DATA PACKAGE FOR

VOLATILE ORGANICS

PROJECT NAME : CONNECTICUT SUPERFUND SITE

DEWBERRY

600 Parsippany Road
3rd Floor
Parsippany , NJ - 07054-3715
Phone No: 9737399400

CHEMTECH PROJECT N **Z4983**
ATTENTION: **Corey Nachshen**

Table of Contents for z4983(volatiles data)

VOLATILES DATA..... 7

VOLATILES QC DATA 8

VOLATILES SAMPLE DATA 28

VOLATILES CALIBRATION DATA.....142

VOLATILES RAW QC DATA.....347

VOLATILES MISCELLANEOUSDATA 401

SHIPPING AND RECEIVING DOCUMENTATION 427

END OF ANALYTICAL RESULTS.....431

CASE NARRATIVE

Dewberry
Project Name: Connecticut Superfund Site
Project # N/A
Chemtech Project # Z4983

A. Number of Samples and Date of Receipt:
10 Solid samples were received on 10/15/08.
2 Water samples were received on 10/15/08.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, Mercury, PCB Group1, PESTICIDE Group1, SVOCMS Group1, TAL ICP Metals, TAL Metals, and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA E were done using GC column RTX-VMS which is 60 meters, 0.25 ID, 1.40 df, Zebron. #ZB-624. The Trap was supplied by OI Analytical, OI #130107 Trap , OI Eclipse 4660 Concentrator.The analysis performed on instrument MSVOA I were done using GC column RTXVMS, which is 60 meters, 0.25 ID, 1.4 df, Restek Cat. #19916. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.
The analysis of VOCMS Group1.was based on method SOM01.2.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for VHBLK, A0C-1-1B[7.0-7.5], A0C-1-2A[0.0-0.5], A0C-1-2B[7.0-7.5], A0C-1-3B[7.0-7.5], DUP, A0C-1-1A[0.0-0.5], A0C-1-2A[0.0-0.5]RE, A0C-1-3A[0.0-0.5], DUPRE, A0C-1-2A[0.0-0.5]MS, A0C-1-2A[0.0-0.5]MSD and VBLK03.
The Internal Standards Areas met the acceptable requirements except for A0C-1-2A[0.0-0.5], DUP, A0C-1-2A[0.0-0.5]RE, DUPRE and A0C-1-2A[0.0-0.5]MSD.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank analysis did not indicate the presence of lab contamination.
The Tuning criteria met requirements.

E. Additional Comments:

The Initial Calibration dated 10/19/08 met the requirements except for Bromomethane and Trichloroethene. The % RSD of Bromomethane is 24.4%. The % RSD of Trichloroethene is 37.8 %.

As per method, the %RSD for 3 compounds can be more than 30 and less than 40. So, no corrective action was taken, but it is not present in the samples.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature___ Mildred V Reyes

Mildred V. Reyes
I am approving this document
2008.11.04 16:33:33 -05'00'

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Cover Page

Order ID : Z4983

Project ID : Connecticut Superfun

Customer Name : Dewberry

Lab Sample Number	Customer Sample Number
Z4983-01	A0C-1-1A[0.0-0.5]
Z4983-02	A0C-1-1B[7.0-7.5]
Z4983-03	A0C-1-2A[0.0-0.5]
Z4983-04	A0C-1-2B[7.0-7.5]
Z4983-05	A0C-1-3A[0.0-0.5]
Z4983-06	A0C-1-3B[7.0-7.5]
Z4983-07	Z4983-03MS
Z4983-08	Z4983-03MSD
Z4983-09	DUP
Z4983-10	TRIPBLANK
Z4983-11	VHBLK
Z4983-12	VHBLK

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : Mildred V Reyes

Mildred V. Reyes
I am approving this document
2008.11.04 16:34:08 -05'00'

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.

CHEMTECH

VOLATILES

DATA

CHEMTECH

VOLATILES
QC
DATA

2A - FORM II VOA-1
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref. No.: Z4983 SDG No.: Z4983

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	VBLK01	97	121	89	100	114	118	105
02	TRIPBLANK	96	124	90	91	108	113	94
03	VHBLK	94	119	89	91	96	112	94

	QC LIMITS
VDMC1 (VCL) = Vinyl Chloride-d3	(65-131)
VDMC2 (CLA) = Chloroethane-d5	(71-131)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(55-104)
VDMC4 (BUT) = 2-Butanone-d5	(49-155)
VDMC5 (CLF) = Chloroform-d	(78-121)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC7 (BEN) = Benzene-d6	(77-124)

Column to be used to flag recovery values
* Values outside of contract required QC Limits

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref. No.: Z4983 SDG No.: Z4983

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	VBLK01	94	104	99	98	54	99	110	0
02	TRIPBLANK	83	92	81	90	57	92	104	0
03	VHBLK	85	93	81	89	57	69 *	102	1

	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(79-124)
VDMC9 (TOL) = Toluene-d8	(77-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(73-121)
VDMC11 (HEX) = 2-Hexanone-d5	(28-135)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(80-131)

Report 1,4 -Dioxane-d8 for Low-Medium VOA analysis only

Column to be used to flag recovery values

* Values outside of contract required QC Limits

2C - FORM II VOA-3
SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref. No.: Z4983 SDG No.: Z4983

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	VBLK02	102	124	86	130	96	115	109
02	A0C-1-1B[7.0-7.5]	102	181*	103	95	100	133 *	98
03	A0C-1-2A[0.0-0.5]	100	195*	114	70	114	133 *	113
04	A0C-1-2B[7.0-7.5]	114	181*	114	89	108	119	114
05	A0C-1-3B[7.0-7.5]	119	207*	128	95	115	135 *	106
06	DUP	110	197*	120	55	115	150 *	109
07	VBLK03	117	122	87	113	102	123 *	112
08	A0C-1-1A[0.0-0.5]	107	143*	95	97	105	132 *	114
09	A0C-1-2A[0.0-0.5]RE	103	139*	100	122	106	136 *	107
10	A0C-1-3A[0.0-0.5]	107	136*	92	106	103	137 *	108
11	DUPRE	111	149*	98	99	108	140 *	112
12	A0C-1-2A[0.0-0.5]MS	103	113	112	115	102	140 *	106
13	A0C-1-2A[0.0-0.5]MSD	118	129	124	102	105	137 *	113
14	VHBLK	112	142*	96	121	105	136 *	100

	QC LIMITS
VDMC1 (VCL) = Vinyl Chloride-d3	(68-122)
VDMC2 (CLA) = Chloroethane-d5	(61-130)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(45-132)
VDMC4 (BUT) = 2-Butanone-d5	(20-182)
VDMC5 (CLF) = Chloroform-d	(72-123)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(79-122)
VDMC7 (BEN) = Benzene-d6	(80-121)

Column to be used to flag recovery values
* Values outside of contract required QC Limits

2D - FORM II VOA-4
SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref. No.: Z4983 SDG No.: Z4983

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	VBLK02	116	103	106	118	79	108	107	0
02	A0C-1-1B[7.0-7	97	96	99	102	59	96	105	2
03	A0C-1-2A[0.0-0	122	99	98	83	60	104	107	2
04	A0C-1-2B[7.0-7	106	106	108	98	45 *	90	102	2
05	A0C-1-3B[7.0-7	98	94	96	85	59	94	96	2
06	DUP	112	88	82	53	87	111	103	2
07	VBLK03	122	104	120	109	86	103	99	1
08	A0C-1-1A[0.0-0	126 *	111	124	101	83	106	104	3
09	A0C-1-2A[0.0-0	126 *	113	126	118	90	109	109	3
10	A0C-1-3A[0.0-0	127 *	111	121	106	83	110	106	3
11	DUPRE	132 *	110	132 *	115	88	114	105	4
12	A0C-1-2A[0.0-0	127 *	113	125	119	102	117	104	2
13	A0C-1-2A[0.0-0	124	113	132 *	110	95	115	102	2
14	VHBLK	116	104	120	110	85	109	100	2

