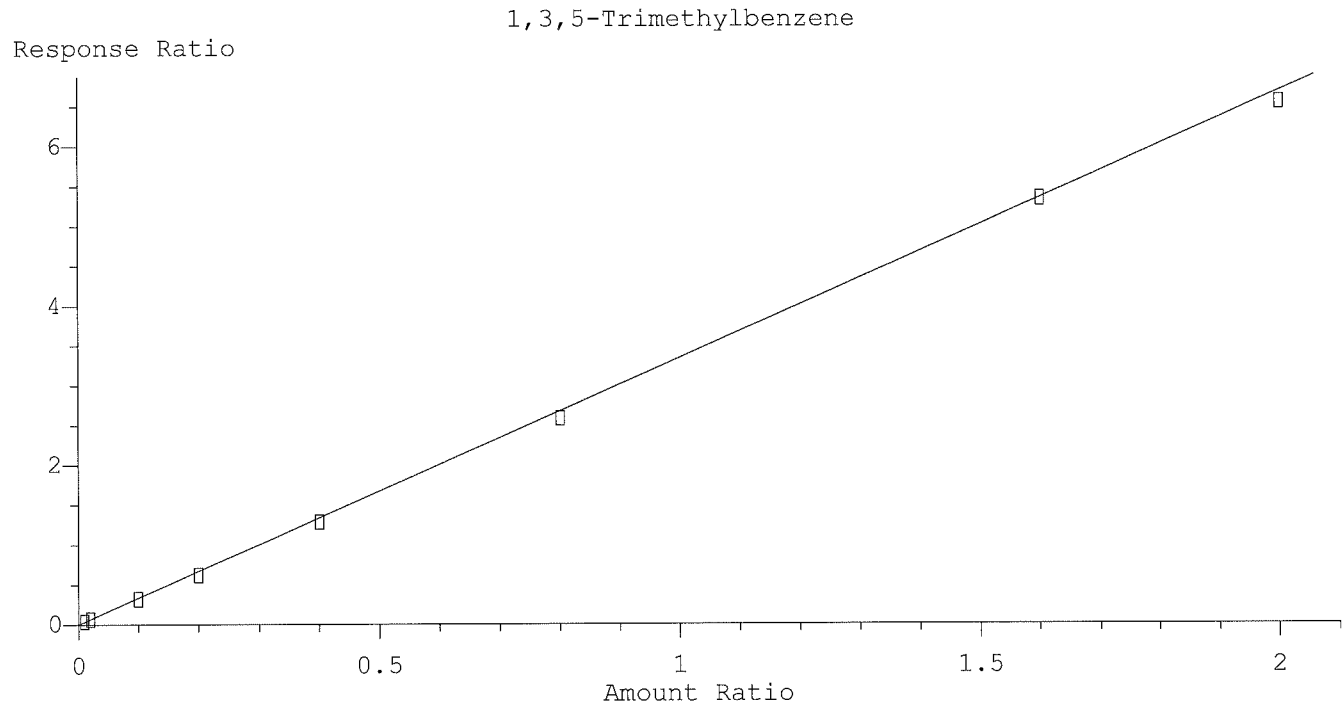


Resp Ratio = 5.17e+000 * Amt
RF Rel Std Dev = 7.2% Curve Fit: Avg RF

Calibration Plot Report

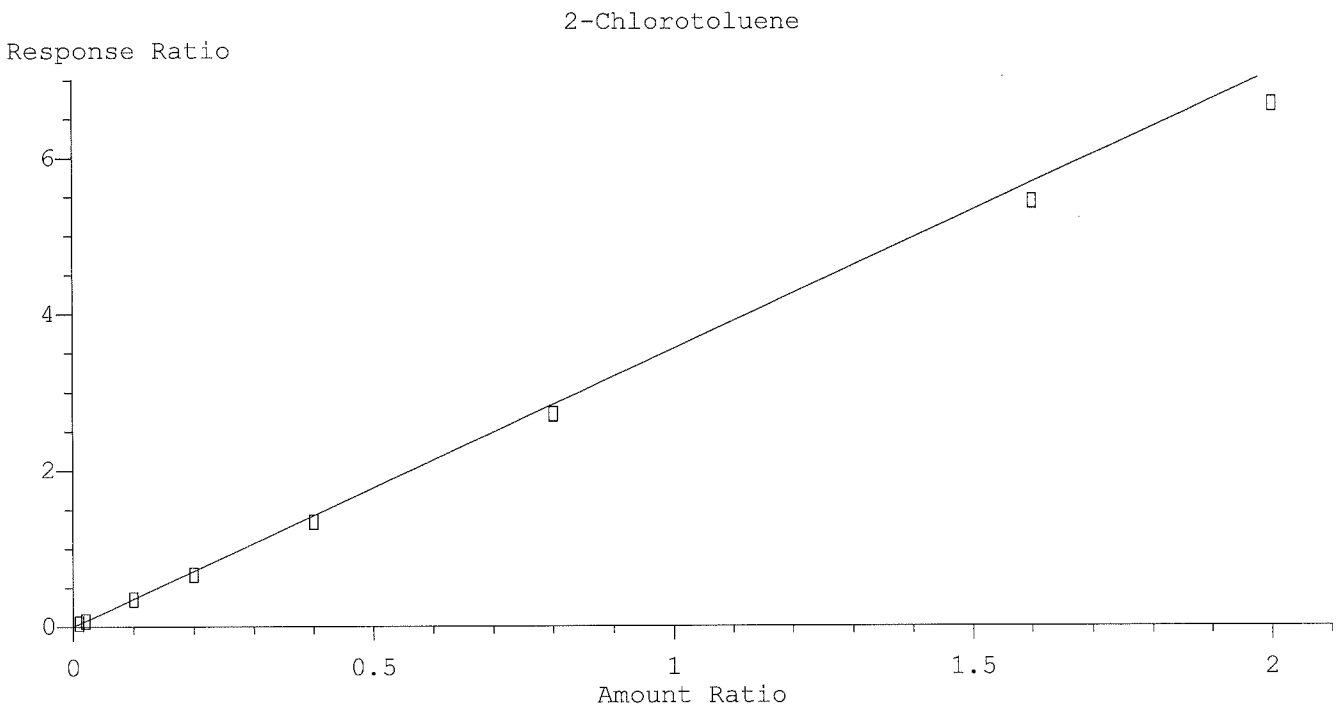


Resp Ratio = 9.65e-001 * Amt
RF Rel Std Dev = 13.3% Curve Fit: Avg RF

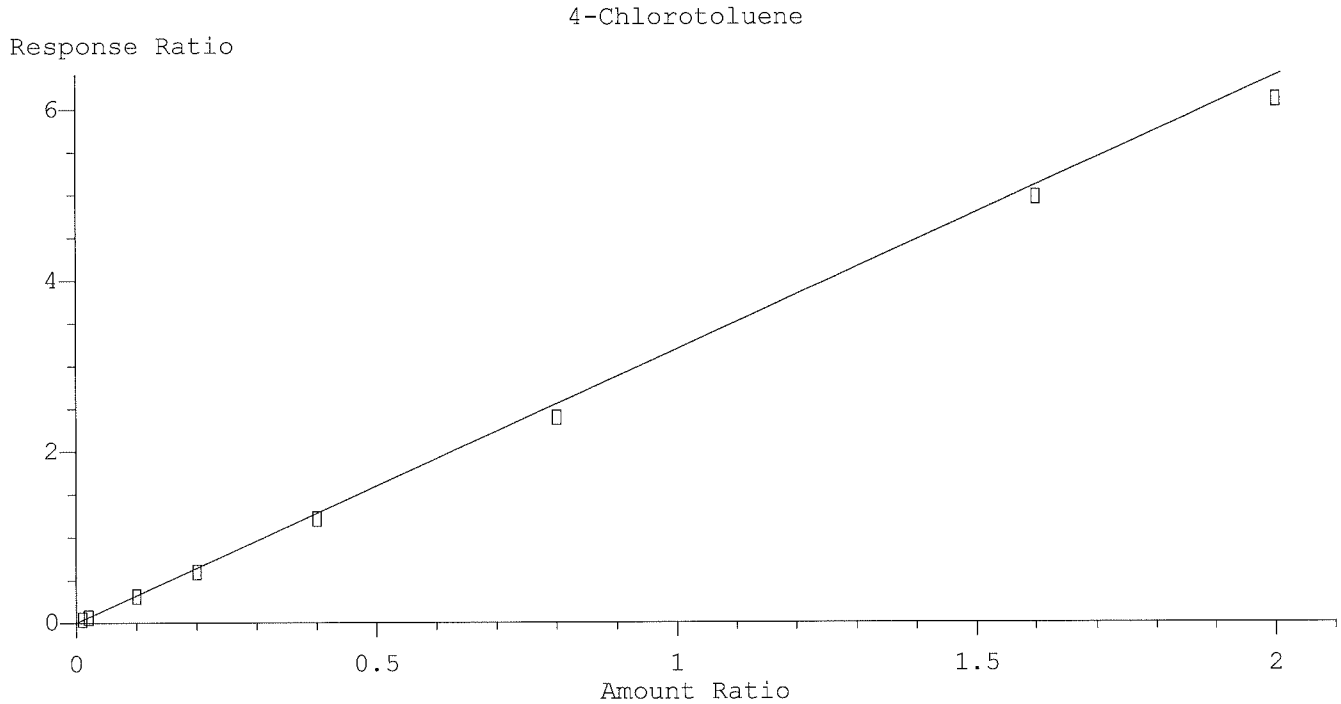


Resp Ratio = 3.34e+000 * Amt
RF Rel Std Dev = 8.2% Curve Fit: Avg RF

Calibration Plot Report

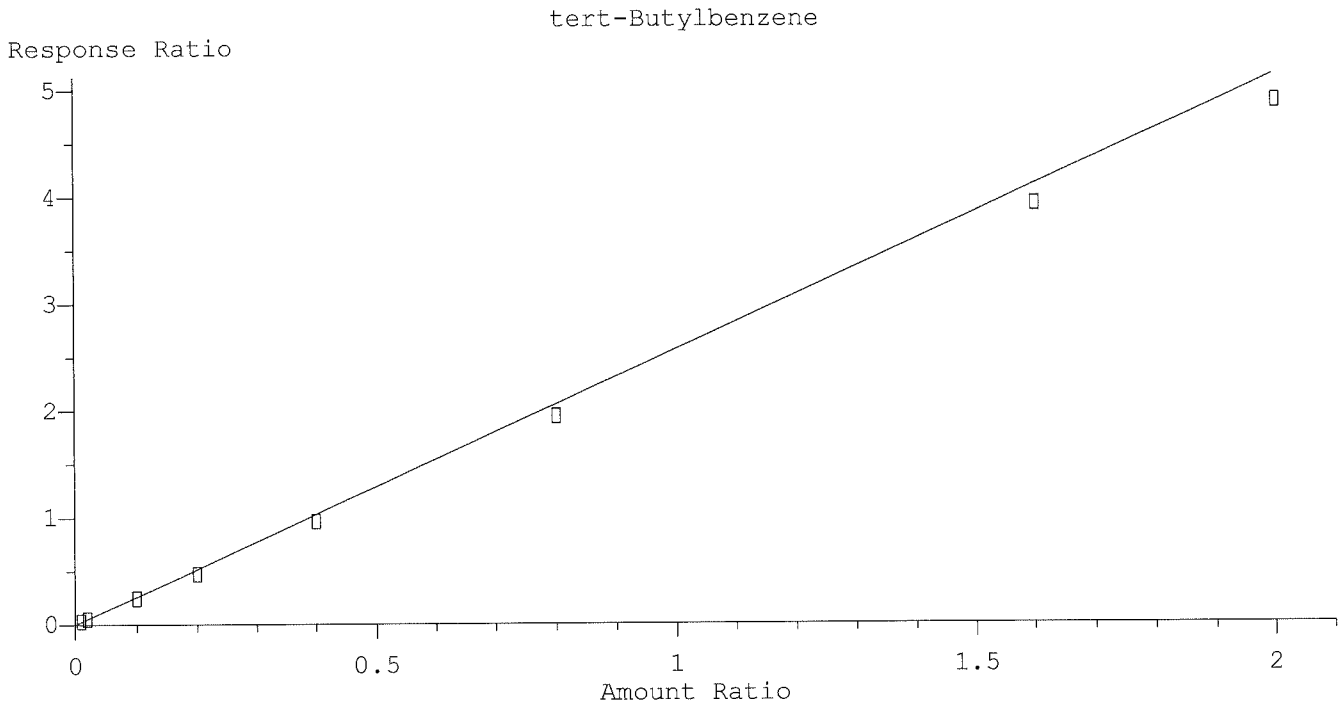


Resp Ratio = 3.55e+000 * Amt
RF Rel Std Dev = 9.9% Curve Fit: Avg RF

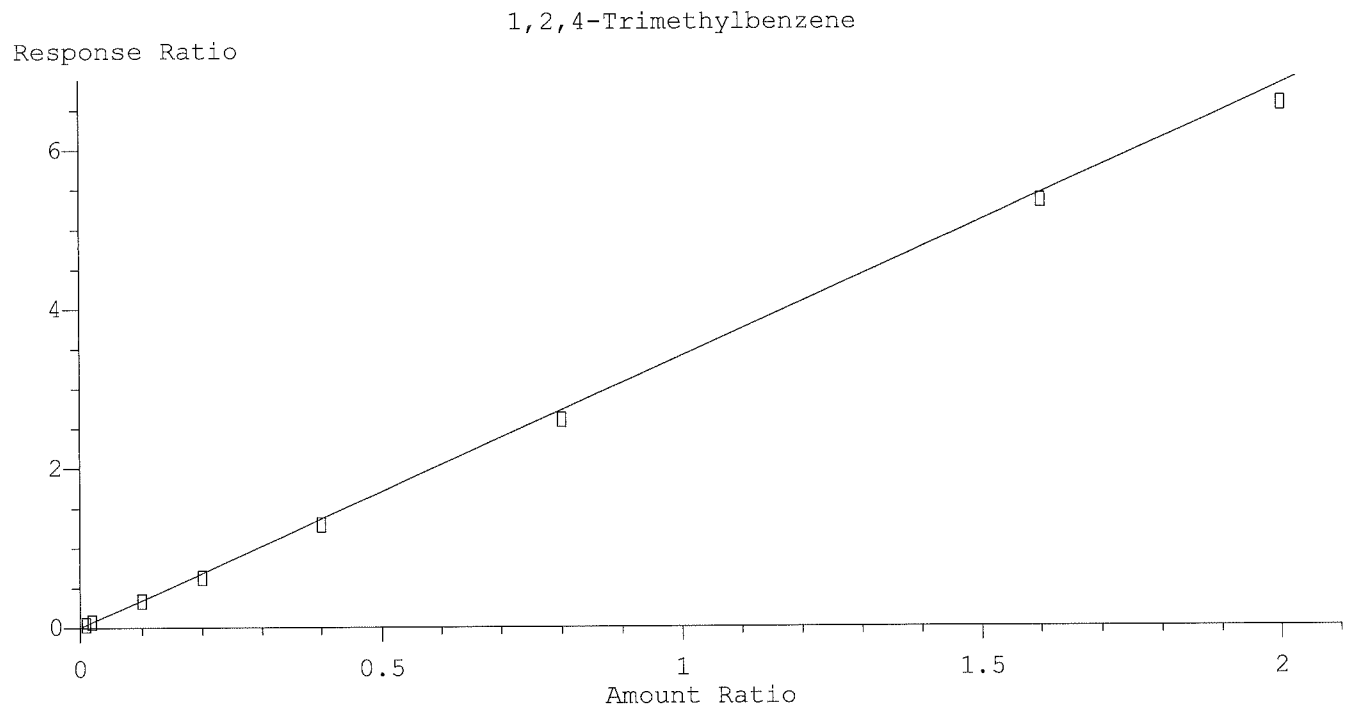


Resp Ratio = 3.19e+000 * Amt
RF Rel Std Dev = 10.6% Curve Fit: Avg RF

Calibration Plot Report

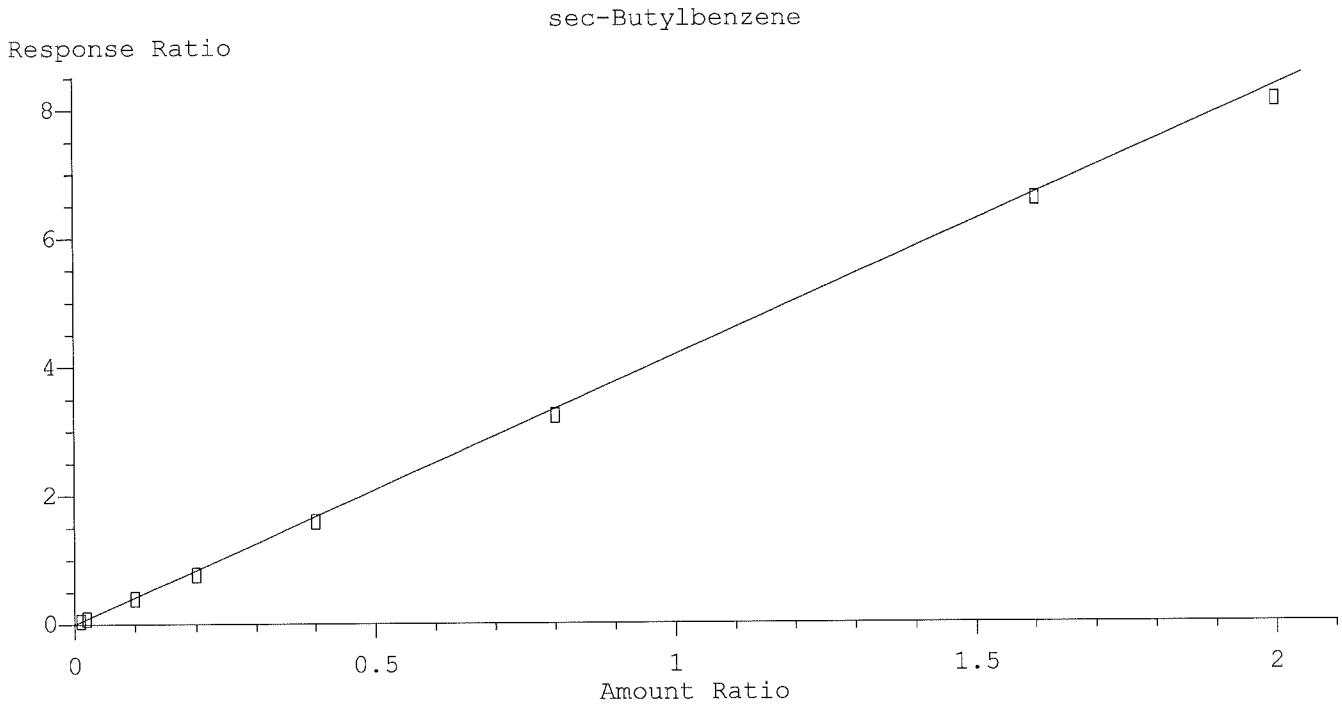


Resp Ratio = 2.57e+000 * Amt
RF Rel Std Dev = 12.5% Curve Fit: Avg RF

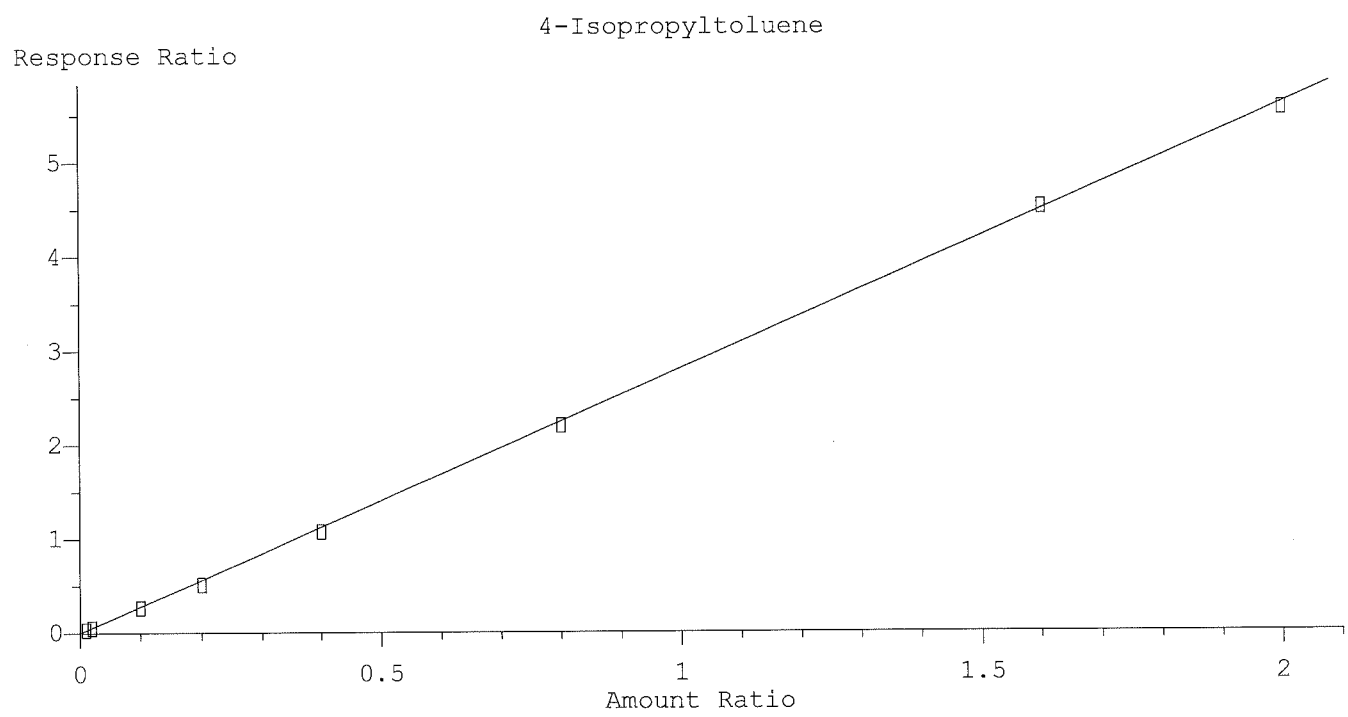


Resp Ratio = 3.40e+000 * Amt
RF Rel Std Dev = 8.7% Curve Fit: Avg RF

Calibration Plot Report

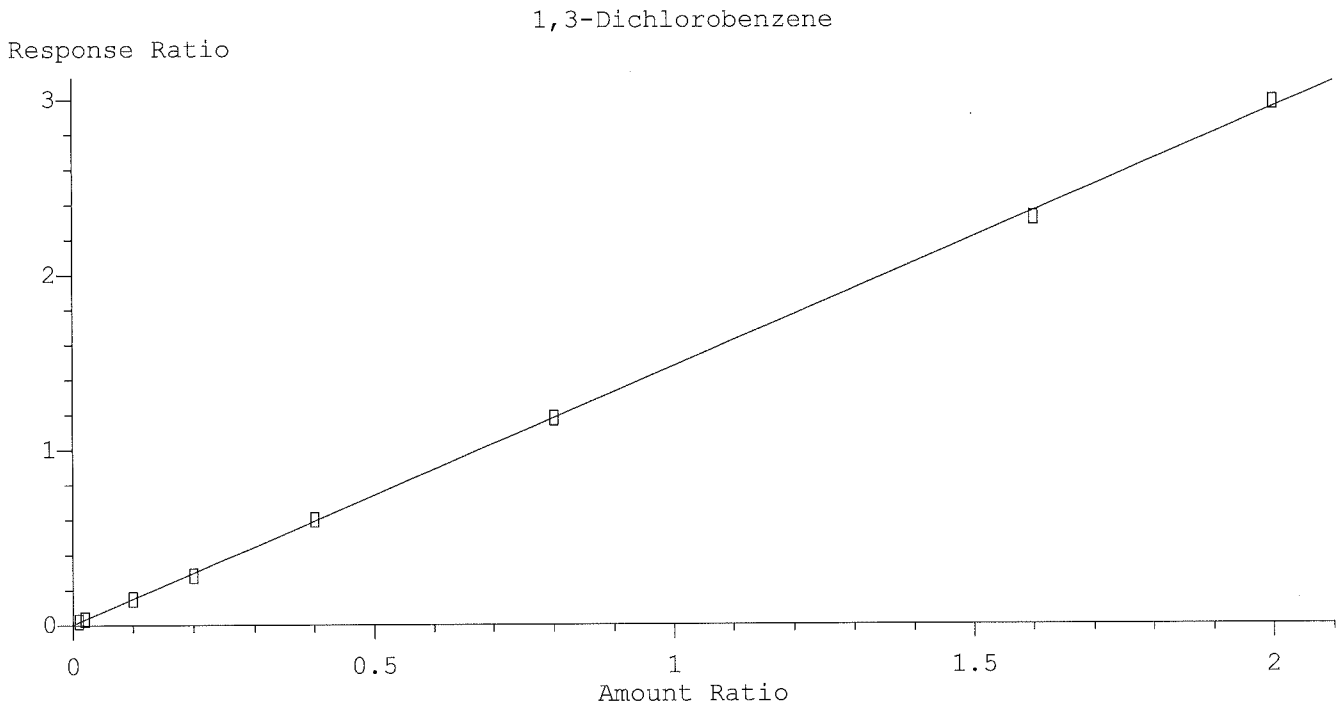


Resp Ratio = 4.17e+000 * Amt
RF Rel Std Dev = 9.1% Curve Fit: Avg RF

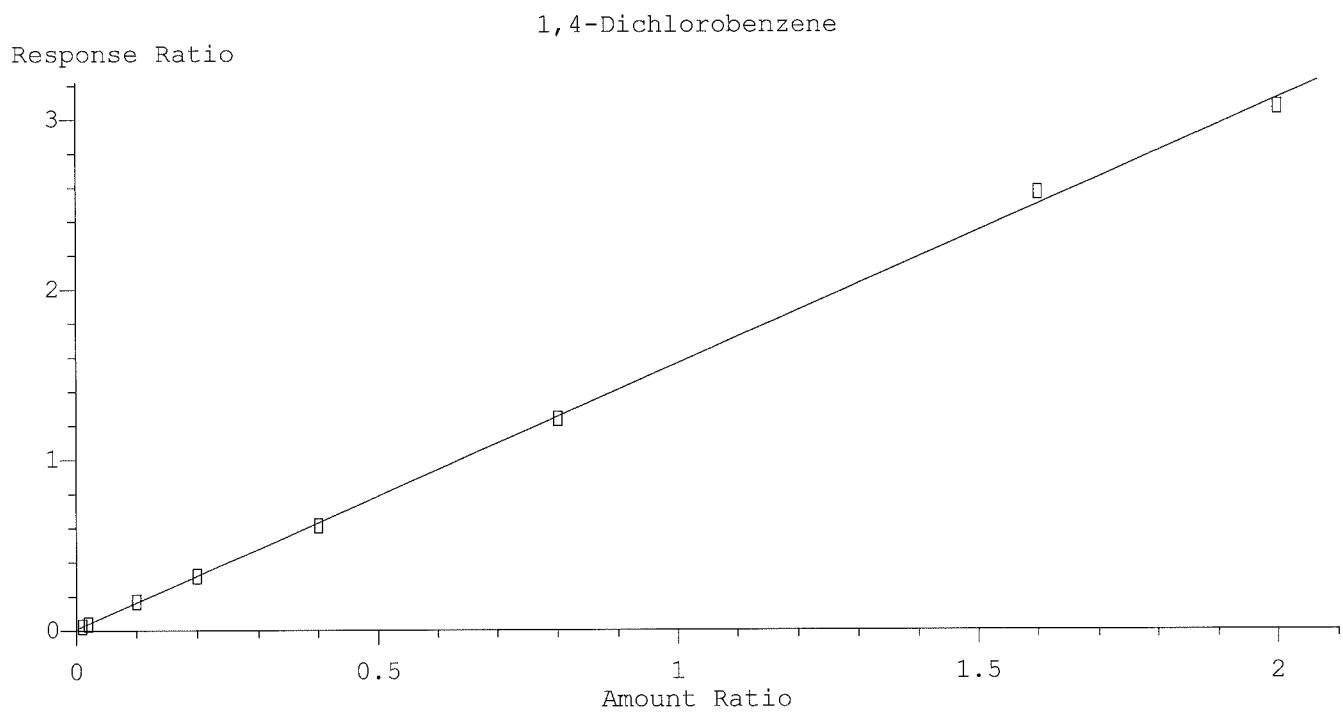


Resp Ratio = 2.80e+000 * Amt
RF Rel Std Dev = 8.3% Curve Fit: Avg RF

Calibration Plot Report

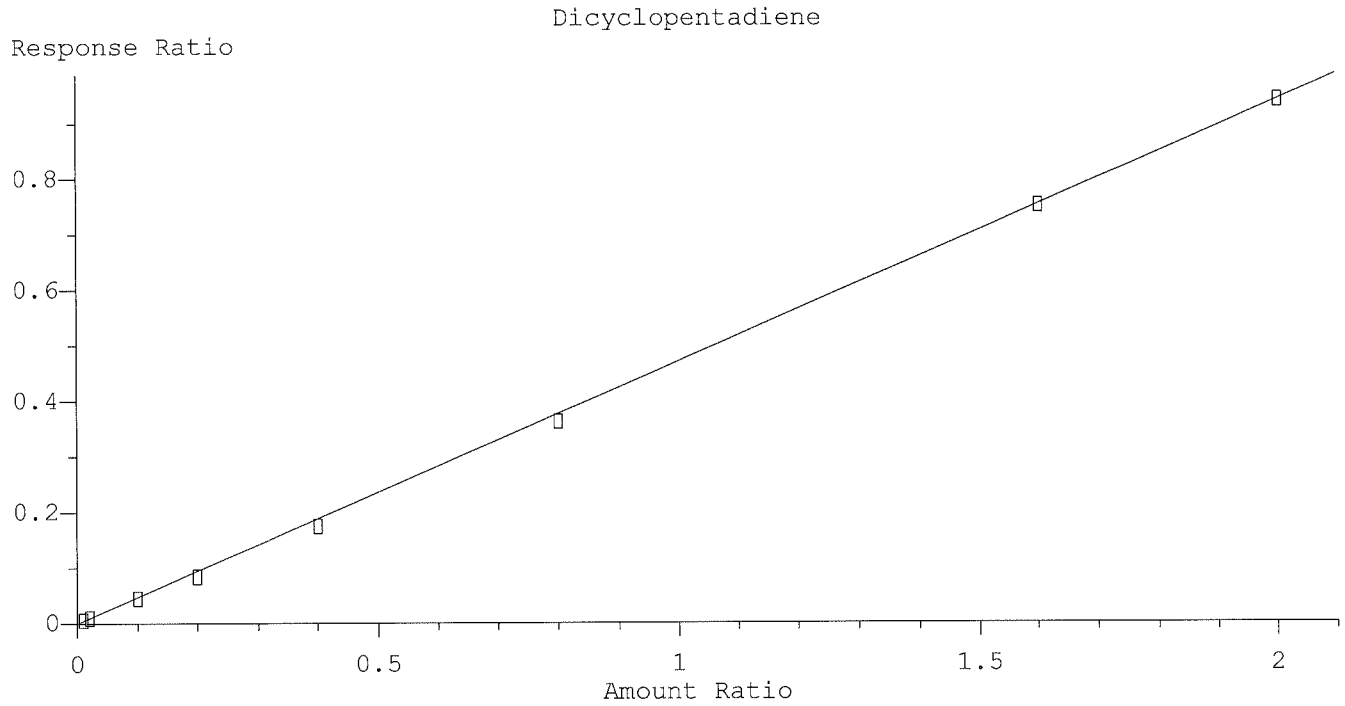


Resp Ratio = 1.47e+000 * Amt + 5.93e-004
Coef of Det (r^2) = 1.000 Curve Fit: Linear

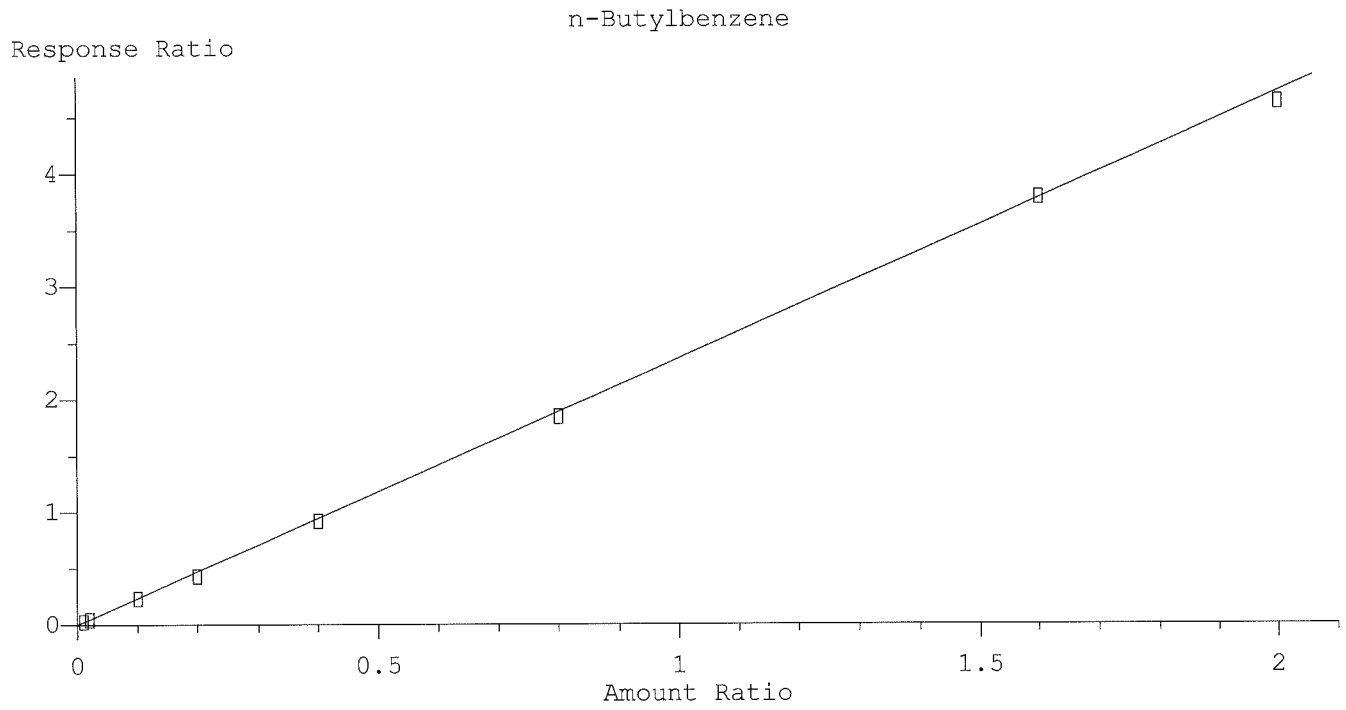


Resp Ratio = 1.55e+000 * Amt + 7.44e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Calibration Plot Report

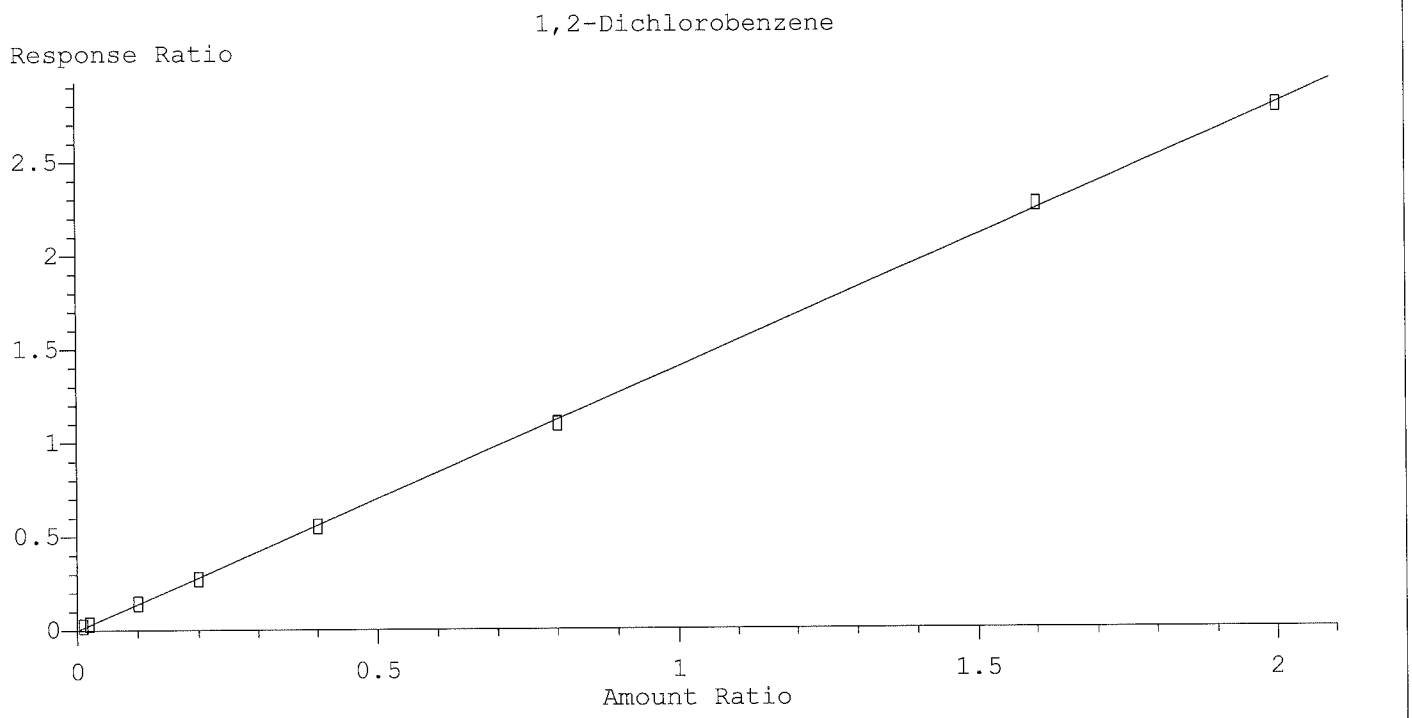


Resp Ratio = 4.71e-001 * Amt
RF Rel Std Dev = 10.5% Curve Fit: Avg RF

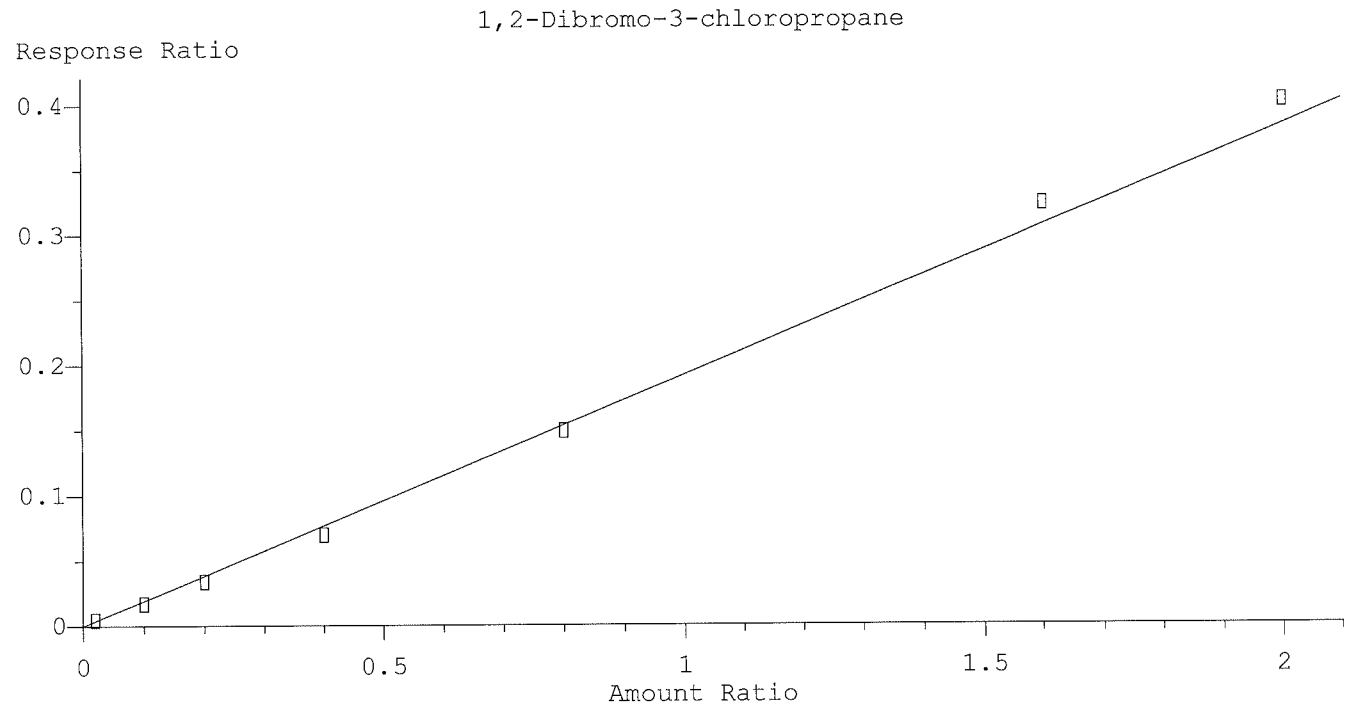


Resp Ratio = 2.36e+000 * Amt
RF Rel Std Dev = 8.7% Curve Fit: Avg RF

Calibration Plot Report

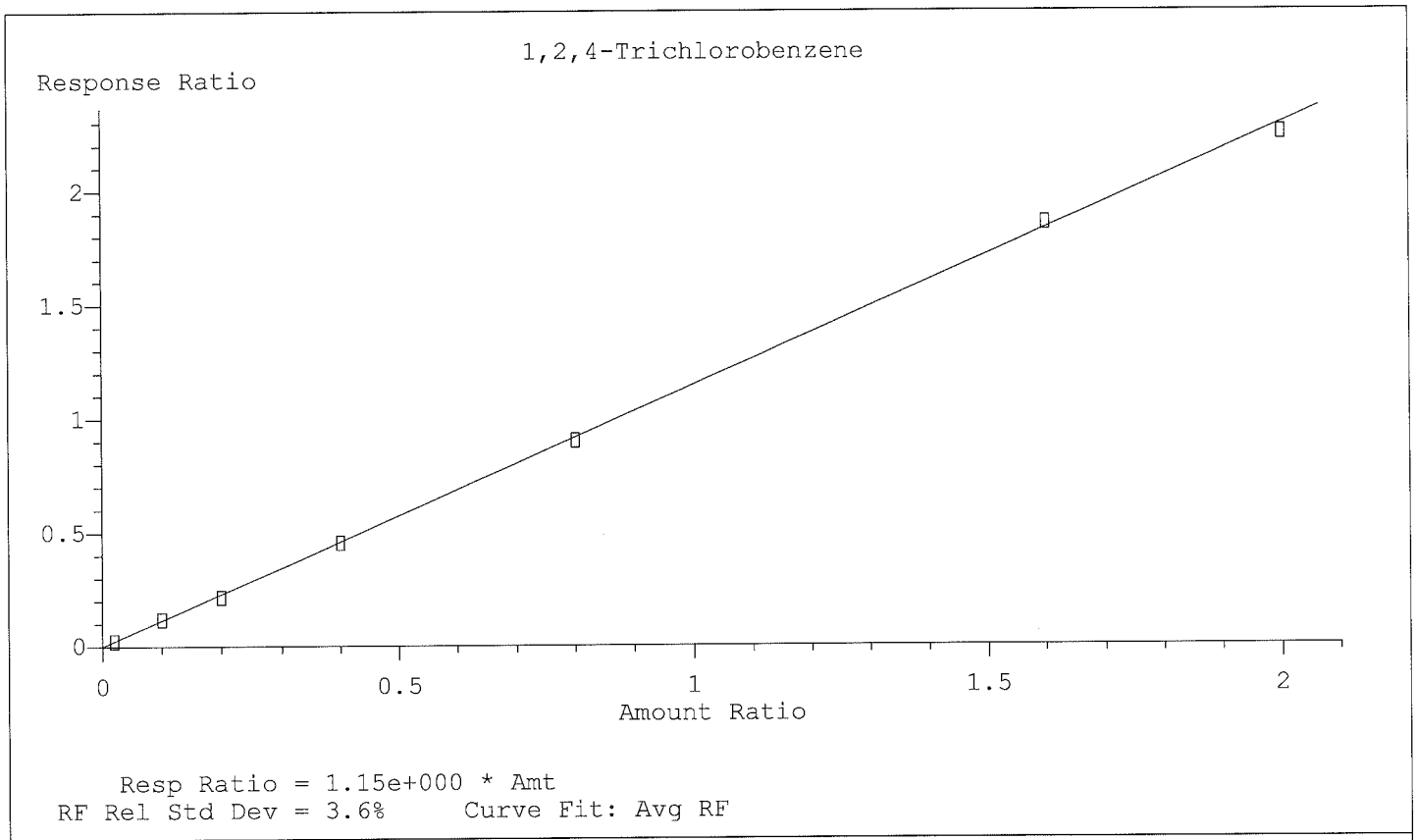


Resp Ratio = 1.40e+000 * Amt - 9.19e-004
Coef of Det (r^2) = 1.000 Curve Fit: Linear