	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(74-124)
VDMC9 (TOL) = Toluene-d8	(78-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(72-130)
VDMC11 (HEX) = 2-Hexanone-d5	(17-184)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(56-161)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(70-131)

Report 1,4 -Dioxane-d8 for Low-Medium VOA analysis only

Column to be used to flag recovery values

* Values outside of contract required QC Limits

3B - FORM III VOA-2

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix Spike - EPA Sample No: A0C-1-2A[0.0 Level: (TRACE or LOW/MED) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC#	QC LIMITS REC
1,1-Dichloroethene	54	0	53	98	(59-172)
Benzene	54	0	58	107	(66-142)
Trichloroethene	54	0	45	83	(62-137)
Toluene	54	0	53	98	(59-139)
Chlorobenzene	54	0	55	102	(60-133)

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	MSD % RPD #	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	54	60	111	12	22	(59-172)
Benzene	54	61	113	5	21	(66-142)
Trichloroethene	54	46	85	2	24	(62-137)
Toluene	54	55	102	4	21	(59-139)
Chlorobenzene	54	58	107	5	21	(60-133)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

Comments:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK01

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Lab File ID: VE010474.D Lab Sample ID: VBE1017W2

Instrument ID: MSVOAE

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 10/17/2008

Level: (TRACE or LOW/MED) LOW Time Analyzed: 12:04

GC Column: ZB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TRIPBLANK	Z4983-10	VE010479.D	14:54
02	VHBLK	Z4983-12	VE010482.D	16:35

COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK02

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Lab File ID: VI022304.D Lab Sample ID: VBI1019S2

Instrument ID: MSVOAI

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 10/19/2008

Level: (TRACE or LOW/MED) LOW Time Analyzed: 14:38

GC Column: RTX-VMS ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
03	A0C-1-1B[7.0-7.5]	Z4983-02	VI022314.D	18:48
04	A0C-1-2A[0.0-0.5]	Z4983-03	VI022315.D	19:13
05	A0C-1-2B[7.0-7.5]	Z4983-04	VI022316.D	19:38
06	A0C-1-3B[7.0-7.5]	Z4983-06	VI022318.D	20:27
07	DUP	Z4983-09	VI022319.D	20:51

COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK03

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Lab File ID: VI022327.D Lab Sample ID: VBI1020S1

Instrument ID: MSVOAI

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 10/20/2008

Level: (TRACE or LOW/MED) LOW Time Analyzed: 11:30

GC Column: RTX-VMS ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
08	A0C-1-1A[0.0-0.5]	Z4983-01	VI022330.D	13:01
09	A0C-1-2A[0.0-0.5]RE	Z4983-03RE	VI022331.D	13:25
10	A0C-1-3A[0.0-0.5]	Z4983-05	VI022332.D	13:51
11	DUPRE	Z4983-09RE	VI022333.D	14:16
12	A0C-1-2A[0.0-0.5]MS	Z4983-07MS	VI022334.D	14:41
13	A0C-1-2A[0.0-0.5]MSD	Z4983-08MSD	VI022335.D	15:05
14	VHBLK	Z4983-11	VI022336.D	15:44

COMMENTS:

5A - FORM V VOA

VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

TUNE

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Lab File ID: VE010439.D BFB Injection Date: 10/16/2008

Instrument ID: MSVOAE BFB Injection Time: 11:46

GC Column: ZB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.8
75	30.0 - 80.0% of mass 95	44.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.4(0.6) 1
174	50.0 - 120% of mass 95	78.0
175	5.0 - 9.0% of mass 174	5.0 (6.4) 1
176	95.0 - 101% of mass 174	74.8 (95.8) 1
177	5.0 - 9.0% of mass 176	4.7 (6.3) 2

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	10 PPB ICC	VE010442.D	10/16/2008	13:58
02	VSTD050	50 PPB ICC	VE010443.D	10/16/2008	14:32
03	VSTD100	100 PPB ICC	VE010444.D	10/16/2008	15:06
04	VSTD200	200 PPB ICC	VE010445.D	10/16/2008	15:40
05	VSTD005	5 PPB ICC	VE010448.D	10/16/2008	18:14

5A - FORM V VOA

VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

TUNE

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Lab File ID: VE010471.D BFB Injection Date: 10/17/2008

Instrument ID: MSVOAE BFB Injection Time: 09:59

GC Column: ZB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.7
75	30.0 - 80.0% of mass 95	45.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.1(0.2) 1
174	50.0 - 120% of mass 95	78.1
175	5.0 - 9.0% of mass 174	5.9 (7.6) 1
176	95.0 - 101% of mass 174	77.8 (99.6) 1
177	5.0 - 9.0% of mass 176	5.3 (6.8) 2

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	50 PPB CCC	VE010472.D	10/17/2008	10:42
02	VBLK01	VBE1017W2	VE010474.D	10/17/2008	12:04
03	TRIPBLANK	Z4983-10	VE010479.D	10/17/2008	14:54
04	VHBLK	Z4983-12	VE010482.D	10/17/2008	16:35
05	VSTD050	50 PPB CCV	VE010483.D	10/17/2008	17:32

5A - FORM V VOA

VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

TUNE

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Lab File ID: VI022296.D BFB Injection Date: 10/19/2008

Instrument ID: MSVOAI BFB Injection Time: 10:34

GC Column: RTX-VMS ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.1
75	30.0 - 80.0% of mass 95	54.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.1(0.1) 1
174	50.0 - 120% of mass 95	78.7
175	5.0 - 9.0% of mass 174	5.8 (7.4) 1
176	95.0 - 101% of mass 174	78.0 (99.2) 1
177	5.0 - 9.0% of mass 176	4.6 (5.9) 2

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD2.50	2.5 PPB CCC	VI022298.D	10/19/2008	12:10
02	VSTD005	5 PPB CCC	VI022299.D	10/19/2008	12:35
03	VSTD025	25 PPB CCC	VI022300.D	10/19/2008	13:00
04	VSTD050	50 PPB CCC	VI022301.D	10/19/2008	13:24
05	VSTD100	100 PPB CCC	VI022302.D	10/19/2008	13:49
06	VBLK02	VBI1019S2	VI022304.D	10/19/2008	14:38
07	A0C-1-1B[7.0-7.5]	Z4983-02	VI022314.D	10/19/2008	18:48
08	A0C-1-2A[0.0-0.5]	Z4983-03	VI022315.D	10/19/2008	19:13
09	A0C-1-2B[7.0-7.5]	Z4983-04	VI022316.D	10/19/2008	19:38
10	A0C-1-3B[7.0-7.5]	Z4983-06	VI022318.D	10/19/2008	20:27
11	DUP	Z4983-09	VI022319.D	10/19/2008	20:51
12	VSTD020	25 PPB CCC	VI022320.D	10/19/2008	21:16

5A - FORM V VOA

VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

TUNE

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Lab File ID: VI022325.D BFB Injection Date: 10/20/2008

Instrument ID: MSVOAI BFB Injection Time: 09:56

GC Column: RTX-VMS ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.1
75	30.0 - 80.0% of mass 95	56.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.0
173	Less than 2.0% of mass 174	0.3(0.3) 1
174	50.0 - 120% of mass 95	82.5
175	5.0 - 9.0% of mass 174	5.5 (6.7) 1
176	95.0 - 101% of mass 174	80.4 (97.4) 1
177	5.0 - 9.0% of mass 176	5.9 (7.4) 2

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD020	25 PPB CCC	VI022326.D	10/20/2008	10:42
02	VBLK03	VBI1020S1	VI022327.D	10/20/2008	11:30
03	A0C-1-1A[0.0-0.5]	Z4983-01	VI022330.D	10/20/2008	13:01
04	A0C-1-2A[0.0-0.5]RE	Z4983-03RE	VI022331.D	10/20/2008	13:25
05	A0C-1-3A[0.0-0.5]	Z4983-05	VI022332.D	10/20/2008	13:51
06	DUPRE	Z4983-09RE	VI022333.D	10/20/2008	14:16
07	A0C-1-2A[0.0-0.5]MS	Z4983-07MS	VI022334.D	10/20/2008	14:41
08	A0C-1-2A[0.0-0.5]MSD	Z4983-08MSD	VI022335.D	10/20/2008	15:05
09	VHBLK	Z4983-11	VI022336.D	10/20/2008	15:44
10	VSTD020	25 PPB CCC	VI022337.D	10/20/2008	16:21

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

GC Column: RTX-VMS ID: 0.25 (mm) Init. Calib. Date(s): 10/16/2008 10/16/2008

EPA Sample No. (VSTD#####): VSTD025 Date Analyzed: 10/19/2008

Lab File ID (Standard): VI022300.D Time Analyzed: 13:00

Instrument ID: MSVOAI Heated Purge: (Y/N) Y

	IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	475104	11.67	448130	8.78	274802	13.98
UPPER LIMIT	950208	12.17	896260	9.28	549604	14.48
LOWER LIMIT	237552	11.17	224065	8.28	137401	13.48
EPA SAMPLE NO.						
VBLK02	519632	11.67	488941	8.78	257592	13.98
A0C-1-1B[7.0-7.5]	375512	11.68	331889	8.78	180983	13.98
A0C-1-2A[0.0-0.5]	319106	11.68	312751	8.78	133559 *	13.98
A0C-1-2B[7.0-7.5]	388467	11.68	357072	8.79	198276	13.98
A0C-1-3B[7.0-7.5]	361723	11.68	297102	8.79	190140	13.98
DUP	276422	11.68	256348	8.79	119260 *	13.99

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

GC Column: RTX-VMS ID: 0.25 (mm) Init. Calib. Date(s): 10/16/2008 10/16/2008

EPA Sample No. (VSTD#####): VSTD020 Date Analyzed: 10/19/2008

Lab File ID (Standard): VI022320.D Time Analyzed: 21:16

Instrument ID: MSVOAI Heated Purge: (Y/N) Y

	IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	403375	11.68	332700	8.79	230431	13.98
UPPER LIMIT	806750	12.18	665400	9.29	460862	14.48
LOWER LIMIT	201688	11.18	166350	8.29	115216	13.48
EPA SAMPLE NO.						

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

GC Column: RTX-VMS ID: 0.25 (mm) Init. Calib. Date(s): 10/16/2008 10/16/2008

EPA Sample No. (VSTD#####): VSTD020 Date Analyzed: 10/20/2008

Lab File ID (Standard): VI022326.D Time Analyzed: 10:42

Instrument ID: MSVOAI Heated Purge: (Y/N) Y

	IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	729003	11.68	745109	8.78	407567	13.98
UPPER LIMIT	1458006	12.18	1490218	9.28	815134	14.48
LOWER LIMIT	364502	11.18	372555	8.28	203784	13.48
EPA SAMPLE NO.						
VBLK03	739763	11.68	707834	8.78	358882	13.98
A0C-1-1A[0.0-0.5]	549178	11.68	553111	8.79	227487	13.99
A0C-1-2A[0.0-0.5]RE	479051	11.68	470109	8.79	200998 *	13.99
A0C-1-3A[0.0-0.5]	497185	11.69	495551	8.79	203965	13.99
DUPRE	449725	11.69	453601	8.79	184114 *	14.00
A0C-1-2A[0.0-0.5]MS	477528	11.68	480248	8.79	205395	13.99
A0C-1-2A[0.0-0.5]MS	459867	11.68	458545	8.79	199162 *	13.99
VHBLK	561999	11.68	512701	8.79	273938	14.00

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

GC Column: RTX-VMS ID: 0.25 (mm) Init. Calib. Date(s): 10/16/2008 10/16/2008

EPA Sample No. (VSTD#####): VSTD020 Date Analyzed: 10/20/2008

Lab File ID (Standard): VI022337.D Time Analyzed: 16:21

Instrument ID: MSVOAI Heated Purge: (Y/N) Y

	IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	588959	11.69	533763	8.79	344421	14.00
UPPER LIMIT	1177918	12.19	1067526	9.29	688842	14.50
LOWER LIMIT	294480	11.19	266882	8.29	172211	13.50
EPA SAMPLE NO.						

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

GC Column: ZB-624 ID: 0.25 (mm) Init. Calib. Date(s): 10/16/2008 10/16/2008

EPA Sample No. (VSTD#####): VSTD050 Date Analyzed: 10/17/2008

Lab File ID (Standard): VE010472.D Time Analyzed: 10:42

Instrument ID: MSVOAE Heated Purge: (Y/N) N

	IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	1122049	14.89	1029292	10.48	653066	18.71
UPPER LIMIT	2244098	15.39	2058584	10.98	1306132	19.21
LOWER LIMIT	561025	14.39	514646	9.98	326533	18.21
EPA SAMPLE NO.						
VBLK01	770294	14.90	700502	10.49	414367	18.70
TRIPBLANK	1005675	14.91	880237	10.49	506106	18.71
VHBLK	910365	14.91	803448	10.49	482940	18.71

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

GC Column: ZB-624 ID: 0.25 (mm) Init. Calib. Date(s): 10/16/2008 10/16/2008

EPA Sample No. (VSTD#####): VSTD050 Date Analyzed: 10/17/2008

Lab File ID (Standard): VE010483.D Time Analyzed: 17:32

Instrument ID: MSVOAE Heated Purge: (Y/N) N

	IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	1033612	14.90	939374	10.48	603333	18.71
UPPER LIMIT	2067224	15.40	1878748	10.98	1206666	19.21
LOWER LIMIT	516806	14.40	469687	9.98	301667	18.21
EPA SAMPLE NO.						

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

GC Column: ZB-624 ID: 0.25 (mm) Init. Calib. Date(s): 10/16/2008 10/16/2008

EPA Sample No. (VSTD#####): VSTD050 Date Analyzed: 10/16/2008

Lab File ID (Standard): VE010443.D Time Analyzed: 14:32

Instrument ID: MSVOAE Heated Purge: (Y/N) N

	IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	1029373	14.92	935659	10.50	553240	18.73
UPPER LIMIT	2058746	15.42	1871318	11.00	1106480	19.23
LOWER LIMIT	514687	14.42	467830	10.00	276620	18.23
EPA SAMPLE NO.						