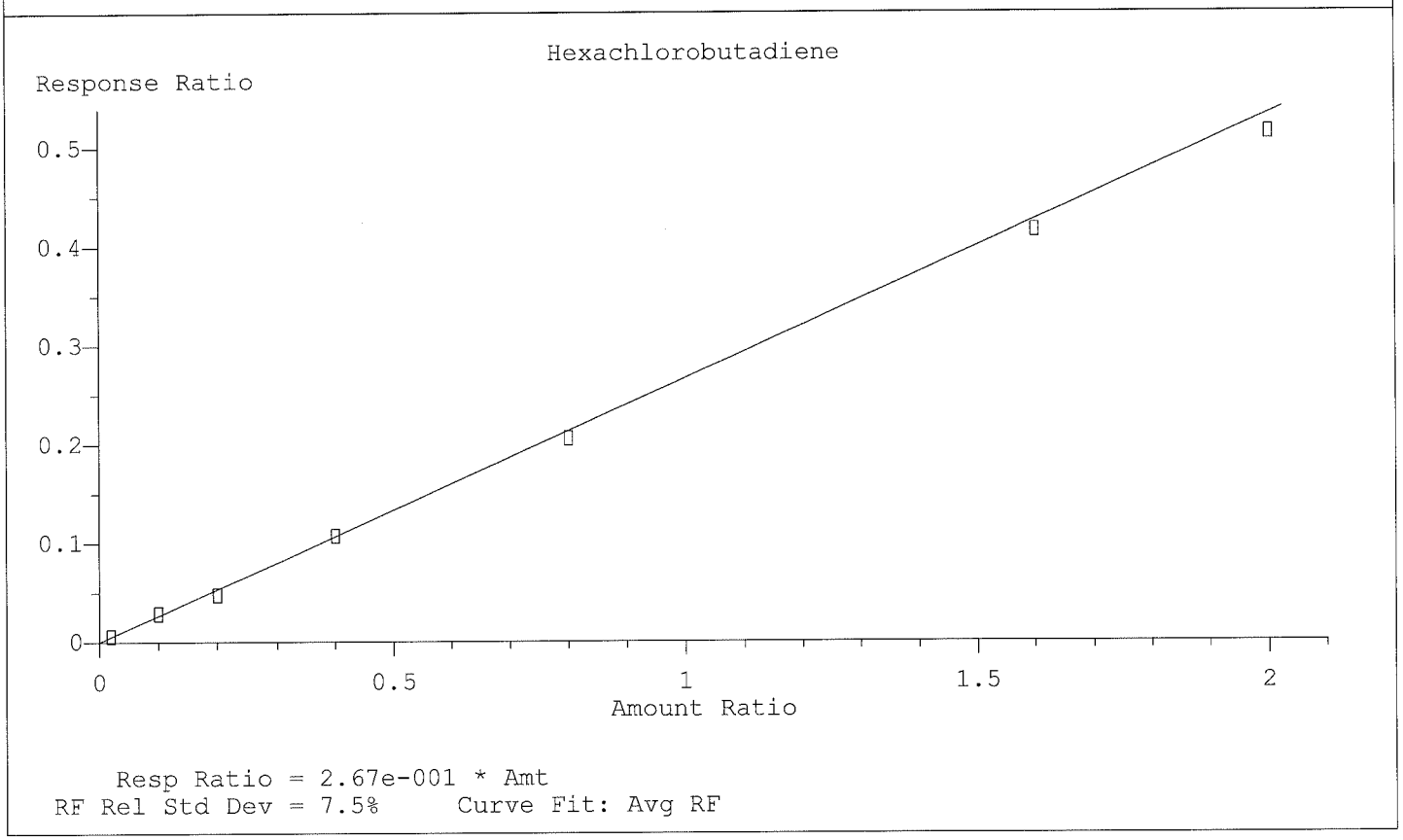


Resp Ratio = 1.91e-001 * Amt
RF Rel Std Dev = 11.7% Curve Fit: Avg RF

Calibration Plot Report

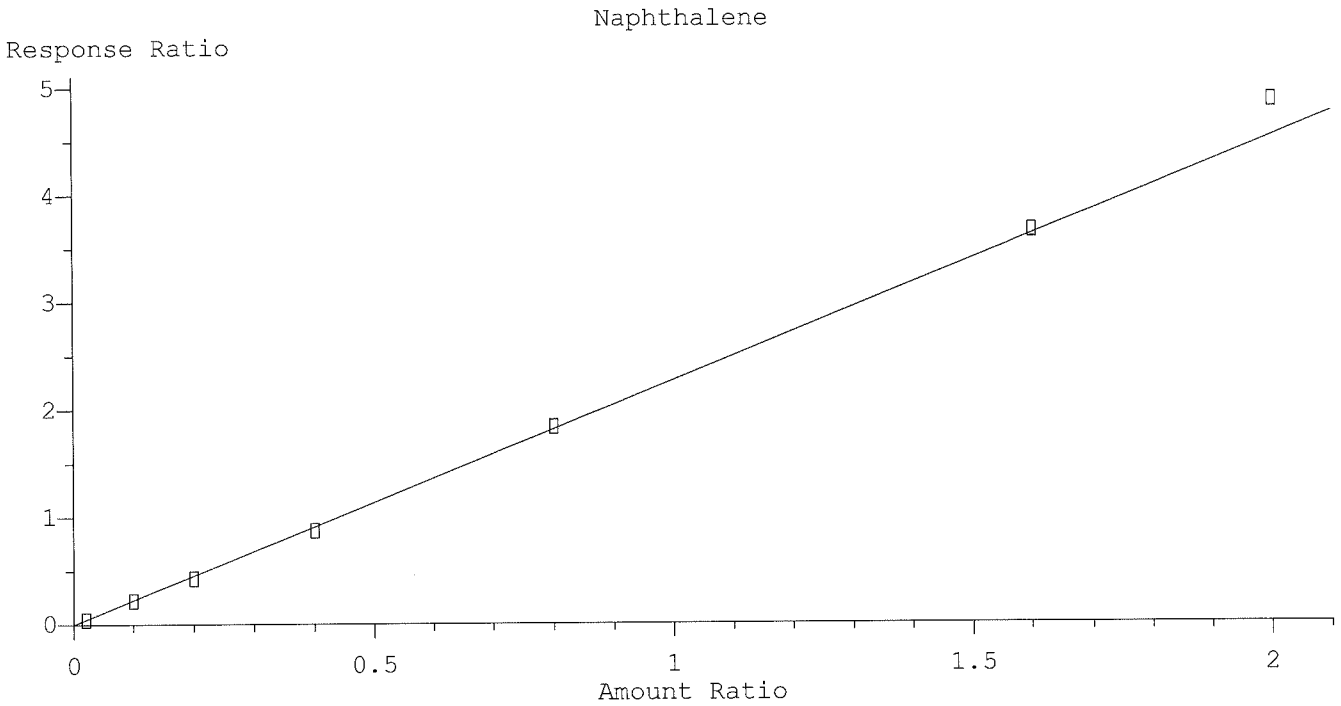


Resp Ratio = 1.15e+000 * Amt
RF Rel Std Dev = 3.6% Curve Fit: Avg RF

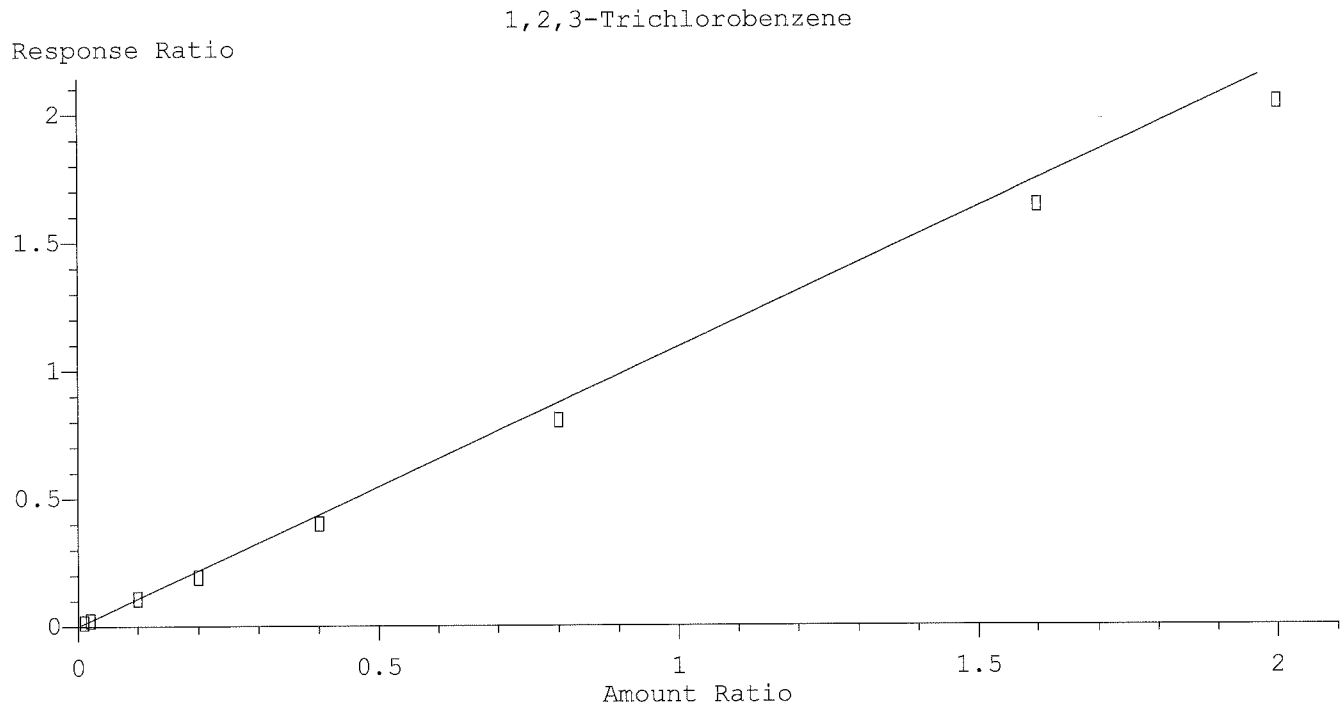


Resp Ratio = 2.67e-001 * Amt
RF Rel Std Dev = 7.5% Curve Fit: Avg RF

Calibration Plot Report



Resp Ratio = 2.26e+000 * Amt
RF Rel Std Dev = 4.3% Curve Fit: Avg RF



Resp Ratio = 1.09e+000 * Amt
RF Rel Std Dev = 14.8% Curve Fit: Avg RF

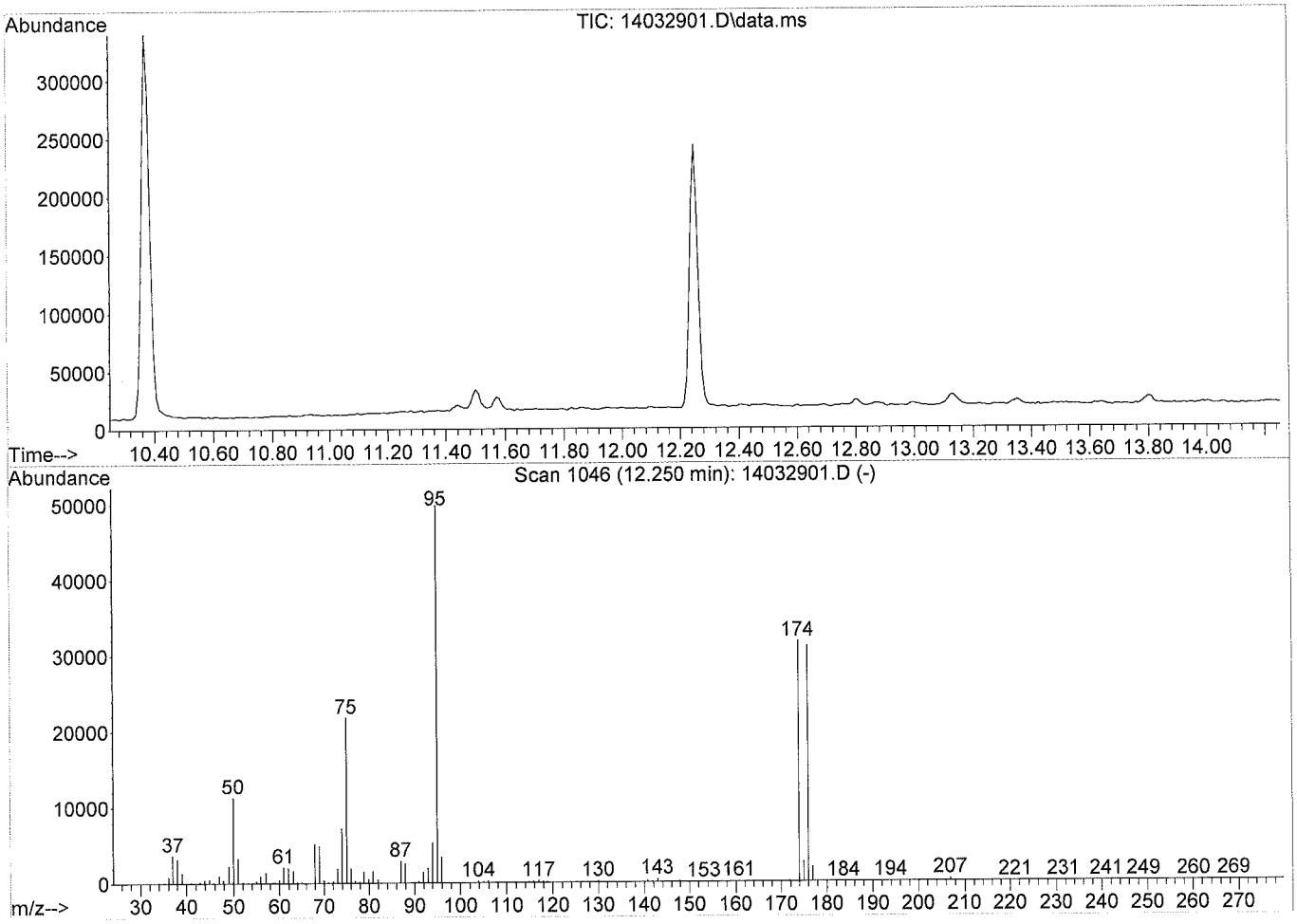
Calibration Plot Report

Data Path : H:\VOA\A228\140329\
Data File : 14032901.D
Acq On : 29 Mar 2014 16:13
Operator : JM
Sample : BFB
Misc : TUNE CHECK
ALS Vial : 7 Sample Multiplier: 1

DMU 4/1/14

Integration File: RTEINT.P

Method : H:\VOA\A228\METHODS\140329.M
Title : 8260B_S
Last Update : Sun Mar 30 16:02:31 2014



Spectrum Information: Scan 1046

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.7	11288	PASS
75	95	30	60	43.8	21802	PASS
95	95	100	100	100.0	49774	PASS
96	95	5	9	6.9	3411	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	63.7	31683	PASS
175	174	5	9	8.3	2616	PASS
176	174	95	101	98.0	31053	PASS
177	176	5	9	6.2	1910	PASS

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032903.D
Acq On : 29 Mar 2014 17:16
Operator : JM
Sample : IB
Misc : BLANK
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 30 17:41:13 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

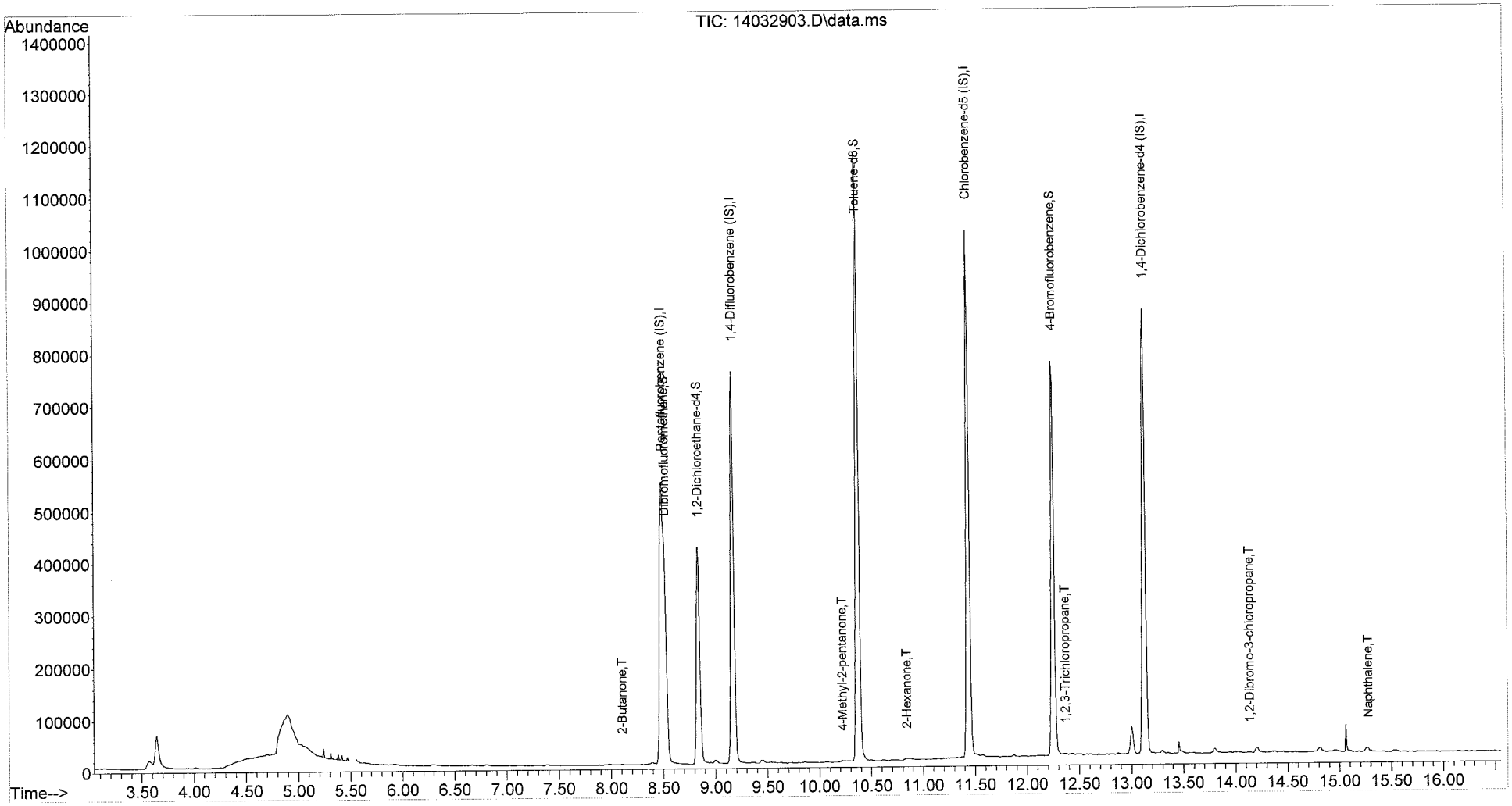
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.490	168	342047	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.169	114	611392	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.435	117	536908	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.128	152	247558	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.516	113	254229	47.79 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 95.58%		
45) 1,2-Dichloroethane-d4	8.834	65	317910	45.15 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 90.30%		
46) Toluene-d8	10.368	98	819884	47.59 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 95.18%		
66) 4-Bromofluorobenzene	12.246	95	337688	46.03 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 92.06%		
Target Compounds					Qvalue
6) Bromomethane	4.901	94	470	Below Cal #	45
7) Chloroethane	5.157	64	415	Below Cal #	1
25) 2-Butanone	8.102	43	3946	0.99 ug/L #	90
44) 4-Methyl-2-pentanone	10.218	43	4043	0.62 ug/L	93
65) 1,1,2,2-Tetrachloroethane	12.299	83	2118	Below Cal	98
67) 2-Hexanone	10.835	43	4997	1.27 ug/L	94
69) 1,2,3-Trichloropropane	12.361	110	688	0.64 ug/L #	54
80) 1,4-Dichlorobenzene	13.146	146	632	Below Cal #	1
84) 1,2-Dibromo-3-chloropr...	14.133	157	658	0.69 ug/L #	55
87) Naphthalene	15.270	128	9077	0.81 ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032903.D
Acq On : 29 Mar 2014 17:16
Operator : JM
Sample : IB
Misc : BLANK
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 30 17:41:13 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032904.D
Acq On : 29 Mar 2014 17:42
Operator : JM
Sample : 0.5 PPB
Misc : ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 30 16:00:53 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.484	168	381210	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.163	114	663356	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.438	117	565127	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.122	152	258430	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.519	113	17688	2.98 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery	= 5.96%#	
45) 1,2-Dichloroethane-d4	8.837	65	22706	2.97 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery	= 5.94%#	
46) Toluene-d8	10.371	98	57255	3.06 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery	= 6.12%#	
66) 4-Bromofluorobenzene	12.249	95	28683	4.57 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery	= 9.14%#	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.005	85	3275	0.55 ug/L	89
3) Chloromethane	4.366	50	4896	0.59 ug/L	89
4) Vinyl chloride	4.543	62	3728	0.51 ug/L	88
5) 1,3-Butadiene	4.604	54	1813	0.54 ug/L #	45
6) Bromomethane	4.966	94	1581	Below Cal #	48
7) Chloroethane	5.116	64	2178	Below Cal #	1
8) Trichlorofluoromethane	5.548	101	5121	0.53 ug/L	90
9) Acrolein	6.103	56	51778	50.76 ug/L	99
10) Trichlorotrifluoroethane	6.218	151	1891	0.57 ug/L #	87
11) 1,1-Dichloroethene	6.253	61	4801	0.52 ug/L	96
12) Methylene chloride	6.800	84	4526	0.61 ug/L	92
13) Acrylonitrile	7.064	53	1619	0.56 ug/L #	81
14) trans-1,2-Dichloroethene	7.126	61	5040	0.54 ug/L	91
15) n-Hexane	7.382	57	4898	0.57 ug/L	97
16) 1,1-Dichloroethane	7.558	63	6381	0.57 ug/L	92
17) Cyclohexane	8.678	84	3741	0.46 ug/L	96
18) 2,2-Dichloropropane	8.131	77	4963	0.55 ug/L	98
19) cis-1,2-Dichloroethene	8.114	96	3326	0.49 ug/L	85
20) Chloroform	8.369	83	6111	0.52 ug/L	93
21) Bromochloromethane	8.343	128	1495	0.56 ug/L	68
23) 1,1,1-Trichloroethane	8.599	97	4555	0.51 ug/L	94
24) Acetone	6.289	43	7028	0.33 ug/L #	87
25) 2-Butanone	8.087	43	6155	1.44 ug/L	91
26) Carbon Disulfide	6.597	76	10406	0.50 ug/L #	50
27) Iodomethane	6.474	142	3369	0.47 ug/L	87
28) Vinyl acetate	7.541	43	15452	0.43 ug/L #	81
29) Methyl tert-butyl ether	7.100	73	6953	0.47 ug/L	88
31) 1,1-Dichloropropene	8.731	75	3809	0.48 ug/L	92
32) Carbon tetrachloride	8.757	117	3103	0.51 ug/L	89
33) 1,2-Dichloroethane	8.898	62	4784	0.54 ug/L	99
34) Benzene	8.925	78	12320	0.56 ug/L	96
35) 2,2,4-Trimethylpentane	8.951	57	11199	0.50 ug/L #	94
36) n-Heptane	9.066	57	2396m	0.47 ug/L	
37) Trichloroethene	9.428	95	3309	0.53 ug/L	95

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032904.D
Acq On : 29 Mar 2014 17:42
Operator : JM
Sample : 0.5 PPB
Misc : ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 30 16:00:53 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

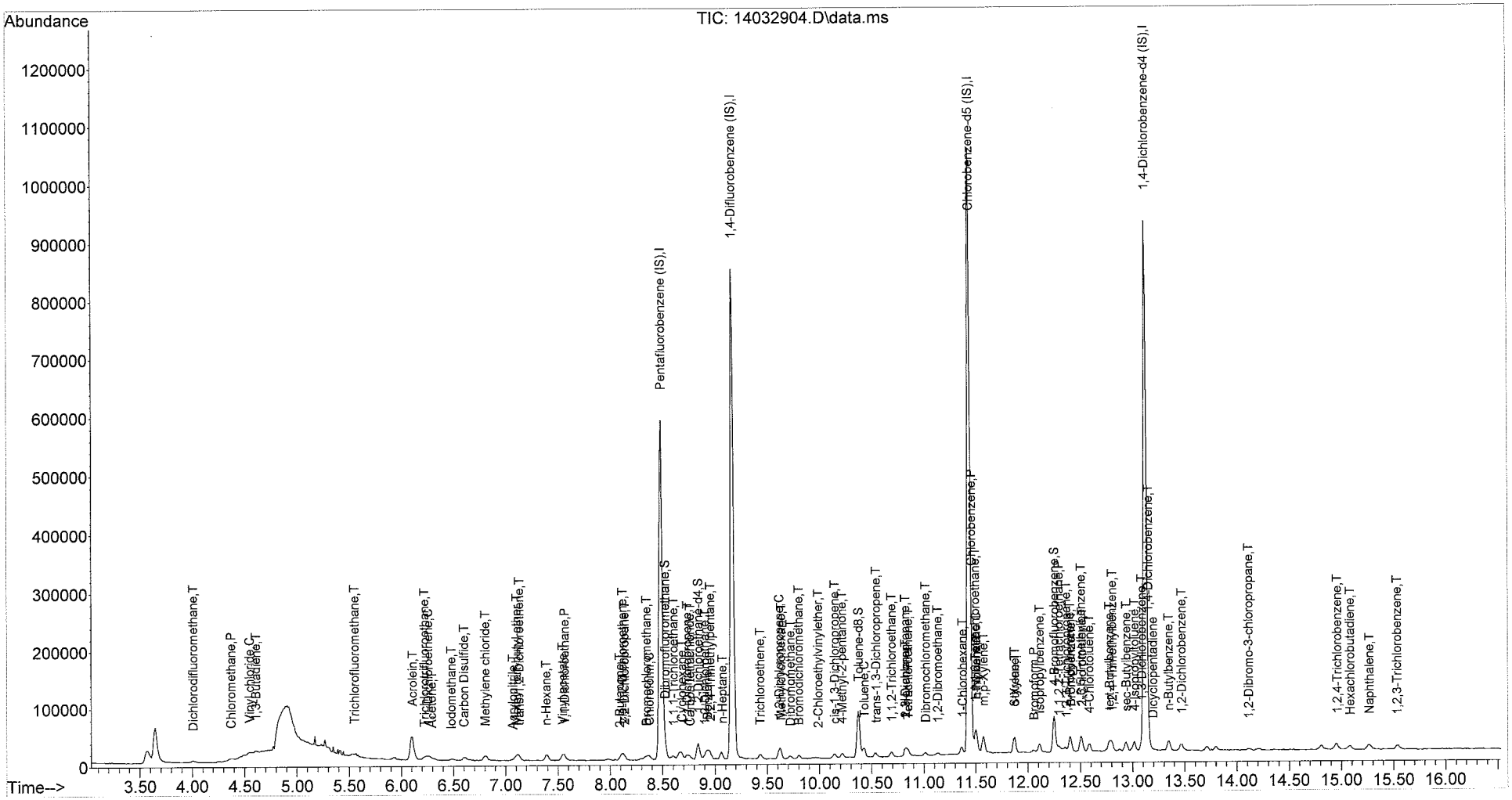
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.613	63	3281m	0.53 ug/L	
39) Bromodichloromethane	9.798	83	4086	0.50 ug/L	97
40) Methylcyclohexane	9.630	56	1340	0.50 ug/L	80
41) Dibromomethane	9.718	93	2542	0.54 ug/L	96
42) cis-1,3-Dichloropropene	10.142	75	4763	0.49 ug/L	97
43) 2-Chloroethylvinylether	9.983	63	305	3.43 ug/L #	1
44) 4-Methyl-2-pentanone	10.212	43	7633	1.07 ug/L	96
48) Toluene	10.424	92	7573	0.58 ug/L	98
49) trans-1,3-Dichloropropene	10.539	75	4301	0.52 ug/L	89
50) 1,1,2-Trichloroethane	10.688	83	3310	0.67 ug/L	94
51) 1,3-Dichloropropane	10.821	76	5478	0.60 ug/L	95
52) Tetrachloroethene	10.847	166	2361	0.51 ug/L	86
53) Dibromochloromethane	11.015	129	2510	0.54 ug/L	84
54) 1,2-Dibromoethane	11.129	107	2922	0.53 ug/L	87
55) 1-Chlorohexane	11.367	91	4057	0.49 ug/L	99
56) Chlorobenzene	11.456	112	7097	0.61 ug/L #	77
57) n-Nonane	11.500	57	4435	0.47 ug/L	88
58) 1,1,1,2-Tetrachloroethane	11.491	131	2503	0.63 ug/L #	60
59) Ethylbenzene	11.500	91	13519	0.55 ug/L	96
60) m,p-Xylene	11.570	106	8600	1.10 ug/L	93
61) o-Xylene	11.870	106	4164	0.57 ug/L	96
62) Styrene	11.870	104	7482	0.55 ug/L	96
63) Isopropylbenzene	12.108	105	10448	0.54 ug/L	98
64) Bromoform	12.055	173	2122	0.62 ug/L	96
65) 1,1,2,2-Tetrachloroethane	12.293	83	5776	0.43 ug/L	91
67) 2-Hexanone	10.821	43	6678	1.57 ug/L	92
69) 1,2,3-Trichloropropane	12.364	110	1456	1.07 ug/L	93
70) n-Propylbenzene	12.399	91	15608	0.58 ug/L	91
71) Bromobenzene	12.408	156	3193	0.64 ug/L	93
72) 1,3,5-Trimethylbenzene	12.505	105	10311	0.60 ug/L	96
73) 2-Chlorotoluene	12.514	91	11277	0.62 ug/L	97
74) 4-Chlorotoluene	12.584	91	10334	0.63 ug/L	96
75) tert-Butylbenzene	12.778	119	8619	0.65 ug/L	95
76) 1,2,4-Trimethylbenzene	12.805	105	10512	0.60 ug/L	99
77) sec-Butylbenzene	12.937	105	13085	0.61 ug/L	96
78) 4-Isopropyltoluene	13.016	119	8642	0.60 ug/L	96
79) 1,3-Dichlorobenzene	13.087	146	5672	0.72 ug/L #	88
80) 1,4-Dichlorobenzene	13.148	146	6157	0.53 ug/L #	40
81) Dicyclopentadiene	13.193	66	1504	0.62 ug/L #	53
82) n-Butylbenzene	13.342	92	7356	0.60 ug/L	94
83) 1,2-Dichlorobenzene	13.466	146	5752	0.83 ug/L	97
84) 1,2-Dibromo-3-chloropr...	14.110	157	694	0.70 ug/L #	79
85) 1,2,4-Trichlorobenzene	14.956	180	4279	0.72 ug/L	94
86) Hexachlorobutadiene	15.079	190	1209	0.88 ug/L	83
87) Naphthalene	15.265	128	9501	0.81 ug/L	97
88) 1,2,3-Trichlorobenzene	15.529	180	3779	0.67 ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032904.D
Acq On : 29 Mar 2014 17:42
Operator : JM
Sample : 0.5 PPB
Misc : ICAL
ALS Vial : 10 Sample Multiplier: 1

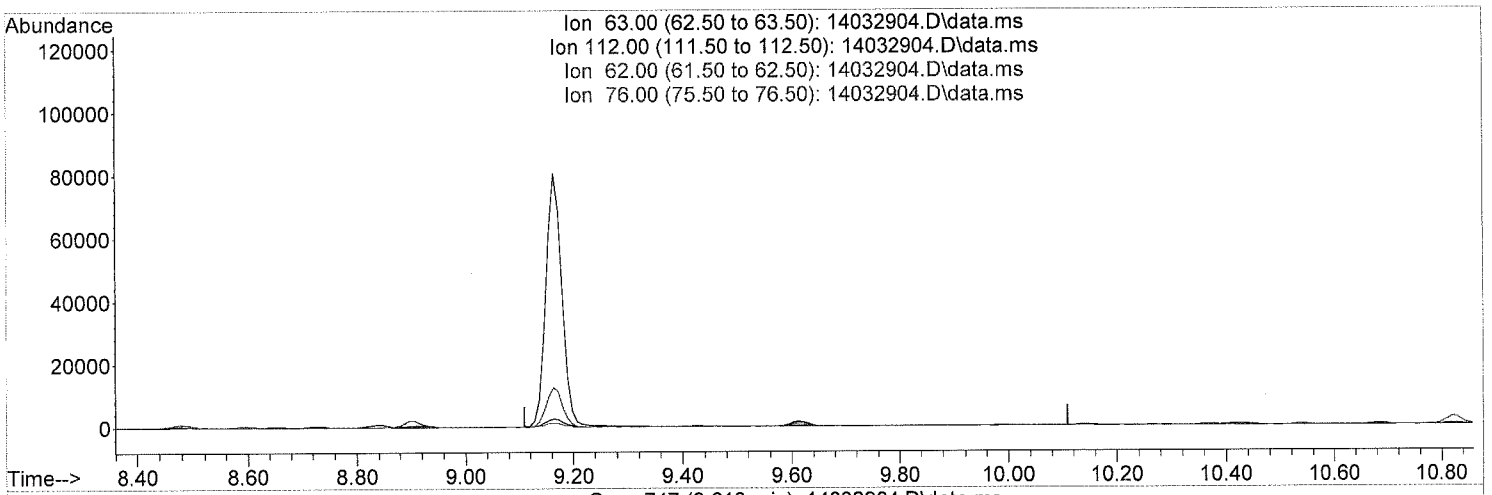
Quant Time: Mar 30 16:00:53 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

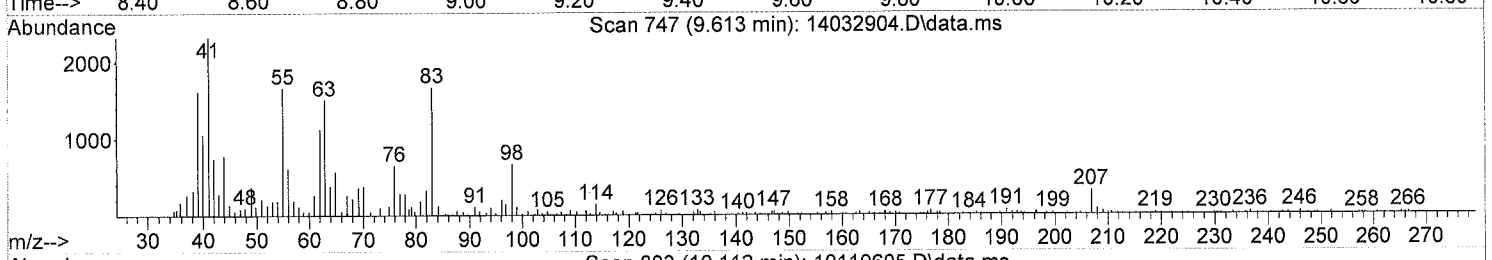


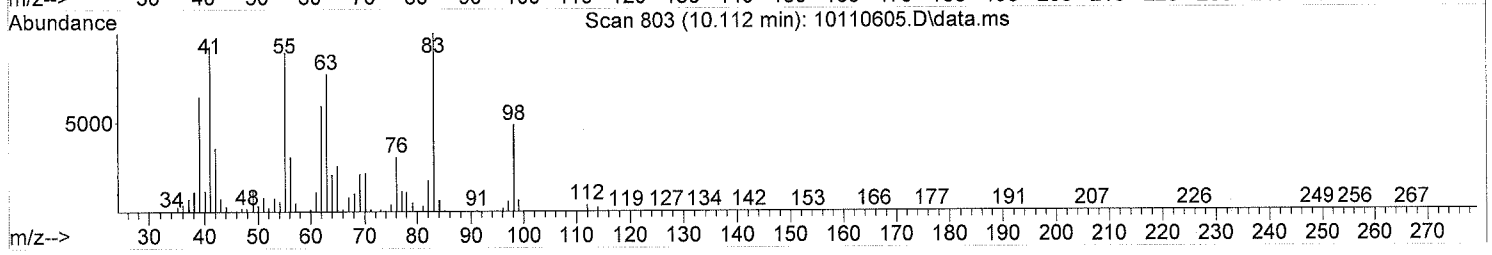
Quantitation Report (Qedit)

Data Path : H:\VOA\A228\140329\
Data File : 14032904.D
Acq On : 29 Mar 2014 17:42
Operator : JM
Sample : 0.5 PPB
Misc : ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 30 16:00:11 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration







TIC: 14032904.D\data.ms

(38) 1,2-Dichloropropane (C)

9.609min (-9.609) 0.00 ug/L

response 0

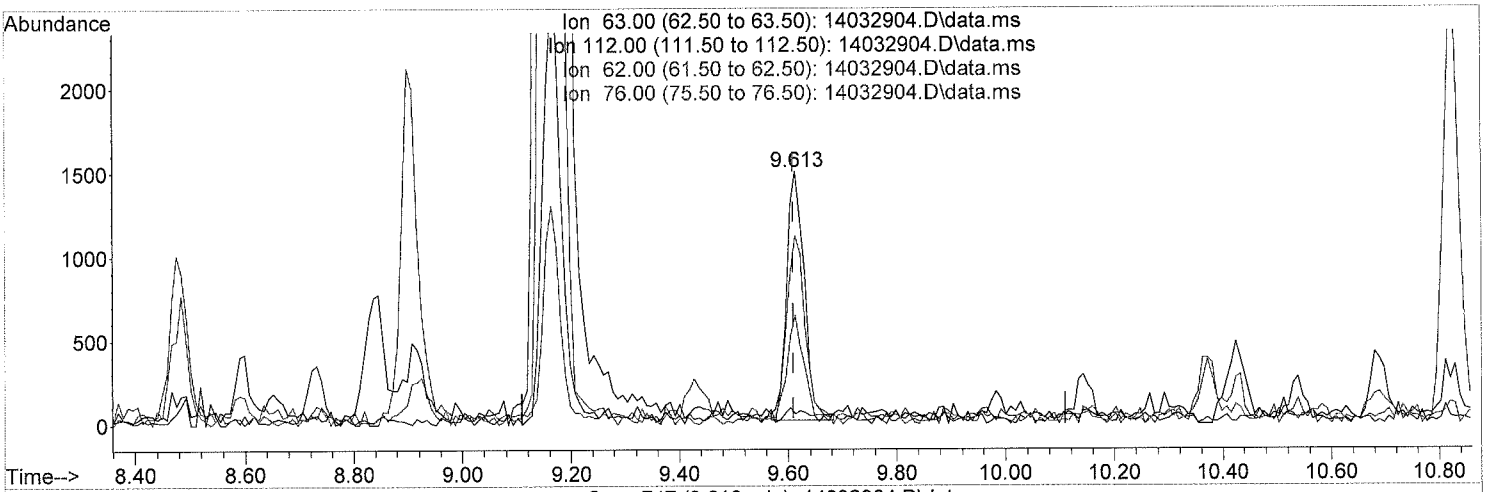
Ion	Exp%	Act%
63.00	100	0.00
112.00	3.70	0.00
62.00	79.10	0.00#
76.00	43.60	0.00#

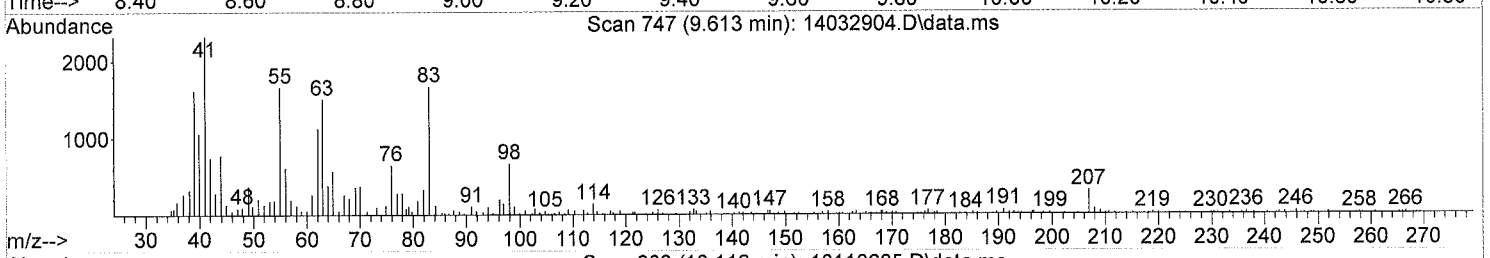
before
DMU 1/1/14

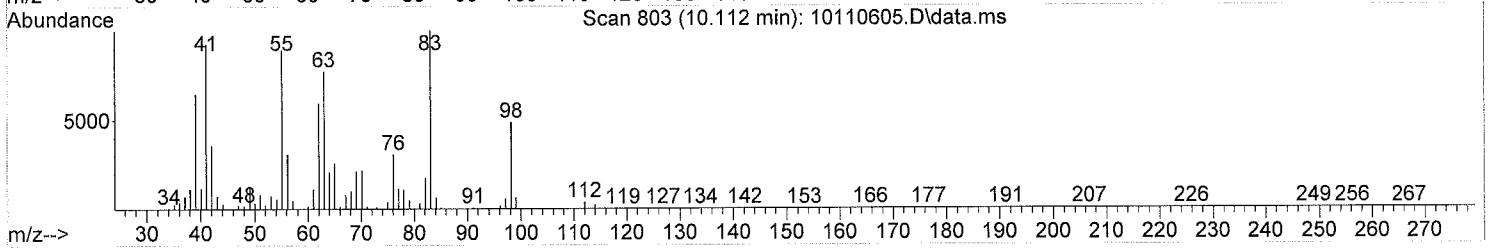
Quantitation Report (Qedit)