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

CHEMTECH

VOLATILES SAMPLE DATA

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A0C-1-1A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-01

Sample wt/vol: 5.02 (g/mL) g Lab File ID: VI022330.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 9 Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl Chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
67-64-1	Acetone	11	U
75-15-0	Carbon disulfide	5.5	U
79-20-9	Methyl acetate	5.5	U
75-09-2	Methylene chloride	5.5	U
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-Butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
110-82-7	Cyclohexane	5.5	U
56-23-5	Carbon Tetrachloride	5.5	U
71-43-2	Benzene	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
123-91-1	1,4-Dioxane	110	U

Report 1,4 -Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A0C-1-1A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-01

Sample wt/vol: 5.02 (g/mL) g Lab File ID: VI022330.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 9 Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
79-01-6	Trichloroethene	5.5	U
108-87-2	Methylcyclohexane	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
100-41-4	Ethylbenzene	5.5	U
95-47-6	o-Xylene	5.5	U
179601-23-1	m,p-Xylene	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A0C-1-1A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4983-01

Sample wt/vol: 5.02 (g/mL) g Lab File ID: VI022330.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/15/2008

% Moisture: not dec. 9.0 Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg Purge Volume: 10 (mL)

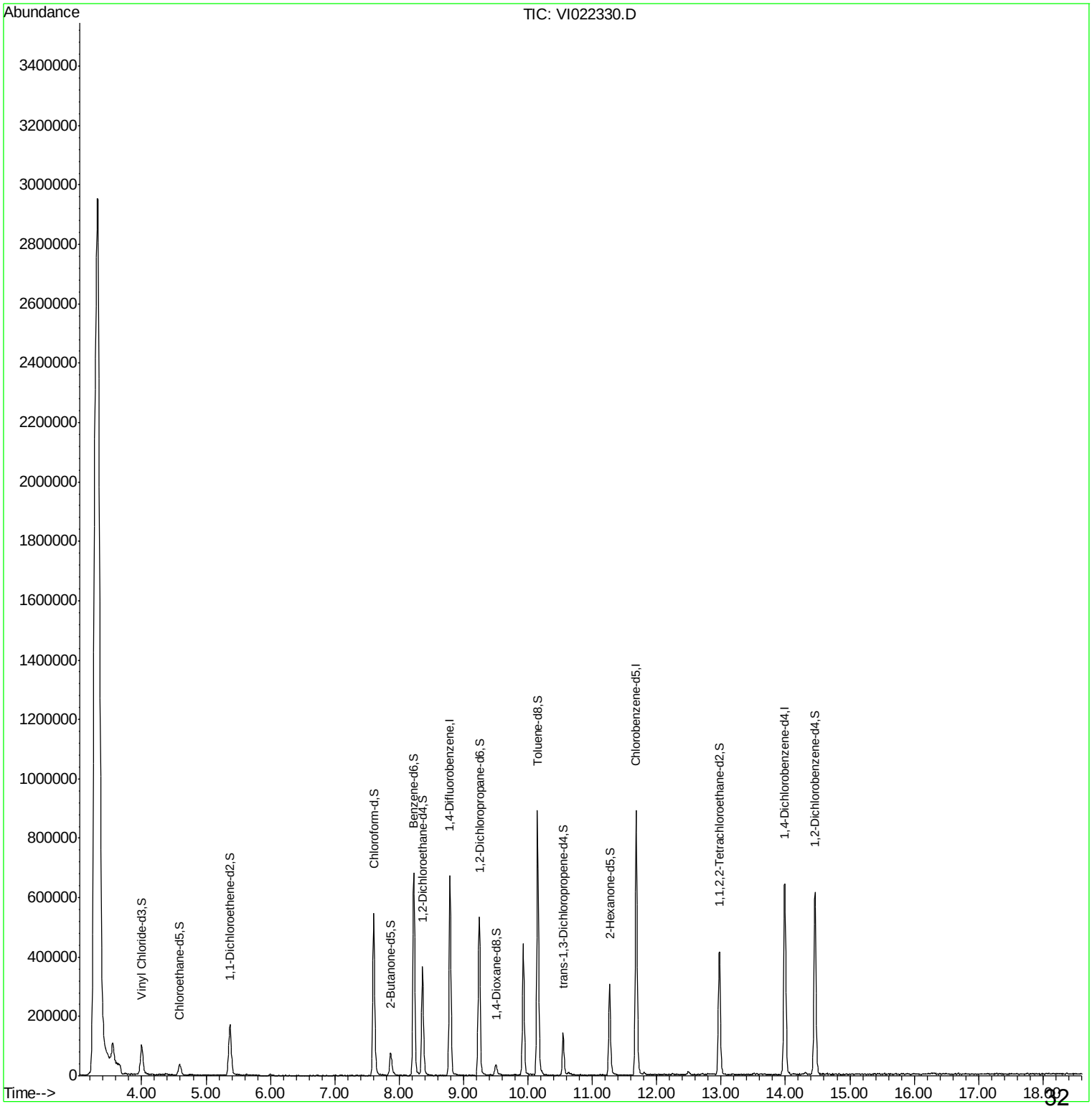
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	000075-37-6	Ethane, 1,1-difluoro-	3.56	8.1	JN
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[1]E966796	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022330.D
Acq On : 20 Oct 2008 13:01
Operator : MS
Sample : Z4983-01
Misc : 5.02g/5mL/10mL purge,MSVOAI
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 13:30:13 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022330.D
Acq On : 20 Oct 2008 13:01
Operator : MS
Sample : Z4983-01
Misc : 5.02g/5mL/10mL purge,MSVOAI
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 13:30:13 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	8.79	114	553111	50.00 ug/L	0.00
30) Chlorobenzene-d5	11.68	117	549178	50.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	13.99	152	227487	50.00 ug/L	0.01
System Monitoring Compounds					
4) Vinyl Chloride-d3	4.00	65	179242	53.26 ug/L	0.00
7) Chloroethane-d5	4.59	69	56122	71.49 ug/L	0.00
10) 1,1-Dichloroethene-d2	5.37	63	180725	47.59 ug/L	0.00
22) Chloroform-d	7.60	84	533679	52.40 ug/L	0.00
24) 2-Butanone-d5	7.87	46	116303	97.25 ug/L	0.00
26) 1,2-Dichloroethane-d4	8.37	65	354104	66.22 ug/L	0.01
28) 1,4-Dioxane-d8	9.50	96	34470	1034.21 ug/L	0.00
34) Benzene-d6	8.23	84	672155	57.18 ug/L	0.00
38) 1,2-Dichloropropane-d6	9.24	67	237833	63.21 ug/L	0.00
42) Toluene-d8	10.15	98	635400	55.45 ug/L	0.00
45) trans-1,3-Dichloropropene-	10.55	79	100614	61.87 ug/L	0.01
51) 2-Hexanone-d5	11.26	63	134653	100.93 ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	12.98	84	287560	52.90 ug/L	0.01
65) 1,2-Dichlorobenzene-d4	14.47	152	221862	51.75 ug/L	0.01

Target Compounds Qvalue

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

LSC Area Percent Report

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022330.D
Acq On : 20 Oct 2008 13:01
Operator : MS
Sample : Z4983-01
Misc : 5.02g/5mL/10mL purge,MSVOAI
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.313	27	46	77	rBV	2946069	17136502	100.00%	50.455%
2	3.556	79	86	94	rVB3	71120	207985	1.21%	0.612%
3	3.999	148	159	169	rBV2	100718	281120	1.64%	0.828%
4	5.371	374	384	397	rBV2	170738	474720	2.77%	1.398%
5	7.605	740	749	764	rBV	548433	1246662	7.27%	3.671%
6	7.866	782	791	805	rBV	76426	214389	1.25%	0.631%
7	8.227	841	850	859	rBV	682064	1461757	8.53%	4.304%
8	8.361	864	872	883	rVV2	361757	791635	4.62%	2.331%
9	8.786	929	940	951	rBV	674286	1409529	8.23%	4.150%
10	9.245	1001	1011	1019	rBV	535453	1160466	6.77%	3.417%
11	9.927	1116	1123	1134	rBV	442715	907009	5.29%	2.670%
12	10.149	1152	1159	1171	rBV	890321	1839023	10.73%	5.415%
13	10.548	1212	1224	1231	rBV	145073	290585	1.70%	0.856%
14	11.270	1331	1339	1352	rBV	308737	668398	3.90%	1.968%
15	11.683	1396	1406	1416	rBV	891615	1878801	10.96%	5.532%
16	12.975	1606	1616	1627	rBV	415384	960124	5.60%	2.827%
17	13.992	1771	1782	1798	rVB	644366	1523158	8.89%	4.485%
18	14.461	1847	1858	1870	rVB2	615015	1512194	8.82%	4.452%

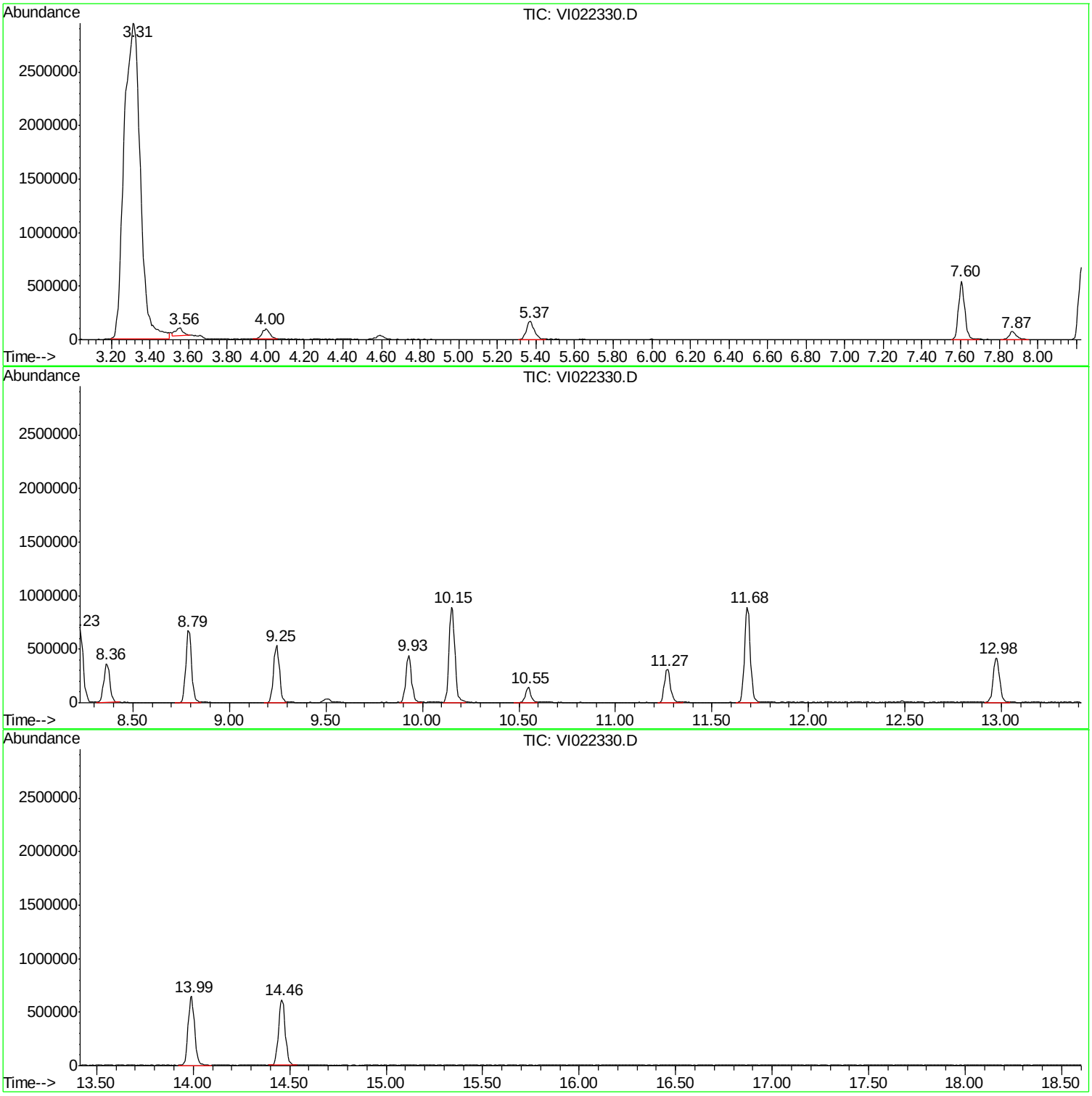
Sum of corrected areas: 33964057

LSC Report - Integrated Chromatogram

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022330.D
Acq On : 20 Oct 2008 13:01
Operator : MS
Sample : Z4983-01
Misc : 5.02g/5mL/10mL purge,MSVOAI
ALS Vial : 6 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022330.D
Acq On : 20 Oct 2008 13:01
Operator : MS
Sample : Z4983-01
Misc : 5.02g/5mL/10mL purge,MSVOAI
ALS Vial : 6 Sample Multiplier: 1

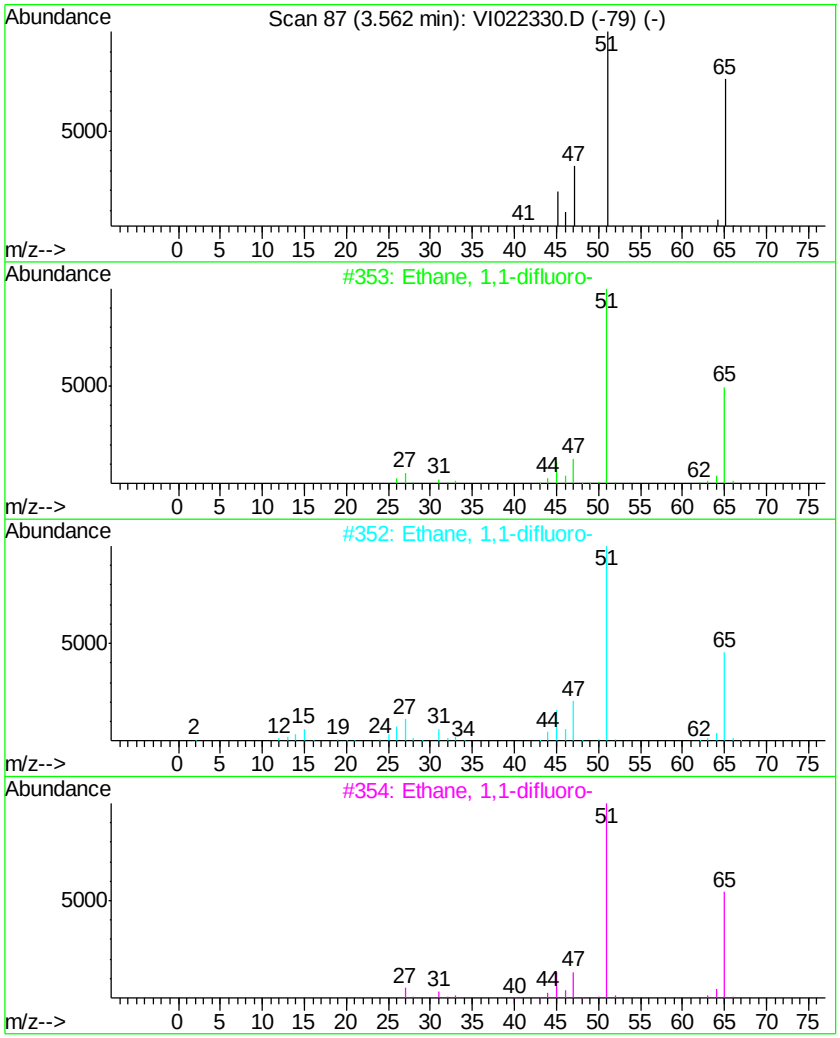
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