Data Path : H:\VOA\A228\140329\
Data File : 14032904.D
Acq On : 29 Mar 2014 17:42
Operator : JM
Sample : 0.5 PPB
Misc : ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 30 16:00:11 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration







TIC: 14032904.D\data.ms

(38) 1,2-Dichloropropane (C)

9.613min (+0.004) 0.53 ug/L m

response 3281

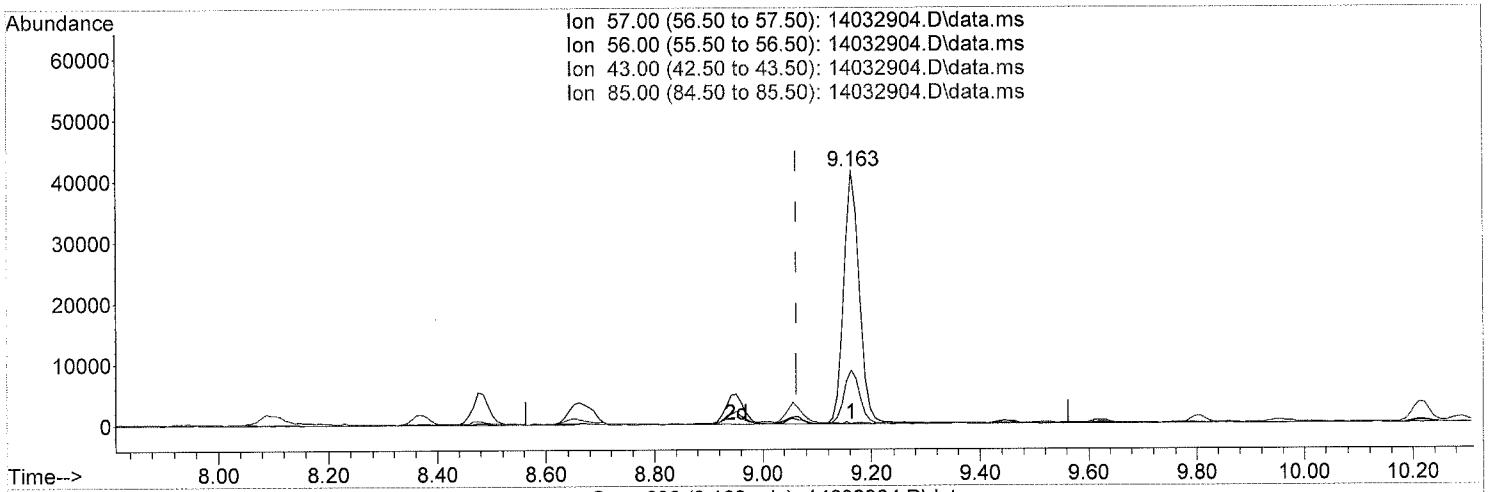
Ion	Exp%	Act%
63.00	100	100
112.00	3.70	3.92
62.00	79.10	74.35
76.00	43.60	42.92

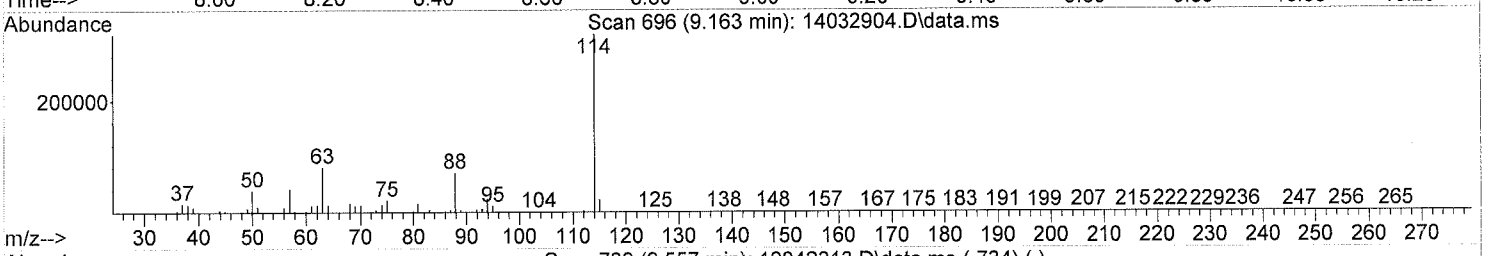
after IC multiply

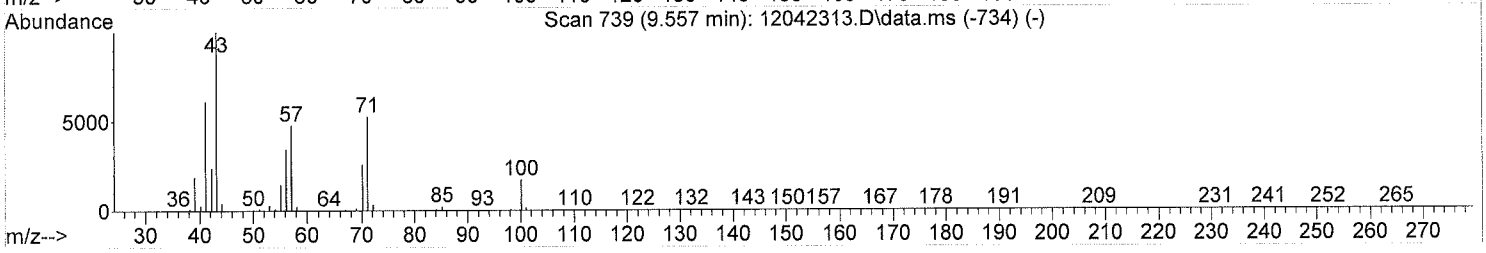
Quantitation Report (Qedit)

Data Path : H:\VOA\A228\140329\
Data File : 14032904.D
Acq On : 29 Mar 2014 17:42
Operator : JM
Sample : 0.5 PPB
Misc : ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 30 16:00:11 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration







TIC: 14032904.D\data.ms

(36) n-Heptane (T)

9.163min (+0.100) 16.41 ug/L

response 83598

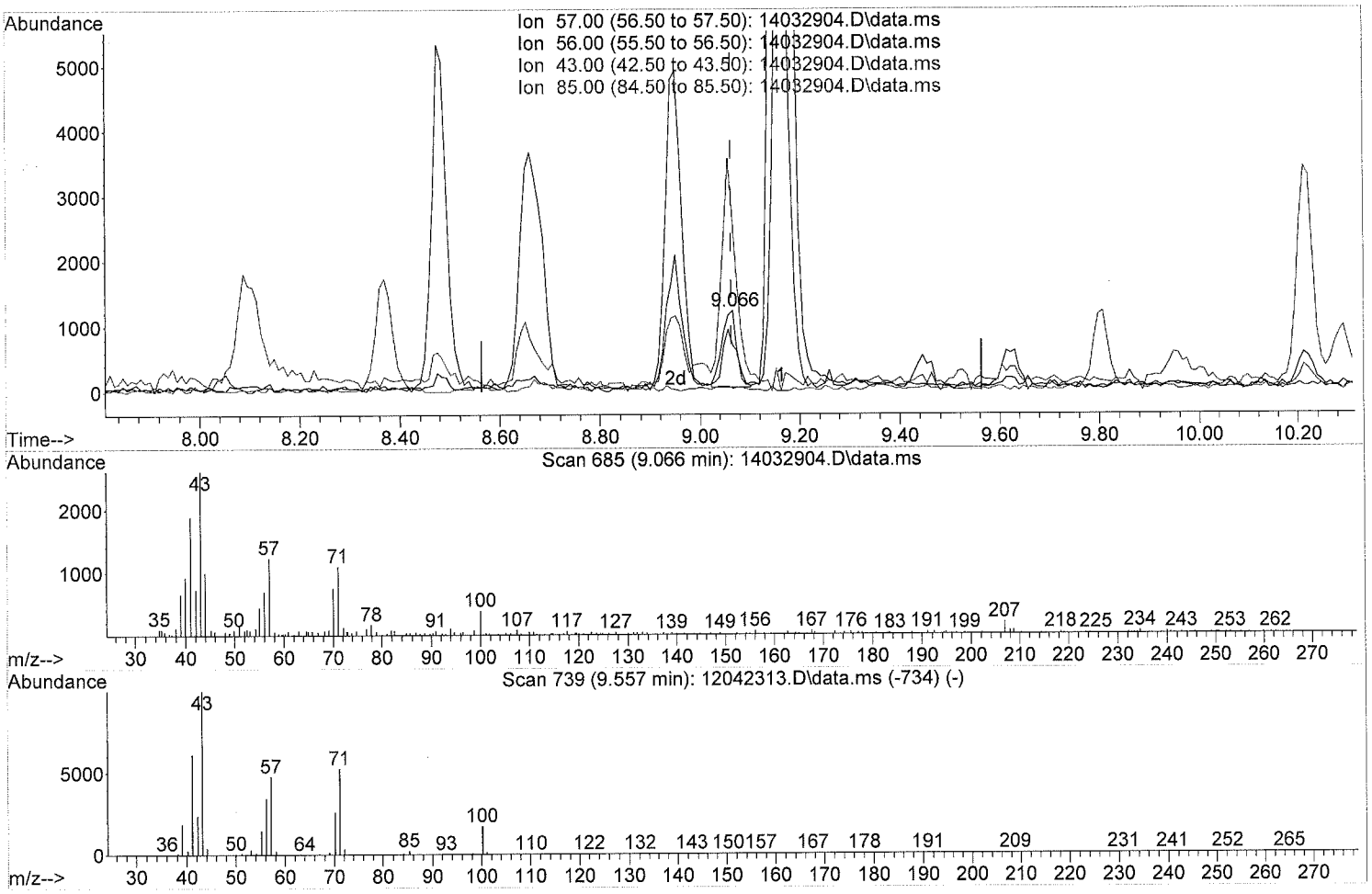
Ion	Exp%	Act%
57.00	100	100
56.00	67.50	21.08#
43.00	248.80	0.00#
85.00	4.20	0.00#

before DMulling

Quantitation Report (Qedit)

Data Path : H:\VOA\A228\140329\
Data File : 14032904.D
Acq On : 29 Mar 2014 17:42
Operator : JM
Sample : 0.5 PPB
Misc : ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 30 16:00:11 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



TIC: 14032904.D\data.ms

(36) n-Heptane (T)

9.066min (+0.003) 0.47 ug/L m

response 2396

Ion	Exp%	Act%
57.00	100	100
56.00	67.50	56.51
43.00	248.80	212.62
85.00	4.20	2.85#

after IC multiply

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032905.D
Acq On : 29 Mar 2014 18:07
Operator : JM
Sample : 1.0 PPB
Misc : ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 30 17:41:35 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.486	168	374175	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.165	114	659073	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.440	117	586064	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.124	152	269492	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.512	113	28554	4.91 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery	= 9.82%#	
45) 1,2-Dichloroethane-d4	8.838	65	37125	4.89 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery	= 9.78%#	
46) Toluene-d8	10.373	98	89596	4.82 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery	= 9.64%#	
66) 4-Bromofluorobenzene	12.251	95	39081	5.71 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery	= 11.42%#	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.998	85	5951	1.01 ug/L	97
3) Chloromethane	4.377	50	9332	1.14 ug/L	97
4) Vinyl chloride	4.544	62	7392	1.03 ug/L	96
5) 1,3-Butadiene	4.606	54	3482	1.06 ug/L #	82
6) Bromomethane	4.968	94	2506	Below Cal #	66
7) Chloroethane	5.118	64	3097	Below Cal #	1
8) Trichlorofluoromethane	5.550	101	9339	0.98 ug/L	98
9) Acrolein	6.096	56	74999	74.90 ug/L	94
10) Trichlorotrifluoroethane	6.229	151	3298	1.01 ug/L	90
11) 1,1-Dichloroethene	6.255	61	9204	1.01 ug/L	96
12) Methylene chloride	6.802	84	7577	1.04 ug/L	96
13) Acrylonitrile	7.057	53	2651	0.94 ug/L #	80
14) trans-1,2-Dichloroethene	7.128	61	8583	0.94 ug/L	95
15) n-Hexane	7.401	57	7992	0.95 ug/L	97
16) 1,1-Dichloroethane	7.560	63	11682	1.06 ug/L	96
17) Cyclohexane	8.680	84	8084	1.02 ug/L	91
18) 2,2-Dichloropropane	8.133	77	8454	0.95 ug/L	93
19) cis-1,2-Dichloroethene	8.107	96	6502	0.98 ug/L	91
20) Chloroform	8.371	83	11778	1.03 ug/L	97
21) Bromochloromethane	8.336	128	2546	0.97 ug/L	81
23) 1,1,1-Trichloroethane	8.592	97	8203	0.94 ug/L	93
24) Acetone	6.290	43	10415	1.64 ug/L #	92
25) 2-Butanone	8.089	43	9869	2.42 ug/L #	95
26) Carbon Disulfide	6.608	76	20072	0.98 ug/L	82
27) Iodomethane	6.484	142	6404	0.91 ug/L	99
28) Vinyl acetate	7.542	43	29044	0.83 ug/L #	89
29) Methyl tert-butyl ether	7.101	73	13782	0.95 ug/L	95
31) 1,1-Dichloropropene	8.733	75	7473	0.95 ug/L	97
32) Carbon tetrachloride	8.750	117	5553	0.92 ug/L	94
33) 1,2-Dichloroethane	8.900	62	9075	1.03 ug/L	95
34) Benzene	8.927	78	22128	1.00 ug/L	93
35) 2,2,4-Trimethylpentane	8.944	57	20897	0.93 ug/L	96
36) n-Heptane	9.059	57	4429	0.90 ug/L #	91
37) Trichloroethene	9.429	95	6264	1.02 ug/L	93

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032905.D
Acq On : 29 Mar 2014 18:07
Operator : JM
Sample : 1.0 PPB
Misc : ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 30 17:41:35 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

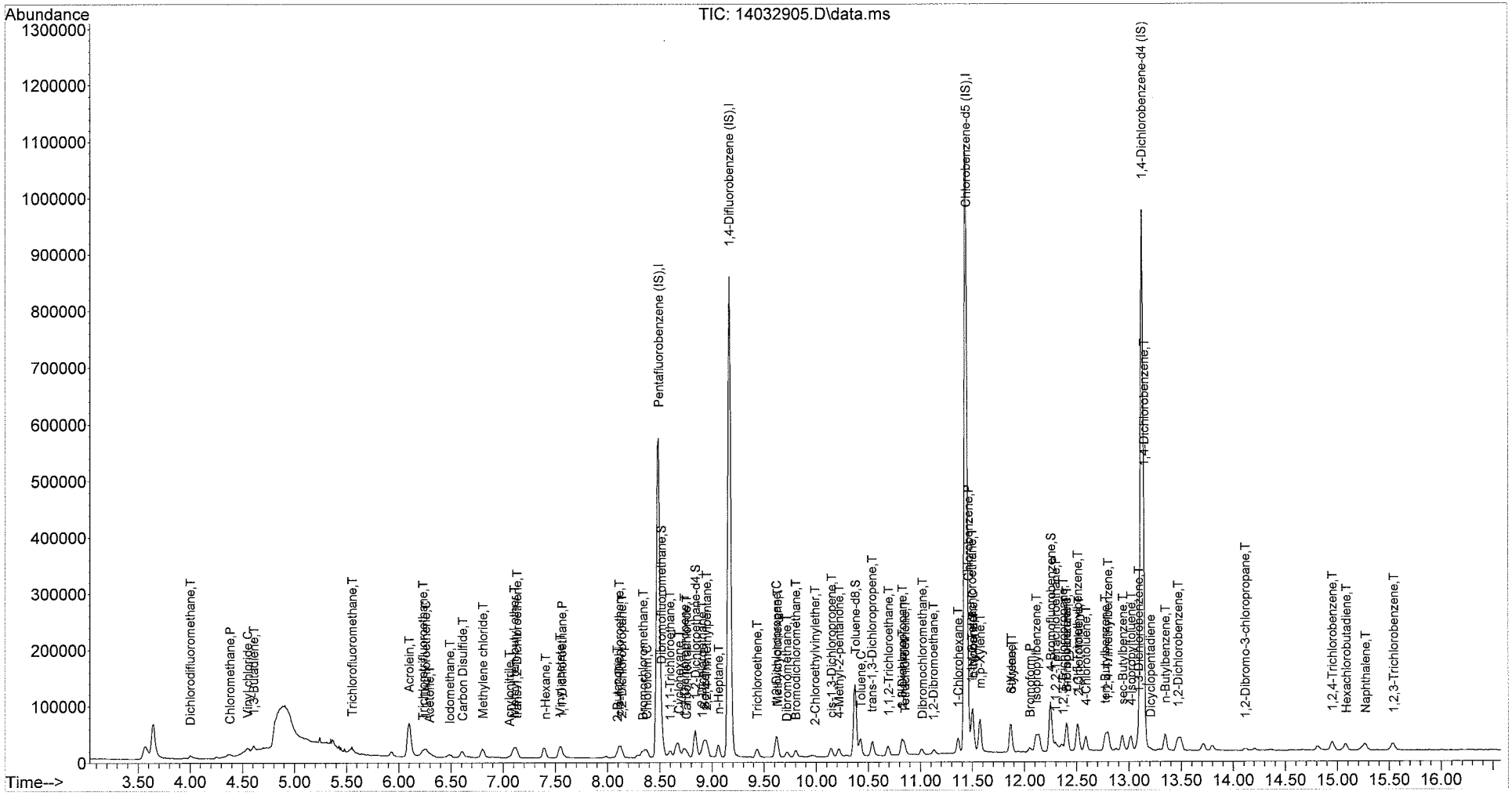
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.614	63	6349	1.05 ug/L	94
39) Bromodichloromethane	9.800	83	8210	1.01 ug/L	98
40) Methylcyclohexane	9.623	56	2450	0.93 ug/L	93
41) Dibromomethane	9.711	93	4700	1.01 ug/L	97
42) cis-1,3-Dichloropropene	10.143	75	9208	0.95 ug/L	95
43) 2-Chloroethylvinylether	9.985	63	813	4.00 ug/L #	1
44) 4-Methyl-2-pentanone	10.214	43	13833	1.96 ug/L	95
48) Toluene	10.426	92	13425	0.98 ug/L	95
49) trans-1,3-Dichloropropene	10.531	75	9059	1.07 ug/L	95
50) 1,1,2-Trichloroethane	10.690	83	5280	1.04 ug/L	97
51) 1,3-Dichloropropane	10.822	76	10096	1.06 ug/L	94
52) Tetrachloroethene	10.849	166	4925	1.03 ug/L	89
53) Dibromochloromethane	11.016	129	4923	1.02 ug/L	94
54) 1,2-Dibromoethane	11.122	107	6169	1.08 ug/L	83
55) 1-Chlorohexane	11.360	91	8345	0.97 ug/L	92
56) Chlorobenzene	11.457	112	13437	1.10 ug/L #	88
57) n-Nonane	11.501	57	9674	1.00 ug/L	92
58) 1,1,1,2-Tetrachloroethane	11.493	131	4381	1.07 ug/L	87
59) Ethylbenzene	11.501	91	25967	1.02 ug/L	99
60) m,p-Xylene	11.572	106	16712	2.06 ug/L	98
61) o-Xylene	11.872	106	7976	1.05 ug/L	91
62) Styrene	11.872	104	14343	1.01 ug/L	99
63) Isopropylbenzene	12.110	105	21408	1.07 ug/L	95
64) Bromoform	12.048	173	3517	0.99 ug/L	95
65) 1,1,2,2-Tetrachloroethane	12.295	83	8416	0.76 ug/L	94
67) 2-Hexanone	10.822	43	9512	2.09 ug/L	93
69) 1,2,3-Trichloropropane	12.365	110	2445	1.58 ug/L	81
70) n-Propylbenzene	12.401	91	28695	1.03 ug/L	94
71) Bromobenzene	12.401	156	5875	1.13 ug/L	88
72) 1,3,5-Trimethylbenzene	12.507	105	18089	1.00 ug/L	98
73) 2-Chlorotoluene	12.515	91	19847	1.04 ug/L	92
74) 4-Chlorotoluene	12.586	91	17582	1.02 ug/L	96
75) tert-Butylbenzene	12.771	119	14351	1.04 ug/L	98
76) 1,2,4-Trimethylbenzene	12.797	105	19088	1.04 ug/L	98
77) sec-Butylbenzene	12.939	105	23003	1.02 ug/L	98
78) 4-Isopropyltoluene	13.018	119	15011	0.99 ug/L	94
79) 1,3-Dichlorobenzene	13.088	146	9114	1.13 ug/L #	90
80) 1,4-Dichlorobenzene	13.141	146	9859	0.94 ug/L #	1
81) Dicyclopentadiene	13.203	66	2625	1.03 ug/L #	88
82) n-Butylbenzene	13.344	92	12323	0.97 ug/L	98
83) 1,2-Dichlorobenzene	13.468	146	8867	1.21 ug/L	94
84) 1,2-Dibromo-3-chloropr...	14.111	157	1254	1.22 ug/L #	65
85) 1,2,4-Trichlorobenzene	14.949	180	6496	1.05 ug/L	97
86) Hexachlorobutadiene	15.081	190	1600	1.11 ug/L	93
87) Naphthalene	15.266	128	12419	1.02 ug/L	96
88) 1,2,3-Trichlorobenzene	15.540	180	6161	1.05 ug/L	96

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032905.D
Acq On : 29 Mar 2014 18:07
Operator : JM
Sample : 1.0 PPB
Misc : ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 30 17:41:35 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032906.D
Acq On : 29 Mar 2014 18:33
Operator : JM
Sample : 5.0 PPB
Misc : ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 30 17:41:41 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.481	168	357355	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.169	114	627791	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.435	117	560368	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.128	152	252122	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.516	113	106999	19.25 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery =	38.50%#	
45) 1,2-Dichloroethane-d4	8.834	65	142694	19.74 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery =	39.48%#	
46) Toluene-d8	10.368	98	343501	19.42 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery =	38.84%#	
66) 4-Bromofluorobenzene	12.246	95	142619	19.18 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery =	38.36%#	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.002	85	28638	5.08 ug/L	98
3) Chloromethane	4.381	50	38631	4.92 ug/L	99
4) Vinyl chloride	4.548	62	35085	5.11 ug/L	98
5) 1,3-Butadiene	4.610	54	16404	5.21 ug/L	98
6) Bromomethane	4.972	94	7233	4.58 ug/L #	81
7) Chloroethane	5.121	64	13229	5.23 ug/L	87
8) Trichlorofluoromethane	5.545	101	45289	4.99 ug/L	97
9) Acrolein	6.100	56	99336	103.88 ug/L	99
10) Trichlorotrifluoroethane	6.232	151	15267	4.90 ug/L	100
11) 1,1-Dichloroethene	6.259	61	42945	4.95 ug/L	98
12) Methylene chloride	6.806	84	34875	4.99 ug/L	97
13) Acrylonitrile	7.052	53	12444	4.63 ug/L	96
14) trans-1,2-Dichloroethene	7.123	61	44315	5.08 ug/L	97
15) n-Hexane	7.396	57	38840	4.83 ug/L	99
16) 1,1-Dichloroethane	7.555	63	50739	4.83 ug/L	99
17) Cyclohexane	8.675	84	37804	4.99 ug/L	92
18) 2,2-Dichloropropane	8.128	77	41798	4.94 ug/L	98
19) cis-1,2-Dichloroethene	8.111	96	31239	4.93 ug/L	99
20) Chloroform	8.366	83	54383	4.98 ug/L	98
21) Bromochloromethane	8.340	128	12154	4.83 ug/L	93
23) 1,1,1-Trichloroethane	8.595	97	41100	4.95 ug/L	95
24) Acetone	6.285	43	28058	8.72 ug/L	99
25) 2-Butanone	8.084	43	34266	9.10 ug/L	98
26) Carbon Disulfide	6.603	76	97438	4.97 ug/L	98
27) Iodomethane	6.488	142	31477	4.69 ug/L	96
28) Vinyl acetate	7.537	43	156717	4.68 ug/L	97
29) Methyl tert-butyl ether	7.105	73	67124	4.85 ug/L	98
31) 1,1-Dichloropropene	8.728	75	37312	4.98 ug/L	98
32) Carbon tetrachloride	8.754	117	28998	5.05 ug/L	95
33) 1,2-Dichloroethane	8.904	62	43044	5.10 ug/L	99
34) Benzene	8.922	78	103349	4.92 ug/L	99
35) 2,2,4-Trimethylpentane	8.948	57	107000	5.01 ug/L	99
36) n-Heptane	9.063	57	23646	5.02 ug/L	98
37) Trichloroethene	9.433	95	29299	5.00 ug/L	97

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032906.D
Acq On : 29 Mar 2014 18:33
Operator : JM
Sample : 5.0 PPB
Misc : ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 30 17:41:41 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

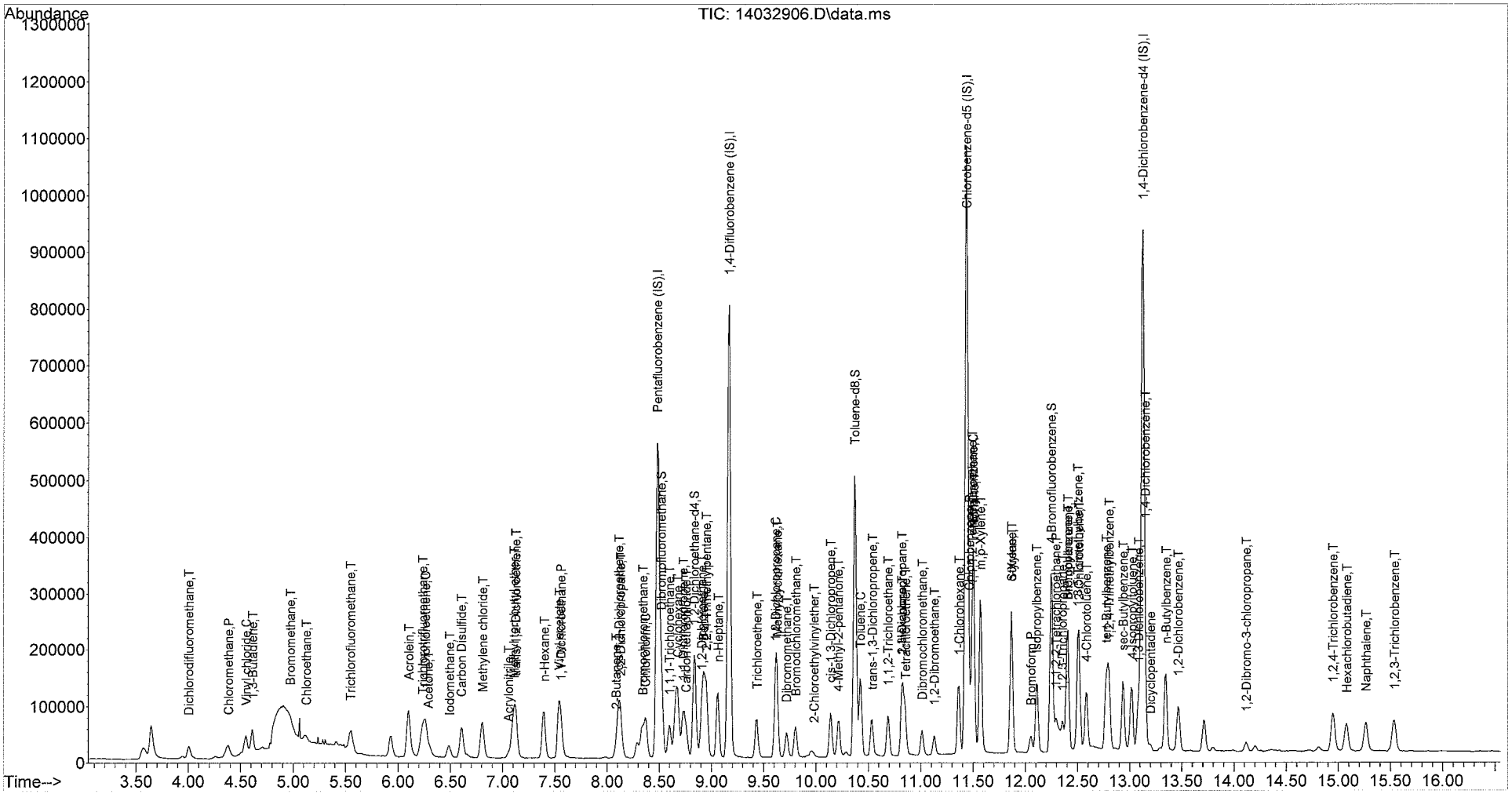
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.609	63	28734	4.99 ug/L	96
39) Bromodichloromethane	9.803	83	37721	4.86 ug/L	97
40) Methylcyclohexane	9.627	56	12788	5.09 ug/L	94
41) Dibromomethane	9.715	93	21947	4.94 ug/L	96
42) cis-1,3-Dichloropropene	10.139	75	45421	4.91 ug/L	97
43) 2-Chloroethylvinylether	9.980	63	2268	5.72 ug/L #	57
44) 4-Methyl-2-pentanone	10.209	43	59643	8.86 ug/L	99
48) Toluene	10.421	92	62908	4.82 ug/L	99
49) trans-1,3-Dichloropropene	10.535	75	37450	4.61 ug/L	97
50) 1,1,2-Trichloroethane	10.685	83	23232	4.77 ug/L	97
51) 1,3-Dichloropropane	10.817	76	43799	4.81 ug/L	99
52) Tetrachloroethene	10.853	166	23135	5.08 ug/L	99
53) Dibromochloromethane	11.011	129	21619	4.67 ug/L	96
54) 1,2-Dibromoethane	11.126	107	25438	4.65 ug/L	98
55) 1-Chlorohexane	11.364	91	40264	4.92 ug/L	93
56) Chlorobenzene	11.461	112	55928	4.81 ug/L	97
57) n-Nonane	11.505	57	50399	5.44 ug/L	98
58) 1,1,1,2-Tetrachloroethane	11.488	131	18822	4.80 ug/L	95
59) Ethylbenzene	11.496	91	121684	4.98 ug/L	99
60) m,p-Xylene	11.567	106	76225	9.83 ug/L	99
61) o-Xylene	11.867	106	35718	4.92 ug/L	95
62) Styrene	11.867	104	64125	4.75 ug/L	99
63) Isopropylbenzene	12.105	105	91587	4.79 ug/L	97
64) Bromoform	12.052	173	14471	4.27 ug/L	96
65) 1,1,2,2-Tetrachloroethane	12.290	83	36511	4.72 ug/L	99
67) 2-Hexanone	10.817	43	40770	8.72 ug/L	97
69) 1,2,3-Trichloropropane	12.352	110	8421	5.20 ug/L	82
70) n-Propylbenzene	12.405	91	126380	4.85 ug/L	98
71) Bromobenzene	12.405	156	23304	4.79 ug/L	98
72) 1,3,5-Trimethylbenzene	12.502	105	80987	4.81 ug/L	99
73) 2-Chlorotoluene	12.510	91	88230	4.94 ug/L	98
74) 4-Chlorotoluene	12.581	91	78490	4.88 ug/L	98
75) tert-Butylbenzene	12.775	119	61825	4.77 ug/L	97
76) 1,2,4-Trimethylbenzene	12.801	105	83983	4.90 ug/L	98
77) sec-Butylbenzene	12.934	105	100767	4.79 ug/L	98
78) 4-Isopropyltoluene	13.022	119	68073	4.82 ug/L	98
79) 1,3-Dichlorobenzene	13.084	146	37580	5.04 ug/L	98
80) 1,4-Dichlorobenzene	13.145	146	42432	5.18 ug/L #	87
81) Dicyclopentadiene	13.198	66	11317	4.76 ug/L #	97
82) n-Butylbenzene	13.348	92	58231	4.89 ug/L	97
83) 1,2-Dichlorobenzene	13.463	146	36087	5.15 ug/L	98
84) 1,2-Dibromo-3-chloropr...	14.115	157	4328	4.49 ug/L	82
85) 1,2,4-Trichlorobenzene	14.944	180	29792	5.16 ug/L	96
86) Hexachlorobutadiene	15.076	190	7276	5.41 ug/L	93
87) Naphthalene	15.261	128	55214	4.84 ug/L	99
88) 1,2,3-Trichlorobenzene	15.535	180	27357	4.99 ug/L	100

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032906.D
Acq On : 29 Mar 2014 18:33
Operator : JM
Sample : 5.0 PPB
Misc : ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 30 17:41:41 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032907.D
Acq On : 29 Mar 2014 18:58
Operator : JM
Sample : 10 PPB
Misc : ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 30 17:41:51 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.481	168	358459	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.169	114	633226	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.435	117	555411	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.128	152	257562	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.516	113	151964	27.26 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 54.52%		
45) 1,2-Dichloroethane-d4	8.834	65	208482	28.59 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 57.18%		
46) Toluene-d8	10.368	98	472622	26.48 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 52.96%#		
66) 4-Bromofluorobenzene	12.246	95	206226	27.55 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 55.10%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.002	85	55550	9.83 ug/L	98
3) Chloromethane	4.372	50	76621	9.74 ug/L	98
4) Vinyl chloride	4.549	62	69656	10.12 ug/L	98
5) 1,3-Butadiene	4.610	54	31283	9.91 ug/L	94
6) Bromomethane	4.963	94	12442	10.94 ug/L	99
7) Chloroethane	5.113	64	22891	10.13 ug/L	91
8) Trichlorofluoromethane	5.545	101	90355	9.93 ug/L	99
9) Acrolein	6.100	56	120209	125.32 ug/L	100
10) Trichlorotrifluoroethane	6.233	151	30369	9.72 ug/L	98
11) 1,1-Dichloroethene	6.259	61	88094	10.12 ug/L	98
12) Methylene chloride	6.806	84	67720	9.66 ug/L	98
13) Acrylonitrile	7.053	53	25710	9.54 ug/L	99
14) trans-1,2-Dichloroethene	7.123	61	87592	10.01 ug/L	97
15) n-Hexane	7.397	57	79528	9.86 ug/L	99
16) 1,1-Dichloroethane	7.555	63	103811	9.85 ug/L	99
17) Cyclohexane	8.675	84	75142	9.88 ug/L	93
18) 2,2-Dichloropropane	8.128	77	85251	10.04 ug/L	98
19) cis-1,2-Dichloroethene	8.111	96	63407	9.97 ug/L	98
20) Chloroform	8.367	83	108962	9.95 ug/L	98
21) Bromochloromethane	8.340	128	24848	9.84 ug/L	88
23) 1,1,1-Trichloroethane	8.596	97	83535	10.04 ug/L	98
24) Acetone	6.286	43	55567	19.41 ug/L	96
25) 2-Butanone	8.084	43	74239	19.79 ug/L	100
26) Carbon Disulfide	6.603	76	194046	9.87 ug/L	99
27) Iodomethane	6.488	142	67551	10.02 ug/L	99
28) Vinyl acetate	7.538	43	342333	10.19 ug/L	99
29) Methyl tert-butyl ether	7.106	73	138575	9.98 ug/L	99
31) 1,1-Dichloropropene	8.728	75	75174	9.95 ug/L	99
32) Carbon tetrachloride	8.763	117	56459	9.75 ug/L	95
33) 1,2-Dichloroethane	8.904	62	84213	9.90 ug/L	99
34) Benzene	8.922	78	208342	9.84 ug/L	99
35) 2,2,4-Trimethylpentane	8.948	57	214341	9.94 ug/L	99
36) n-Heptane	9.063	57	47861	10.07 ug/L	100
37) Trichloroethene	9.433	95	56619	9.59 ug/L	98

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032907.D
Acq On : 29 Mar 2014 18:58
Operator : JM
Sample : 10 PPB
Misc : ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 30 17:41:51 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

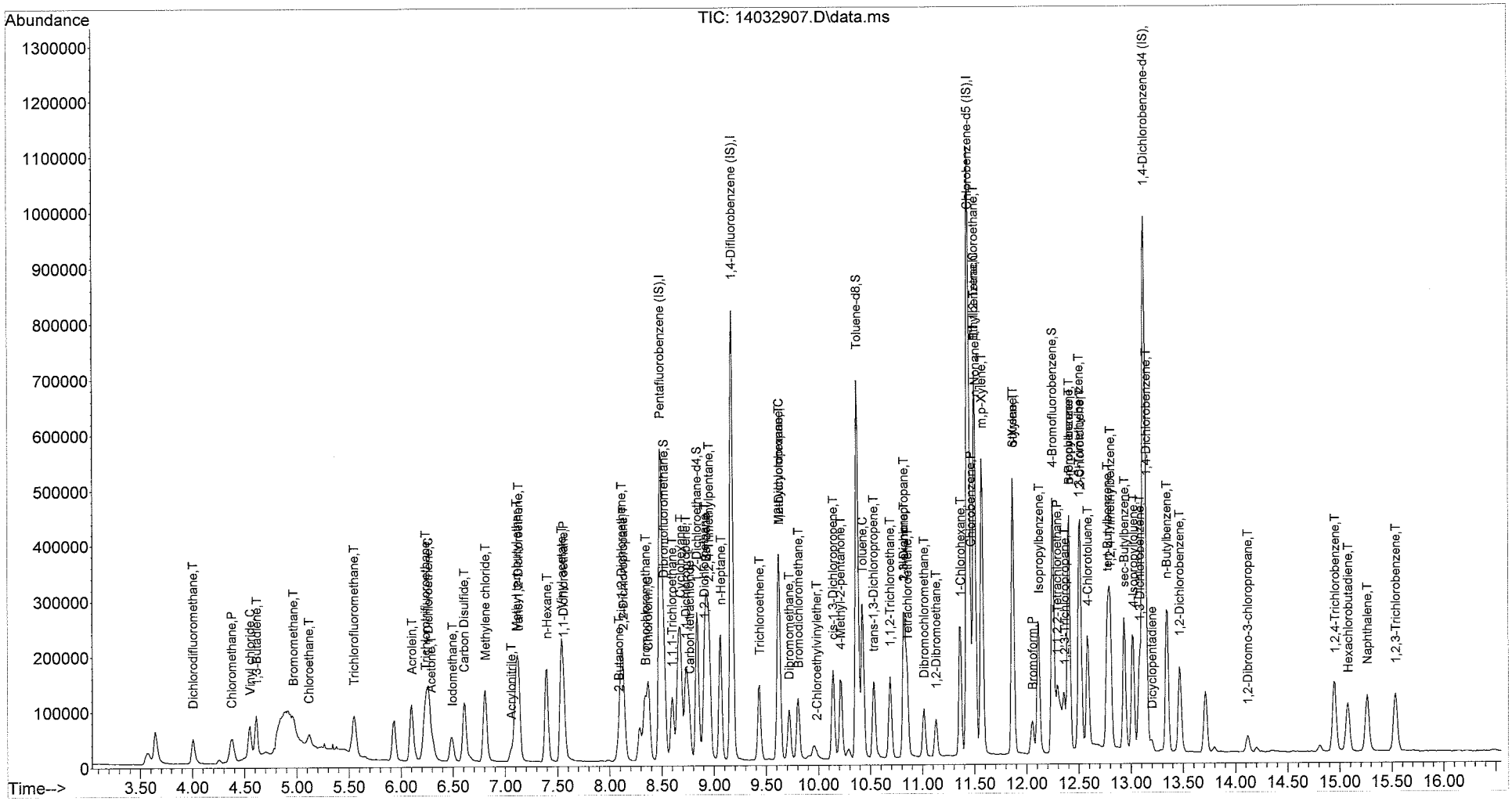
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1,2-Dichloropropane	9.619	63	56233	9.68 ug/L	98
39)	Bromodichloromethane	9.804	83	76535	9.77 ug/L	99
40)	Methylcyclohexane	9.619	56	25462	10.04 ug/L	96
41)	Dibromomethane	9.716	93	44363	9.89 ug/L	98
42)	cis-1,3-Dichloropropene	10.139	75	92775	9.94 ug/L	99
43)	2-Chloroethylvinylether	9.980	63	4317	8.04 ug/L #	66
44)	4-Methyl-2-pentanone	10.209	43	130360	19.19 ug/L	99
48)	Toluene	10.421	92	126897	9.81 ug/L	100
49)	trans-1,3-Dichloropropene	10.527	75	76625	9.51 ug/L	99
50)	1,1,2-Trichloroethane	10.685	83	45281	9.38 ug/L	96
51)	1,3-Dichloropropane	10.818	76	87832	9.73 ug/L	98
52)	Tetrachloroethene	10.853	166	44067	9.76 ug/L	97
53)	Dibromochloromethane	11.012	129	44082	9.61 ug/L	99
54)	1,2-Dibromoethane	11.126	107	53065	9.79 ug/L	99
55)	1-Chlorohexane	11.364	91	79071	9.74 ug/L	99
56)	Chlorobenzene	11.461	112	109391	9.49 ug/L	99
57)	n-Nonane	11.505	57	91580	9.97 ug/L	100
58)	1,1,1,2-Tetrachloroethane	11.497	131	36476	9.39 ug/L	98
59)	Ethylbenzene	11.497	91	235661	9.74 ug/L	99
60)	m,p-Xylene	11.567	106	149524	19.46 ug/L	99
61)	o-Xylene	11.867	106	69639	9.67 ug/L	97
62)	Styrene	11.867	104	126825	9.47 ug/L	99
63)	Isopropylbenzene	12.114	105	181035	9.56 ug/L	99
64)	Bromoform	12.052	173	30617	9.11 ug/L	98
65)	1,1,2,2-Tetrachloroethane	12.290	83	73549	9.98 ug/L	98
67)	2-Hexanone	10.818	43	90655	19.34 ug/L	98
69)	1,2,3-Trichloropropane	12.361	110	16861	9.97 ug/L	99
70)	n-Propylbenzene	12.405	91	251601	9.45 ug/L	99
71)	Bromobenzene	12.405	156	46499	9.35 ug/L	98
72)	1,3,5-Trimethylbenzene	12.502	105	160296	9.32 ug/L	100
73)	2-Chlorotoluene	12.511	91	171719	9.40 ug/L	98
74)	4-Chlorotoluene	12.581	91	152663	9.29 ug/L	98
75)	tert-Butylbenzene	12.775	119	121466	9.18 ug/L	100
76)	1,2,4-Trimethylbenzene	12.802	105	161681	9.24 ug/L	99
77)	sec-Butylbenzene	12.934	105	198041	9.22 ug/L	98
78)	4-Isopropyltoluene	13.022	119	131782	9.13 ug/L	100
79)	1,3-Dichlorobenzene	13.084	146	72508	9.53 ug/L	98
80)	1,4-Dichlorobenzene	13.146	146	82291	10.05 ug/L	98
81)	Dicyclopentadiene	13.198	66	21654	8.92 ug/L #	96
82)	n-Butylbenzene	13.339	92	110963	9.13 ug/L	98
83)	1,2-Dichlorobenzene	13.463	146	70112	9.77 ug/L	98
84)	1,2-Dibromo-3-chloropr...	14.115	157	8818	8.95 ug/L	93
85)	1,2,4-Trichlorobenzene	14.953	180	55562	9.42 ug/L	98
86)	Hexachlorobutadiene	15.076	190	12325	8.97 ug/L	94
87)	Naphthalene	15.262	128	110611	9.49 ug/L	99
88)	1,2,3-Trichlorobenzene	15.535	180	49539	8.84 ug/L	96