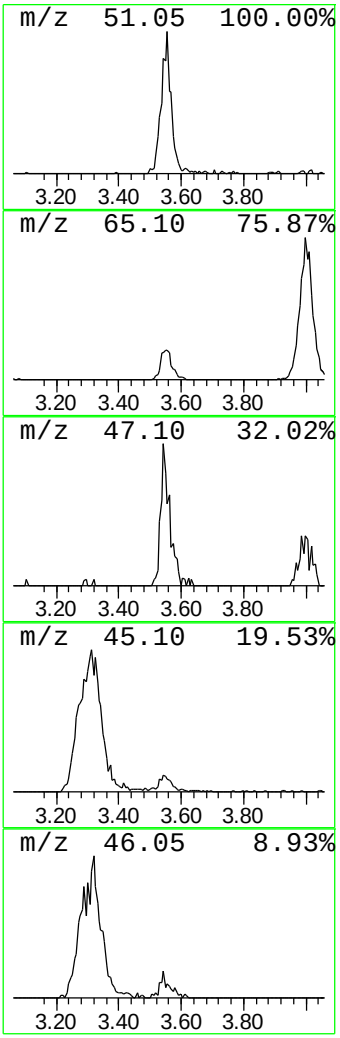
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Ethane, 1,1-difluoro- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.56	7.38 ug/L	207985	1,4-Difluorobenzene	8.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	90
2	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	90
3	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	83
4	Propiolonitrile	51	C3HN	001070-71-9	3
5	Acetyl chloride	78	C2H3ClO	000075-36-5	1





Tentatively Identified Compound (LSC) summary

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022330.D
Acq On : 20 Oct 2008 13:01
Operator : MS
Sample : Z4983-01
Misc : 5.02g/5mL/10mL purge,MSVOAI
ALS Vial : 6 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethane, 1,1-diflu...	3.56	7.4	ug/L	207985	1	8.79	1409530	50.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A0C-1-1B[7.0-7.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-02

Sample wt/vol: 5.03 (g/mL) g Lab File ID: VI022314.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 14 Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	5.8	U
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl Chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U
67-64-1	Acetone	12	U
75-15-0	Carbon disulfide	5.8	U
79-20-9	Methyl acetate	5.8	U
75-09-2	Methylene chloride	5.8	U
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-Butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
156-59-2	cis-1,2-Dichloroethene	5.8	U
78-93-3	2-Butanone	12	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
110-82-7	Cyclohexane	5.8	U
56-23-5	Carbon Tetrachloride	5.8	U
71-43-2	Benzene	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
123-91-1	1,4-Dioxane	120	U

Report 1,4 -Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A0C-1-1B[7.0-7.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-02

Sample wt/vol: 5.03 (g/mL) g Lab File ID: VI022314.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 14 Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
79-01-6	Trichloroethene	5.8	U
108-87-2	Methylcyclohexane	5.8	U
78-87-5	1,2-Dichloropropane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	5.8	U
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
100-41-4	Ethylbenzene	5.8	U
95-47-6	o-Xylene	5.8	U
179601-23-1	m,p-Xylene	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A0C-1-1B[7.0-7.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4983-02

Sample wt/vol: 5.03 (g/mL) g Lab File ID: VI022314.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/15/2008

% Moisture: not dec. 14 Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg Purge Volume: 10 (mL)

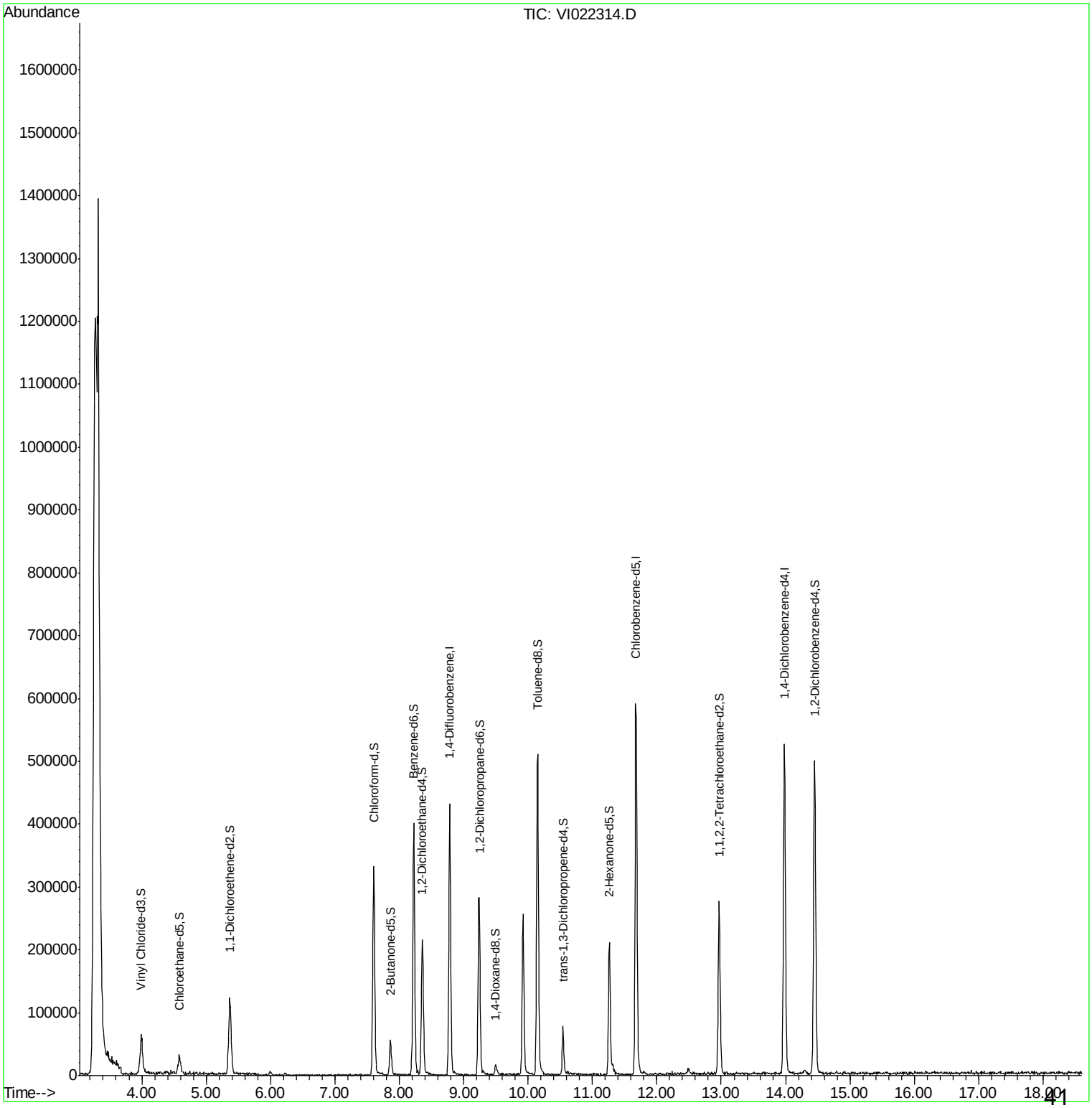
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.					
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[1]E966796	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022314.D
Acq On : 19 Oct 2008 18:48
Operator : MS
Sample : Z4983-02
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 19 Sample Multiplier: 1

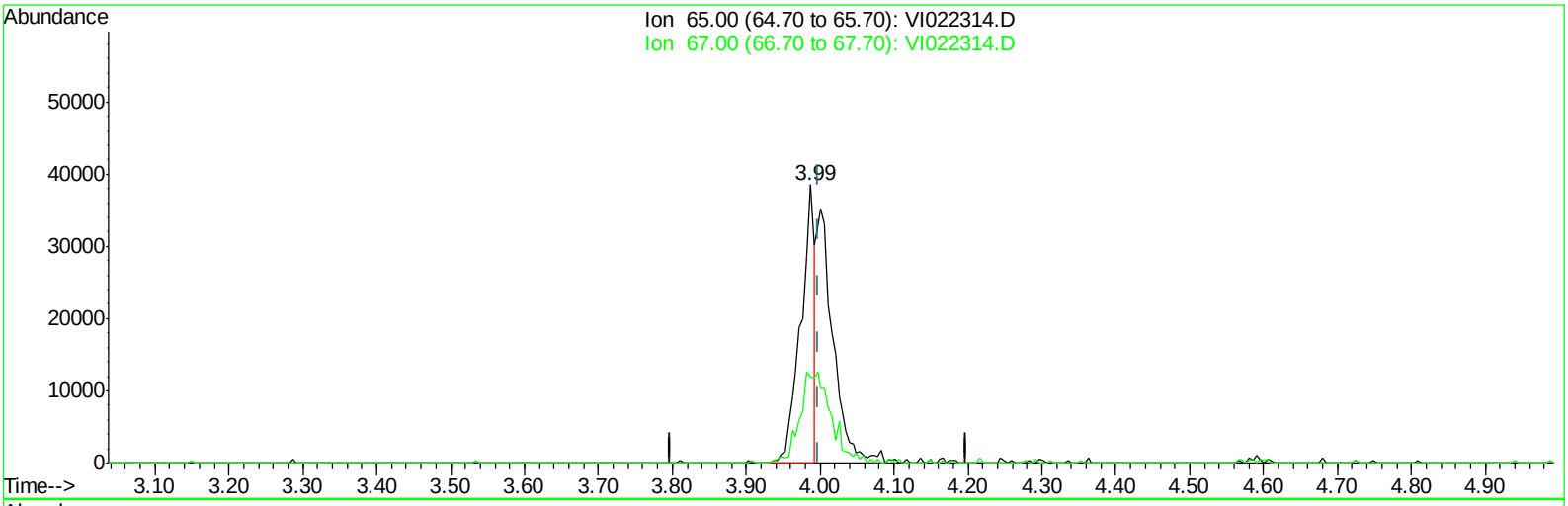
Quant Time: Oct 20 11:43:19 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

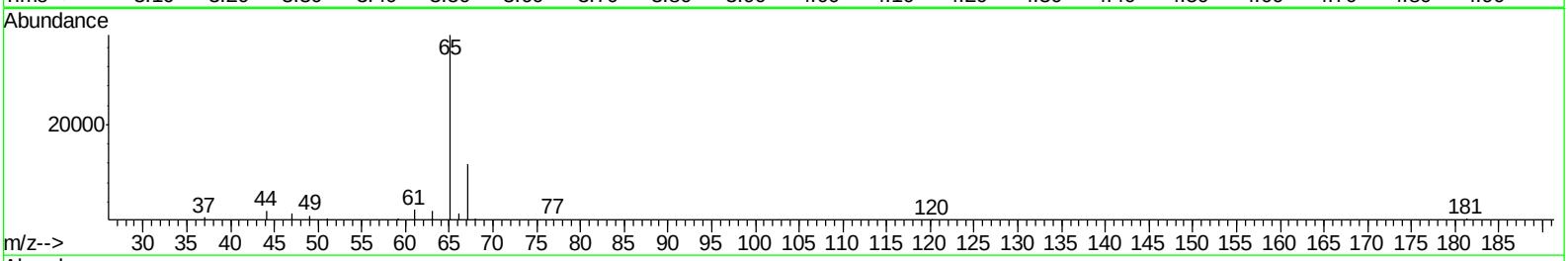


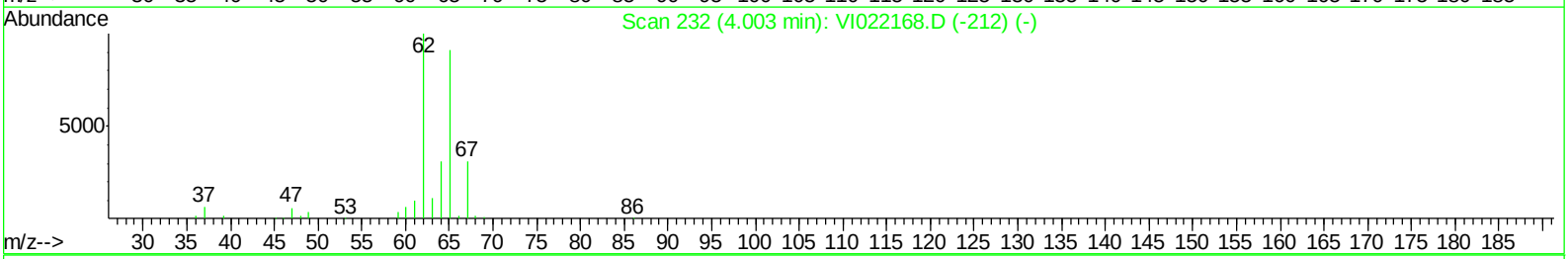
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022314.D
Acq On : 19 Oct 2008 18:48
Operator : MS
Sample : Z4983-02
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 20 11:42:13 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022314.D

(4) Vinyl Chloride-d3 (S)