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032907.D
Acq On : 29 Mar 2014 18:58
Operator : JM
Sample : 10 PPB
Misc : ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 30 17:41:51 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032908.D
Acq On : 29 Mar 2014 19:24
Operator : JM
Sample : 20 PPB
Misc : ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 30 17:41:58 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.481	168	369812	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.168	114	651678	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.434	117	567525	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.127	152	264140	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.516	113	281068	48.87 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 97.74%		
45) 1,2-Dichloroethane-d4	8.833	65	365092	48.65 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 97.30%		
46) Toluene-d8	10.368	98	890406	48.48 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 96.96%		
66) 4-Bromofluorobenzene	12.246	95	378200	48.72 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 97.44%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.001	85	117552	20.17 ug/L	100
3) Chloromethane	4.372	50	156022	19.22 ug/L	100
4) Vinyl chloride	4.548	62	144169	20.31 ug/L	100
5) 1,3-Butadiene	4.610	54	65344	20.06 ug/L	100
6) Bromomethane	4.962	94	24281	24.52 ug/L	100
7) Chloroethane	5.112	64	46597	21.49 ug/L	100
8) Trichlorofluoromethane	5.544	101	188588	20.09 ug/L	100
9) Acrolein	6.100	56	147725	149.27 ug/L	100
10) Trichlorotrifluoroethane	6.232	151	63827	19.80 ug/L	100
11) 1,1-Dichloroethene	6.259	61	182821	20.36 ug/L	100
12) Methylene chloride	6.805	84	141489	19.57 ug/L	100
13) Acrylonitrile	7.052	53	55534	19.98 ug/L	100
14) trans-1,2-Dichloroethene	7.123	61	181893	20.15 ug/L	100
15) n-Hexane	7.387	57	168691	20.27 ug/L	100
16) 1,1-Dichloroethane	7.555	63	214029	19.68 ug/L	100
17) Cyclohexane	8.675	84	160304	20.43 ug/L	100
18) 2,2-Dichloropropane	8.128	77	176302	20.13 ug/L	100
19) cis-1,2-Dichloroethene	8.101	96	134040	20.42 ug/L	100
20) Chloroform	8.366	83	226371	20.04 ug/L	100
21) Bromochloromethane	8.331	128	51818	19.90 ug/L	100
23) 1,1,1-Trichloroethane	8.595	97	173234	20.18 ug/L	100
24) Acetone	6.276	43	113134	40.49 ug/L	100
25) 2-Butanone	8.084	43	149390	38.71 ug/L	100
26) Carbon Disulfide	6.603	76	410835	20.25 ug/L	100
27) Iodomethane	6.479	142	144353	20.77 ug/L	100
28) Vinyl acetate	7.528	43	736064	21.23 ug/L	100
29) Methyl tert-butyl ether	7.096	73	293673	20.50 ug/L	100
31) 1,1-Dichloropropene	8.727	75	160981	20.70 ug/L	100
32) Carbon tetrachloride	8.754	117	121557	20.39 ug/L	100
33) 1,2-Dichloroethane	8.904	62	172845	19.75 ug/L	100
34) Benzene	8.921	78	433581	19.90 ug/L	100
35) 2,2,4-Trimethylpentane	8.948	57	461543	20.81 ug/L	100
36) n-Heptane	9.063	57	101384	20.73 ug/L	100
37) Trichloroethene	9.433	95	120766	19.87 ug/L	100

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032908.D
Acq On : 29 Mar 2014 19:24
Operator : JM
Sample : 20 PPB
Misc : ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 30 17:41:58 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

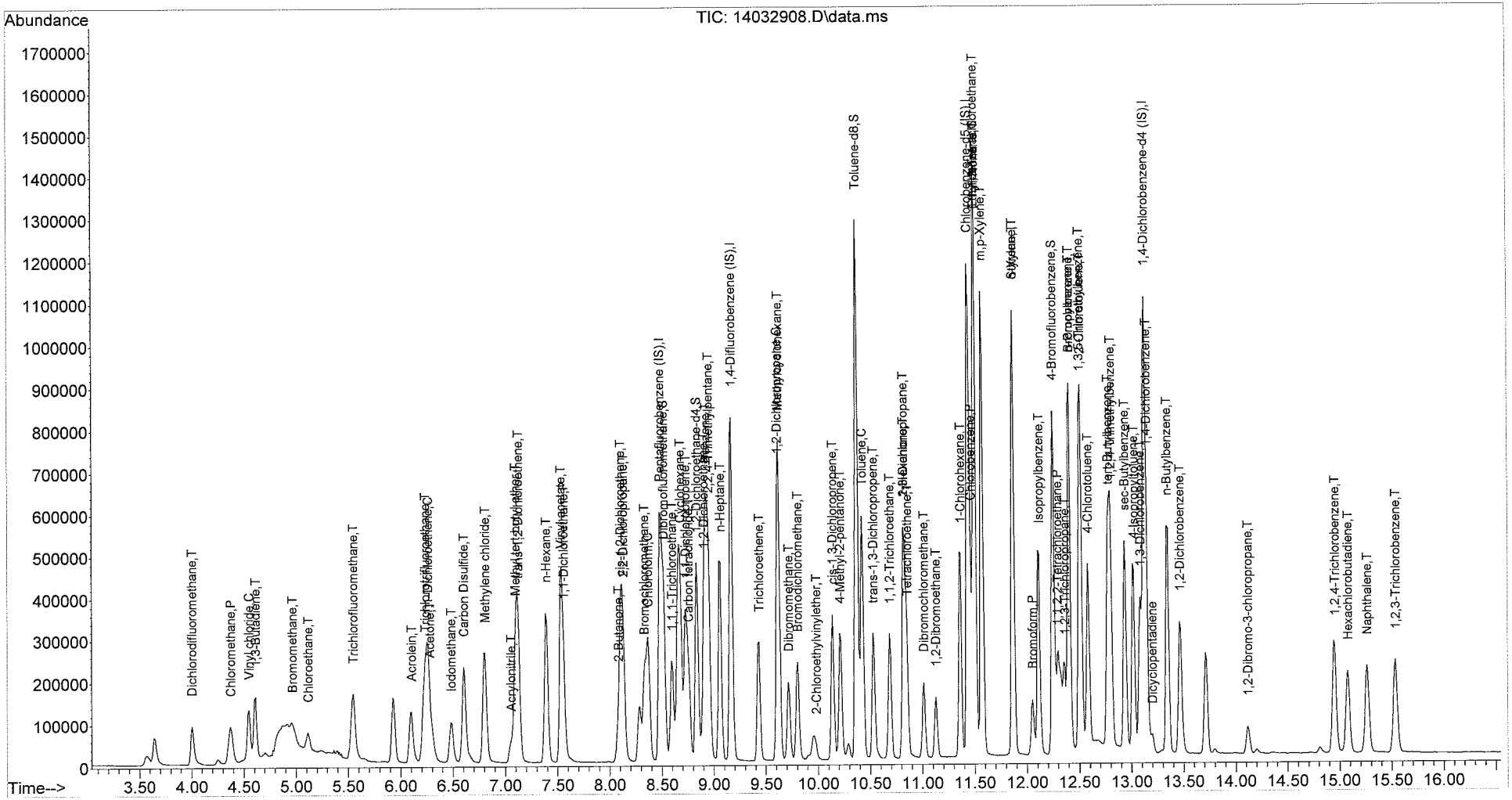
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.609	63	118326	19.80 ug/L	100
39) Bromodichloromethane	9.803	83	161422	20.03 ug/L	100
40) Methylcyclohexane	9.618	56	53973	20.68 ug/L	100
41) Dibromomethane	9.715	93	89350	19.36 ug/L	100
42) cis-1,3-Dichloropropene	10.138	75	196100	20.43 ug/L	100
43) 2-Chloroethylvinylether	9.980	63	12170	16.64 ug/L	100
44) 4-Methyl-2-pentanone	10.209	43	273286	39.09 ug/L	100
48) Toluene	10.420	92	262804	19.87 ug/L	100
49) trans-1,3-Dichloropropene	10.526	75	161146	19.57 ug/L	100
50) 1,1,2-Trichloroethane	10.685	83	92735	18.81 ug/L	100
51) 1,3-Dichloropropane	10.817	76	177392	19.24 ug/L	100
52) Tetrachloroethene	10.852	166	92359	20.01 ug/L	100
53) Dibromochloromethane	11.011	129	90693	19.35 ug/L	100
54) 1,2-Dibromoethane	11.126	107	107609	19.42 ug/L	100
55) 1-Chlorohexane	11.364	91	167610	20.21 ug/L	100
56) Chlorobenzene	11.461	112	223515	18.98 ug/L	100
57) n-Nonane	11.505	57	206197	21.96 ug/L	100
58) 1,1,1,2-Tetrachloroethane	11.496	131	75682	19.06 ug/L	100
59) Ethylbenzene	11.496	91	492999	19.93 ug/L	100
60) m,p-Xylene	11.567	106	310166	39.51 ug/L	100
61) o-Xylene	11.866	106	142695	19.40 ug/L	100
62) Styrene	11.866	104	271892	19.87 ug/L	100
63) Isopropylbenzene	12.113	105	375847	19.42 ug/L	100
64) Bromoform	12.052	173	65465	19.07 ug/L	100
65) 1,1,2,2-Tetrachloroethane	12.290	83	147175	19.89 ug/L	100
67) 2-Hexanone	10.817	43	187412	38.94 ug/L	100
69) 1,2,3-Trichloropropane	12.360	110	33672	19.19 ug/L	100
70) n-Propylbenzene	12.404	91	527898	19.34 ug/L	100
71) Bromobenzene	12.404	156	94488	18.53 ug/L	100
72) 1,3,5-Trimethylbenzene	12.501	105	339194	19.23 ug/L	100
73) 2-Chlorotoluene	12.510	91	354646	18.94 ug/L	100
74) 4-Chlorotoluene	12.581	91	318933	18.93 ug/L	100
75) tert-Butylbenzene	12.775	119	255257	18.81 ug/L	100
76) 1,2,4-Trimethylbenzene	12.801	105	340492	18.98 ug/L	100
77) sec-Butylbenzene	12.933	105	420721	19.10 ug/L	100
78) 4-Isopropyltoluene	13.022	119	283365	19.14 ug/L	100
79) 1,3-Dichlorobenzene	13.083	146	158797	20.38 ug/L	100
80) 1,4-Dichlorobenzene	13.145	146	161888	19.50 ug/L	100
81) Dicyclopentadiene	13.198	66	46270	18.59 ug/L	100
82) n-Butylbenzene	13.339	92	242798	19.47 ug/L	100
83) 1,2-Dichlorobenzene	13.462	146	145833	19.77 ug/L	100
84) 1,2-Dibromo-3-chloropr...	14.115	157	18544	18.35 ug/L	100
85) 1,2,4-Trichlorobenzene	14.953	180	120134	19.86 ug/L	100
86) Hexachlorobutadiene	15.076	190	28369	20.13 ug/L	100
87) Naphthalene	15.261	128	230284	19.27 ug/L	100
88) 1,2,3-Trichlorobenzene	15.534	180	105955	18.43 ug/L	100

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032908.D
Acq On : 29 Mar 2014 19:24
Operator : JM
Sample : 20 PPB
Misc : ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 30 17:41:58 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032909.D
Acq On : 29 Mar 2014 19:50
Operator : JM
Sample : 40 PPB
Misc : ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 30 17:42:05 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.487	168	366544	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.166	114	644182	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.432	117	566430	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.125	152	266982	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.513	113	393140	68.96 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 137.92%		
45) 1,2-Dichloroethane-d4	8.831	65	505409	68.13 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 136.26%#		
46) Toluene-d8	10.365	98	1269796	69.95 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 139.90%#		
66) 4-Bromofluorobenzene	12.243	95	551259	70.72 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 141.44%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.999	85	226778	39.25 ug/L	98
3) Chloromethane	4.369	50	306490	38.09 ug/L	99
4) Vinyl chloride	4.546	62	279642	39.75 ug/L	99
5) 1,3-Butadiene	4.607	54	124617	38.60 ug/L	99
6) Bromomethane	4.960	94	38688	42.04 ug/L	99
7) Chloroethane	5.101	64	83820	40.25 ug/L	97
8) Trichlorofluoromethane	5.542	101	369672	39.74 ug/L	99
9) Acrolein	6.097	56	169548	172.85 ug/L	99
10) Trichlorotrifluoroethane	6.230	151	125187	39.18 ug/L	99
11) 1,1-Dichloroethene	6.256	61	356274	40.03 ug/L	99
12) Methylene chloride	6.803	84	273650	38.19 ug/L	99
13) Acrylonitrile	7.050	53	112243	40.74 ug/L	99
14) trans-1,2-Dichloroethene	7.120	61	357822	40.00 ug/L	100
15) n-Hexane	7.394	57	327878	39.74 ug/L	100
16) 1,1-Dichloroethane	7.552	63	415803	38.57 ug/L	99
17) Cyclohexane	8.672	84	320274	41.18 ug/L	94
18) 2,2-Dichloropropane	8.125	77	345895	39.85 ug/L	99
19) cis-1,2-Dichloroethene	8.108	96	264315	40.63 ug/L	97
20) Chloroform	8.363	83	439104	39.22 ug/L	98
21) Bromochloromethane	8.337	128	102975	39.90 ug/L	92
23) 1,1,1-Trichloroethane	8.593	97	342473	40.24 ug/L	100
24) Acetone	6.274	43	225947	83.87 ug/L	97
25) 2-Butanone	8.081	43	313415	82.06 ug/L	99
26) Carbon Disulfide	6.600	76	815038	40.52 ug/L	98
27) Iodomethane	6.477	142	293873	42.65 ug/L	98
28) Vinyl acetate	7.526	43	1502810	43.74 ug/L	99
29) Methyl tert-butyl ether	7.103	73	589847	41.55 ug/L	98
31) 1,1-Dichloropropene	8.725	75	318749	41.46 ug/L	99
32) Carbon tetrachloride	8.760	117	243189	41.26 ug/L	97
33) 1,2-Dichloroethane	8.901	62	342436	39.58 ug/L	99
34) Benzene	8.919	78	853607	39.64 ug/L	99
35) 2,2,4-Trimethylpentane	8.945	57	902583	41.17 ug/L	99
36) n-Heptane	9.060	57	203885	42.18 ug/L	98
37) Trichloroethene	9.430	95	236186	39.31 ug/L	97

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032909.D
Acq On : 29 Mar 2014 19:50
Operator : JM
Sample : 40 PPB
Misc : ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 30 17:42:05 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

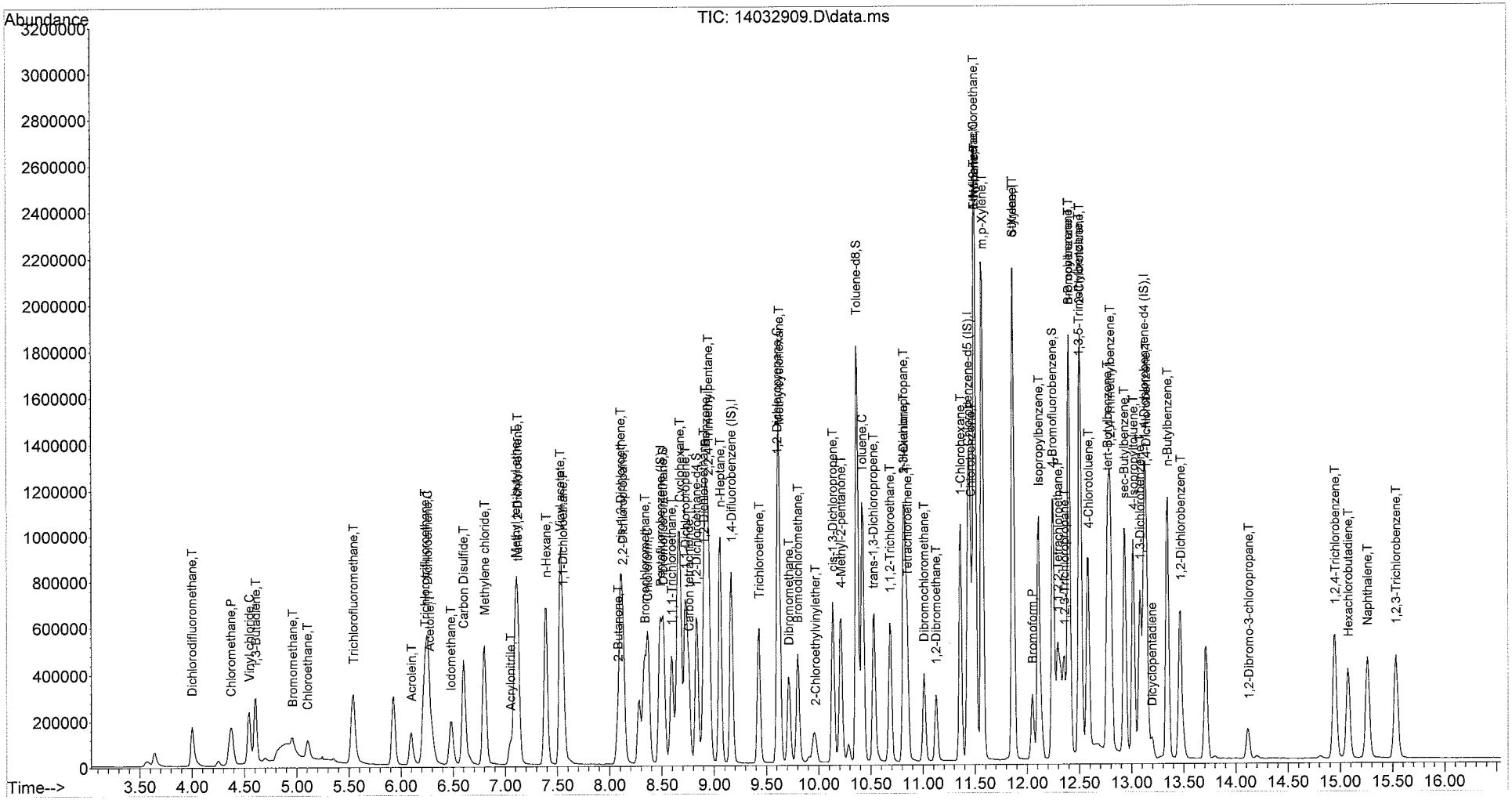
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.607	63	232289	39.31 ug/L	96
39) Bromodichloromethane	9.801	83	325002	40.79 ug/L	99
40) Methylcyclohexane	9.624	56	105304	40.83 ug/L	97
41) Dibromomethane	9.713	93	182497	40.01 ug/L	99
42) cis-1,3-Dichloropropene	10.136	75	393960	41.51 ug/L	98
43) 2-Chloroethylvinylether	9.968	63	30412	37.33 ug/L	98
44) 4-Methyl-2-pentanone	10.215	43	586811	84.92 ug/L	99
48) Toluene	10.418	92	523181	39.64 ug/L	98
49) trans-1,3-Dichloropropene	10.524	75	336676	40.97 ug/L	99
50) 1,1,2-Trichloroethane	10.682	83	187763	38.16 ug/L	99
51) 1,3-Dichloropropane	10.815	76	360170	39.14 ug/L	98
52) Tetrachloroethene	10.850	166	184952	40.15 ug/L	99
53) Dibromochloromethane	11.009	129	190346	40.68 ug/L	98
54) 1,2-Dibromoethane	11.123	107	221480	40.05 ug/L	99
55) 1-Chlorohexane	11.361	91	345085	41.69 ug/L	99
56) Chlorobenzene	11.458	112	451654	38.42 ug/L	99
57) n-Nonane	11.502	57	373496	39.85 ug/L	98
58) 1,1,1,2-Tetrachloroethane	11.494	131	151102	38.14 ug/L	98
59) Ethylbenzene	11.494	91	976903	39.58 ug/L	100
60) m,p-Xylene	11.573	106	629439	80.34 ug/L	97
61) o-Xylene	11.864	106	290466	39.56 ug/L	98
62) Styrene	11.864	104	556305	40.73 ug/L	99
63) Isopropylbenzene	12.111	105	776698	40.20 ug/L	100
64) Bromoform	12.049	173	139077	40.59 ug/L	97
65) 1,1,2,2-Tetrachloroethane	12.296	83	299592	40.94 ug/L	98
67) 2-Hexanone	10.815	43	398541	82.76 ug/L	99
69) 1,2,3-Trichloropropane	12.358	110	69553	38.97 ug/L	98
70) n-Propylbenzene	12.402	91	1069768	38.78 ug/L	100
71) Bromobenzene	12.402	156	189062	36.68 ug/L	97
72) 1,3,5-Trimethylbenzene	12.499	105	689753	38.68 ug/L	99
73) 2-Chlorotoluene	12.508	91	725232	38.31 ug/L	99
74) 4-Chlorotoluene	12.587	91	639029	37.52 ug/L	98
75) tert-Butylbenzene	12.772	119	519331	37.86 ug/L	99
76) 1,2,4-Trimethylbenzene	12.799	105	693929	38.27 ug/L	99
77) sec-Butylbenzene	12.931	105	861003	38.67 ug/L	98
78) 4-Isopropyltoluene	13.019	119	586934	39.23 ug/L	99
79) 1,3-Dichlorobenzene	13.081	146	314474	39.96 ug/L	98
80) 1,4-Dichlorobenzene	13.142	146	330194	39.59 ug/L	98
81) Dicyclopentadiene	13.195	66	96758	38.46 ug/L	96
82) n-Butylbenzene	13.345	92	493167	39.13 ug/L	97
83) 1,2-Dichlorobenzene	13.469	146	292616	39.22 ug/L	97
84) 1,2-Dibromo-3-chloropr...	14.121	157	39861	39.02 ug/L	94
85) 1,2,4-Trichlorobenzene	14.950	180	241025	39.42 ug/L	96
86) Hexachlorobutadiene	15.073	190	54949	38.58 ug/L	97
87) Naphthalene	15.259	128	489862	40.56 ug/L	99
88) 1,2,3-Trichlorobenzene	15.532	180	214546	36.93 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032909.D
Acq On : 29 Mar 2014 19:50
Operator : JM
Sample : 40 PPB
Misc : ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 30 17:42:05 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032910.D
Acq On : 29 Mar 2014 20:16
Operator : JM
Sample : 80 PPB
Misc : ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 30 17:42:13 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.480	168	368023	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.168	114	653436	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.434	117	581534	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.127	152	260508	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.515	113	510938	89.26 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 178.52%#		
45) 1,2-Dichloroethane-d4	8.833	65	641161	85.20 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 170.40%#		
46) Toluene-d8	10.367	98	1636722	88.88 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 177.76%#		
66) 4-Bromofluorobenzene	12.245	95	730888	91.06 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 182.12%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.001	85	451007	77.74 ug/L	97
3) Chloromethane	4.371	50	622990	77.12 ug/L	99
4) Vinyl chloride	4.539	62	544651	77.10 ug/L	100
5) 1,3-Butadiene	4.601	54	241934	74.63 ug/L	98
6) Bromomethane	4.953	94	70742	80.10 ug/L	99
7) Chloroethane	5.103	64	167372	81.58 ug/L	95
8) Trichlorofluoromethane	5.535	101	746482	79.92 ug/L	98
9) Acrolein	6.091	56	216101	219.43 ug/L	98
10) Trichlorotrifluoroethane	6.223	151	250685	78.14 ug/L	98
11) 1,1-Dichloroethene	6.249	61	701165	78.46 ug/L	99
12) Methylene chloride	6.796	84	541660	75.29 ug/L	98
13) Acrylonitrile	7.043	53	226042	81.71 ug/L	99
14) trans-1,2-Dichloroethene	7.122	61	708095	78.84 ug/L	97
15) n-Hexane	7.387	57	646531	78.05 ug/L	100
16) 1,1-Dichloroethane	7.554	63	834987	77.15 ug/L	99
17) Cyclohexane	8.674	84	635667	81.40 ug/L	93
18) 2,2-Dichloropropane	8.128	77	688844	79.04 ug/L	99
19) cis-1,2-Dichloroethene	8.101	96	536973	82.20 ug/L	97
20) Chloroform	8.366	83	885865	78.80 ug/L	98
21) Bromochloromethane	8.330	128	207145	79.93 ug/L	95
23) 1,1,1-Trichloroethane	8.595	97	699428	81.86 ug/L	99
24) Acetone	6.276	43	428016	160.24 ug/L	97
25) 2-Butanone	8.075	43	612918	159.95 ug/L	99
26) Carbon Disulfide	6.602	76	1648944	81.66 ug/L	98
27) Iodomethane	6.479	142	602062	87.03 ug/L	98
28) Vinyl acetate	7.528	43	3030657	87.86 ug/L	99
29) Methyl tert-butyl ether	7.096	73	1189608	83.46 ug/L	98
31) 1,1-Dichloropropene	8.727	75	637217	81.71 ug/L	98
32) Carbon tetrachloride	8.754	117	487309	81.51 ug/L	98
33) 1,2-Dichloroethane	8.895	62	680709	77.55 ug/L	99
34) Benzene	8.921	78	1697374	77.71 ug/L	99
35) 2,2,4-Trimethylpentane	8.948	57	1805720	81.19 ug/L	99
36) n-Heptane	9.053	57	403737	82.35 ug/L	96
37) Trichloroethene	9.424	95	484912	79.57 ug/L	97

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032910.D
Acq On : 29 Mar 2014 20:16
Operator : JM
Sample : 80 PPB
Misc : ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 30 17:42:13 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

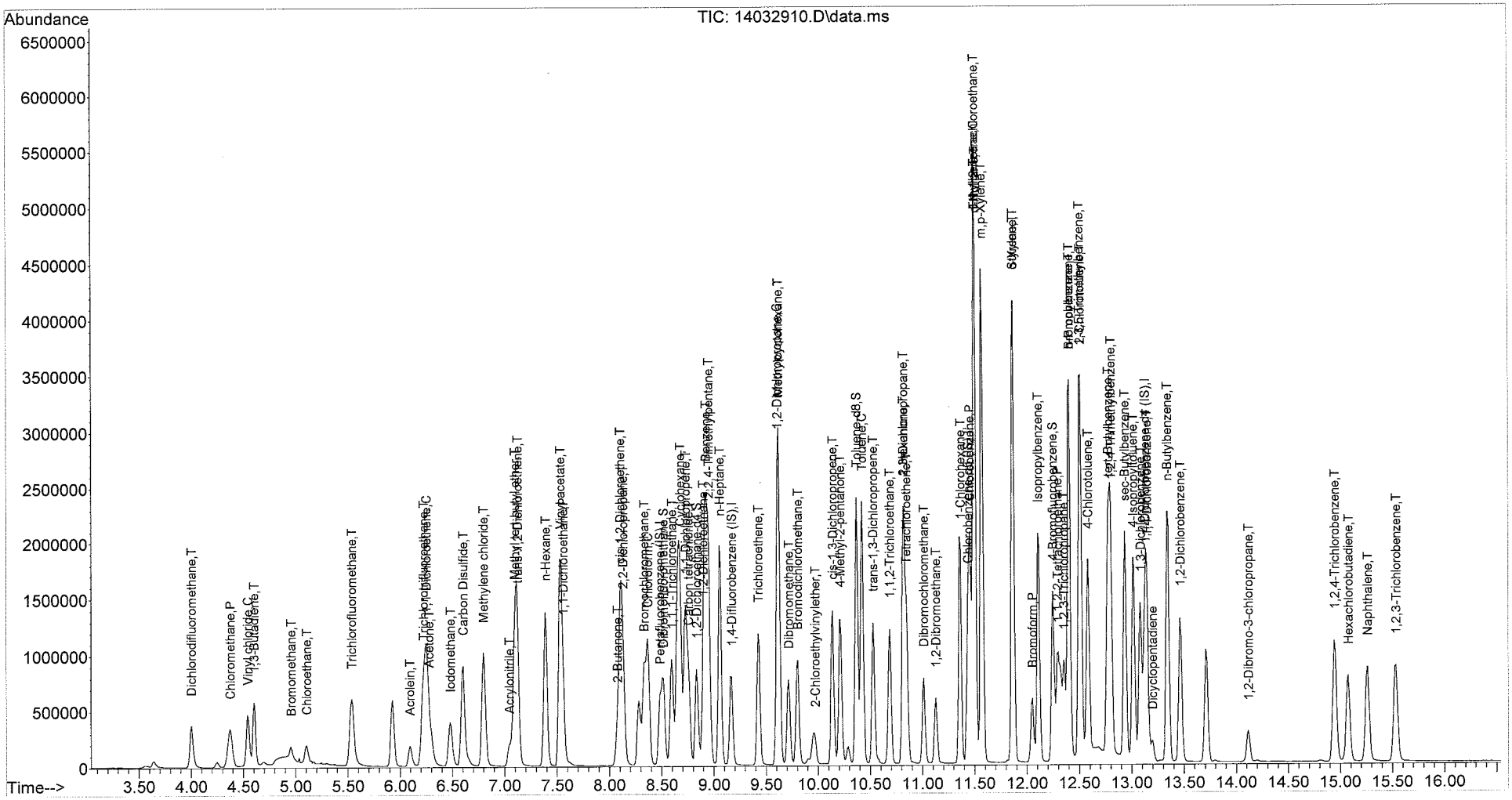
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.609	63	470487	78.50 ug/L	97
39) Bromodichloromethane	9.803	83	663140	82.05 ug/L	98
40) Methylcyclohexane	9.618	56	210746	80.55 ug/L	96
41) Dibromomethane	9.715	93	366600	79.23 ug/L	97
42) cis-1,3-Dichloropropene	10.138	75	791225	82.19 ug/L	99
43) 2-Chloroethylvinylether	9.970	63	66977	77.41 ug/L	94
44) 4-Methyl-2-pentanone	10.208	43	1176581	167.86 ug/L	99
48) Toluene	10.420	92	1062199	78.39 ug/L	100
49) trans-1,3-Dichloropropene	10.526	75	682797	80.94 ug/L	99
50) 1,1,2-Trichloroethane	10.685	83	372538	73.74 ug/L	98
51) 1,3-Dichloropropane	10.817	76	716389	75.82 ug/L	98
52) Tetrachloroethene	10.843	166	369869	78.22 ug/L	96
53) Dibromochloromethane	11.011	129	391429	81.49 ug/L	97
54) 1,2-Dibromoethane	11.125	107	452943	79.78 ug/L	99
55) 1-Chlorohexane	11.364	91	698186	82.16 ug/L	97
56) Chlorobenzene	11.452	112	907909	75.23 ug/L	97
57) n-Nonane	11.505	57	723485	75.19 ug/L	99
58) 1,1,1,2-Tetrachloroethane	11.496	131	305469	75.09 ug/L	99
59) Ethylbenzene	11.496	91	1981942	78.21 ug/L	99
60) m,p-Xylene	11.566	106	1253970	155.90 ug/L	99
61) o-Xylene	11.866	106	585231	77.63 ug/L	96
62) Styrene	11.866	104	1127808	80.43 ug/L	97
63) Isopropylbenzene	12.104	105	1566878	78.99 ug/L	99
64) Bromoform	12.051	173	285726	81.23 ug/L	99
65) 1,1,2,2-Tetrachloroethane	12.289	83	602786	80.58 ug/L	99
67) 2-Hexanone	10.817	43	800812	161.80 ug/L	98
69) 1,2,3-Trichloropropane	12.351	110	139443	79.84 ug/L	92
70) n-Propylbenzene	12.404	91	2105135	78.21 ug/L	99
71) Bromobenzene	12.404	156	374173	74.40 ug/L	97
72) 1,3,5-Trimethylbenzene	12.501	105	1389909	79.88 ug/L	99
73) 2-Chlorotoluene	12.510	91	1414086	76.55 ug/L	98
74) 4-Chlorotoluene	12.580	91	1293500	77.83 ug/L	99
75) tert-Butylbenzene	12.774	119	1022766	76.42 ug/L	97
76) 1,2,4-Trimethylbenzene	12.801	105	1392512	78.70 ug/L	98
77) sec-Butylbenzene	12.933	105	1715807	78.97 ug/L	99
78) 4-Isopropyltoluene	13.012	119	1175836	80.55 ug/L	99
79) 1,3-Dichlorobenzene	13.083	146	604731	78.76 ug/L	99
80) 1,4-Dichlorobenzene	13.145	146	668182	82.35 ug/L	96
81) Dicyclopentadiene	13.198	66	195630	79.70 ug/L	96
82) n-Butylbenzene	13.339	92	986757	80.23 ug/L	99
83) 1,2-Dichlorobenzene	13.462	146	589441	80.93 ug/L	99
84) 1,2-Dibromo-3-chloropr...	14.115	157	84130	84.40 ug/L	95
85) 1,2,4-Trichlorobenzene	14.943	180	483383	81.02 ug/L	97
86) Hexachlorobutadiene	15.076	190	108303	77.92 ug/L	98
87) Naphthalene	15.261	128	952860	80.86 ug/L	99
88) 1,2,3-Trichlorobenzene	15.534	180	427059	75.34 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032910.D
Acq On : 29 Mar 2014 20:16
Operator : JM
Sample : 80 PPB
Misc : ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 30 17:42:13 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032911.D
Acq On : 29 Mar 2014 20:42
Operator : JM
Sample : 100 PPB
Misc : ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 30 17:42:20 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.478	168	382707	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.166	114	679053	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.432	117	600049	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.125	152	267300	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.478	113	1254	0.21 ug/L	-0.04
Spiked Amount 50.000	Range 52 - 140		Recovery = 0.42%#		
45) 1,2-Dichloroethane-d4	8.893	65	40231	5.14 ug/L	0.06
Spiked Amount 50.000	Range 54 - 133		Recovery = 10.28%#		
46) Toluene-d8	10.365	98	3425	0.18 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 0.36%#		
66) 4-Bromofluorobenzene	12.296	95	110945	14.19 ug/L	0.05
Spiked Amount 50.000	Range 62 - 123		Recovery = 28.38%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.999	85	567016	93.99 ug/L	98
3) Chloromethane	4.369	50	720344	85.75 ug/L	99
4) Vinyl chloride	4.546	62	693231	94.37 ug/L	100
5) 1,3-Butadiene	4.599	54	313398	92.97 ug/L	98
6) Bromomethane	4.951	94	89314	98.17 ug/L	96
7) Chloroethane	5.101	64	209139	98.33 ug/L	94
8) Trichlorofluoromethane	5.533	101	941198	96.90 ug/L	99
9) Acrolein	6.089	56	505280	493.37 ug/L	99
10) Trichlorotrifluoroethane	6.221	151	317807	95.26 ug/L	97
11) 1,1-Dichloroethene	6.256	61	881856	94.89 ug/L	98
12) Methylene chloride	6.794	84	680868	91.01 ug/L	99
13) Acrylonitrile	7.041	53	290108	100.84 ug/L	100
14) trans-1,2-Dichloroethene	7.120	61	901753	96.55 ug/L	98
15) n-Hexane	7.385	57	839855	97.50 ug/L	99
16) 1,1-Dichloroethane	7.552	63	1054680	93.71 ug/L	99
17) Cyclohexane	8.672	84	814603	100.32 ug/L	95
18) 2,2-Dichloropropane	8.125	77	872785	96.31 ug/L	98
19) cis-1,2-Dichloroethene	8.099	96	673938	99.21 ug/L	97
20) Chloroform	8.364	83	1123783	96.13 ug/L	97
21) Bromochloromethane	8.328	128	263569	97.80 ug/L	94
23) 1,1,1-Trichloroethane	8.593	97	883277	99.41 ug/L	99
24) Acetone	6.274	43	549344	198.29 ug/L	97
25) 2-Butanone	8.073	43	794978	199.53 ug/L	99
26) Carbon Disulfide	6.600	76	2101716	100.08 ug/L	97
27) Iodomethane	6.477	142	731790	101.72 ug/L	99
28) Vinyl acetate	7.526	43	3942410	109.90 ug/L	99
29) Methyl tert-butyl ether	7.094	73	1529512	103.19 ug/L	99
31) 1,1-Dichloropropene	8.725	75	813946	100.43 ug/L	97
32) Carbon tetrachloride	8.752	117	622913	100.26 ug/L	97
33) 1,2-Dichloroethane	8.893	62	861072	94.40 ug/L	98
34) Benzene	8.919	78	2173851	95.77 ug/L	99
35) 2,2,4-Trimethylpentane	8.945	57	2302236	99.61 ug/L	99
36) n-Heptane	9.051	57	514454	100.97 ug/L	97
37) Trichloroethene	9.422	95	621201	98.09 ug/L	98

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032911.D
Acq On : 29 Mar 2014 20:42
Operator : JM
Sample : 100 PPB
Misc : ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 30 17:42:20 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

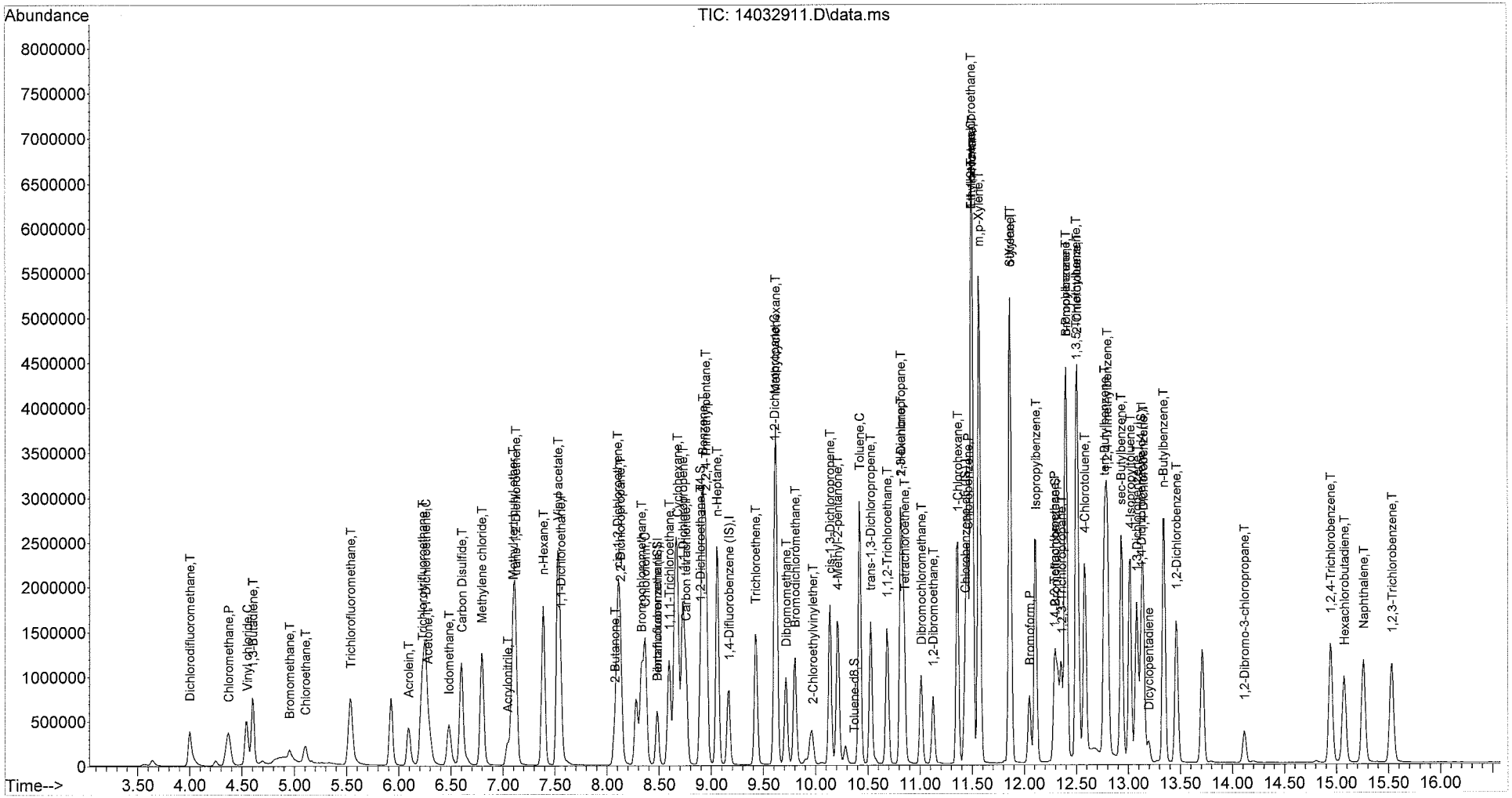
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.607	63	592328	95.10 ug/L	98
39) Bromodichloromethane	9.801	83	840817	100.11 ug/L	99
40) Methylcyclohexane	9.616	56	266214	97.91 ug/L	97
41) Dibromomethane	9.713	93	468995	97.53 ug/L	98
42) cis-1,3-Dichloropropene	10.136	75	1014261	101.38 ug/L	99
43) 2-Chloroethylvinylether	9.968	63	94435	103.93 ug/L	96
44) 4-Methyl-2-pentanone	10.206	43	1479916	203.17 ug/L	99
48) Toluene	10.418	92	1339509	95.80 ug/L	99
49) trans-1,3-Dichloropropene	10.524	75	868696	99.80 ug/L	98
50) 1,1,2-Trichloroethane	10.683	83	471978	90.54 ug/L	97
51) 1,3-Dichloropropane	10.815	76	900003	92.31 ug/L	99
52) Tetrachloroethene	10.850	166	471145	96.56 ug/L	99
53) Dibromochloromethane	11.009	129	500401	100.96 ug/L	99
54) 1,2-Dibromoethane	11.123	107	576518	98.42 ug/L	99
55) 1-Chlorohexane	11.361	91	881361	100.52 ug/L	98
56) Chlorobenzene	11.458	112	1151139	92.44 ug/L	98
57) n-Nonane	11.503	57	929226	93.59 ug/L	99
58) 1,1,1,2-Tetrachloroethane	11.494	131	386319	92.04 ug/L	98
59) Ethylbenzene	11.494	91	2486990	95.11 ug/L	99
60) m,p-Xylene	11.564	106	1569759	189.14 ug/L	100
61) o-Xylene	11.864	106	725944	93.33 ug/L	98
62) Styrene	11.864	104	1409435	97.41 ug/L	97
63) Isopropylbenzene	12.111	105	1981352	96.80 ug/L	99
64) Bromoform	12.049	173	369096	101.70 ug/L	99
65) 1,1,2,2-Tetrachloroethane	12.287	83	765098	99.20 ug/L	99
67) 2-Hexanone	10.815	43	1010351	197.80 ug/L	99
69) 1,2,3-Trichloropropane	12.358	110	180561	100.69 ug/L	96
70) n-Propylbenzene	12.402	91	2680366	97.05 ug/L	99
71) Bromobenzene	12.402	156	477311	92.49 ug/L	98
72) 1,3,5-Trimethylbenzene	12.499	105	1749250	97.98 ug/L	98
73) 2-Chlorotoluene	12.508	91	1784929	94.18 ug/L	100
74) 4-Chlorotoluene	12.578	91	1631513	95.68 ug/L	100
75) tert-Butylbenzene	12.772	119	1304606	95.00 ug/L	98
76) 1,2,4-Trimethylbenzene	12.799	105	1751702	96.49 ug/L	99
77) sec-Butylbenzene	12.931	105	2170847	97.37 ug/L	98
78) 4-Isopropyltoluene	13.019	119	1483890	99.07 ug/L	98
79) 1,3-Dichlorobenzene	13.081	146	795419	100.97 ug/L	98
80) 1,4-Dichlorobenzene	13.143	146	818573	98.37 ug/L	96
81) Dicyclopentadiene	13.195	66	251514	99.86 ug/L	95
82) n-Butylbenzene	13.337	92	1236627	98.00 ug/L	99
83) 1,2-Dichlorobenzene	13.460	146	744604	99.63 ug/L	100
84) 1,2-Dibromo-3-chloropr...	14.112	157	107416	105.02 ug/L	97
85) 1,2,4-Trichlorobenzene	14.941	180	601555	98.26 ug/L	97
86) Hexachlorobutadiene	15.074	190	137441	96.37 ug/L	97
87) Naphthalene	15.259	128	1300469	107.55 ug/L	100
88) 1,2,3-Trichlorobenzene	15.532	180	545311	93.75 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032911.D
Acq On : 29 Mar 2014 20:42
Operator : JM
Sample : 100 PPB
Misc : ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 30 17:42:20 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032914.D
Acq On : 29 Mar 2014 22:00
Operator : JM
Sample : ICV
Misc : SECOND SOURCE
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 30 17:42:45 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.485	168	367722	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.164	114	646924	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.430	117	579190	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.123	152	263539	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.511	113	283997	49.66 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 99.32%		
45) 1,2-Dichloroethane-d4	8.829	65	366330	49.17 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 98.34%		
46) Toluene-d8	10.363	98	917688	50.34 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 100.68%		
66) 4-Bromofluorobenzene	12.241	95	389242	49.12 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 98.24%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.997	85	114411	19.74 ug/L	95
3) Chloromethane	4.367	50	149485	18.52 ug/L	99
4) Vinyl chloride	4.535	62	131207	18.59 ug/L	98
5) 1,3-Butadiene	4.596	54	58357	18.02 ug/L	97
6) Bromomethane	4.949	94	24464	24.91 ug/L	95
7) Chloroethane	5.090	64	38840	17.77 ug/L	91
8) Trichlorofluoromethane	5.531	101	186955	20.03 ug/L	99
9) Acrolein	6.095	56	97107	98.68 ug/L	99
10) Trichlorotrifluoroethane	6.219	151	64338	20.07 ug/L	100
11) 1,1-Dichloroethene	6.245	61	179042	20.05 ug/L	99
12) Methylene chloride	6.801	84	138568	19.28 ug/L	99
13) Acrylonitrile	7.048	53	56299	20.37 ug/L	97
14) trans-1,2-Dichloroethene	7.118	61	179973	20.06 ug/L	99
15) n-Hexane	7.383	57	167234	20.21 ug/L	99
16) 1,1-Dichloroethane	7.550	63	210703	19.48 ug/L	98
17) Cyclohexane	8.670	84	159144	20.40 ug/L	98
18) 2,2-Dichloropropane	8.123	77	170381	19.57 ug/L	99
19) cis-1,2-Dichloroethene	8.106	96	132975	20.37 ug/L	96
20) Chloroform	8.361	83	224058	19.95 ug/L	98
21) Bromochloromethane	8.335	128	51274	19.80 ug/L	90
23) 1,1,1-Trichloroethane	8.591	97	177131	20.75 ug/L	100
24) Acetone	6.272	43	116882	42.16 ug/L	99
25) 2-Butanone	8.079	43	156499	40.79 ug/L	100
26) Carbon Disulfide	6.598	76	404118	20.03 ug/L	99
27) Iodomethane	6.475	142	114540	16.57 ug/L	98
28) Vinyl acetate	7.524	43	734823	21.32 ug/L	100
29) Methyl tert-butyl ether	7.092	73	295532	20.75 ug/L	100
31) 1,1-Dichloropropene	8.723	75	160641	20.81 ug/L	97
32) Carbon tetrachloride	8.749	117	121808	20.58 ug/L	98
33) 1,2-Dichloroethane	8.899	62	171150	19.70 ug/L	99
34) Benzene	8.917	78	431701	19.96 ug/L	99
35) 2,2,4-Trimethylpentane	8.943	57	450385	20.45 ug/L	99
36) n-Heptane	9.058	57	99886	20.58 ug/L #	97
37) Trichloroethene	9.428	95	120281	19.94 ug/L	98

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032914.D
Acq On : 29 Mar 2014 22:00
Operator : JM
Sample : ICV
Misc : SECOND SOURCE
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 30 17:42:45 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

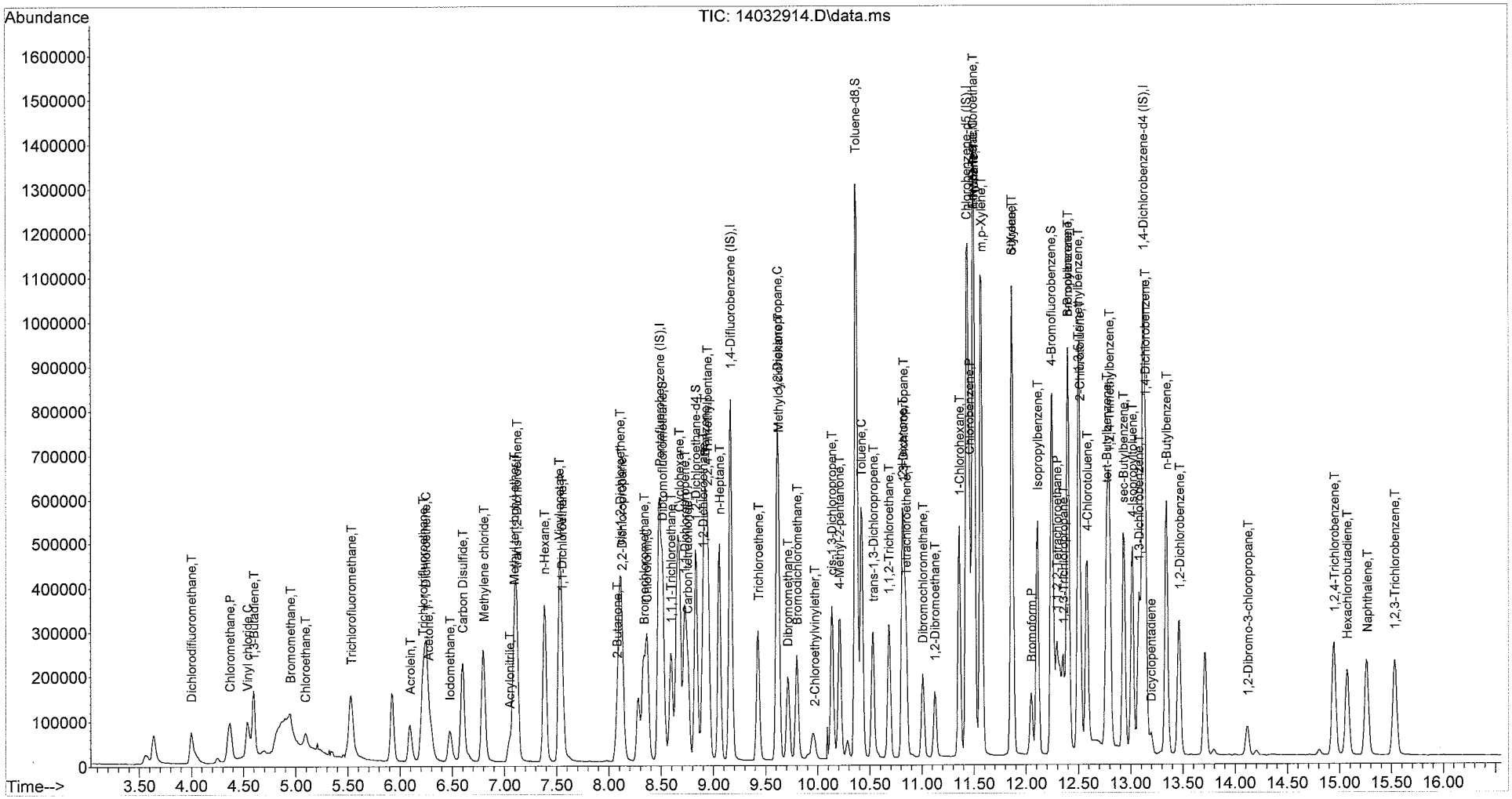
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.614	63	117409	19.79 ug/L	97
39) Bromodichloromethane	9.799	83	162567	20.32 ug/L	100
40) Methylcyclohexane	9.622	56	52703	20.35 ug/L	96
41) Dibromomethane	9.711	93	90972	19.86 ug/L	98
42) cis-1,3-Dichloropropene	10.134	75	197692	20.74 ug/L	97
43) 2-Chloroethylvinylether	9.966	63	12237	16.81 ug/L	90
44) 4-Methyl-2-pentanone	10.204	43	290318	41.84 ug/L	99
48) Toluene	10.416	92	266982	19.78 ug/L	99
49) trans-1,3-Dichloropropene	10.531	75	163499	19.46 ug/L	96
50) 1,1,2-Trichloroethane	10.680	83	95332	18.95 ug/L	98
51) 1,3-Dichloropropane	10.822	76	184968	19.66 ug/L	93
52) Tetrachloroethene	10.848	166	92643	19.67 ug/L	98
53) Dibromochloromethane	11.007	129	94087	19.67 ug/L	97
54) 1,2-Dibromoethane	11.121	107	113083	20.00 ug/L	97
55) 1-Chlorohexane	11.359	91	174162	20.58 ug/L	99
56) Chlorobenzene	11.456	112	231554	19.26 ug/L	99
57) n-Nonane	11.500	57	192483	20.09 ug/L	97
58) 1,1,1,2-Tetrachloroethane	11.492	131	78005	19.25 ug/L	98
59) Ethylbenzene	11.492	91	509252	20.18 ug/L	100
60) m,p-Xylene	11.571	106	320978	40.07 ug/L	97
61) o-Xylene	11.862	106	147647	19.67 ug/L	98
62) Styrene	11.862	104	279525	20.01 ug/L	99
63) Isopropylbenzene	12.109	105	387505	19.61 ug/L	100
64) Bromoform	12.047	173	67043	19.14 ug/L	99
65) 1,1,2,2-Tetrachloroethane	12.294	83	151040	20.00 ug/L	99
67) 2-Hexanone	10.813	43	200407	40.79 ug/L	99
69) 1,2,3-Trichloropropane	12.356	110	35173	20.08 ug/L	98
70) n-Propylbenzene	12.400	91	533335	19.59 ug/L	99
71) Bromobenzene	12.400	156	94589	18.59 ug/L	98
72) 1,3,5-Trimethylbenzene	12.497	105	347339	19.73 ug/L	98
73) 2-Chlorotoluene	12.514	91	363266	19.44 ug/L	96
74) 4-Chlorotoluene	12.585	91	319188	18.99 ug/L	98
75) tert-Butylbenzene	12.770	119	261785	19.34 ug/L	99
76) 1,2,4-Trimethylbenzene	12.797	105	347561	19.42 ug/L	98
77) sec-Butylbenzene	12.929	105	427306	19.44 ug/L	98
78) 4-Isopropyltoluene	13.017	119	283213	19.18 ug/L	100
79) 1,3-Dichlorobenzene	13.079	146	156749	20.17 ug/L	98
80) 1,4-Dichlorobenzene	13.140	146	164164	19.82 ug/L	98
81) Dicyclopentadiene	13.193	66	47721	19.22 ug/L	97
82) n-Butylbenzene	13.343	92	244459	19.65 ug/L	98
83) 1,2-Dichlorobenzene	13.467	146	142872	19.42 ug/L	97
84) 1,2-Dibromo-3-chloropr...	14.119	157	19693	19.53 ug/L	96
85) 1,2,4-Trichlorobenzene	14.948	180	115353	19.11 ug/L	98
86) Hexachlorobutadiene	15.071	190	26607	18.92 ug/L	96
87) Naphthalene	15.265	128	240872	20.20 ug/L	99
88) 1,2,3-Trichlorobenzene	15.530	180	103346	18.02 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032914.D
Acq On : 29 Mar 2014 22:00
Operator : JM
Sample : ICV
Misc : SECOND SOURCE
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 30 17:42:45 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Initial Calibration Verification

ICV *14032914.D*
3/29/2014 22:00 *GCMS 10*

Name	Spike	Conc.	%Rec	LCL	UCL	
Pentafluorobenzene (IS)	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
Dichlorodifluoromethane	20	19.74	99	37	170	
Chloromethane	20	18.52	93	61	149	
Vinyl chloride	20	18.59	93	53	150	
1,3-Butadiene	20	18.02	90	70	130	
Bromomethane	20	24.91	125	41	170	
Chloroethane	20	17.77	89	57	150	
Trichlorofluoromethane	20	20.03	100	64	125	
Acrolein	100	98.68	99	70	130	
Trichlorotrifluoroethane	20	20.07	100	69	131	
1,1-Dichloroethene	20	20.05	100	70	130	
Methylene chloride	20	19.28	96	70	130	
Acrylonitrile	20	20.37	102	70	130	
trans-1,2-Dichloroethene	20	20.06	100	70	130	
n-Hexane	20	20.21	101	70	130	
1,1-Dichloroethane	20	19.48	97	70	130	
Cyclohexane	20	20.40	102	70	130	
2,2-Dichloropropane	20	19.57	98	70	130	
cis-1,2-Dichloroethene	20	20.37	102	70	130	
Chloroform	20	19.95	100	70	130	
Bromochloromethane	20	19.80	99	65	116	
Dibromofluoromethane	50	49.66	99	70	130	
1,1,1-Trichloroethane	20	20.75	104	67	112	
Acetone	40	42.16	105	69	139	
2-Butanone	40	40.79	102	70	130	
Carbon Disulfide	20	20.03	100	59	170	
Iodomethane	20	16.57	83	61	139	
Vinyl acetate	20	21.32	107	61	151	
Methyl tert-butyl ether	20	20.75	104	70	130	
1,4-Difluorobenzene (IS)	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
1,1-Dichloropropene	20	20.81	104	70	130	
Carbon tetrachloride	20	20.58	103	70	130	
1,2-Dichloroethane	20	19.70	98	70	130	
Benzene	20	19.96	100	70	130	
2,2,4-Trimethylpentane	20	20.45	102	70	130	
n-Heptane	20	20.58	103	70	130	
Trichloroethene	20	19.94	100	70	130	
1,2-Dichloropropane	20	19.79	99	70	130	
Bromodichloromethane	20	20.32	102	70	130	
Methylcyclohexane	20	20.35	102	70	130	
Dibromomethane	20	19.86	99	69	111	
cis-1,3-Dichloropropene	20	20.74	104	70	130	
2-Chloroethylvinylether	20	16.81	84	48	165	
4-Methyl-2-pentanone	40	41.84	105	70	130	
1,2-Dichloroethane-d4	50	49.17	98	70	130	

Toluene-d8	50	50.34	101	70	130	
Chlorobenzene-d5 (IS)	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
Toluene	20	19.46	97	70	130	
trans-1,3-Dichloropropene	20	19.46	97	70	130	
1,1,2-Trichloroethane	20	18.95	95	69	114	
1,3-Dichloropropane	20	19.66	98	70	130	
Tetrachloroethene	20	19.67	98	67	116	
Dibromochloromethane	20	19.67	98	70	130	
1,2-Dibromoethane	20	20.00	100	70	130	
1-Chlorohexane	20	20.58	103	70	130	
Chlorobenzene	20	19.26	96	70	130	
n-Nonane	20	20.09	100	70	130	
1,1,1,2-Tetrachloroethane	20	19.25	96	70	130	
Ethylbenzene	20	20.18	101	70	130	
m,p-Xylene	40	40.07	100	70	130	
o-Xylene	20	19.67	98	70	130	
Styrene	20	20.01	100	70	130	
Isopropylbenzene	20	19.61	98	70	130	
Bromoform	20	19.14	96	70	130	
1,1,2,2-Tetrachloroethane	20	20.00	100	70	130	
4-Bromofluorobenzene	50	49.12	98	70	130	
2-Hexanone	40	40.79	102	70	130	
1,4-Dichlorobenzene-d4 (IS)	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
1,2,3-Trichloropropane	20	20.08	100	70	130	
n-Propylbenzene	20	19.59	98	70	130	
Bromobenzene	20	18.59	93	70	130	
1,3,5-Trimethylbenzene	20	19.73	99	70	130	
2-Chlorotoluene	20	19.44	97	70	130	
4-Chlorotoluene	20	18.99	95	70	130	
tert-Butylbenzene	20	19.34	97	70	130	
1,2,4-Trimethylbenzene	20	19.42	97	70	130	
sec-Butylbenzene	20	19.44	97	70	130	
4-Isopropyltoluene	20	19.18	96	70	130	
1,3-Dichlorobenzene	20	20.17	101	70	130	
1,4-Dichlorobenzene	20	19.82	99	70	130	
Dicyclopentadiene	20	19.22	96	70	130	
n-Butylbenzene	20	19.65	98	70	130	
1,2-Dichlorobenzene	20	19.42	97	70	130	
1,2-Dibromo-3-chloropropane	20	19.53	98	66	114	
1,2,4-Trichlorobenzene	20	19.11	96	70	130	
Hexachlorobutadiene	20	18.92	95	70	130	

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032915.D
Acq On : 29 Mar 2014 22:25
Operator : JM
Sample : LCSV
Misc : TERTIARY STD
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 30 17:43:05 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (IS)	8.484	168	371187	50.00 ug/L	0.00
30) 1,4-Difluorobenzene (IS)	9.163	114	658665	50.00 ug/L	0.00
47) Chlorobenzene-d5 (IS)	11.429	117	567071	50.00 ug/L	0.00
68) 1,4-Dichlorobenzene-d4...	13.122	152	262572	50.00 ug/L	0.00
System Monitoring Compounds					
22) Dibromofluoromethane	8.511	113	290197	50.27 ug/L	0.00
Spiked Amount 50.000	Range 52 - 140		Recovery = 100.54%		
45) 1,2-Dichloroethane-d4	8.828	65	370172	48.80 ug/L	0.00
Spiked Amount 50.000	Range 54 - 133		Recovery = 97.60%		
46) Toluene-d8	10.371	98	927046	49.94 ug/L	0.00
Spiked Amount 50.000	Range 63 - 126		Recovery = 99.88%		
66) 4-Bromofluorobenzene	12.249	95	390683	50.33 ug/L	0.00
Spiked Amount 50.000	Range 62 - 123		Recovery = 100.66%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.996	85	259476	44.35 ug/L	97
3) Chloromethane	4.367	50	323038	39.65 ug/L	100
4) Vinyl chloride	4.543	62	279152	39.18 ug/L	100
5) 1,3-Butadiene	4.605	54	2192	0.67 ug/L #	71
6) Bromomethane	4.958	94	41893	45.25 ug/L	99
7) Chloroethane	5.099	64	80188	37.94 ug/L	98
8) Trichlorofluoromethane	5.539	101	371483	39.43 ug/L	99
9) Acrolein	6.121	56	859	0.86 ug/L	90
10) Trichlorotrifluoroethane	6.218	151	127494	39.40 ug/L	94
11) 1,1-Dichloroethene	6.254	61	348573	38.67 ug/L	98
12) Methylene chloride	6.800	84	269264	37.11 ug/L	99
13) Acrylonitrile	7.047	53	107286	38.45 ug/L	97
14) trans-1,2-Dichloroethene	7.118	61	342925	37.86 ug/L	98
15) n-Hexane	0.000		0	N.D.	
16) 1,1-Dichloroethane	7.550	63	404670	37.07 ug/L	99
17) Cyclohexane	8.749	84	56264	7.14 ug/L #	1
18) 2,2-Dichloropropane	8.123	77	333402	37.93 ug/L	99
19) cis-1,2-Dichloroethene	8.105	96	256677	38.96 ug/L	96
20) Chloroform	8.361	83	409790	36.14 ug/L	98
21) Bromochloromethane	8.335	128	99775	38.17 ug/L	90
23) 1,1,1-Trichloroethane	8.590	97	333412	38.69 ug/L	100
24) Acetone	6.280	43	214675	78.55 ug/L	97
25) 2-Butanone	8.079	43	281578	72.79 ug/L	99
26) Carbon Disulfide	6.598	76	814863	40.01 ug/L	98
27) Iodomethane	6.483	142	283361	40.61 ug/L	97
28) Vinyl acetate	7.523	43	1435088	41.25 ug/L	99
29) Methyl tert-butyl ether	7.100	73	571465	39.75 ug/L	98
31) 1,1-Dichloropropene	8.723	75	304235	38.70 ug/L	98
32) Carbon tetrachloride	8.758	117	234263	38.87 ug/L	97
33) 1,2-Dichloroethane	8.899	62	322742	36.48 ug/L	99
34) Benzene	8.917	78	823365	37.40 ug/L	100
35) 2,2,4-Trimethylpentane	9.163	57	82580	3.68 ug/L #	58
36) n-Heptane	9.163	57	82580	16.71 ug/L #	1
37) Trichloroethene	9.428	95	226413	36.86 ug/L	97

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032915.D
Acq On : 29 Mar 2014 22:25
Operator : JM
Sample : LCSV
Misc : TERTIARY STD
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 30 17:43:05 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration

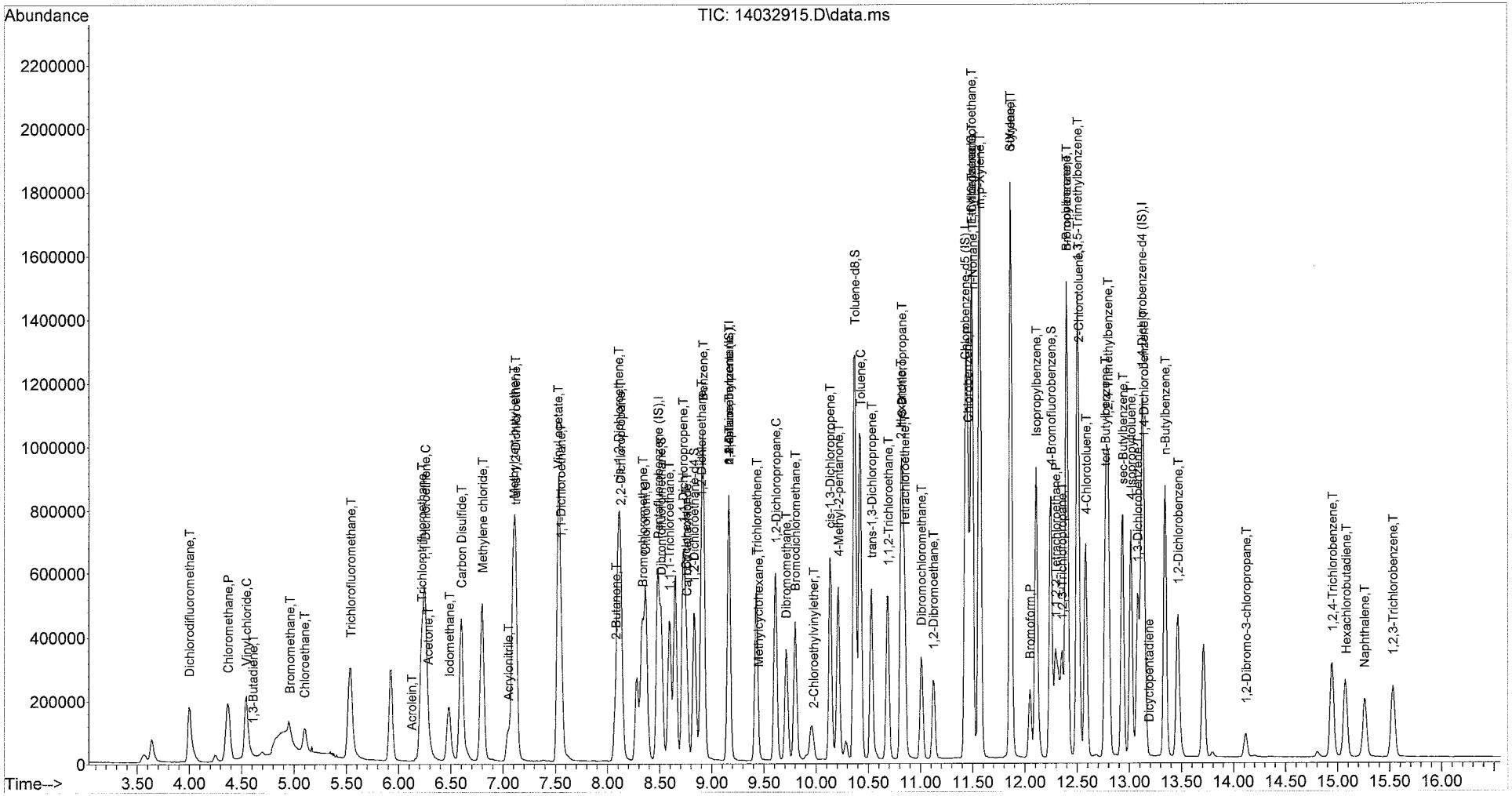
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1,2-Dichloropropane	9.613	63	220357	36.48 ug/L	97
39) Bromodichloromethane	9.798	83	305051	37.45 ug/L	99
40) Methylcyclohexane	9.446	56	1687	0.64 ug/L #	1
41) Dibromomethane	9.710	93	172261	36.93 ug/L	99
42) cis-1,3-Dichloropropene	10.133	75	362441	37.35 ug/L	98
43) 2-Chloroethylvinylether	9.975	63	22532	27.90 ug/L	98
44) 4-Methyl-2-pentanone	10.213	43	491405	69.55 ug/L	99
48) Toluene	10.424	92	496099	37.55 ug/L	98
49) trans-1,3-Dichloropropene	10.530	75	297325	36.14 ug/L	95
50) 1,1,2-Trichloroethane	10.689	83	167575	34.02 ug/L	98
51) 1,3-Dichloropropane	10.821	76	329046	35.71 ug/L	93
52) Tetrachloroethene	10.848	166	172815	37.48 ug/L	99
53) Dibromochloromethane	11.006	129	166220	35.49 ug/L	99
54) 1,2-Dibromoethane	11.121	107	202348	36.55 ug/L	98
55) 1-Chlorohexane	11.491	91	888492	107.23 ug/L #	20
56) Chlorobenzene	11.456	112	403325	34.27 ug/L	99
57) n-Nonane	11.500	57	1841	0.20 ug/L #	1
58) 1,1,1,2-Tetrachloroethane	11.491	131	133499	33.66 ug/L	96
59) Ethylbenzene	11.491	91	888492	35.96 ug/L	100
60) m,p-Xylene	11.571	106	564383	71.96 ug/L	97
61) o-Xylene	11.862	106	257664	35.05 ug/L	98
62) Styrene	11.862	104	473242	34.61 ug/L	99
63) Isopropylbenzene	12.108	105	671674	34.72 ug/L	100
64) Bromoform	12.047	173	106715	31.11 ug/L	99
65) 1,1,2,2-Tetrachloroethane	12.294	83	206741	28.11 ug/L	98
67) 2-Hexanone	10.812	43	301181	62.51 ug/L	99
69) 1,2,3-Trichloropropane	12.355	110	53122	30.32 ug/L	97
70) n-Propylbenzene	12.399	91	889042	32.77 ug/L	99
71) Bromobenzene	12.399	156	153501	30.28 ug/L	95
72) 1,3,5-Trimethylbenzene	12.505	105	572530	32.65 ug/L	100
73) 2-Chlorotoluene	12.514	91	594329	31.92 ug/L	96
74) 4-Chlorotoluene	12.585	91	513905	30.68 ug/L	99
75) tert-Butylbenzene	12.770	119	415060	30.77 ug/L	99
76) 1,2,4-Trimethylbenzene	12.796	105	553048	31.01 ug/L	100
77) sec-Butylbenzene	12.937	105	677340	30.93 ug/L	98
78) 4-Isopropyltoluene	13.017	119	448436	30.48 ug/L	99
79) 1,3-Dichlorobenzene	13.078	146	234126	30.24 ug/L	99
80) 1,4-Dichlorobenzene	13.140	146	239108	29.08 ug/L	98
81) Dicyclopentadiene	13.184	66	552	0.22 ug/L #	1
82) n-Butylbenzene	13.343	92	367333	29.63 ug/L	98
83) 1,2-Dichlorobenzene	13.466	146	209893	28.61 ug/L	97
84) 1,2-Dibromo-3-chloropr...	14.119	157	22762	22.66 ug/L	97
85) 1,2,4-Trichlorobenzene	14.948	180	136188	22.65 ug/L	98
86) Hexachlorobutadiene	15.080	190	35007	24.99 ug/L	93
87) Naphthalene	15.256	128	207101	17.44 ug/L	99
88) 1,2,3-Trichlorobenzene	15.530	180	110176	19.28 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : H:\VOA\A228\140329\
Data File : 14032915.D
Acq On : 29 Mar 2014 22:25
Operator : JM
Sample : LCSV
Misc : TERTIARY STD
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 30 17:43:05 2014
Quant Method : H:\VOA\A228\METHODS\140329.M
Quant Title : 8260B_S
QLast Update : Sun Mar 30 15:54:16 2014
Response via : Initial Calibration



Tertiary Standard- Air

LCSV *14032915.D*
3/29/2014 22:25 *GCMS 10*

Name	Spike	Conc.	%Rec	LCL	UCL	
Pentafluorobenzene (IS)	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
Dichlorodifluoromethane	40	44.35	111	16	147	
Chloromethane	40	39.65	99	42	128	
Vinyl chloride	40	39.18	98	40	150	
1,3-Butadiene	0	0.67				
Bromomethane	40	45.25	113	43	133	
Chloroethane	40	37.94	95	48	150	
Trichlorofluoromethane	40	39.43	99	50	140	
Acrolein	0	0.86				
Trichlorotrifluoroethane	40	39.40	99	44	130	
1,1-Dichloroethene	40	38.67	97	38	117	
Methylene chloride	40	37.11	93	46	132	
Acrylonitrile	40	38.45	96	50	140	
trans-1,2-Dichloroethene	40	37.86	95	50	140	
n-Hexane	0	0.00				
1,1-Dichloroethane	40	37.07	93	50	140	
Cyclohexane	0	7.14				
2,2-Dichloropropane	40	37.93	95	50	140	
cis-1,2-Dichloroethene	40	38.96	97	50	140	
Chloroform	40	36.14	90	50	140	
Bromochloromethane	40	38.17	95	50	140	
Dibromofluoromethane	50	50.27	101	50	140	
1,1,1-Trichloroethane	40	38.69	97	50	140	
Acetone	80	78.55	98	50	140	
2-Butanone	80	72.79	91	50	140	
Carbon Disulfide	40	40.01	100	50	140	
Iodomethane	40	40.61	102	50	140	
Vinyl acetate	40	41.25	103	50	140	
Methyl tert-butyl ether	40	39.75	99	50	140	
1,4-Difluorobenzene (IS)	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
1,1-Dichloropropene	40	38.70	97	50	140	
Carbon tetrachloride	40	38.87	97	50	140	
1,2-Dichloroethane	40	36.48	91	50	140	
Benzene	40	37.40	93	50	140	
2,2,4-Trimethylpentane	0	3.68				
n-Heptane	0	16.71				
Trichloroethene	40	36.86	92	50	140	
1,2-Dichloropropane	40	36.48	91	50	140	
Bromodichloromethane	40	37.45	94	50	140	
Methylcyclohexane	0	0.64				
Dibromomethane	40	36.93	92	50	140	
cis-1,3-Dichloropropene	40	37.35	93	50	140	
2-Chloroethylvinylether	40	27.90	70	50	140	
4-Methyl-2-pentanone	80	69.55	87	50	140	
1,2-Dichloroethane-d4	50	48.80	98	50	140	

Toluene-d8	50	49.94	100	50	140	
Chlorobenzene-d5 (IS)	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
Toluene	40	36.14	90	50	140	
trans-1,3-Dichloropropene	40	36.14	90	50	140	
1,1,2-Trichloroethane	40	34.02	85	50	140	
1,3-Dichloropropane	40	35.71	89	50	140	
Tetrachloroethene	40	37.48	94	50	140	
Dibromochloromethane	40	35.49	89	50	140	
1,2-Dibromoethane	40	36.55	91	50	140	
1-Chlorohexane	0	107.23				
Chlorobenzene	40	34.27	86	50	140	
n-Nonane	0	0.20				
1,1,1,2-Tetrachloroethane	40	33.66	84	50	140	
Ethylbenzene	40	35.96	90	50	140	
m,p-Xylene	80	71.96	90	50	140	
o-Xylene	40	35.05	88	50	140	
Styrene	40	34.61	87	50	140	
Isopropylbenzene	40	34.72	87	50	140	
Bromoform	40	31.11	78	50	140	
1,1,2,2-Tetrachloroethane	40	28.11	70	50	140	
4-Bromofluorobenzene	50	50.33	101	50	140	
2-Hexanone	80	62.51	78	50	140	
1,4-Dichlorobenzene-d4 (IS)	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
1,2,3-Trichloropropane	40	30.32	76	50	140	
n-Propylbenzene	40	32.77	82	50	140	
Bromobenzene	40	30.28	76	50	140	
1,3,5-Trimethylbenzene	40	32.65	82	50	140	
2-Chlorotoluene	40	31.92	80	50	140	
4-Chlorotoluene	40	30.68	77	50	140	
tert-Butylbenzene	40	30.77	77	50	140	
1,2,4-Trimethylbenzene	40	31.01	78	50	140	
sec-Butylbenzene	40	30.93	77	50	140	
4-Isopropyltoluene	40	30.48	76	50	140	
1,3-Dichlorobenzene	40	30.24	76	50	140	
1,4-Dichlorobenzene	40	29.08	73	50	140	
Dicyclopentadiene	0	0.22				
n-Butylbenzene	40	29.63	74	50	140	
1,2-Dichlorobenzene	40	28.61	72	50	140	
1,2-Dibromo-3-chloropropane	40	22.66	57	50	140	
1,2,4-Trichlorobenzene	40	22.65	57	40	140	
Hexachlorobutadiene	40	24.99	62	40	140	

Chromium by EPA200.7

Sample Name: CCB6 Acquired: 04/10/2014 00:05:30 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**30.76**	**.8476**	**.9559**	**2.150**	**1.862**	**-17.73**	**-20.12**	**3.079**	**.9940**
Stddev	15.32	2.793	.5591	2.616	1.304	.85	29.05	2.044	1.295
%RSD	49.79	329.5	58.49	121.7	70.04	4.795	144.4	66.40	130.3

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.575**	**18.51**	**4.182**	**.2610**	**109.0**	**9.378**	**1.354**	**1.446**	**74.82**
Stddev	4.123	27.29	2.027	2.490	79.3	4.336	.666	1.912	63.97
%RSD	115.3	147.5	48.48	953.8	72.75	46.24	49.20	132.2	85.50

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.7023**	**-4.520**	**-19.02**	**45.95**	**14.26**	**5.539**	**.1565**	**-.7505**	**5.386**
Stddev	3.188	61.97	10.38	10.37	51.32	8.638	2.874	.9876	13.22
%RSD	453.9	1371.	54.58	22.57	360.0	156.0	1837.	131.6	245.4

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**2.929**	**.7282**	**-.3933**	**1.824**	**1.018**
Stddev	25.39	2.637	1.955	2.360	1.163
%RSD	866.9	362.1	497.2	129.4	114.3

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**387.19**	**1888.4**	**151.35**
Stddev	.38	8.4	.97
%RSD	.09804	.44632	.63823

Sample Name: 653233-1-BLK Acquired: 04/10/2014 00:12:04 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**18.01**	**-2.073**	**-5.933**	**-1.413**	**.2600**	**-26.92**	**-17.61**	**.4786**	**.0824**
Stddev	8.08	2.321	1.612	1.705	.4872	.80	17.31	.2808	.1993
%RSD	44.86	112.0	27.17	120.6	187.4	2.967	98.27	58.67	241.9

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.104**	**21.82**	**.0015**	**-3.418**	**93.03**	**5.189**	**-.5723**	**1.220**	**65.81**
Stddev	1.125	12.07	6.344	4.202	58.16	10.93	.2824	1.292	46.72
%RSD	53.46	55.30	415600.	123.0	62.52	210.6	49.35	105.8	70.99

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4482**	**-57.98**	**-18.46**	**12.38**	**11.87**	**7.205**	**-1.378**	**-1.242**	**7.592**
Stddev	3.016	8.66	5.42	24.68	18.38	3.849	1.765	1.044	9.902
%RSD	672.8	14.94	29.36	199.3	154.8	53.42	128.1	84.00	130.4

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**7.397**	**-4.294**	**-1.323**	**2.976**	**.0955**
Stddev	16.66	2.397	.823	.037	.1636
%RSD	225.2	55.81	62.17	1.241	171.3

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**395.44**	**1905.3**	**153.73**
Stddev	1.48	7.6	.49
%RSD	.37532	.39682	.32184

Sample Name: 653233-1-BKS Acquired: 04/10/2014 00:18:39 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5205.**	**1088.**	**1086.**	**1044.**	**1083.**	**1110.**	**25310.**	**1066.**	**1037.**
Stddev	9.	5.	4.	8.	2.	3.	176.	1.	4.
%RSD	.1633	.4601	.3383	.7227	.1867	.2276	.6934	.1023	.4021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1040.**	**5222.**	**1076.**	**1040.**	**25610.**	**1032.**	**1074.**	**1039.**	**10600.**
Stddev	3.	33.	4.	9.	165.	5.	4.	2.	120.
%RSD	.2638	.6307	.3470	.8244	.6440	.5047	.3543	.2209	1.131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1081.**	**10620.**	**509.4**	**27170.**	**1051.**	**5596.**	**1034.**	**1089.**	**1027.**
Stddev	7.	165.	7.7	208.	17.	7.	4.	2.	10.
%RSD	.6764	1.554	1.505	.7658	1.655	.1210	.3497	.2084	1.012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**1036.**	F **551.3**	**1094.**	**1103.**	**1043.**
Stddev	7.	.9	8.	3.	3.
%RSD	.6619	.1561	.6935	.2967	.2701
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		1000.			
Range		-20.00%			

Sample Name: 653233-1-BKS Acquired: 04/10/2014 00:18:39 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**402.18**	**1913.9**	**152.06**
Stddev	.43	5.0	.64
%RSD	.10619	.26328	.42310

Sample Name: 653233-1-BSD Acquired: 04/10/2014 00:25:06 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5175.**	**1052.**	**1048.**	**1033.**	**1072.**	**1080.**	**25580.**	**1080.**	**1007.**
Stddev	4.	3.	4.	10.	13.	2.	277.	2.	1.
%RSD	.0678	.2498	.3772	.9303	1.205	.1660	1.084	.2016	.0807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1041.**	**5303.**	**1049.**	**1072.**	**26040.**	**1054.**	**1090.**	**1007.**	**10770.**
Stddev	2.	29.	1.	11.	381.	33.	2.	2.	37.
%RSD	.1571	.5524	.0876	.9868	1.464	3.161	.1693	.2241	.3420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1090.**	**10580.**	**534.7**	**27380.**	**1067.**	**5246.**	**1033.**	**1069.**	**1101.**
Stddev	8.	44.	4.7	175.	18.	25.	3.	2.	23.
%RSD	.7206	.4175	.8751	.6386	1.696	.4831	.3234	.1487	2.097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**1056.**	F **532.9**	**1085.**	**1087.**	**1027.**
Stddev	7.	3.0	1.	1.	1.
%RSD	.6770	.5613	.0987	.0829	.1066
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		1000.			
Range		-20.00%			

Sample Name: 653233-1-BSD Acquired: 04/10/2014 00:25:06 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**413.64**	**1899.2**	**151.32**
Stddev	1.65	3.3	.67
%RSD	.39926	.17419	.44469

Sample Name: 481683-002 Acquired: 04/10/2014 00:31:33 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment: DISS

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-8.858**	**-1.197**	**1.547**	**30.04**	**.1200**	**965.1**	**31060.**	**29.51**
Stddev	9.592	1.010	1.846	.77	.4869	3.2	280.	.34
%RSD	108.3	84.35	119.3	2.571	405.8	.3298	.9010	1.151

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.3161**	**3.339**	**52.60**	**-.9592**	**114.4**	**48980.**	**14.89**	**6.062**
Stddev	.3942	1.232	17.96	4.634	2.2	646.	25.35	.450
%RSD	124.7	36.89	34.16	483.1	1.884	1.319	170.3	7.426

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**51.97**	**2807.**	**1.346**	**24560.**	**-22.07**	**447400.**	**2047.**	**74650.**
Stddev	.25	50.	2.773	162.	7.72	410.	17.	218.
%RSD	.4726	1.791	206.0	.6607	35.00	.0917	.8416	.2923

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.834**	**.9104**	**11.07**	**19.47**	**-9.287**	**-4.994**	**4.852**	**.3373**
Stddev	2.977	.6245	10.07	8.57	2.176	2.077	.313	.3142
%RSD	61.60	68.59	90.98	44.02	23.43	41.59	6.459	93.16

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**411.30**	**1893.6**	**153.11**
Stddev	3.21	12.8	.59
%RSD	.78099	.67707	.38371

Sample Name: 481683-002 S Acquired: 04/10/2014 00:38:17 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment: DISS

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5350.**	**995.6**	**1034.**	**1044.**	**1027.**	**2028.**	**55950.**	**1079.**
Stddev	13.	.4	5.	11.	8.	2.	372.	2.
%RSD	.2357	.0369	.4537	1.080	.7908	.0913	.6642	.1414

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**959.1**	**1038.**	**5243.**	**978.9**	**1194.**	**73940.**	**1057.**	**1059.**
Stddev	1.2	5.	27.	2.1	8.	435.	17.	2.
%RSD	.1294	.5103	.5172	.2122	.6905	.5889	1.634	.1631

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1032.**	**13950.**	**1070.**	**34670.**	**533.7**	**491600.**	**3042.**	**80550.**
Stddev	2.	177.	4.	181.	10.9	2137.	22.	113.
%RSD	.2337	1.266	.3955	.5222	2.044	.4346	.7212	.1404

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**943.6**	**1016.**	**1066.**	**1091.**	**488.4**	**1049.**	**1063.**	**1015.**
Stddev	1.4	1.	11.	31.	.4	5.	2.	1.
%RSD	.1503	.1427	1.049	2.858	.0761	.4317	.2044	.0904

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**400.39**	**1876.4**	**150.06**
Stddev	1.76	3.7	.92
%RSD	.44061	.19743	.61329

Sample Name: 481683-002 SD Acquired: 04/10/2014 00:44:57 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment: DISS

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5626.**	**1044.**	**1088.**	**1098.**	**1087.**	**2109.**	**58820.**	**1138.**
Stddev	16.	3.	1.	12.	10.	4.	327.	2.
%RSD	.2801	.2976	.0879	1.133	.9403	.1976	.5557	.1656

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1012.**	**1091.**	**5547.**	**1023.**	**1248.**	**77710.**	**1096.**	**1120.**
Stddev	4.	1.	60.	5.	13.	774.	11.	2.
%RSD	.4077	.0645	1.086	.4811	1.012	.9960	.9626	.1798

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1131.**	**14580.**	**1113.**	**35950.**	**544.8**	**501300.**	**3179.**	**83010.**
Stddev	6.	133.	3.	312.	11.7	5976.	37.	334.
%RSD	.5578	.9100	.3132	.8678	2.151	1.192	1.179	.4026

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**985.9**	**1073.**	**1140.**	**1130.**	**520.0**	**1086.**	**1117.**	**1063.**
Stddev	4.7	4.	14.	24.	3.6	6.	2.	2.
%RSD	.4736	.3738	1.201	2.096	.6915	.5126	.1576	.2126

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**402.66**	**1881.1**	**149.46**
Stddev	1.30	4.7	.56
%RSD	.32325	.25112	.37533

Sample Name: 481683-002 P Acquired: 04/10/2014 00:51:35 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment: DISS

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5255.**	**986.2**	**1029.**	**1028.**	**1030.**	**1978.**	**55920.**	**1060.**
Stddev	15.	3.1	2.	10.	11.	1.	375.	2.
%RSD	.2943	.3108	.1812	.9928	1.039	.0677	.6712	.2229

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**957.1**	**1022.**	**5248.**	**977.3**	**1167.**	**73920.**	**1030.**	**1045.**
Stddev	2.5	1.	37.	.5	10.	449.	27.	3.
%RSD	.2627	.1463	.7074	.0492	.8694	.6072	2.636	.2767

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**994.9**	**13770.**	**1055.**	**33840.**	**504.6**	**465600.**	**2982.**	**77860.**
Stddev	.5	139.	7.	371.	10.2	4695.	30.	248.
%RSD	.0526	1.012	.6678	1.097	2.023	1.008	1.006	.3185

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**944.0**	**1023.**	**1090.**	**1094.**	**497.1**	**1026.**	**1053.**	**1001.**
Stddev	2.9	1.	19.	45.	3.1	3.	2.	2.
%RSD	.3022	.1336	1.704	4.144	.6307	.3321	.1672	.2009

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**412.23**	**1901.6**	**150.79**
Stddev	2.03	4.1	.48
%RSD	.49201	.21774	.32102

Sample Name: 481683-002 SDL Acquired: 04/10/2014 00:58:15 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment: DISS

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-18.44**	**.5888**	**-1.882**	**6.823**	**.3649**	**177.8**	**7007.**	**6.924**
Stddev	3.08	1.026	3.506	1.645	.3217	37.7	541.	1.460
%RSD	16.73	174.3	186.3	24.11	88.18	21.19	7.715	21.09

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.5325**	**.7444**	**-105.1**	**-3.922**	**26.28**	**11240.**	**-.2635**	**2.359**
Stddev	.5626	2.047	14.5	4.065	5.50	1008.	16.22	.336
%RSD	105.7	275.0	13.83	103.6	20.94	8.969	6156.	14.24

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.23**	**795.3**	**3.265**	**5424.**	**-17.39**	s **102300.**	**463.2**	s **14700.**
Stddev	2.18	117.4	2.470	483.	10.99	8391.	21.8	2975.
%RSD	19.43	14.76	75.64	8.913	63.19	8.204	4.704	20.24

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.786**	**.8293**	**-3.661**	**-4.662**	**-5.244**	**-4.322**	**1.953**	**.7293**
Stddev	1.153	1.159	40.98	26.79	1.230	3.336	.841	.5883
%RSD	19.93	139.8	1119.	574.6	23.46	77.17	43.06	80.67

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**419.59**	**1890.9**	**149.77**
Stddev	.59	12.0	1.34
%RSD	.14118	.63480	.89405

Sample Name: CCV7 Acquired: 04/10/2014 01:18:17 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9528.**	W **944.8**	**1951.**	**1971.**	**1010.**	**1965.**	**9899.**	**2052.**
Stddev	25.	2.9	7.	20.	10.	7.	176.	3.
%RSD	.2625	.3071	.3818	.9932	1.036	.3460	1.782	.1341
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		1000.						
Range		-5.000%						

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	W **949.3**	**1997.**	**10280.**	**999.5**	**2029.**	**10210.**	**1006.**	**1016.**
Stddev	2.3	6.	82.	6.0	15.	202.	12.	2.
%RSD	.2402	.2765	.8008	.6028	.7261	1.978	1.169	.1690
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1000.							
Range	-5.000%							

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**971.3**	**10100.**	**995.2**	**4998.**	**1023.**	W **10890.**	**5018.**	**4875.**
Stddev	4.8	150.	1.3	161.	14.	647.	81.	33.
%RSD	.4949	1.480	.1355	3.230	1.323	5.943	1.623	.6824
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value						10000.		
Range						5.000%		

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**957.6**	**1008.**	**2031.**	**1043.**	**1036.**	**996.6**	**2029.**	**969.6**
Stddev	3.5	2.	24.	9.	4.	2.7	3.	1.5
%RSD	.3651	.2284	1.175	.8942	.4104	.2713	.1669	.1538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV7 Acquired: 04/10/2014 01:18:17 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**419.35**	**1906.5**	**149.95**
Stddev	3.60	11.3	1.47
%RSD	.85939	.59155	.98247

Sample Name: CCB7 Acquired: 04/10/2014 01:24:43 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-9.583**	**-.8546**	**-.6189**	**.9751**	**.8806**	**-17.16**	**-10.97**	**1.813**	**.6177**
Stddev	5.415	.7198	6.186	.1890	.7188	.47	24.18	1.058	.2394
%RSD	56.51	84.23	999.5	19.38	81.63	2.729	220.3	58.34	38.76

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.769**	**22.90**	**1.283**	**-2.174**	**57.90**	**17.50**	**.7121**	**.6540**	**21.21**
Stddev	3.435	24.20	1.988	.974	94.21	10.02	.1968	.7992	159.0
%RSD	124.0	105.7	154.9	44.79	162.7	57.26	27.63	122.2	749.3

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.977**	**.0134**	**-22.03**	**98.98**	**18.36**	**15.84**	**3.107**	**-.1035**	**17.90**
Stddev	2.030	25.69	8.54	26.95	7.96	4.66	2.724	1.397	24.59
%RSD	102.7	192100.	38.77	27.23	43.36	29.44	87.68	1350.	137.4

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**2.075**	**-3.534**	**-.1469**	**2.574**	**.5581**
Stddev	10.15	1.218	2.145	2.076	.5342
%RSD	489.4	34.46	1461.	80.64	95.72

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**412.08**	**1884.4**	**150.99**
Stddev	.65	5.4	.40
%RSD	.15796	.28765	.26663

Sample Name: 481853-002 Acquired: 04/10/2014 01:57:27 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment: DISS

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-21.90**	**-1.377**	**2.645**	**37.98**	**-.1909**	**797.5**	**30700.**	**20.16**
Stddev	6.82	1.603	3.859	1.85	.3352	1.3	187.	.18
%RSD	31.16	116.5	145.9	4.874	175.5	.1568	.6077	.8742

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1759**	**2.554**	**15.71**	**.1146**	**75.75**	**29590.**	**-1.468**	**8.682**
Stddev	.1616	1.650	4.82	4.873	1.28	211.	17.75	.191
%RSD	91.84	64.62	30.67	4253.	1.685	.7143	1209.	2.203

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.7448**	**2187.**	**3.619**	**16200.**	**-19.78**	**417900.**	**1500.**	**51380.**
Stddev	1.452	135.	1.457	105.	5.82	2344.	31.	125.
%RSD	195.0	6.186	40.27	.6500	29.40	.5610	2.091	.2440

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.695**	**.4077**	**12.57**	**19.75**	**-10.41**	**-3.642**	**11.64**	**.0438**
Stddev	.874	1.028	19.34	16.48	1.50	1.730	.04	.1331
%RSD	51.55	252.2	153.8	83.45	14.40	47.51	.3008	303.9

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**431.84**	**1958.6**	**155.03**
Stddev	1.38	4.7	.74
%RSD	.31971	.23920	.47924

Sample Name: 481853-003 Acquired: 04/10/2014 02:04:13 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment: DISS

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-16.45**	**-.3233**	**2.030**	**49.29**	**-.2049**	**691.4**	**63100.**	**10.51**
Stddev	8.55	.8087	.395	.89	.4171	2.2	106.	.23
%RSD	51.98	250.2	19.45	1.811	203.6	.3152	.1673	2.184

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1414**	**-2.207**	**44.34**	**-4.030**	**175.4**	**39360.**	**13.00**	**1.062**
Stddev	.0817	1.367	9.37	1.177	3.4	195.	3.82	.010
%RSD	57.77	61.94	21.13	29.21	1.963	.4943	29.42	.9278

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.778**	**4216.**	**3.226**	**15840.**	**-28.58**	**400400.**	**1133.**	**58640.**
Stddev	.546	65.	3.219	105.	1.71	3645.	17.	256.
%RSD	19.64	1.543	99.77	.6635	5.975	.9105	1.507	.4359

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.8931**	**.6962**	**.2138**	**9.364**	**-11.89**	**-1.974**	**31.93**	**-.0202**
Stddev	1.427	.5076	27.54	14.99	1.97	1.086	.01	.1628
%RSD	159.8	72.91	12880.	160.1	16.59	55.01	.0395	807.4

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**426.59**	**1939.7**	**154.16**
Stddev	1.48	8.4	.22
%RSD	.34583	.43377	.14154

Sample Name: 481853-004 Acquired: 04/10/2014 02:10:58 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment: DISS

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-25.60**	**-2.712**	**1.163**	**46.63**	**-.2803**	**636.2**	**58430.**	**10.20**
Stddev	5.35	.988	2.551	1.89	.4725	3.9	262.	.16
%RSD	20.89	36.42	219.5	4.054	168.6	.6056	.4486	1.568

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0483**	**-1.508**	**88.45**	**-2.166**	**160.0**	**36070.**	**15.52**	**1.162**
Stddev	.2385	1.599	14.65	1.580	3.7	207.	14.66	.183
%RSD	493.3	106.0	16.56	72.93	2.320	.5742	94.46	15.71

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.364**	**4071.**	**-.1780**	**14610.**	**-25.89**	**370300.**	**1044.**	**55150.**
Stddev	1.269	67.	4.157	19.	12.50	1246.	20.	346.
%RSD	53.66	1.640	2336.	.1301	48.28	.3365	1.874	.6266

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.460**	**-.1956**	**8.137**	**9.925**	**-10.58**	**-2.082**	**6.040**	**-.0658**
Stddev	1.894	.5953	6.717	2.324	2.63	.524	.059	.0411
%RSD	129.8	304.3	82.55	23.42	24.89	25.17	.9803	62.49

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**429.27**	**1929.2**	**152.27**
Stddev	2.78	26.5	2.82
%RSD	.64876	1.3731	1.8530

Sample Name: 481853-005 Acquired: 04/10/2014 02:17:42 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment: DISS

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-19.39**	**-1.031**	**.5629**	**37.38**	**-.0241**	**785.1**	**73170.**	**3.119**
Stddev	4.19	1.866	4.690	.16	.2881	4.4	572.	.226
%RSD	21.60	181.1	833.2	.4355	1194.	.5667	.7817	7.255

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.634**	**1.348**	**47.93**	**-3.367**	**205.5**	**39280.**	**52.10**	**1.885**
Stddev	.204	1.710	20.96	3.623	2.0	227.	4.52	.237
%RSD	12.50	126.9	43.72	107.6	.9603	.5778	8.667	12.55

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**144.6**	**4485.**	**3.646**	**15690.**	**-20.25**	**422400.**	**1071.**	**61630.**
Stddev	1.2	122.	2.691	91.	4.39	5664.	10.	234.
%RSD	.8147	2.725	73.81	.5803	21.70	1.341	.9432	.3803

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.3049**	**-.7464**	**-12.03**	**26.72**	**-11.82**	**-5.890**	**4.527**	**-.1944**
Stddev	.5311	1.394	24.36	16.98	1.48	1.877	.109	.0566
%RSD	174.2	186.8	202.5	63.53	12.53	31.87	2.407	29.10

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**425.27**	**1943.7**	**152.08**
Stddev	1.54	12.0	1.37
%RSD	.36288	.61720	.89977

Sample Name: 481853-006 Acquired: 04/10/2014 02:24:27 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment: DISS

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-10.30**	**-2.201**	**3.815**	**56.16**	**.0038**	**573.4**	**75970.**	**4.901**
Stddev	2.01	.724	1.876	1.00	.5337	1.0	519.	.071
%RSD	19.49	32.90	49.16	1.783	14200.	.1718	.6825	1.454

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0483**	**-.8499**	**18.94**	**-.8244**	**223.6**	**39790.**	**6.213**	**.3373**
Stddev	.2938	.5837	14.73	.7838	5.6	349.	13.30	.1853
%RSD	607.9	68.68	77.80	95.07	2.486	.8763	214.1	54.93

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.418**	**5324.**	**-.3907**	**16590.**	**-23.89**	**358600.**	**995.8**	**57190.**
Stddev	.835	128.	2.883	41.	7.47	4764.	28.1	133.
%RSD	34.51	2.406	737.9	.2494	31.25	1.328	2.819	.2323

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.324**	**-.9713**	**-3.491**	**5.651**	**-12.92**	**-3.448**	**5.657**	**-.0333**
Stddev	.719	.7421	4.707	8.880	1.08	2.942	.040	.1665
%RSD	54.27	76.40	134.9	157.1	8.342	85.32	.7054	500.2

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**432.78**	**1984.7**	**158.60**
Stddev	.70	12.7	.52
%RSD	.16234	.63774	.33052

Sample Name: 481853-007 Acquired: 04/10/2014 02:31:13 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment: DISS

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-14.19**	**-1.057**	**2.566**	**43.14**	**.0880**	**740.7**	**83660.**	**11.96**
Stddev	2.39	1.673	.692	1.48	.2977	3.4	770.	.28
%RSD	16.82	158.2	26.96	3.434	338.1	.4586	.9202	2.369

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1510**	**.3213**	**8.239**	**-.5870**	**174.8**	**49870.**	**20.10**	**-.5179**
Stddev	.1598	1.401	10.63	4.345	1.7	444.	20.33	.0331
%RSD	105.8	436.2	129.0	740.2	.9895	.8896	101.1	6.385

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.6682**	**3873.**	**-.8441**	**17490.**	**-20.82**	**408000.**	**1922.**	**65340.**
Stddev	.3122	24.	.9949	181.	8.57	6121.	17.	148.
%RSD	46.72	.6180	117.9	1.035	41.14	1.501	.8738	.2266

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4862**	**-.0616**	**11.06**	**2.362**	**-9.462**	**-5.531**	**7.904**	**.0141**
Stddev	2.208	1.722	10.88	5.715	1.694	1.738	.008	.0776
%RSD	454.0	2797.	98.36	241.9	17.90	31.41	.0989	551.7

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**424.72**	**1961.0**	**155.10**
Stddev	.51	9.7	1.77
%RSD	.12075	.49407	1.1441

Sample Name: CCV8 Acquired: 04/10/2014 02:37:57 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	W **9456.**	W **927.4**	**1910.**	**1960.**	**991.1**	**1932.**	**9813.**	**2051.**
Stddev	33.	3.3	6.	17.	6.5	5.	21.	3.
%RSD	.3478	.3523	.3157	.8870	.6548	.2586	.2168	.1566
Check ?	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10000.	1000.						
Range	-5.000%	-5.000%						

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	W **927.4**	**1983.**	**10300.**	**984.4**	**2061.**	**10040.**	**984.4**	**1016.**
Stddev	3.2	6.	57.	5.3	17.	86.	4.7	1.
%RSD	.3486	.3261	.5496	.5371	.8257	.8571	.4778	.0923
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1000.							
Range	-5.000%							

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**950.5**	**10350.**	**995.8**	**4870.**	**1037.**	W **10840.**	**5055.**	W **4726.**
Stddev	5.8	26.	2.6	64.	2.	169.	51.	18.
%RSD	.6084	.2554	.2592	1.316	.1609	1.561	1.008	.3734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Warn
Value						10000.		5000.
Range						5.000%		-5.000%

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	W **947.5**	**995.1**	**2075.**	**1013.**	**1012.**	**986.9**	**1999.**	**953.7**
Stddev	4.4	2.4	6.	13.	7.	3.8	4.	1.7
%RSD	.4677	.2460	.3044	1.252	.7106	.3817	.1821	.1804
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1000.							
Range	-5.000%							

Sample Name: CCV8 Acquired: 04/10/2014 02:37:57 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**436.48**	**1955.0**	**153.55**
Stddev	4.76	22.4	2.83
%RSD	1.0909	1.1438	1.8407

Sample Name: CCB8 Acquired: 04/10/2014 02:44:24 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-20.08**	**-.1957**	**-3.292**	**.8417**	**.8496**	**-18.51**	**-31.98**	**1.542**	**.2736**
Stddev	4.21	.5911	2.414	2.140	1.287	1.47	21.13	.988	.6571
%RSD	20.96	302.1	73.34	254.3	151.5	7.942	66.08	64.10	240.1

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.659**	**25.07**	**2.020**	**-.7616**	**83.77**	**15.41**	**.5687**	**.2469**	**88.07**
Stddev	1.137	28.05	1.657	1.567	105.4	10.01	.4174	2.083	85.82
%RSD	31.08	111.9	82.00	205.7	125.8	64.94	73.40	843.7	97.44

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.720**	**-3.822**	**-19.27**	**103.6**	**11.04**	**17.56**	**3.732**	**.1834**	**29.35**
Stddev	1.723	30.60	2.54	1.8	11.62	7.52	.948	1.126	24.70
%RSD	100.1	800.6	13.19	1.761	105.3	42.81	25.39	614.1	84.17

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**4.115**	**-5.492**	**1.401**	**.4649**	**.5287**
Stddev	9.808	1.103	.525	.9948	.4132
%RSD	238.3	20.09	37.48	214.0	78.17

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**419.19**	**1891.7**	**149.52**
Stddev	1.44	8.0	1.38
%RSD	.34400	.42445	.92300

Sample Name: 481853-008 Acquired: 04/10/2014 02:51:00 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment: DISS

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-15.01**	**-1.659**	**-1.450**	**44.66**	**-.1134**	**785.8**	**72310.**	**6.675**
Stddev	3.13	2.123	3.594	.72	.4232	5.0	577.	.087
%RSD	20.83	127.9	247.8	1.623	373.2	.6369	.7985	1.307

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0652**	**1.162**	**56.71**	**-4.896**	**164.2**	**34470.**	**41.46**	**.7592**
Stddev	.1711	2.512	11.76	4.774	3.4	261.	14.35	.0572
%RSD	262.6	216.1	20.73	97.50	2.072	.7569	34.60	7.530

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.618**	**5092.**	**1.096**	**14280.**	**-11.69**	**412100.**	**1121.**	**60050.**
Stddev	.435	142.	1.373	103.	13.50	2033.	9.	438.
%RSD	9.411	2.795	125.2	.7191	115.5	.4932	.7786	.7288

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.603**	**.6463**	**18.61**	**7.766**	**-12.60**	**-4.968**	**17.89**	**-.0034**
Stddev	1.209	.6208	22.31	.310	2.27	.516	.08	.0537
%RSD	75.40	96.06	119.9	3.987	17.99	10.39	.4374	1573.

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**417.58**	**1891.5**	**151.52**
Stddev	2.43	45.7	4.13
%RSD	.58217	2.4159	2.7257

Sample Name: 481853-009 Acquired: 04/10/2014 02:57:44 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment: DISS

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1051**	**-.8094**	**1.529**	**78.29**	**-.2579**	**306.8**	**63680.**	**67.15**
Stddev	3.834	2.112	.916	1.87	.3669	.3	598.	.13
%RSD	3646.	261.0	59.95	2.388	142.3	.1045	.9397	.1976

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1232**	**-.1933**	**-183.3**	**-3.697**	**146.9**	**24820.**	**.3508**	**-.5421**
Stddev	.1125	.4243	3.6	1.249	3.5	226.	11.07	.1228
%RSD	91.32	219.5	1.954	33.78	2.407	.9101	3157.	22.65

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.016**	**5396.**	**-1.046**	**13200.**	**-28.35**	s **160500.**	**676.2**	**32080.**
Stddev	1.337	120.	3.343	155.	1.50	3264.	17.3	38.
%RSD	66.31	2.221	319.7	1.176	5.281	2.033	2.566	.1176

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.5980**	**-.5362**	**3.412**	**6.032**	**-12.67**	**-4.562**	**6.934**	**.0581**
Stddev	.7669	1.239	19.31	3.147	2.10	1.320	.022	.0250
%RSD	128.2	231.1	566.0	52.17	16.58	28.92	.3118	43.05

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**432.96**	**1958.9**	**155.20**
Stddev	.38	2.5	.59
%RSD	.08749	.12548	.38290

Sample Name: 481853-010 Acquired: 04/10/2014 03:04:13 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment: DISS

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-24.95**	**-1.776**	**.5881**	**71.99**	**.0463**	**222.8**	**65420.**	**295.9**
Stddev	4.84	2.166	1.491	2.21	.3663	.4	361.	.3
%RSD	19.39	122.0	253.6	3.069	791.3	.1845	.5515	.0964

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2613**	**-.4528**	**-150.2**	**-2.016**	**126.4**	**25720.**	**11.78**	**-.5358**
Stddev	.2226	.2954	41.0	2.868	2.2	23.	10.24	.2979
%RSD	85.21	65.24	27.32	142.2	1.732	.0903	86.92	55.59

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.743**	**5389.**	**-1.869**	**11350.**	**-21.28**	s **136900.**	**696.2**	**28750.**
Stddev	1.502	103.	1.307	78.	2.74	2459.	3.8	113.
%RSD	86.15	1.905	69.93	.6895	12.86	1.797	.5430	.3946

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.764**	**-.1104**	**3.978**	**5.053**	**-12.57**	**-4.376**	**4.722**	**.0264**
Stddev	1.246	.7091	22.50	14.17	1.84	.745	.031	.2247
%RSD	70.65	642.1	565.6	280.4	14.63	17.01	.6523	850.4

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**437.51**	**1991.0**	**157.78**
Stddev	.38	8.5	1.40
%RSD	.08583	.42843	.88740

Sample Name: 481853-011 Acquired: 04/10/2014 03:10:44 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment: DISS

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-29.98**	**.1599**	**-.7814**	**82.22**	**.1832**	**323.3**	**66230.**	**2.321**
Stddev	2.70	1.521	2.347	.70	.1431	1.1	491.	.209
%RSD	9.002	951.6	300.4	.8484	78.08	.3546	.7406	9.016

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1975**	**.3665**	**-198.5**	**-1.799**	**140.4**	**25450.**	**-3.054**	**-.0756**
Stddev	.0510	1.407	31.8	2.065	3.7	167.	12.14	.1463
%RSD	25.80	383.8	16.00	114.7	2.603	.6575	397.4	193.5

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.345**	**5422.**	**-3.566**	**11860.**	**-24.72**	s **179400.**	**716.7**	**34950.**
Stddev	.920	75.	1.098	129.	7.66	10890.	18.8	129.
%RSD	68.42	1.389	30.80	1.085	30.98	6.073	2.628	.3676

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.940**	**.0035**	**-3.376**	**17.41**	**-11.16**	**-3.973**	**6.582**	**-.0399**
Stddev	.517	.1542	4.807	12.79	3.38	.814	.031	.0977
%RSD	26.64	4405.	142.4	73.45	30.28	20.49	.4755	245.1

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**433.47**	**1957.5**	**154.11**
Stddev	1.17	11.5	1.75
%RSD	.26909	.58992	1.1365

Sample Name: 481853-012 Acquired: 04/10/2014 03:17:17 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment: DISS

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-21.89**	**-.4821**	**2.876**	**83.99**	**-.0023**	**338.1**	**65340.**	**5.365**
Stddev	4.16	1.131	5.205	1.15	.5866	1.5	405.	.152
%RSD	19.01	234.6	181.0	1.374	25170.	.4481	.6203	2.826

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0168**	**1.414**	**-212.7**	**-3.676**	**143.1**	**24780.**	**2.678**	**.2166**
Stddev	.5583	1.217	16.8	2.366	1.2	161.	1.782	.2610
%RSD	3322.	86.03	7.875	64.36	.8313	.6503	66.53	120.5

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.145**	**5770.**	**-1.045**	**12020.**	**-17.03**	s **197600.**	**711.3**	**30310.**
Stddev	.721	59.	.614	134.	9.97	12390.	19.6	184.
%RSD	33.62	1.020	58.68	1.116	58.53	6.269	2.761	.6077

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.8349**	**.5287**	**17.12**	**6.164**	**-10.33**	**-4.045**	**6.651**	**.1158**
Stddev	2.459	1.544	21.59	10.75	.89	.588	.162	.1558
%RSD	294.5	292.1	126.1	174.3	8.599	14.54	2.439	134.5

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**433.85**	**1965.3**	**154.59**
Stddev	5.56	17.7	.48
%RSD	1.2804	.90079	.31182

Sample Name: 481853-013 Acquired: 04/10/2014 03:23:49 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653233 METHOD: 6010 ANALYST: MKO
Comment: DISS

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.457**	**-1.103**	**.0936**	**1.572**	**-.1950**	**-20.10**	**1152.**	**-.0515**	**-.3656**
Stddev	5.675	1.535	2.622	.872	.4580	.74	12.	.1266	.3324
%RSD	164.1	139.2	2802.	55.48	234.9	3.673	1.067	245.8	90.93

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.862**	**21.94**	**.4555**	**.2222**	**290.3**	**-4.787**	**-1.085**	**1.279**	**179.1**
Stddev	2.552	13.04	3.280	1.259	206.6	25.02	.328	1.038	40.1
%RSD	89.16	59.44	720.1	566.6	71.17	522.7	30.19	81.16	22.38

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.719**	**2952.**	**-28.46**	**2587.**	**32.91**	**154.1**	**-2.833**	**-.6262**	**31.49**
Stddev	2.564	53.	2.36	88.	13.66	15.9	1.275	.7412	25.01
%RSD	94.32	1.780	8.302	3.412	41.52	10.33	45.01	118.4	79.45

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**-1.263**	**-6.268**	**-1.222**	**4.814**	**-.0879**
Stddev	18.10	1.731	1.666	.022	.0503
%RSD	1433.	27.62	136.3	.4673	57.26

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**430.45**	**1963.5**	**156.96**
Stddev	1.06	12.8	1.51
%RSD	.24597	.65300	.96262

Sample Name: CCV9 Acquired: 04/10/2014 03:56:41 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9516.**	W **933.0**	**1916.**	**1979.**	**987.3**	**1945.**	**9754.**	**2066.**
Stddev	31.	2.5	2.	8.	2.0	4.	12.	3.
%RSD	.3298	.2719	.1089	.4099	.2045	.2070	.1186	.1587
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		1000.						
Range		-5.000%						

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	W **924.6**	**2010.**	**10350.**	**982.4**	W **2105.**	**10050.**	**994.8**	**1025.**
Stddev	1.2	5.	32.	.6	1.	61.	13.1	3.
%RSD	.1324	.2392	.3061	.0612	.0706	.6092	1.313	.2828
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value	1000.				2000.			
Range	-5.000%				5.000%			

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	W **946.5**	**10390.**	**1003.**	**4875.**	W **1050.**	W **10860.**	**5022.**	W **4746.**
Stddev	3.3	52.	1.	53.	19.	91.	28.	11.
%RSD	.3450	.5045	.1489	1.095	1.793	.8332	.5650	.2283
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Warn
Value	1000.				1000.	10000.		5000.
Range	-5.000%				5.000%	5.000%		-5.000%

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**952.9**	**992.4**	**2055.**	**1048.**	**997.2**	**998.9**	**2004.**	**956.5**
Stddev	2.9	1.5	25.	14.	3.1	3.1	2.	1.4
%RSD	.3046	.1546	1.235	1.303	.3152	.3144	.0823	.1451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV9 Acquired: 04/10/2014 03:56:41 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**434.76**	**1961.9**	**155.38**
Stddev	1.31	5.7	.33
%RSD	.30088	.29024	.21086

Sample Name: CCB9 Acquired: 04/10/2014 04:03:07 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-20.57**	**1.310**	**.4342**	**1.753**	**1.182**	**-17.13**	**-16.95**	**2.631**	**.8770**
Stddev	3.36	.374	2.625	.674	.240	1.56	9.13	1.080	.7337
%RSD	16.32	28.56	604.7	38.47	20.29	9.127	53.86	41.05	83.67

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.113**	**29.73**	**1.591**	**.5223**	**84.07**	**-11.41**	**1.488**	**1.748**	**51.87**
Stddev	2.548	20.46	3.682	1.277	89.64	5.77	.295	.880	70.92
%RSD	61.96	68.83	231.4	244.6	106.6	50.57	19.82	50.35	136.7

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.065**	**9.838**	**-19.97**	**122.1**	**2.407**	**12.31**	**2.461**	**.2687**	**31.23**
Stddev	3.183	29.15	1.73	35.1	13.08	1.47	3.406	.4725	9.13
%RSD	154.2	296.3	8.681	28.72	543.6	11.91	138.4	175.8	29.22

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**-4.120**	**-5.516**	**2.200**	**1.632**	**1.050**
Stddev	13.80	1.155	3.089	1.136	.628
%RSD	335.0	20.94	140.4	69.59	59.81

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**430.75**	**1949.2**	**155.48**
Stddev	3.02	13.9	1.33
%RSD	.70142	.71457	.85379

Sample Name: CCV14 Acquired: 04/10/2014 10:10:06 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9546.**	**960.1**	**1947.**	**2007.**	**993.8**	**1983.**	**9584.**	**2045.**
Stddev	18.	2.2	9.	6.	4.5	7.	57.	2.
%RSD	.1916	.2258	.4836	.2759	.4540	.3759	.5899	.0984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	W **947.2**	**1998.**	**10180.**	**993.5**	W **2137.**	**9875.**	**990.5**	**1016.**
Stddev	2.4	1.	66.	2.0	3.	44.	24.3	2.
%RSD	.2580	.0602	.6460	.2056	.1208	.4431	2.457	.1850
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value	1000.				2000.			
Range	-5.000%				5.000%			

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**964.0**	W **10550.**	**1003.**	**4931.**	**1020.**	W **10780.**	**4980.**	**4956.**
Stddev	2.4	73.	2.	60.	12.	70.	22.	16.
%RSD	.2505	.6919	.1636	1.216	1.224	.6499	.4484	.3315
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value		10000.				10000.		
Range		5.000%				5.000%		

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**961.6**	**1006.**	**2015.**	**1033.**	**1018.**	**1013.**	**2018.**	**968.0**
Stddev	6.0	2.	15.	21.	2.	1.	4.	1.6
%RSD	.6210	.1612	.7539	2.005	.2416	.1050	.2099	.1662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV14 Acquired: 04/10/2014 10:10:06 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**421.93**	**1963.8**	**150.35**
Stddev	1.51	16.1	1.57
%RSD	.35893	.82190	1.0444

Sample Name: CCB14 Acquired: 04/10/2014 10:16:34 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-6.379**	**-1.739**	**-3.564**	**-1.139**	**.1581**	**-22.83**	**-26.93**	**.2280**	**-.1183**
Stddev	1.592	.883	3.744	.666	.4289	.80	26.36	.1088	.0908
%RSD	24.96	50.76	105.1	58.48	271.2	3.505	97.88	47.71	76.70

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.297**	**13.25**	**1.760**	**-3.407**	**178.1**	**24.93**	**-.5298**	**.2532**	**49.44**
Stddev	1.401	12.83	1.588	1.773	77.5	6.94	.0608	.5173	115.7
%RSD	108.0	96.85	90.18	52.05	43.50	27.82	11.48	204.3	234.0

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.517**	**-27.88**	**-25.44**	**46.97**	**24.42**	**26.80**	**-1.777**	**.3760**	**14.56**
Stddev	5.748	35.94	4.31	16.97	2.54	3.37	1.717	.3508	12.96
%RSD	378.8	128.9	16.94	36.14	10.38	12.58	96.62	93.30	89.01

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**-13.01**	**-3.522**	**-.1745**	**-.4214**	**-.0183**
Stddev	24.08	2.046	4.711	.0323	.1156
%RSD	185.1	58.11	2699.	7.657	632.2

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**422.25**	**1967.5**	**150.59**
Stddev	.60	3.0	.18
%RSD	.14126	.15119	.11942

Sample Name: 653162-1-BLK Acquired: 04/10/2014 10:23:11 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-11.11**	**-1.283**	**-1.726**	**-1.439**	**-.0944**	**-23.02**	**-19.23**	**.0696**	**-.0244**
Stddev	5.56	1.163	3.704	1.393	.2195	.35	35.15	.0379	.2253
%RSD	50.08	90.65	214.6	96.83	232.5	1.500	182.8	54.46	924.5

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.397**	**2.369**	**1.119**	**-1.998**	**-9.841**	**3.689**	**-.1665**	**1.690**	**54.60**
Stddev	3.977	23.06	3.569	.637	18.63	11.29	.1241	.623	31.85
%RSD	284.7	973.3	319.0	31.88	189.3	305.9	74.53	36.90	58.33

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.112**	**-30.97**	**-27.48**	**45.84**	**14.91**	**8.767**	**-2.535**	**-1.158**	**-3.956**
Stddev	2.898	69.96	3.32	46.79	19.23	2.224	2.295	.606	25.32
%RSD	137.2	225.9	12.08	102.1	129.0	25.37	90.52	52.31	640.1

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**7.689**	**-6.987**	**-3.412**	**.8681**	**-.1677**
Stddev	13.58	2.287	.719	.0348	.0345
%RSD	176.7	32.74	21.08	4.004	20.57

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**426.69**	**1984.4**	**151.47**
Stddev	.96	10.2	.99
%RSD	.22417	.51177	.65057

Sample Name: 653162-1-BKS Acquired: 04/10/2014 10:29:48 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4990.**	**1019.**	**1023.**	**1017.**	**1040.**	**1055.**	**24890.**	**1060.**	**975.5**
Stddev	17.	1.	7.	3.	3.	5.	96.	1.	2.0
%RSD	.3495	.0528	.7137	.3211	.2880	.4574	.3867	.0949	.2010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1017.**	**5210.**	**1027.**	**1084.**	**25560.**	**1028.**	**1065.**	**982.9**	**10900.**
Stddev	2.	26.	3.	2.	178.	5.	2.	1.4	112.
%RSD	.2421	.5038	.3192	.1562	.6942	.4751	.2251	.1403	1.025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1053.**	**10110.**	**526.7**	**27420.**	**1033.**	**5234.**	**994.6**	**1045.**	**1067.**
Stddev	2.	115.	13.9	65.	28.	11.	7.2	.	22.
%RSD	.2155	1.136	2.644	.2373	2.666	.2099	.7286	.0451	2.070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**1022.**	F **518.2**	**1049.**	**1054.**	**994.0**
Stddev	29.	2.0	1.	2.	1.3
%RSD	2.808	.3922	.1219	.2335	.1268
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		1000.			
Range		-20.00%			

Sample Name: 653162-1-BKS Acquired: 04/10/2014 10:29:48 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**428.42**	**1987.2**	**151.09**
Stddev	1.32	.7	.64
%RSD	.30707	.03670	.42240

Sample Name: 653162-1-BSD Acquired: 04/10/2014 10:36:15 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5030.**	**1012.**	**1028.**	**1026.**	**1050.**	**1062.**	**24830.**	**1062.**	**987.0**
Stddev	5.	2.	7.	4.	8.	3.	81.	1.	.6
%RSD	.1084	.1585	.6554	.4351	.7177	.2688	.3271	.1406	.0592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1024.**	**5242.**	**1036.**	**1086.**	**25310.**	**1030.**	**1057.**	**995.9**	**10800.**
Stddev	4.	18.	4.	5.	194.	12.	2.	2.0	128.
%RSD	.4318	.3411	.4342	.4239	.7650	1.144	.1499	.2052	1.183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1056.**	**10160.**	**509.4**	**27330.**	**1042.**	**5186.**	**999.9**	**1040.**	**1062.**
Stddev	7.	153.	13.5	127.	21.	6.	.9	2.	26.
%RSD	.6206	1.510	2.651	.4638	1.995	.1066	.0864	.1800	2.416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**1056.**	F **524.9**	**1055.**	**1064.**	**1002.**
Stddev	17.	.6	5.	2.	.
%RSD	1.578	.1053	.4279	.1670	.0407
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		1000.			
Range		-20.00%			

Sample Name: 653162-1-BSD Acquired: 04/10/2014 10:36:15 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**422.85**	**1958.3**	**148.91**
Stddev	.52	6.8	.83
%RSD	.12357	.34819	.56068

Sample Name: 481938-001 Acquired: 04/10/2014 10:42:43 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-7.444**	**-1.817**	**-3.996**	**39.29**	**.2206**	**260.9**	**9508.**	**-.2542**
Stddev	5.506	1.040	4.790	1.02	.3482	1.2	116.	.2539
%RSD	73.97	57.27	119.9	2.582	157.9	.4656	1.215	99.90

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0889**	**1.617**	**-176.5**	**.0677**	**27.92**	**4757.**	**2.850**	**.3932**
Stddev	.3100	2.822	27.4	3.010	1.10	171.	7.028	.3992
%RSD	348.7	174.5	15.51	4449.	3.921	3.601	246.5	101.5

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2176**	**1752.**	**1.930**	**6472.**	**-22.66**	s **160400.**	**488.0**	**24170.**
Stddev	1.199	87.	2.059	64.	8.61	6575.	10.8	105.
%RSD	550.8	4.938	106.7	.9922	38.00	4.098	2.219	.4339

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.441**	**.5444**	**42.62**	**-5.985**	**-8.785**	**-4.104**	**132.5**	**.0905**
Stddev	3.000	.5755	31.82	10.59	.857	.886	.3	.0383
%RSD	122.9	105.7	74.65	176.9	9.752	21.60	.2272	42.29

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**425.67**	**1959.3**	**149.01**
Stddev	.71	7.8	1.41
%RSD	.16607	.39705	.94838

Sample Name: 481938-001 S Acquired: 04/10/2014 10:49:19 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5227.**	**1012.**	**1036.**	**1072.**	**1055.**	**1357.**	**34890.**	**1057.**
Stddev	10.	3.	5.	3.	3.	3.	41.	2.
%RSD	.1960	.2552	.4637	.3108	.3246	.2282	.1169	.1777

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**989.5**	**1041.**	**5047.**	**1020.**	**1129.**	**30450.**	**1057.**	**1055.**
Stddev	2.3	2.	21.	6.	.	38.	25.	2.
%RSD	.2280	.1717	.4084	.5532	.0214	.1247	2.354	.2034

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**989.8**	**12900.**	**1065.**	**16980.**	**516.5**	s **199400.**	**1543.**	**29960.**
Stddev	3.2	103.	5.	75.	12.3	3311.	5.	132.
%RSD	.3276	.7949	.4375	.4443	2.387	1.660	.3298	.4391

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**983.3**	**1043.**	**1073.**	**1054.**	**515.9**	**1050.**	**1199.**	**1013.**
Stddev	5.6	1.	35.	17.	1.3	3.	1.	3.
%RSD	.5656	.0647	3.221	1.624	.2499	.2471	.1115	.2576

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**424.46**	**1978.8**	**147.85**
Stddev	1.49	6.4	.62
%RSD	.35205	.32307	.41638

Sample Name: 481938-001 SD Acquired: 04/10/2014 10:55:47 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5162.**	**1001.**	**1034.**	**1058.**	**1041.**	**1349.**	**34620.**	**1043.**
Stddev	11.	4.	3.	9.	2.	5.	44.	1.
%RSD	.2163	.4320	.3081	.8239	.2356	.4042	.1259	.1368

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**983.9**	**1027.**	**5020.**	**1012.**	**1109.**	**30060.**	**1028.**	**1041.**
Stddev	1.9	3.	43.	1.	8.	118.	4.	1.
%RSD	.1882	.2811	.8497	.0918	.6854	.3940	.4109	.1319

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**982.6**	**12730.**	**1050.**	**16830.**	**502.0**	**200000.**	**1520.**	**29990.**
Stddev	1.3	41.	6.	64.	2.3	487.	25.	124.
%RSD	.1349	.3209	.5620	.3808	.4613	.2436	1.636	.4133

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**976.9**	**1031.**	**1045.**	**1055.**	**514.8**	**1038.**	**1186.**	**1004.**
Stddev	4.6	4.	44.	23.	2.9	2.	2.	2.
%RSD	.4720	.4096	4.216	2.181	.5720	.2317	.2024	.2073

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**418.01**	**1951.3**	**146.48**
Stddev	.69	8.6	.92
%RSD	.16481	.44192	.62469

Sample Name: 481938-001 P Acquired: 04/10/2014 11:02:15 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5231.**	**980.6**	**1017.**	**1039.**	**1027.**	**1323.**	**33880.**	**1030.**
Stddev	296.	5.7	7.	6.	3.	4.	164.	2.
%RSD	5.649	.5804	.6646	.5661	.2983	.2681	.4848	.1523

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**965.4**	**1010.**	**4920.**	**999.1**	**1095.**	**29520.**	**1023.**	**1028.**
Stddev	1.1	5.	16.	6.4	5.	179.	15.	2.
%RSD	.1089	.5020	.3344	.6444	.4320	.6066	1.481	.2360

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**964.9**	**12500.**	**1044.**	**16530.**	**497.9**	s **189000.**	**1478.**	**28950.**
Stddev	3.0	50.	8.	149.	19.9	5286.	18.	124.
%RSD	.3083	.3961	.7329	.8993	3.998	2.796	1.244	.4268

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**969.2**	**1019.**	**1067.**	**1037.**	**504.7**	**1029.**	**1168.**	**987.7**
Stddev	2.9	2.	38.	12.	2.0	6.	2.	2.3
%RSD	.2995	.2133	3.524	1.143	.3934	.6146	.1390	.2318

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**422.46**	**1919.5**	**147.89**
Stddev	1.88	78.9	.14
%RSD	.44478	4.1120	.09800

Sample Name: 481938-001 SDL Acquired: 04/10/2014 11:08:49 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.7034**	**.9664**	**-2.809**	**7.035**	**-.0650**	**37.97**	**2072.**	**.3309**	**.8707**
Stddev	2.664	.4250	2.718	1.260	.4230	1.68	17.	1.170	.9115
%RSD	378.7	43.98	96.76	17.91	651.2	4.429	.8192	353.7	104.7

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.998**	**-42.99**	**3.335**	**2.777**	**1075.**	**16.65**	**.8227**	**1.288**	**407.3**
Stddev	1.325	11.74	5.118	2.222	7.	14.22	1.775	2.646	64.8
%RSD	66.33	27.30	153.5	80.01	.6530	85.41	215.7	205.4	15.92

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.292**	**1387.**	**-18.17**	**37480.**	**94.70**	**5161.**	**-.4324**	**-.0437**	**-4.529**
Stddev	1.892	85.	1.62	281.	12.97	26.	2.644	2.246	16.20
%RSD	57.48	6.117	8.907	.7489	13.70	.4942	611.4	5134.	357.8

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**-24.03**	**-2.514**	**-1.981**	**28.86**	**.6936**
Stddev	20.74	1.080	1.183	1.31	1.250
%RSD	86.30	42.95	59.74	4.554	180.2

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**414.53**	**1949.7**	**149.45**
Stddev	.89	11.3	.49
%RSD	.21522	.58127	.32941

Sample Name: CCV15 Acquired: 04/10/2014 11:28:48 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9593.**	**962.0**	**1970.**	**1990.**	**1003.**	**1986.**	**9737.**	**2048.**
Stddev	9.	2.0	9.	10.	6.	8.	33.	4.
%RSD	.0922	.2083	.4724	.4823	.5810	.4123	.3367	.1950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**955.2**	**1992.**	**10210.**	**1007.**	W **2103.**	**10100.**	**1011.**	**1014.**
Stddev	1.9	9.	37.	7.	1.	154.	9.	2.
%RSD	.1963	.4566	.3643	.6813	.0541	1.519	.8571	.2097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value					2000.			
Range					5.000%			

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**975.0**	**10360.**	**999.2**	**4938.**	**1019.**	W **10680.**	**5012.**	**4975.**
Stddev	5.8	29.	1.9	41.	13.	47.	30.	5.
%RSD	.5989	.2787	.1885	.8209	1.269	.4376	.5993	.1070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value						10000.		
Range						5.000%		

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**963.8**	**1013.**	**2013.**	**1003.**	**1041.**	**1006.**	**2028.**	**972.1**
Stddev	2.3	4.	16.	14.	.	7.	3.	1.4
%RSD	.2417	.4186	.7917	1.381	.0383	.7356	.1459	.1445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV15 Acquired: 04/10/2014 11:28:48 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**423.82**	**1944.3**	**147.94**
Stddev	1.16	3.7	.41
%RSD	.27461	.19111	.27679

Sample Name: CCB15 Acquired: 04/10/2014 11:35:16 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-8.854**	**-.9847**	**-2.143**	**-1.129**	**-.3788**	**-21.00**	**-30.76**	**.1599**	**-.2389**
Stddev	7.138	.9314	6.074	.273	.4120	.79	20.14	.3438	.1808
%RSD	80.62	94.58	283.5	24.18	108.8	3.769	65.46	215.0	75.69

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.121**	**15.99**	**-.0625**	**-3.110**	**52.13**	**-19.27**	**-.1517**	**.0342**	**-11.39**
Stddev	.539	9.40	1.309	.972	33.71	2.84	.1560	.1246	86.92
%RSD	25.42	58.79	2096.	31.24	64.68	14.75	102.8	363.8	763.1

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.028**	**-24.73**	**-15.37**	**49.08**	**-1.372**	**6.397**	**-1.938**	**-.4888**	**21.48**
Stddev	3.481	28.79	13.61	23.26	10.63	4.034	1.057	.4169	4.12
%RSD	115.0	116.4	88.54	47.39	775.2	63.06	54.52	85.28	19.16

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**-2.810**	**-3.279**	**-.9644**	**-.4817**	**.0007**
Stddev	19.80	2.674	2.718	.1056	.0932
%RSD	704.4	81.53	281.8	21.92	12490.

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**417.57**	**1928.4**	**147.40**
Stddev	1.85	12.1	.88
%RSD	.44391	.62834	.59624

Sample Name: 481853-002 Acquired: 04/10/2014 11:55:06 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3328.**	**-2.377**	**6.187**	**58.20**	**-.2378**	**748.2**	**30220.**	**34.64**
Stddev	21.	1.022	2.197	.69	.4581	1.5	14.	.30
%RSD	.6239	42.98	35.51	1.177	192.6	.1977	.0458	.8639

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.768**	**8.137**	**3911.**	**-.6727**	**81.90**	**29670.**	**78.96**	**6.378**
Stddev	.313	1.938	26.	1.047	2.21	103.	16.80	.225
%RSD	17.72	23.82	.6621	155.7	2.693	.3467	21.28	3.524

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.456**	**2872.**	**2.219**	**24930.**	**-24.15**	**407800.**	**1446.**	**49930.**
Stddev	.222	66.	2.087	201.	4.54	2050.	19.	94.
%RSD	2.981	2.306	94.06	.8073	18.82	.5027	1.322	.1888

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4179**	**.4454**	**117.2**	**14.22**	**-6.751**	**-3.958**	**47.67**	**.5855**
Stddev	2.269	.6539	37.1	8.27	1.969	1.700	.07	.1000
%RSD	543.0	146.8	31.65	58.17	29.16	42.94	.1417	17.08

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**418.08**	**1949.8**	**147.71**
Stddev	1.60	15.3	1.06
%RSD	.38313	.78310	.71852

Sample Name: 481853-003 Acquired: 04/10/2014 12:01:51 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**20070.**	**-1.959**	**10.50**	**214.6**	**.9024**	**647.9**	**72910.**	**35.48**
Stddev	60.	.452	.97	1.4	.7044	1.6	354.	.03
%RSD	.2998	23.05	9.249	.6724	78.06	.2480	.4860	.0785

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**16.24**	**27.38**	**19170.**	**10.65**	**188.2**	**44610.**	**531.7**	**2.067**
Stddev	.32	1.84	113.	1.24	.1	504.	6.6	.452
%RSD	1.952	6.704	.5913	11.69	.0536	1.130	1.233	21.86

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**34.72**	**6014.**	**2.151**	**57570.**	**-17.94**	**376200.**	**1142.**	**56100.**
Stddev	1.29	25.	4.257	508.	5.05	2289.	34.	196.
%RSD	3.714	.4166	197.9	.8834	28.19	.6085	2.985	.3490

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.6724**	**1.742**	**720.2**	**42.92**	**1.353**	**-13.17**	**56.46**	**.0742**
Stddev	2.102	.712	30.0	31.74	1.120	2.75	.13	.0829
%RSD	312.6	40.87	4.171	73.94	82.77	20.85	.2281	111.6

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**420.70**	**1955.0**	**148.96**
Stddev	3.31	17.9	.93
%RSD	.78730	.91760	.62287

Sample Name: 481853-004 Acquired: 04/10/2014 12:08:36 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**21880.**	**-1.285**	**9.608**	**224.6**	**1.449**	**680.9**	**74120.**	**40.31**
Stddev	33.	1.522	3.152	.9	.229	2.2	292.	.20
%RSD	.1519	118.5	32.80	.3814	15.80	.3217	.3936	.4858

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**16.85**	**26.48**	**21700.**	**7.384**	**197.9**	**46680.**	**557.2**	**3.802**
Stddev	.05	.71	65.	.871	.2	81.	22.7	.070
%RSD	.3035	2.697	.2977	11.79	.1243	.1740	4.081	1.851

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**43.71**	**6416.**	**1.617**	**58300.**	**-19.14**	**396500.**	**1199.**	**59180.**
Stddev	.67	173.	2.268	165.	6.01	4851.	17.	237.
%RSD	1.536	2.695	140.2	.2837	31.42	1.223	1.393	.4007

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4631**	**7.052**	**811.7**	**54.77**	**2.337**	**-13.36**	**47.63**	**.2317**
Stddev	.5626	.389	22.4	10.33	2.920	1.05	.16	.1315
%RSD	121.5	5.512	2.756	18.87	124.9	7.862	.3319	56.74

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**421.62**	**1953.8**	**148.54**
Stddev	.67	10.0	1.15
%RSD	.15960	.51036	.77142

Sample Name: 481853-005 Acquired: 04/10/2014 12:15:21 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7541.**	**-43.06**	**73.62**	**354.4**	**.4185**	**790.2**	**77870.**	**10180.**
Stddev	10.	1.39	1.39	3.3	.3705	1.4	585.	13.
%RSD	.1270	3.232	1.886	.9305	88.53	.1820	.7514	.1247

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**48.40**	**112.8**	**52530.**	**-.2873**	**213.4**	**40980.**	**1903.**	**46.26**
Stddev	.29	3.0	439.	3.097	3.8	378.	6.	.03
%RSD	.6028	2.630	.8364	1078.	1.803	.9224	.3254	.0755

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**850.1**	**5578.**	**4.086**	**37600.**	**-19.43**	**415400.**	**1157.**	**62330.**
Stddev	5.1	38.	3.350	355.	10.58	7898.	25.	389.
%RSD	.6009	.6893	81.98	.9428	54.45	1.901	2.124	.6245

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-7.632**	**5.725**	**290.5**	**142.4**	**16.48**	**-11.62**	**58.02**	**-.1420**
Stddev	1.358	1.146	12.6	3.2	1.00	1.68	.17	.2259
%RSD	17.79	20.01	4.325	2.229	6.044	14.45	.2977	159.1

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**416.48**	**1944.4**	**148.00**
Stddev	.96	13.2	.86
%RSD	.23101	.68002	.57888

Sample Name: 481853-006 Acquired: 04/10/2014 12:22:05 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**16550.**	**-.6703**	**17.49**	**242.5**	**.6173**	**573.7**	**84760.**	**25.10**
Stddev	26.	.9748	4.68	.4	.0905	.7	261.	.40
%RSD	.1547	145.4	26.77	.1470	14.66	.1276	.3076	1.608

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.280**	**24.95**	**12250.**	**5.209**	**241.3**	**46630.**	**968.9**	**.2549**
Stddev	.331	1.69	60.	1.632	2.7	66.	11.6	.1826
%RSD	4.551	6.778	.4908	31.32	1.127	.1415	1.198	71.65

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**34.86**	**6617.**	**1.205**	**51130.**	**-16.64**	**370100.**	**1073.**	**58320.**
Stddev	.30	91.	1.947	197.	17.27	3599.	3.	232.
%RSD	.8706	1.373	161.6	.3853	103.8	.9725	.2810	.3969

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.034**	**-.3292**	**413.4**	**43.89**	**6.380**	**-8.301**	**34.77**	**.3050**
Stddev	2.705	1.239	24.5	20.31	.602	1.092	.12	.1663
%RSD	133.0	376.4	5.918	46.29	9.438	13.15	.3360	54.54

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**421.34**	**1951.4**	**147.89**
Stddev	.83	2.8	.73
%RSD	.19711	.14123	.49091

Sample Name: 481853-007 Acquired: 04/10/2014 12:28:52 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6462.**	**-.4595**	**3.890**	**116.7**	**.4670**	**731.2**	**97650.**	**21.99**
Stddev	4.	1.041	2.343	1.5	.1992	3.3	370.	.04
%RSD	.0543	226.5	60.22	1.270	42.67	.4491	.3791	.1806

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.648**	**9.700**	**6490.**	**11.80**	**184.9**	**53140.**	**243.2**	**-.5926**
Stddev	.222	1.485	33.	1.01	3.1	189.	11.5	.2561
%RSD	4.767	15.31	.5025	8.586	1.656	.3559	4.740	43.22

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**14.73**	**4923.**	**-3.168**	**33770.**	**-23.37**	**404900.**	**1989.**	**65910.**
Stddev	.55	82.	.976	96.	7.94	2304.	18.	205.
%RSD	3.704	1.670	30.80	.2837	33.96	.5690	.9135	.3104

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.6029**	**2.581**	**211.8**	**23.96**	**-6.060**	**-7.422**	**38.19**	**.2284**
Stddev	1.786	1.200	26.8	14.45	1.368	1.852	.08	.0543
%RSD	296.2	46.48	12.64	60.32	22.57	24.95	.2047	23.80

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**422.60**	**1957.3**	**147.35**
Stddev	2.29	10.7	.89
%RSD	.54268	.54600	.60598

Sample Name: 481853-008 Acquired: 04/10/2014 12:35:38 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3260.**	**-.3763**	**7.117**	**63.80**	**-.0615**	**761.0**	**72570.**	**23.91**
Stddev	11.	1.337	4.178	.60	.8614	2.3	146.	.34
%RSD	.3313	355.2	58.70	.9353	1400.	.3016	.2016	1.417

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.628**	**6.052**	**3696.**	**3.990**	**161.7**	**34940.**	**113.4**	**.4429**
Stddev	.284	1.075	38.	3.101	2.2	178.	7.2	.1404
%RSD	17.45	17.76	1.030	77.72	1.345	.5081	6.393	31.69

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.715**	**5517.**	**-1.289**	**21830.**	**-23.95**	**400300.**	**1079.**	**60720.**
Stddev	1.085	88.	2.812	182.	4.96	4957.	26.	13.
%RSD	14.07	1.603	218.2	.8323	20.70	1.238	2.441	.0210

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.027**	**.8823**	**93.25**	**17.12**	**-8.869**	**-4.988**	**49.86**	**.2094**
Stddev	1.393	.5627	20.86	4.41	2.800	2.512	.12	.0447
%RSD	46.01	63.78	22.37	25.78	31.57	50.37	.2406	21.37

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**423.59**	**1944.3**	**148.65**
Stddev	.63	11.6	2.16
%RSD	.14902	.59513	1.4527

Sample Name: 481853-009 Acquired: 04/10/2014 12:42:23 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**131.0**	**-.3045**	**1.784**	**82.89**	**.2875**	**309.5**	**64040.**	**68.81**
Stddev	3.0	1.932	4.168	.96	.6508	1.3	117.	.37
%RSD	2.324	634.4	233.7	1.153	226.4	.4136	.1824	.5424

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1742**	**-.2614**	**.9918**	**-2.876**	**144.0**	**25270.**	**-.8936**	**-.5066**
Stddev	.5198	.9475	41.26	3.031	3.0	234.	34.84	.0890
%RSD	298.3	362.4	4160.	105.4	2.105	.9269	3899.	17.58

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.367**	**5485.**	**3.012**	**14050.**	**-18.87**	s **165000.**	**679.8**	**32950.**
Stddev	.935	74.	.746	80.	4.50	8215.	19.7	270.
%RSD	39.51	1.352	24.75	.5681	23.85	4.978	2.897	.8196

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.388**	**.7919**	**10.02**	**11.57**	**-8.606**	**-3.216**	**5.225**	**.1145**
Stddev	1.181	1.634	19.62	12.33	1.763	2.378	1.922	.0522
%RSD	49.45	206.3	195.7	106.6	20.48	73.93	36.79	45.58

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**427.53**	**1941.0**	**148.31**
Stddev	1.67	10.7	.66
%RSD	.39077	.55190	.44736

Sample Name: CCV16 Acquired: 04/10/2014 12:48:56 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	W **9475.**	W **936.9**	**1935.**	**1964.**	**1003.**	**1936.**	**9766.**	**2028.**
Stddev	34.	4.1	12.	14.	7.	10.	44.	7.
%RSD	.3618	.4349	.6393	.7180	.7195	.5230	.4496	.3499
Check ?	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10000.	1000.						
Range	-5.000%	-5.000%						

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	W **942.7**	**1967.**	**10280.**	**988.7**	**2078.**	**10180.**	**1004.**	**1006.**
Stddev	3.0	9.	109.	1.4	18.	54.	23.	5.
%RSD	.3157	.4718	1.057	.1385	.8552	.5260	2.299	.4989
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1000.							
Range	-5.000%							

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**958.8**	**10360.**	**987.0**	**5011.**	**1032.**	W **10570.**	**5027.**	**4942.**
Stddev	6.5	40.	7.3	78.	17.	67.	7.	84.
%RSD	.6760	.3837	.7446	1.547	1.635	.6383	.1464	1.695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value						10000.		
Range						5.000%		

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	W **946.8**	**1000.**	**2023.**	**1005.**	**1026.**	**987.0**	**1998.**	**956.9**
Stddev	7.3	4.	19.	15.	6.	5.6	7.	4.8
%RSD	.7754	.4300	.9468	1.486	.5718	.5689	.3688	.4995
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	1000.							
Range	-5.000%							

Sample Name: CCV16 Acquired: 04/10/2014 12:48:56 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**430.24**	**1953.2**	**148.94**
Stddev	.57	17.4	.74
%RSD	.13273	.89145	.50010

Sample Name: CCB16 Acquired: 04/10/2014 12:55:22 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-10.94**	**-1.247**	**-1.761**	**-.7347**	**.0731**	**-21.60**	**-28.52**	**-.0023**	**-.2237**
Stddev	5.74	1.965	1.146	.6923	1.024	1.56	7.28	.1606	.1756
%RSD	52.47	157.5	65.10	94.22	1401.	7.221	25.51	6962.	78.49

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.889**	**10.43**	**-.0268**	**-1.058**	**20.76**	**-10.83**	**-.5735**	**-.0194**	**11.44**
Stddev	1.588	15.01	2.127	2.659	44.25	9.07	.0353	.6620	60.81
%RSD	54.95	144.0	7937.	251.2	213.1	83.76	6.150	3418.	531.4

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4625**	**-21.36**	**-28.41**	**37.52**	**-3.401**	**4.348**	**-1.484**	**-.4315**	**-4.354**
Stddev	1.973	8.51	15.81	13.99	22.03	2.519	1.794	1.155	19.64
%RSD	426.7	39.83	55.64	37.29	647.7	57.94	120.9	267.6	451.1

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**-14.19**	**-4.774**	**.7027**	**-.6560**	**-.1039**
Stddev	17.38	1.898	1.660	.0680	.1450
%RSD	122.4	39.76	236.3	10.37	139.7

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**423.45**	**1924.7**	**147.95**
Stddev	.67	5.3	.59
%RSD	.15901	.27536	.40205

Sample Name: 481853-010 Acquired: 04/10/2014 13:02:02 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2414.**	**-1.101**	**4.719**	**102.9**	**-.2418**	**235.3**	**68470.**	**302.8**
Stddev	10.	.145	6.354	.3	.2532	1.1	487.	.9
%RSD	.4201	13.18	134.7	.2914	104.7	.4715	.7109	.2846

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.355**	**5.873**	**2401.**	**-.2812**	**129.8**	**27630.**	**155.5**	**.3648**
Stddev	.312	.345	25.	3.451	1.8	81.	7.7	.2612
%RSD	23.00	5.870	1.029	1227.	1.373	.2919	4.931	71.60

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**18.72**	**5821.**	**-1.471**	**18250.**	**-9.201**	s **134700.**	**749.5**	**29670.**
Stddev	1.25	68.	1.931	88.	6.257	768.	16.4	43.
%RSD	6.676	1.160	131.2	.4827	68.00	.5704	2.192	.1449

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.430**	**.1485**	**95.74**	**3.727**	**-7.715**	**-4.452**	**17.60**	**.1815**
Stddev	1.565	2.092	30.38	11.70	2.266	.472	.44	.2029
%RSD	64.42	1409.	31.73	314.0	29.37	10.60	2.477	111.8

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**427.20**	**1945.8**	**146.85**
Stddev	1.49	6.8	.93
%RSD	.34983	.34946	.63125

Sample Name: 481853-011 Acquired: 04/10/2014 13:08:34 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2337.**	**-.5518**	**4.631**	**107.6**	**-.1366**	**321.6**	**67450.**	**12.19**
Stddev	10.	1.227	3.841	.8	.4516	1.8	516.	.43
%RSD	.4067	222.3	82.93	.7628	330.6	.5734	.7643	3.525

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.230**	**6.109**	**2465.**	**-3.153**	**138.6**	**26460.**	**180.5**	**.5699**
Stddev	.060	2.714	13.	3.398	4.5	84.	3.9	.1988
%RSD	4.885	44.43	.5280	107.8	3.225	.3182	2.153	34.89

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.155**	**5856.**	**1.077**	**17940.**	**-16.30**	s **171900.**	**737.2**	**35540.**
Stddev	.600	91.	2.201	56.	10.68	11390.	13.7	153.
%RSD	8.384	1.548	204.4	.3142	65.50	6.626	1.856	.4305

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0799**	**-.5368**	**147.7**	**22.49**	**-9.060**	**-4.508**	**12.06**	**.2122**
Stddev	1.703	.6825	47.0	13.62	1.956	1.062	.32	.1134
%RSD	2132.	127.1	31.86	60.57	21.59	23.55	2.680	53.44

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**429.50**	**1953.7**	**147.32**
Stddev	1.18	13.9	.79
%RSD	.27405	.71375	.53330

Sample Name: 481853-012 Acquired: 04/10/2014 13:15:09 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**249.6**	**-1.874**	**.8070**	**89.20**	**-.1556**	**347.6**	**65680.**	**7.809**
Stddev	7.0	1.199	4.588	1.73	.2103	1.5	490.	.145
%RSD	2.819	63.98	568.4	1.941	135.2	.4311	.7453	1.863

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0657**	**.7923**	**129.3**	**.2311**	**144.3**	**25220.**	**25.38**	**.4483**
Stddev	.1979	.7948	70.1	2.222	2.9	239.	12.07	.0821
%RSD	301.1	100.3	54.22	961.4	2.026	.9487	47.54	18.32

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.525**	**5873.**	**-.8334**	**13170.**	**-15.95**	**209900.**	**726.2**	**31700.**
Stddev	.231	55.	3.762	172.	14.07	1226.	20.9	122.
%RSD	6.563	.9305	451.4	1.304	88.21	.5842	2.876	.3845

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.7482**	**.4279**	**19.66**	**13.40**	**-10.26**	**-3.446**	**7.681**	**.0815**
Stddev	1.897	1.470	8.07	7.90	1.53	.452	.086	.0510
%RSD	253.5	343.5	41.03	58.93	14.93	13.12	1.115	62.50

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**426.41**	**1940.7**	**146.99**
Stddev	1.91	3.3	.54
%RSD	.44752	.16800	.36711

Sample Name: 481853-013 Acquired: 04/10/2014 13:21:44 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: 653162 METHOD: 6010 ANALYST: MKO
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-10.44**	**-.3885**	**-3.468**	**-.8867**	**-.0305**	**-23.11**	**57.78**	**-.1771**	**-.3164**
Stddev	3.99	.5607	5.793	1.101	.0703	.37	10.83	.2255	.3154
%RSD	38.22	144.3	167.1	124.1	230.3	1.587	18.75	127.3	99.69

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.6527**	**31.46**	**.6856**	**-1.055**	**54.19**	**-16.24**	**-.9730**	**.2577**	**82.35**
Stddev	1.108	6.83	1.538	1.825	49.60	14.76	.3679	1.595	114.8
%RSD	169.8	21.71	224.4	172.9	91.52	90.93	37.81	619.1	139.5

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.675**	**52.60**	**-17.33**	**377.9**	**8.653**	**11.19**	**-3.966**	**-1.159**	**31.53**
Stddev	2.797	16.55	4.14	17.4	15.09	4.00	.168	.476	13.48
%RSD	167.0	31.47	23.90	4.609	174.3	35.71	4.231	41.09	42.75

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**-6.238**	**-6.724**	**-2.584**	**5.004**	**-.0244**
Stddev	10.81	3.526	.742	.069	.0564
%RSD	173.3	52.45	28.72	1.381	230.9

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**423.75**	**1935.4**	**148.15**
Stddev	1.72	4.9	.45
%RSD	.40616	.25453	.30542

Sample Name: CCV17 Acquired: 04/10/2014 14:05:48 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	W **9454.**	W **930.4**	**1915.**	**1947.**	**993.2**	**1914.**	**9727.**	**2028.**	W **938.0**
Stddev	4.	.3	7.	7.	5.5	3.	19.	1.	2.2
%RSD	.0431	.0272	.3543	.3638	.5552	.1696	.1958	.0654	.2323
Check ?	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value	10000.	1000.							1000.
Range	-5.000%	-5.000%							-5.000%

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1959.**	**10190.**	**980.9**	**2059.**	**10190.**	**999.1**	**1007.**	**953.9**	**10240.**
Stddev	3.	50.	3.6	16.	104.	24.0	1.	1.7	172.
%RSD	.1337	.4875	.3708	.7548	1.021	2.406	.1468	.1741	1.676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**986.9**	**4956.**	**1020.**	**10480.**	**5040.**	**4778.**	W **943.8**	**999.2**	**2035.**
Stddev	.6	33.	1.	24.	22.	4.	3.6	1.5	44.
%RSD	.0634	.6570	.1198	.2312	.4333	.0818	.3776	.1462	2.174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value							1000.		
Range							-5.000%		

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**1016.**	**1018.**	**988.3**	**1986.**	**953.7**
Stddev	12.	1.	3.5	.	1.1
%RSD	1.136	.1331	.3526	.0231	.1174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV17 Acquired: 04/10/2014 14:05:48 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**434.52**	**1948.1**	**149.38**
Stddev	.85	7.7	1.10
%RSD	.19531	.39724	.73387

Sample Name: CCB17 Acquired: 04/10/2014 14:12:17 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-11.34**	**-1.643**	**-1.172**	**-.5255**	**.2640**	**-23.80**	**-40.41**	**.1350**	**-.0295**
Stddev	12.55	.410	2.572	1.093	.2105	.89	14.75	.1067	.2825
%RSD	110.7	24.97	219.5	208.0	79.72	3.753	36.50	79.04	956.8

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.105**	**16.46**	**4.059**	**-1.891**	**52.37**	**-10.48**	**-.4873**	**.0606**	**15.71**
Stddev	1.950	9.12	2.481	2.546	101.7	16.39	.1186	.9608	80.95
%RSD	176.5	55.39	61.12	134.6	194.2	156.4	24.35	1585.	515.2

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.459**	**-45.35**	**-25.77**	**19.25**	**-21.94**	**4.189**	**-2.131**	**-.2946**	**26.64**
Stddev	2.591	44.67	10.59	18.19	18.18	.117	4.115	.5657	36.30
%RSD	177.5	98.49	41.09	94.49	82.88	2.789	193.1	192.0	136.3

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**1.613**	**-5.565**	**.1065**	**-.5958**	**-.0817**
Stddev	30.18	.127	1.476	.0470	.0259
%RSD	1871.	2.277	1386.	7.883	31.66

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**427.95**	**1927.3**	**148.01**
Stddev	1.21	6.1	.76
%RSD	.28281	.31409	.51616

Sample Name: CCV20 Acquired: 04/10/2014 17:09:01 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	W **9234.**	F **889.6**	W **1846.**	W **1878.**	**969.7**	W **1833.**	**9899.**	**2009.**	W **900.5**
Stddev	24.	2.5	5.	7.	2.8	3.	20.	1.	2.1
%RSD	.2557	.2758	.2916	.3674	.2911	.1745	.2004	.0377	.2305
Check ?	Chk Warn	Chk Fail	Chk Warn	Chk Warn	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn
Value	10000.	1000.	2000.	2000.		2000.			1000.
Range	-5.000%	-10.00%	-5.000%	-5.000%		-5.000%			-5.000%

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1910.**	**10280.**	**953.7**	**2023.**	**10210.**	**1018.**	**996.6**	W **923.2**	**10040.**
Stddev	2.	14.	8.6	7.	33.	17.	1.4	2.6	48.
%RSD	.0930	.1375	.8998	.3609	.3267	1.640	.1401	.2855	.4822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value								1000.	
Range								-5.000%	

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**971.0**	**4770.**	**1028.**	**10280.**	**4992.**	F **4471.**	W **921.8**	**977.5**	**2016.**
Stddev	3.6	67.	3.	66.	13.	17.	4.3	.7	14.
%RSD	.3723	1.403	.3187	.6413	.2694	.3784	.4633	.0756	.7045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Warn	Chk Pass	Chk Pass
Value						5000.	1000.		
Range						-10.00%	-5.000%		

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**995.9**	**989.7**	W **947.1**	**1929.**	W **918.7**
Stddev	28.8	1.7	1.6	3.	1.3
%RSD	2.891	.1685	.1693	.1377	.1371
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Warn
Value			1000.		1000.
Range			-5.000%		-5.000%

Sample Name: CCV20 Acquired: 04/10/2014 17:09:01 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**453.20**	**1948.8**	**150.01**
Stddev	.90	6.0	.46
%RSD	.19968	.30884	.30423

Sample Name: CCB20 Acquired: 04/10/2014 17:15:30 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-31.19**	**.0562**	**.7931**	**-1.184**	**-.0945**	**-23.07**	**-29.46**	**.0316**	**-.2615**
Stddev	10.39	.2574	2.878	.740	.2689	1.11	34.81	.0583	.1424
%RSD	33.30	457.9	362.9	62.48	284.5	4.811	118.1	184.2	54.47

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.504**	**13.57**	**-1.753**	**-.5204**	**-12.10**	**-7.345**	**-.5184**	**-.2888**	**-68.45**
Stddev	.721	9.04	3.020	.9748	49.17	12.21	.1646	.8162	63.26
%RSD	47.91	66.62	172.3	187.3	406.3	166.2	31.75	282.6	92.41

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.6574**	**26.72**	**-26.69**	**-21.04**	**6.821**	**5.114**	**-1.419**	**-.5154**	**6.225**
Stddev	.3479	24.08	6.17	36.53	14.18	1.011	3.071	.1472	15.32
%RSD	52.93	90.11	23.13	173.6	207.9	19.76	216.5	28.55	246.1

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**2.370**	**-7.876**	**.0483**	**-.7501**	**-.0271**
Stddev	1.866	1.492	2.045	.0500	.1263
%RSD	78.71	18.94	4236.	6.672	465.1

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**445.05**	**1934.1**	**150.46**
Stddev	.64	4.1	1.09
%RSD	.14363	.21293	.72341

Sample Name: IRIS BLANK Acquired: 04/09/2014 17:01:12 Type: Cal
Method: IRIS 2014A Mode: IR Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0013**	**.0000**	**-.0001**	**.0039**	**.0001**	**.0044**	**.0041**	**.0003**	**.0008**
Stddev	.0001	.000	.0000	.0017	.0004	.0004	.0004	.0001	.0001
%RSD	5.867	58.16	51.15	44.69	713.4	8.632	8.793	21.45	12.69
#1	.0013	.0000	.0000	.0021	-.0001	.0048	.0044	.0003	.0009
#2	.0014	-.0001	.0000	.0040	.0005	.0043	.0042	.0004	.0008
#3	.0013	.0000	-.0001	.0055	-.0002	.0041	.0037	.0002	.0007

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0002**	**-.0002**	**.0002**	**.0014**	**-.0002**	**-.0001**	**.0006**	**-.0001**	**-.0012**
Stddev	.0001	.0010	.0000	.0017	.0002	.0004	.0001	.0001	.0008
%RSD	47.17	447.1	14.15	117.3	111.4	269.3	15.12	71.99	71.30
#1	-.0003	.0002	.0002	.0005	.0000	.0002	.0007	.0000	-.0011
#2	-.0003	-.0014	.0002	.0004	-.0005	-.0006	.0006	-.0002	-.0021
#3	-.0001	.0005	.0002	.0033	-.0002	-.0001	.0005	-.0001	-.0004

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0000**	**.0002**	**-.0003**	**-.0201**	**-.0012**	**-.0004**	**-.0010**	**.0000**	**.0003**
Stddev	.000	.0004	.0005	.0011	.0008	.0000	.0001	.000	.0003
%RSD	1212.	162.1	155.3	5.428	63.23	5.481	5.501	959.3	86.65
#1	-.0001	.0006	.0002	-.0213	-.0015	-.0004	-.0011	.0000	.0005
#2	.0000	-.0002	-.0007	-.0198	-.0018	-.0004	-.0011	-.0001	.0005
#3	.0000	.0003	-.0005	-.0192	-.0003	-.0004	-.0010	.0000	.0000

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0000**	**.0017**	**.0000**	**.0022**	**.0005**
Stddev	.0005	.0000	.0000	.0005	.0000
%RSD	1132.	1.435	97.77	20.96	5.187
#1	.0002	.0017	.0000	.0027	.0004
#2	.0005	.0017	.0001	.0021	.0005
#3	-.0006	.0017	.0000	.0018	.0005

Sample Name: IRIS BLANK Acquired: 04/09/2014 17:01:12 Type: Cal
Method: IRIS 2014A Mode: IR Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**377.74**	**1773.0**	**144.40**
Stddev	.60	3.5	.77
%RSD	.15889	.19460	.53604
#1	377.50	1775.1	144.47
#2	378.42	1769.0	145.14
#3	377.29	1774.7	143.60

Sample Name: IRIS STD 1 Acquired: 04/09/2014 17:07:45 Type: Cal
Method: IRIS 2014A Mode: IR Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0035**	**.0008**	**.0000**	**.0148**	**.0077**	**.0099**	**.0093**	**.0041**	**.0055**
Stddev	.0001	.0000	.0000	.0018	.0008	.0002	.0006	.0000	.0000
%RSD	1.672	3.291	166.8	12.39	10.95	1.564	6.745	.8550	.5119
#1	.0034	.0008	.0000	.0127	.0070	.0101	.0092	.0041	.0055
#2	.0034	.0008	.0000	.0153	.0075	.0098	.0088	.0041	.0055
#3	.0035	.0008	.0000	.0163	.0086	.0098	.0100	.0041	.0055

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0007**	**.0062**	**.0005**	**.0147**	**.0014**	**.0006**	**.0038**	**.0008**	**.0092**
Stddev	.0001	.0001	.0001	.0021	.0009	.0002	.0000	.0001	.0009
%RSD	9.298	1.715	25.05	13.97	64.23	33.56	1.145	9.697	9.239
#1	.0007	.0064	.0007	.0143	.0005	.0008	.0039	.0009	.0097
#2	.0007	.0062	.0005	.0129	.0023	.0004	.0038	.0007	.0082
#3	.0006	.0062	.0004	.0170	.0014	.0007	.0038	.0008	.0098

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0009**	**.0045**	**.0015**	**.0094**	**-.0005**	**.0016**	**-.0003**	**.0011**	**.0011**
Stddev	.0000	.0003	.0005	.0034	.0002	.0000	.0001	.0000	.0007
%RSD	3.314	7.283	34.68	36.43	33.16	2.769	21.92	.8236	63.52
#1	.0009	.0047	.0018	.0080	-.0005	.0016	-.0003	.0011	.0016
#2	.0009	.0042	.0018	.0069	-.0007	.0015	-.0002	.0011	.0003
#3	.0009	.0047	.0009	.0133	-.0003	.0016	-.0002	.0011	.0013

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0004**	**.0022**	**.0003**	**.0382**	**.0036**
Stddev	.0005	.0000	.0001	.0001	.0000
%RSD	143.4	1.209	23.05	.3419	1.375
#1	.0010	.0022	.0004	.0382	.0035
#2	.0001	.0022	.0003	.0381	.0036
#3	.0001	.0023	.0003	.0384	.0035

Sample Name: IRIS STD 1 Acquired: 04/09/2014 17:07:45 Type: Cal
Method: IRIS 2014A Mode: IR Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**379.35**	**1780.2**	**143.99**
Stddev	1.96	5.9	.95
%RSD	.51590	.33174	.65774
#1	380.29	1786.4	144.73
#2	380.66	1774.6	142.92
#3	377.10	1779.5	144.31

Sample Name: IRIS STD 2 Acquired: 04/09/2014 17:14:20 Type: Cal
Method: IRIS 2014A Mode: IR Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0096**	**.0035**	**.0004**	**.0487**	**.0312**	**.0294**	**.0369**	**.0157**	**.0201**
Stddev	.0001	.0001	.0000	.0007	.0004	.0000	.0008	.0000	.0002
%RSD	.6195	1.695	10.41	1.537	1.168	.1104	2.041	.2091	.8614
#1	.0096	.0035	.0004	.0484	.0308	.0293	.0377	.0157	.0202
#2	.0095	.0035	.0003	.0482	.0314	.0294	.0362	.0156	.0202
#3	.0096	.0034	.0004	.0496	.0315	.0294	.0368	.0157	.0199

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0032**	**.0270**	**.0012**	**.0509**	**.0047**	**.0026**	**.0139**	**.0038**	**.0340**
Stddev	.0000	.0004	.0001	.0010	.0012	.0007	.0000	.0001	.0002
%RSD	.8849	1.658	5.413	1.938	26.10	25.76	.3339	2.788	.5887
#1	.0032	.0271	.0011	.0518	.0057	.0028	.0140	.0039	.0338
#2	.0033	.0266	.0012	.0499	.0050	.0019	.0140	.0037	.0340
#3	.0032	.0275	.0012	.0509	.0033	.0031	.0139	.0039	.0342

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0036**	**.0193**	**.0055**	**.1424**	**.0041**	**.0083**	**.0028**	**.0042**	**.0039**
Stddev	.0000	.0008	.0005	.0011	.0013	.0001	.0001	.0000	.0007
%RSD	.7164	4.091	9.256	.7418	32.11	1.485	1.925	.4578	17.93
#1	.0036	.0193	.0061	.1413	.0037	.0083	.0028	.0042	.0045
#2	.0036	.0186	.0053	.1425	.0056	.0082	.0029	.0042	.0040
#3	.0037	.0201	.0052	.1435	.0030	.0085	.0027	.0042	.0031

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0027**	**.0037**	**.0012**	**.1604**	**.0132**
Stddev	.0002	.0000	.0000	.0003	.0001
%RSD	6.512	.5614	1.611	.2042	.6604
#1	.0028	.0037	.0012	.1602	.0133
#2	.0025	.0037	.0012	.1607	.0132
#3	.0027	.0037	.0012	.1602	.0131

Sample Name: IRIS STD 2 Acquired: 04/09/2014 17:14:20 Type: Cal
Method: IRIS 2014A Mode: IR Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**387.49**	**1789.3**	**145.95**
Stddev	.75	9.2	1.18
%RSD	.19404	.51581	.80726
#1	386.62	1782.9	144.59
#2	387.88	1785.0	146.53
#3	387.96	1799.9	146.73

Sample Name: IRIS STD 3 Acquired: 04/09/2014 17:20:55 Type: Cal
Method: IRIS 2014A Mode: IR Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0863**	**.0348**	**.0053**	**.4513**	**.3074**	**.2774**	**.2283**	**.1571**	**.1980**
Stddev	.0002	.0000	.0001	.0027	.0009	.0018	.0000	.0001	.0006
%RSD	.2699	.1159	1.209	.5956	.2776	.6609	.0071	.0743	.2906
#1	.0861	.0348	.0052	.4536	.3083	.2757	.2283	.1570	.1976
#2	.0862	.0348	.0054	.4483	.3074	.2771	.2283	.1570	.1977
#3	.0865	.0348	.0053	.4519	.3066	.2794	.2283	.1572	.1987

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0340**	**.2658**	**.0107**	**.5121**	**.0451**	**.0253**	**.1373**	**.0387**	**.3431**
Stddev	.0002	.0007	.0001	.0025	.0004	.0007	.0006	.0001	.0016
%RSD	.6301	.2759	.8048	.4878	.9946	2.730	.4157	.3230	.4594
#1	.0339	.2665	.0106	.5140	.0449	.0257	.1367	.0387	.3416
#2	.0339	.2659	.0107	.5129	.0457	.0245	.1376	.0385	.3448
#3	.0343	.2650	.0107	.5093	.0449	.0256	.1377	.0388	.3428

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0379**	**.1830**	**.0618**	**1.301**	**.0420**	**.0810**	**.0403**	**.0425**	**.0447**
Stddev	.0000	.0007	.0015	.001	.0007	.0004	.0002	.0002	.0009
%RSD	.0722	.3866	2.373	.1115	1.706	.4649	.5868	.4138	1.951
#1	.0379	.1822	.0627	1.299	.0429	.0811	.0401	.0425	.0449
#2	.0379	.1833	.0626	1.301	.0416	.0806	.0403	.0423	.0454
#3	.0379	.1835	.0602	1.302	.0416	.0813	.0406	.0426	.0437

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0293**	**.0220**	**.0135**	**1.489**	**.1330**
Stddev	.0003	.0002	.0001	.002	.0003
%RSD	1.065	.7785	.7609	.1359	.2285
#1	.0292	.0218	.0134	1.489	.1330
#2	.0296	.0221	.0135	1.487	.1327
#3	.0290	.0222	.0136	1.492	.1333

Sample Name: IRIS STD 3 Acquired: 04/09/2014 17:20:55 Type: Cal
Method: IRIS 2014A Mode: IR Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**387.96**	**1802.2**	**145.85**
Stddev	.50	1.9	.95
%RSD	.12870	.10624	.65049
#1	388.05	1803.6	146.95
#2	388.41	1800.0	145.31
#3	387.42	1802.9	145.30

Sample Name: IRIS STD 4 Acquired: 04/09/2014 17:27:29 Type: Cal
Method: IRIS 2014A Mode: IR Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.8583**	**.3390**	**.0517**	**4.484**	**2.953**	**2.590**	**2.201**	**1.474**	**1.878**
Stddev	.0015	.0012	.0001	.019	.011	.008	.004	.002	.003
%RSD	.1730	.3646	.1580	.4195	.3625	.2920	.1879	.1431	.1400
#1	.8566	.3385	.0516	4.505	2.964	2.585	2.197	1.475	1.881
#2	.8592	.3405	.0518	4.467	2.943	2.598	2.200	1.475	1.876
#3	.8590	.3382	.0516	4.480	2.951	2.586	2.205	1.471	1.877

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.3315**	**2.563**	**.0976**	**5.153**	**.4356**	**.2466**	**1.308**	**.3580**	**3.493**
Stddev	.0004	.004	.0001	.034	.0013	.0006	.002	.0012	.009
%RSD	.1164	.1625	.1124	.6651	.3000	.2501	.1599	.3429	.2487
#1	.3318	2.567	.0976	5.192	.4341	.2472	1.308	.3584	3.503
#2	.3316	2.559	.0974	5.138	.4360	.2468	1.310	.3566	3.485
#3	.3310	2.564	.0977	5.128	.4366	.2460	1.306	.3589	3.492

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.3639**	**1.782**	**.2187**	s **12.63**	**.4095**	**.7994**	**.3848**	**.4004**	**.4249**
Stddev	.0007	.006	.0011	.15	.0021	.0013	.0010	.0007	.0016
%RSD	.1788	.3278	.5008	1.157	.5109	.1593	.2479	.1775	.3788
#1	.3635	1.778	.2179	12.79	.4101	.8008	.3838	.4010	.4260
#2	.3646	1.788	.2182	s 12.56	.4072	.7991	.3857	.3996	.4231
#3	.3635	1.779	.2199	s 12.53	.4113	.7983	.3850	.4006	.4258

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2810**	**.1903**	**.1330**	**12.80**	**1.300**
Stddev	.0016	.0002	.0005	.01	.002
%RSD	.5537	.1053	.3839	.0658	.1622
#1	.2822	.1905	.1330	12.80	1.300
#2	.2792	.1903	.1335	12.79	1.302
#3	.2815	.1901	.1325	12.81	1.298

Sample Name: IRIS STD 4 Acquired: 04/09/2014 17:27:29 Type: Cal
Method: IRIS 2014A Mode: IR Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**380.16**	**1819.0**	**144.89**
Stddev	2.42	20.2	1.66
%RSD	.63787	1.1131	1.1444
#1	382.08	1826.4	146.58
#2	377.43	1796.1	143.26
#3	380.96	1834.6	144.82

Sample Name: RINSE Acquired: 04/09/2014 17:33:52 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.980**	**-2.345**	**-8.852**	**-1.266**	**.0317**	**16.14**	**-12.09**	**.1562**	**.3068**
Stddev	3.238	1.574	5.145	1.464	.1592	8.32	28.29	.2596	.0888
%RSD	65.01	67.14	58.12	115.6	502.3	51.56	234.0	166.2	28.93

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.826**	**27.31**	**1.489**	**1.225**	**40.22**	**-11.53**	**.9280**	**.6869**	**54.15**
Stddev	1.890	16.13	2.670	1.033	81.43	21.20	.4799	.2301	74.40
%RSD	103.5	59.08	179.3	84.33	202.4	183.9	51.71	33.50	137.4

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.114**	**124.5**	**-5.893**	**26.96**	**-9.028**	**4.749**	**3.496**	**-.5847**	**-.4890**
Stddev	2.747	159.1	13.47	11.73	20.44	3.423	2.860	1.354	24.27
%RSD	88.21	127.8	228.6	43.50	226.4	72.08	81.80	231.5	4964.

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**-5.929**	**-3.369**	**-.5529**	**-.0981**	**.0107**
Stddev	11.94	2.429	2.411	.3618	.1487
%RSD	201.4	72.11	436.2	369.0	1385.

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**379.62**	**1787.8**	**146.10**
Stddev	.92	17.3	1.72
%RSD	.24309	.97036	1.1797

Sample Name: ICV Acquired: 04/09/2014 17:40:26 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9644.**	**977.2**	**1971.**	**1975.**	**1016.**	**2031.**	**9646.**	**2051.**	**969.4**
Stddev	41.	5.7	6.	8.	4.	7.	86.	5.	1.2
%RSD	.4236	.5802	.3208	.3904	.4259	.3465	.8910	.2334	.1195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2001.**	**10140.**	**1012.**	**1977.**	**9900.**	**980.9**	**1019.**	**981.8**	**9793.**
Stddev	3.	79.	1.	5.	226.	26.4	1.	1.5	79.
%RSD	.1426	.7779	.1361	.2736	2.287	2.688	.1133	.1516	.8111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1004.**	**5086.**	**1021.**	**10100.**	**4966.**	**4874.**	**979.1**	**1021.**	**1999.**
Stddev	6.	76.	9.	7.	27.	17.	3.8	3.	24.
%RSD	.6258	1.486	.8559	.0689	.5445	.3552	.3842	.3129	1.224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**1003.**	W **1051.**	**1019.**	**2052.**	**984.3**
Stddev	2.	1.	6.	3.	.7
%RSD	.1696	.1158	.5994	.1398	.0689
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		1000.			
Range		5.000%			

Sample Name: ICV Acquired: 04/09/2014 17:40:26 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**391.68**	**1834.4**	**148.47**
Stddev	1.68	9.9	1.10
%RSD	.42801	.53729	.74129

Sample Name: ICB Acquired: 04/09/2014 17:46:51 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.571**	**-.6934**	**-3.457**	**-.7365**	**.3548**	**-7.256**	**-34.32**	**.2480**	**-.1157**
Stddev	1.063	.8466	4.633	.6125	.3131	1.992	13.72	.1673	.3985
%RSD	67.68	122.1	134.0	83.17	88.25	27.45	39.98	67.47	344.5

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.6211**	**12.86**	**2.713**	**.0904**	**40.74**	**-5.776**	**-.0585**	**.0924**	**65.12**
Stddev	.1667	15.58	3.766	2.769	64.50	14.53	.0828	.7899	119.3
%RSD	26.84	121.1	138.8	3064.	158.3	251.5	141.5	855.4	183.3

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2466**	**-5.284**	**.1458**	**5.627**	**-6.852**	**-2.144**	**-2.513**	**-.1210**	**10.51**
Stddev	2.111	25.98	5.999	21.65	23.84	2.546	3.240	1.763	32.51
%RSD	855.9	491.7	4114.	384.8	348.0	118.7	128.9	1456.	309.4

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**16.63**	**-1.380**	**-.9555**	**-.5971**	**.0600**
Stddev	8.51	1.303	1.720	.0453	.1296
%RSD	51.18	94.42	180.1	7.590	215.9

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**385.59**	**1817.6**	**147.86**
Stddev	2.50	10.9	1.46
%RSD	.64713	.59939	.98623

Sample Name: PQL Acquired: 04/09/2014 17:53:26 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**196.0**	**20.99**	**7.001**	**10.55**	**4.025**	**38.49**	**211.8**	**10.09**	**9.592**
Stddev	9.7	1.05	2.985	1.14	.717	.78	15.3	.45	.350
%RSD	4.934	4.982	42.63	10.82	17.82	2.025	7.222	4.494	3.651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**20.96**	**195.9**	**9.949**	**20.19**	**252.6**	**14.68**	**10.19**	**10.24**	**497.0**
Stddev	1.03	18.2	1.196	2.59	48.5	13.44	.35	1.47	79.0
%RSD	4.902	9.270	12.02	12.81	19.18	91.60	3.400	14.39	15.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**31.19**	**492.5**	**16.70**	**508.0**	**24.76**	**94.19**	**14.86**	**20.23**	**38.93**
Stddev	1.86	31.2	9.12	19.3	15.43	.72	1.38	1.32	33.51
%RSD	5.963	6.335	54.61	3.793	62.34	.7662	9.259	6.506	86.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**19.48**	**10.27**	**8.139**	**30.90**	**4.959**
Stddev	1.28	.75	1.682	.32	.021
%RSD	6.561	7.344	20.67	1.023	.4262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: PQL Acquired: 04/09/2014 17:53:26 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**389.10**	**1828.0**	**149.08**
Stddev	1.01	11.0	.51
%RSD	.25865	.60104	.34306

Sample Name: ICSA Acquired: 04/09/2014 17:59:59 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**491400.**	**-1.213**	**-16.13**	**-.2821**	**.4545**	**-14.06**	^ *****	**1.533**
Stddev	2392.	.954	6.69	.5586	.3977	2.00	-----	.085
%RSD	.4867	78.65	41.46	198.0	87.52	14.24	-----	5.551

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.565**	**-.1324**	s **193600.**	**1.469**	**22.43**	**512300.**	**16.02**	**-1.648**
Stddev	.310	2.828	2146.	1.707	.55	6214.	6.48	.447
%RSD	12.09	2136.	1.108	116.2	2.445	1.213	40.44	27.10

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.097**	**-81.58**	**-5.360**	**-3.289**	**-2.313**	**40.86**	**3.734**	**-4.249**
Stddev	.156	36.29	8.533	8.405	8.312	17.56	22.14	3.459
%RSD	5.030	44.48	159.2	255.5	359.3	42.98	592.8	81.40

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.842**	**3.590**	**29.62**	**9.708**	**46.46**	**10.97**	**2.436**	**.4435**
Stddev	3.080	1.249	18.51	17.46	1.79	4.48	.533	.2040
%RSD	80.18	34.78	62.50	179.9	3.860	40.87	21.88	45.99

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**355.75**	**1725.5**	**140.92**
Stddev	1.53	4.8	1.22
%RSD	.42942	.27694	.86522

Sample Name: ICSAB Acquired: 04/09/2014 18:06:41 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**495200.**	**493.5**	**487.1**	**494.5**	**504.1**	**990.4**	s **463600.**	**515.5**
Stddev	1316.	3.4	4.4	6.0	5.0	6.1	4068.	.5
%RSD	.2657	.6980	.9097	1.209	.9912	.6112	.8776	.1031

Elem	Co2286A	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**466.5**	**507.6**	**193500.**	**952.2**	**1056.**	**516300.**	**508.1**	**499.7**
Stddev	3.3	2.4	1321.	9.7	6.	3629.	18.3	1.7
%RSD	.7103	.4776	.6827	1.018	.5951	.7030	3.593	.3492

Elem	Ni2192	K_7664R	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**895.3**	**5176.**	**506.9**	**1013.**	**1063.**	**5317.**	**467.7**	**5214.**
Stddev	2.2	136.	7.3	46.	11.	45.	27.6	25.
%RSD	.2503	2.634	1.436	4.531	1.025	.8513	5.904	.4790

Elem	Tl1908	Sn1899	Ti3329	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**449.9**	**490.8**	**488.0**	**516.1**	**282.6**	**1075.**	**1042.**	**1020.**
Stddev	4.4	2.7	18.0	5.1	3.8	1.	2.	3.
%RSD	.9846	.5475	3.692	.9958	1.338	.0815	.2234	.3022

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**364.30**	**1727.8**	**140.78**
Stddev	.82	2.1	1.46
%RSD	.22428	.12189	1.0403

Sample Name: RINSE Acquired: 04/09/2014 18:13:20 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**232.9**	**-1.120**	**-7.328**	**-1.457**	**-.4018**	**-15.86**	**178.1**	**.2056**	**.1939**
Stddev	18.9	.566	2.090	1.039	.2120	.93	61.4	.2232	.1336
%RSD	8.106	50.55	28.53	71.29	52.76	5.893	34.48	108.6	68.91

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.243**	**95.71**	**1.923**	**-.7182**	**307.2**	**-14.81**	**.3230**	**.9177**	**46.19**
Stddev	1.316	40.89	1.711	1.993	92.8	28.14	.5186	1.187	42.01
%RSD	105.8	42.72	88.95	277.5	30.22	190.0	160.5	129.3	90.96

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2167**	**-43.60**	**-16.60**	**-17.43**	**-.8000**	**-3.865**	**-2.760**	**-1.276**	**-1.054**
Stddev	3.262	17.39	6.18	47.01	1.591	2.737	1.678	1.895	22.40
%RSD	1505.	39.89	37.24	269.7	198.9	70.80	60.80	148.5	2126.

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**-11.92**	**.1784**	**1.047**	**-.1705**	**.2416**
Stddev	11.71	1.397	2.136	.0247	.0429
%RSD	98.20	783.4	203.9	14.50	17.77

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**387.80**	**1827.6**	**147.92**
Stddev	1.90	9.1	.22
%RSD	.48949	.49645	.14904

Sample Name: CCV 1 Acquired: 04/09/2014 18:19:55 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9667.**	**976.2**	**1975.**	**1971.**	**1016.**	**2015.**	**9790.**	**2053.**	**964.2**
Stddev	17.	2.7	7.	22.	10.	7.	40.	4.	3.9
%RSD	.1757	.2774	.3332	1.113	.9619	.3547	.4068	.1775	.3995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2002.**	**10210.**	**1012.**	**1985.**	**10110.**	**986.2**	**1021.**	**979.6**	**9788.**
Stddev	4.	87.	1.	15.	49.	18.5	2.	3.2	26.
%RSD	.2041	.8504	.1271	.7666	.4834	1.873	.1693	.3303	.2678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1003.**	**4991.**	**1010.**	**10150.**	**5003.**	**4878.**	**981.0**	**1020.**	**1998.**
Stddev	7.	73.	18.	99.	28.	16.	1.9	5.	27.
%RSD	.6916	1.457	1.743	.9797	.5590	.3242	.1893	.4532	1.356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**1023.**	**1044.**	**1016.**	**2047.**	**982.1**
Stddev	20.	7.	2.	5.	3.4
%RSD	1.986	.6231	.1714	.2372	.3484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV 1 Acquired: 04/09/2014 18:19:55 Type: QC
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**396.09**	**1843.5**	**148.35**
Stddev	.20	4.9	.16
%RSD	.05106	.26402	.10487

Sample Name: CCB 1 Acquired: 04/09/2014 18:26:20 Type: Unk
Method: IRIS 2014A Mode: CONC Corr. Factor: 1.000000
User: admin BATCH ID: METHOD: ANALYST:
Comment:

Elem	Al3082	Sb2068	As1890	Ba4554R	Be3131R	B_2089	Ca3179	Cr2061	Co2286A
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**24.03**	**-.7317**	**-3.077**	**.5030**	**.3381**	**-15.57**	**36.30**	**.5578**	**.0704**
Stddev	10.89	.9818	6.951	.7059	.4400	2.05	67.78	.2273	.2297
%RSD	45.33	134.2	225.9	140.3	130.2	13.18	186.7	40.74	326.2

Elem	Cu2230	Fe2599R	Pb2203A	Li6707R	Mg2790R	Mn2933	Mo2020A	Ni2192	K_7664R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.227**	**26.06**	**1.531**	**.0270**	**75.57**	**8.956**	**.6359**	**.9218**	**-25.79**
Stddev	3.361	27.52	2.998	2.189	44.55	9.893	.6498	.5940	69.56
%RSD	150.9	105.6	195.9	8123.	58.95	110.5	102.2	64.44	269.7

Elem	Se1960A	Si2516	Ag3280	Na5895R	Sr3464	S_1820A	Tl1908	Sn1899	Ti3329
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.536**	**-16.55**	**-18.70**	**4.613**	**-1.200**	**-4.149**	**1.074**	**.2064**	**12.04**
Stddev	1.783	30.96	6.97	24.58	22.37	6.820	4.835	.7895	4.40
%RSD	50.43	187.1	37.30	532.8	1865.	164.4	450.1	382.6	36.56

Elem	V_3276	P_2149	Bi2230	Zn2138	Cd2288
Units	ppb	ppb	ppb	ppb	ppb
Avg	**-1.319**	**-.7406**	**1.257**	**-.0517**	**.1488**
Stddev	7.988	1.659	3.413	.0384	.0333
%RSD	605.8	224.1	271.5	74.25	22.36

Int. Std.	Y_2243A	Y_3600R	Y_3774R
Units	Cts/S	Cts/S	Cts/S
Avg	**386.61**	**1816.2**	**147.93**
Stddev	1.01	6.9	1.19
%RSD	.26187	.37777	.80640

Cyanide by EPA 335.4

Author: a232 Date : 5/14/2014

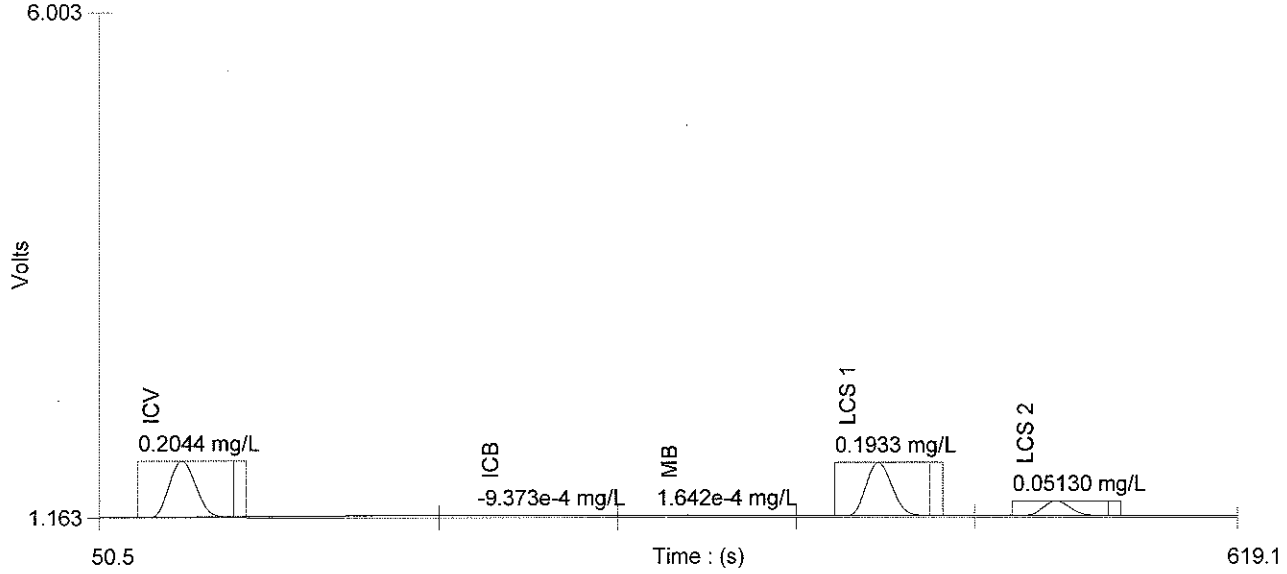
Original Run Filename: OM_4-1-2014_11-26-03AM.OMN Created: 4/1/2014 11:26:03 AM
Original Run Author's Signature: [a232]
Current Run Filename: 040114 cn.omn Last Modified: 4/1/2014 2:24:08 PM
Current Run Author's Signature: [a232]
Description: 10-204-00-1-X

METHOD : E335.4
CN CARRIER: 887-WET-31-08
CHLORAMINE T: 887-WET-32-07
PHOSPHATE BUFFER : 887-WET-31-06
PYRIDINE BARBITURIC ACID: 10438-1
STD: 175-WET-63-04----ICV
175-WET-62-11 CCV/LCS
ANALYST -- DEP--

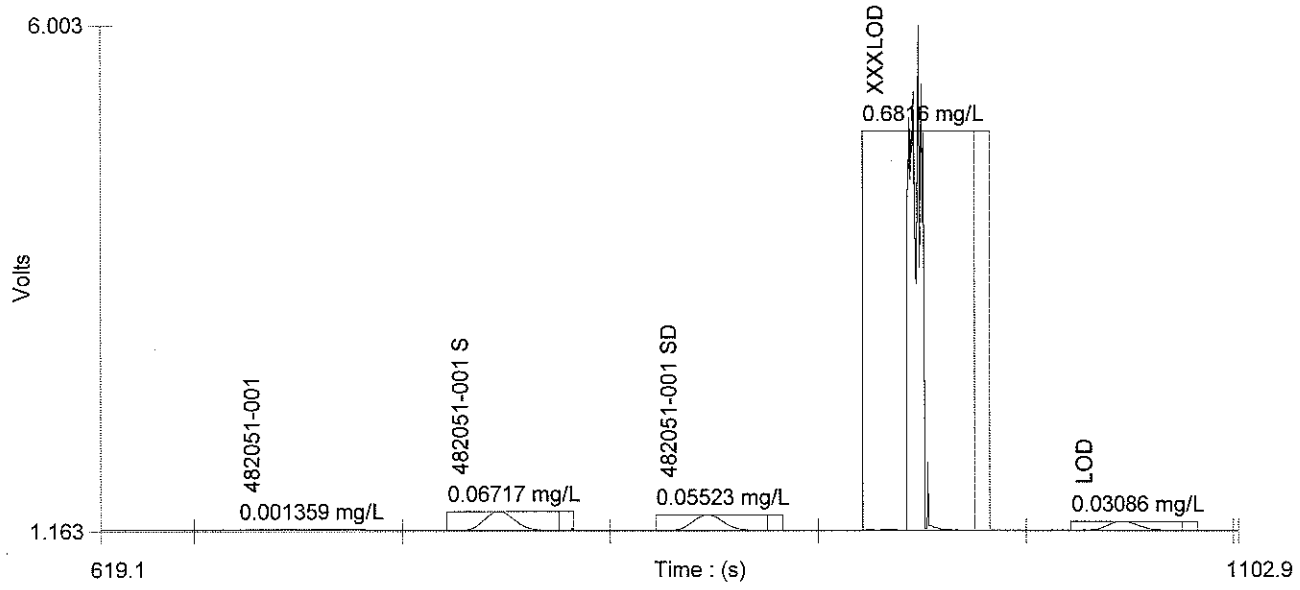
Sample	Cup No.	Channel 1 Cyanide (mg/L)	Detection Time	MDF
ICV	60	0.2044	4/1/2014@11:26:59 AM	1.00
ICB	58	-9.373e-4	4/1/2014@11:29:49 AM	1.00
Calibration:		Table/Fig. : 1		
MB	1	1.642e-4	4/1/2014@11:31:18 AM	1.00
LCS 1	2	0.1933	4/1/2014@11:32:47 AM	1.00
LCS 2	3	0.05130	4/1/2014@11:34:16 AM	1.00
482051-001	4	0.001359	4/1/2014@11:37:07 AM	1.00
482051-001 S	5	0.06717	4/1/2014@11:38:36 AM	1.00
482051-001 SD	6	0.05523	4/1/2014@11:40:04 AM	1.00
XXXLOD	7	0.6816	4/1/2014@11:41:33 AM	1.00
LOD	7	0.03086	4/1/2014@11:43:01 AM	1.00
LOQ	8	0.1007	4/1/2014@11:44:29 AM	1.00
CCV1	60	0.2097	4/1/2014@11:46:07 AM	1.00
CCB1	58	-5.389e-4	4/1/2014@11:47:26 AM	1.00
MB	9	3.105e-4	4/1/2014@11:49:42 AM	1.00
LOD	7	0.003761	4/1/2014@11:51:11 AM	1.00
LOQ	8	0.01524	4/1/2014@11:52:39 AM	1.00
LCS 1	10	0.1960	4/1/2014@11:54:07 AM	1.00
LCS 2	11	0.05158	4/1/2014@11:55:35 AM	1.00
481675-001	12	0.001170	4/1/2014@11:57:03 AM	1.00
481675-001 S	13	0.1992	4/1/2014@11:58:32 AM	1.00
481675-001 SD	14	0.1936	4/1/2014@12:00:01 PM	1.00
481853-009	15	2.581e-5	4/1/2014@12:01:30 PM	1.00
481853-010	16	-3.110e-4	4/1/2014@12:02:59 PM	1.00
CCV2	59	0.2119	4/1/2014@12:04:27 PM	1.00
CCB2	57	-5.556e-4	4/1/2014@12:05:55 PM	1.00
481853-011	17	-9.393e-4	4/1/2014@12:07:24 PM	1.00
482045-002	18	0.003468	4/1/2014@12:08:52 PM	1.00
482051-002	19	0.001024	4/1/2014@12:10:20 PM	1.00
482128-001	20	0.002947	4/1/2014@12:11:49 PM	1.00
482183-001	21	0.001172	4/1/2014@12:13:17 PM	1.00
481951-006	22	5.390e-4	4/1/2014@12:14:45 PM	1.00
482187-002	23	1.585e-4	4/1/2014@12:16:13 PM	1.00
481918-015	24	5.052e-4	4/1/2014@12:17:40 PM	1.00
481918-015 S	25	0.1955	4/1/2014@12:19:10 PM	1.00
481918-015 SD	26	0.2005	4/1/2014@12:20:39 PM	1.00
CCV3	59	0.2123	4/1/2014@12:22:07 PM	1.00
CCB3	57	-8.115e-4	4/1/2014@12:23:35 PM	1.00

481918-016	27	0.001097	4/1/2014@12:25:04 PM	1.00
481918-017	28	8.190e-4	4/1/2014@12:26:33 PM	1.00
481963-002	29	0.01117	4/1/2014@12:28:01 PM	1.00
LOD	30	0.002945	4/1/2014@12:29:30 PM	1.00
LOQ	31	0.01439	4/1/2014@12:30:58 PM	1.00
CCV4	60	0.2119	4/1/2014@12:32:26 PM	1.00
CCB4	58	-0.001048	4/1/2014@12:33:55 PM	1.00

Channel 1 (Cyanide) - Set: 1 / 9

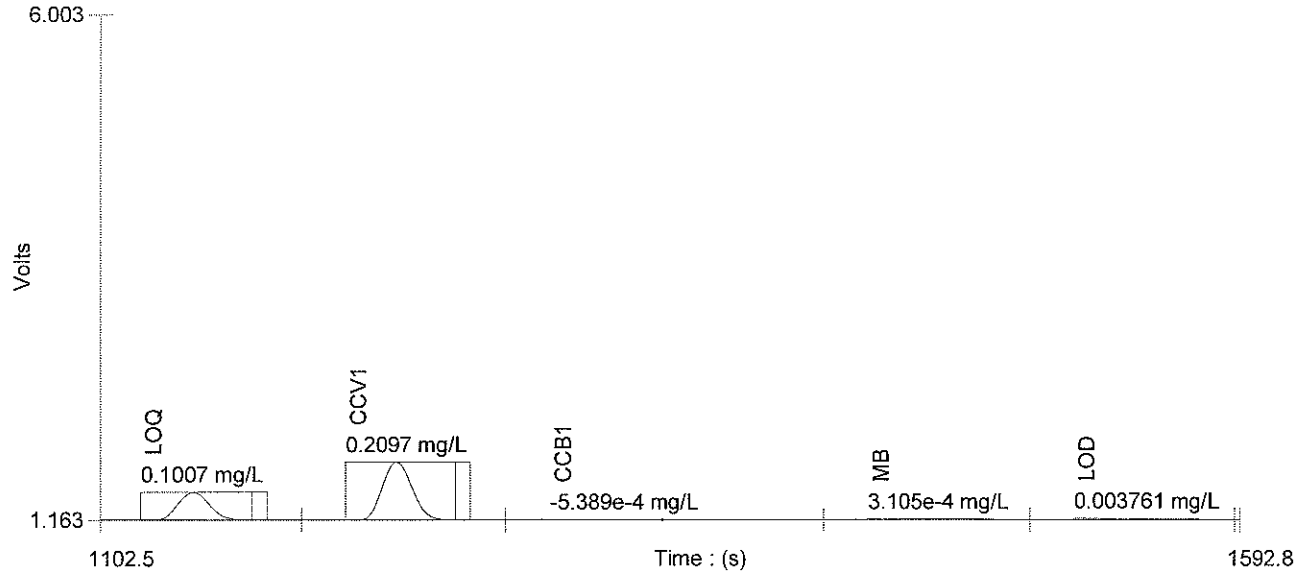


Channel 1 (Cyanide) - Set: 2 / 9

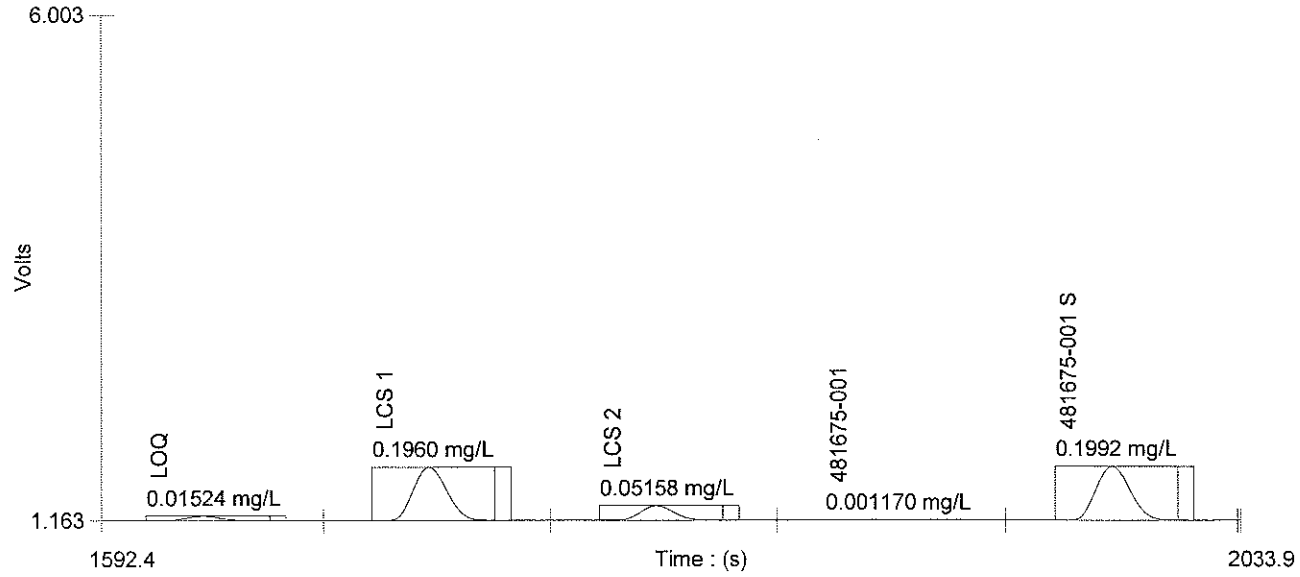


Author: a232 Date : 5/14/2014

Channel 1 (Cyanide) - Set: 3 / 9

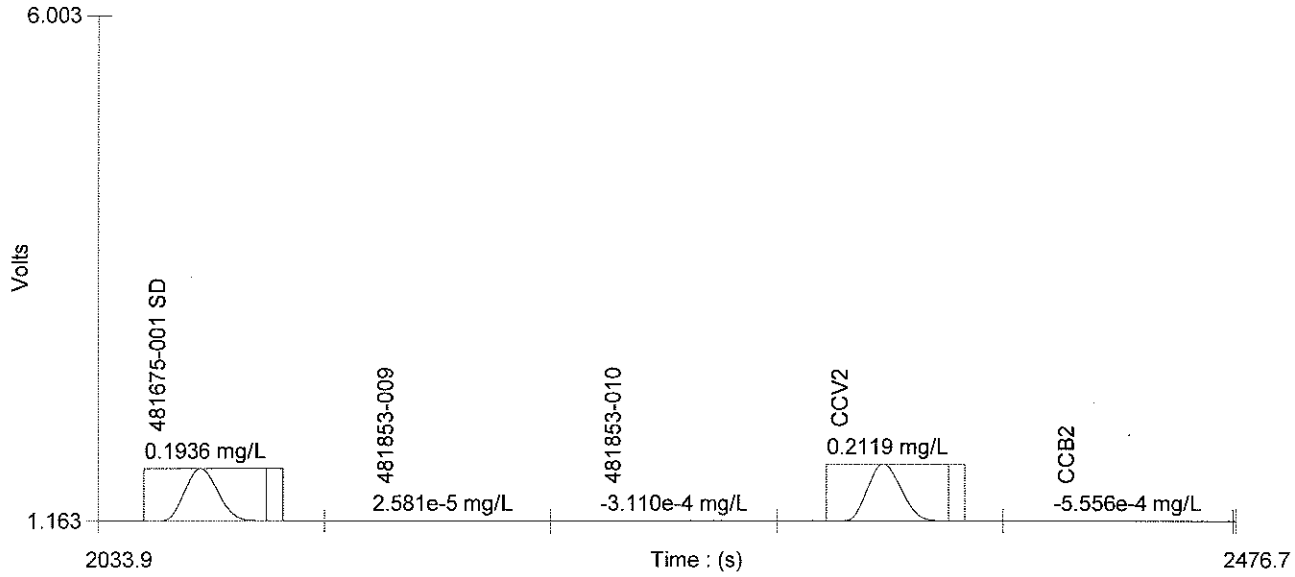


Channel 1 (Cyanide) - Set: 4 / 9

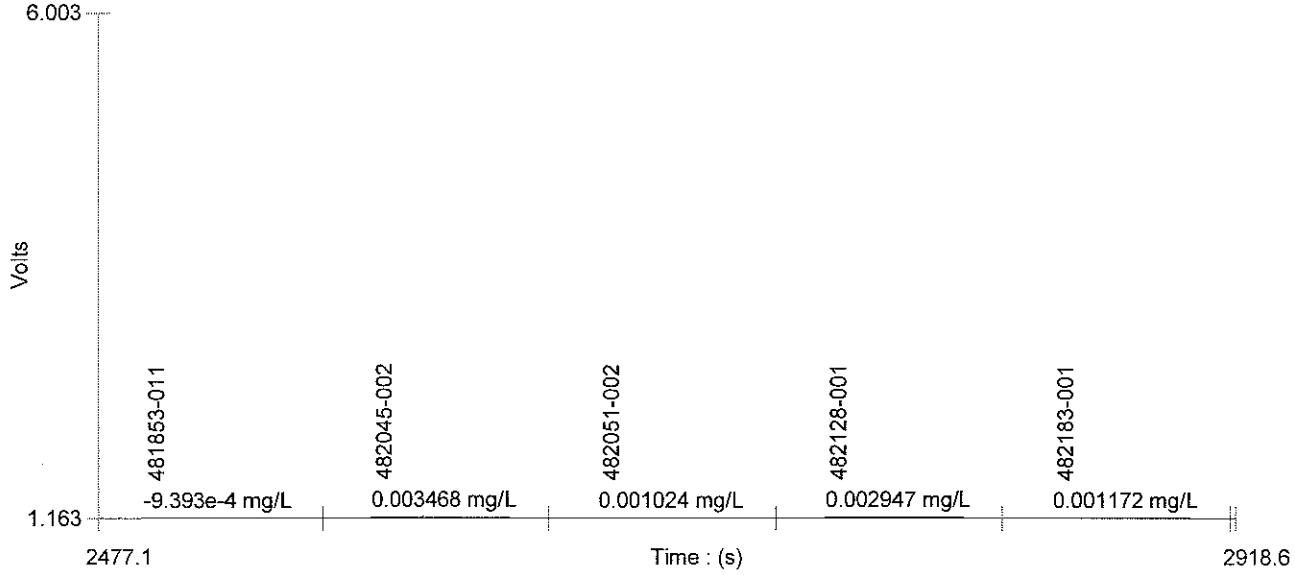


Author: a232 Date : 5/14/2014

Channel 1 (Cyanide) - Set: 5 / 9

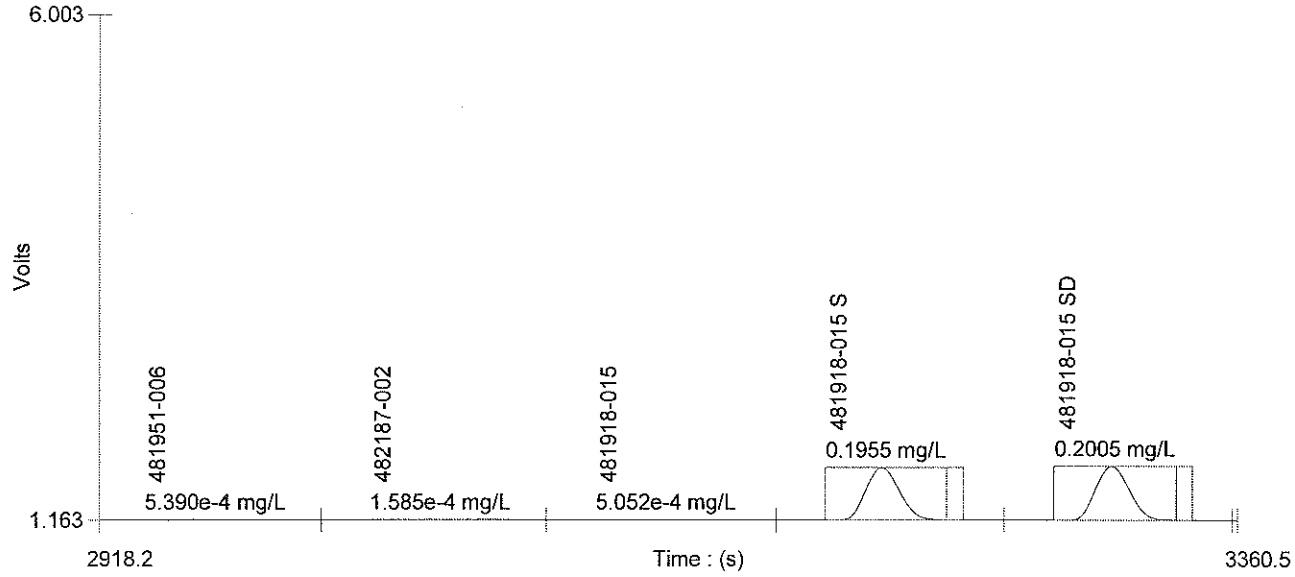


Channel 1 (Cyanide) - Set: 6 / 9

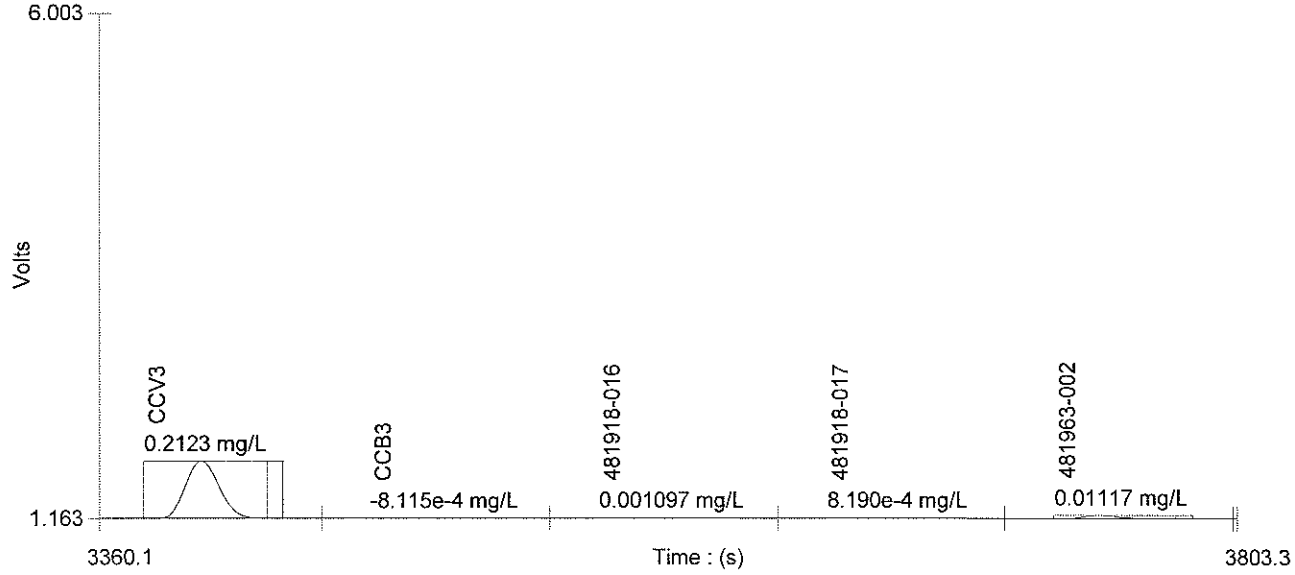


Author: a232 Date : 5/14/2014

Channel 1 (Cyanide) - Set: 7 / 9



Channel 1 (Cyanide) - Set: 8 / 9



Author: a232 Date : 5/14/2014

Channel 1 (Cyanide) - Set: 9 / 9

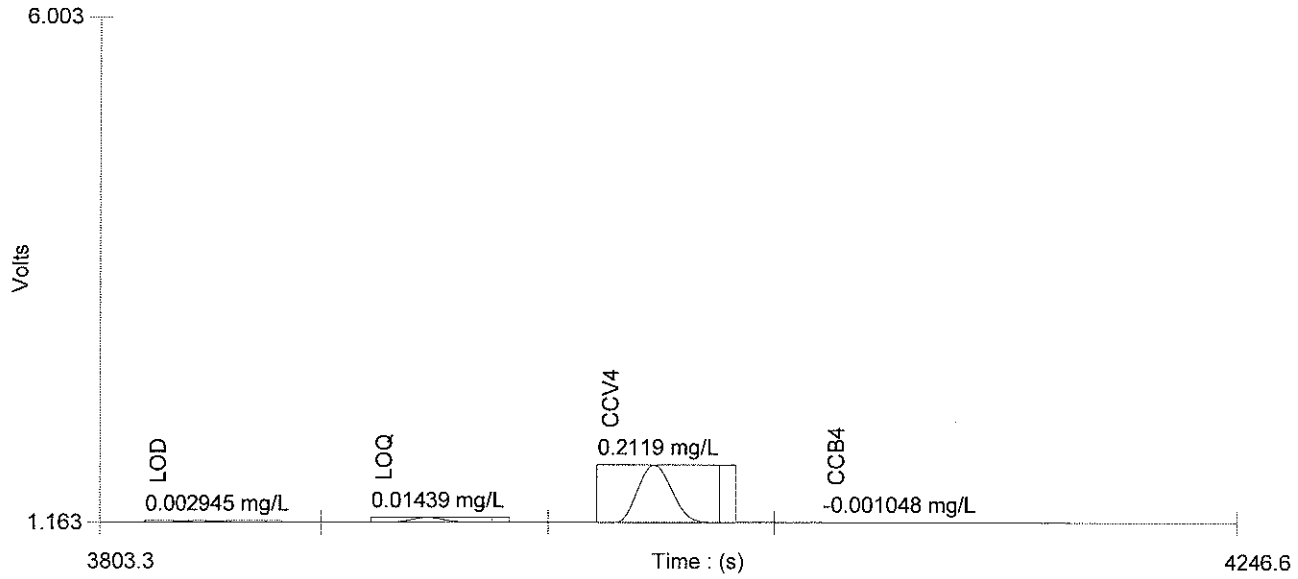
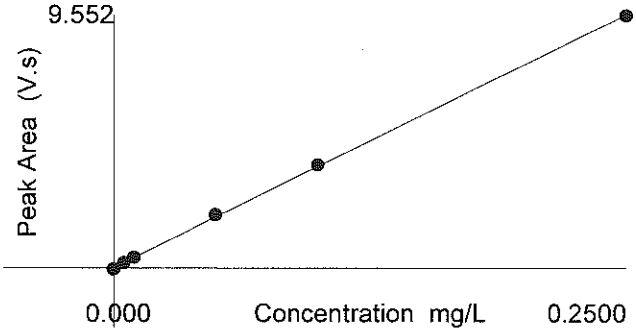


Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Tin
1	(0.5000)	(1)	(19.94)	(1.252)					
2	0.2500	1	9.552	0.6213	0.0	0.3	0.2491	3/27/2014	5:47:15 PM
3	0.1000	1	3.903	0.2589	0.0	-1.2	0.1012	3/27/2014	5:49:00 PM
4	0.05000	1	2.019	0.1355	0.0	-3.8	0.05192	3/27/2014	5:50:09 PM
5	0.01000	1	0.4172	0.02880	0.0	0.2	0.009993	3/27/2014	5:51:36 PM
6	0.005000	1	0.2082	0.01419	0.0	8.3	0.004521	3/27/2014	5:53:03 PM
7	0.000	1	-0.03169	0.001549			-0.001757	3/27/2014	5:54:29 PM

Figure : 1 (Cyanide)



Area = 38.20 * Conc + 0.03597
Conc = 0.02617 * Area - 9.277e-4
Correlation Coefficient (r) = 0.99990

Weighting : None