3.986min (-0.011) 24.18ug/L

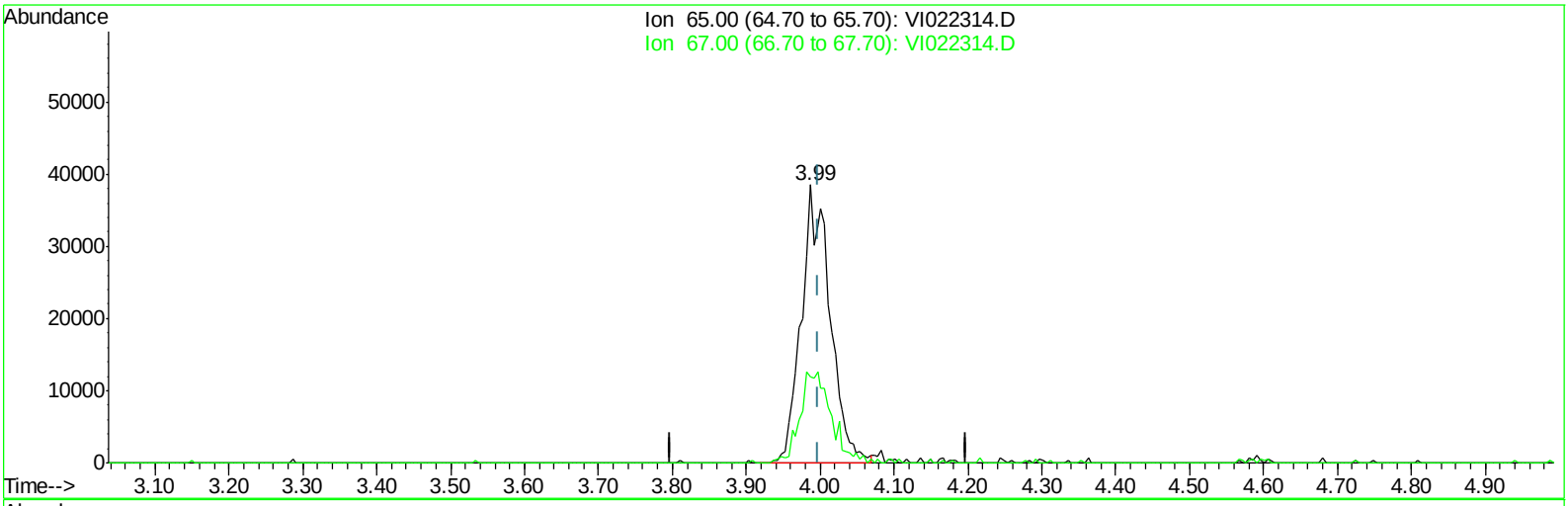
response 48837

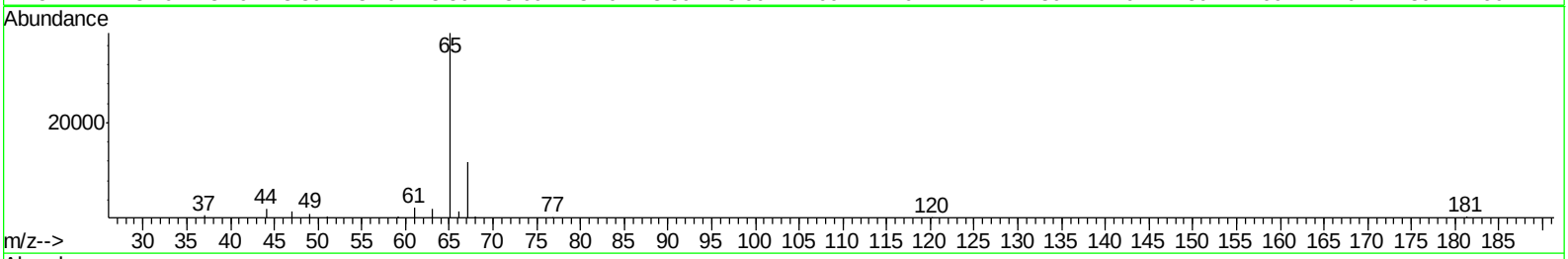
Ion	Exp%	Act%
65.00	100	100
67.00	31.10	75.52#
0.00	0.00	0.00
0.00	0.00	0.00

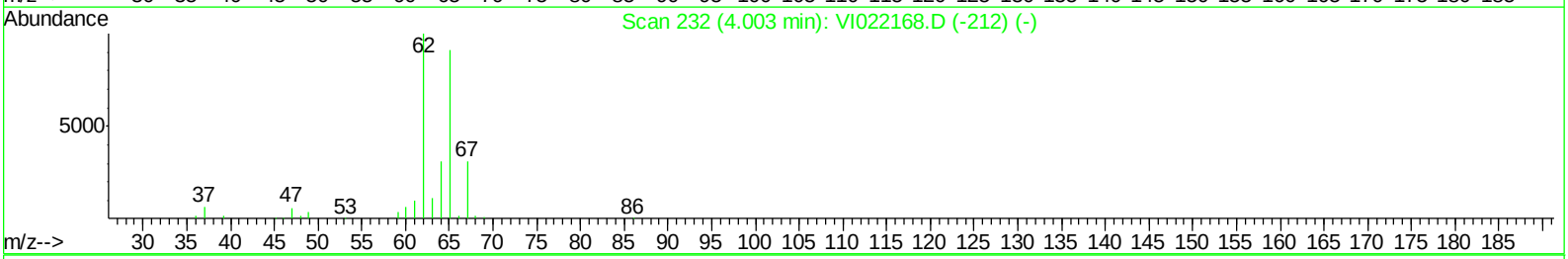
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022314.D
Acq On : 19 Oct 2008 18:48
Operator : MS
Sample : Z4983-02
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 20 11:42:13 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022314.D

(4) Vinyl Chloride-d3 (S)

3.986min (-0.011) 51.12ug/L m

response 103225

Ion	Exp%	Act%
65.00	100	100
67.00	31.10	35.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022314.D
Acq On : 19 Oct 2008 18:48
Operator : MS
Sample : Z4983-02
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 20 11:43:19 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.78	114	331889	50.00	ug/L	0.00
30) Chlorobenzene-d5	11.68	117	375512	50.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	13.98	152	180983	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	3.99	65	103225m	51.12	ug/L	-0.01
7) Chloroethane-d5	4.59	69	42653	90.54	ug/L	0.00
10) 1,1-Dichloroethene-d2	5.37	63	117728	51.67	ug/L	0.00
22) Chloroform-d	7.60	84	305362	49.97	ug/L	0.00
24) 2-Butanone-d5	7.85	46	67880	94.60	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.36	65	212751	66.30	ug/L	0.00
28) 1,4-Dioxane-d8	9.50	96	14771	738.58	ug/L	0.00
34) Benzene-d6	8.23	84	395392	49.19	ug/L	0.00
38) 1,2-Dichloropropane-d6	9.24	67	124468	48.38	ug/L	0.00
42) Toluene-d8	10.15	98	374175	47.75	ug/L	0.00
45) trans-1,3-Dichloropropene-	10.54	79	54897	49.37	ug/L	0.00
51) 2-Hexanone-d5	11.26	63	93114	102.08	ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	12.97	84	178117	47.92	ug/L	0.00
65) 1,2-Dichlorobenzene-d4	14.45	152	178878	52.45	ug/L	0.00

Target Compounds Qvalue

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

LSC Area Percent Report

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022314.D
Acq On : 19 Oct 2008 18:48
Operator : MS
Sample : Z4983-02
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.281	35	53	55	rBV	1201582	3284289	100.00%	23.894%
2	3.986	191	200	201	rBV2	61779	80932	2.46%	0.589%
3	4.581	319	326	338	rVB3	28301	68157	2.08%	0.496%
4	5.368	480	490	504	rBV2	122130	320444	9.76%	2.331%
5	7.603	949	963	976	rBV3	332773	703683	21.43%	5.119%
6	7.859	1009	1018	1028	rBV2	56148	114923	3.50%	0.836%
7	8.225	1087	1097	1108	rBV2	400892	827632	25.20%	6.021%
8	8.357	1116	1125	1138	rBV3	213395	471050	14.34%	3.427%
9	8.784	1207	1217	1229	rBV2	432456	845209	25.73%	6.149%
10	9.244	1303	1314	1324	rBV3	282275	624496	19.01%	4.543%
11	9.925	1448	1458	1467	rBV2	254358	509949	15.53%	3.710%
12	10.148	1494	1504	1523	rBV4	510551	1093274	33.29%	7.954%
13	10.543	1579	1587	1597	rBV3	76833	143599	4.37%	1.045%
14	11.265	1732	1741	1750	rBV2	209456	423936	12.91%	3.084%
15	11.673	1819	1828	1844	rBV3	591593	1272735	38.75%	9.259%
16	12.966	2088	2098	2110	rBV2	275609	602770	18.35%	4.385%
17	13.980	2299	2309	2322	rBV2	523693	1178051	35.87%	8.570%
18	14.450	2399	2409	2422	rVB2	497204	1180369	35.94%	8.587%

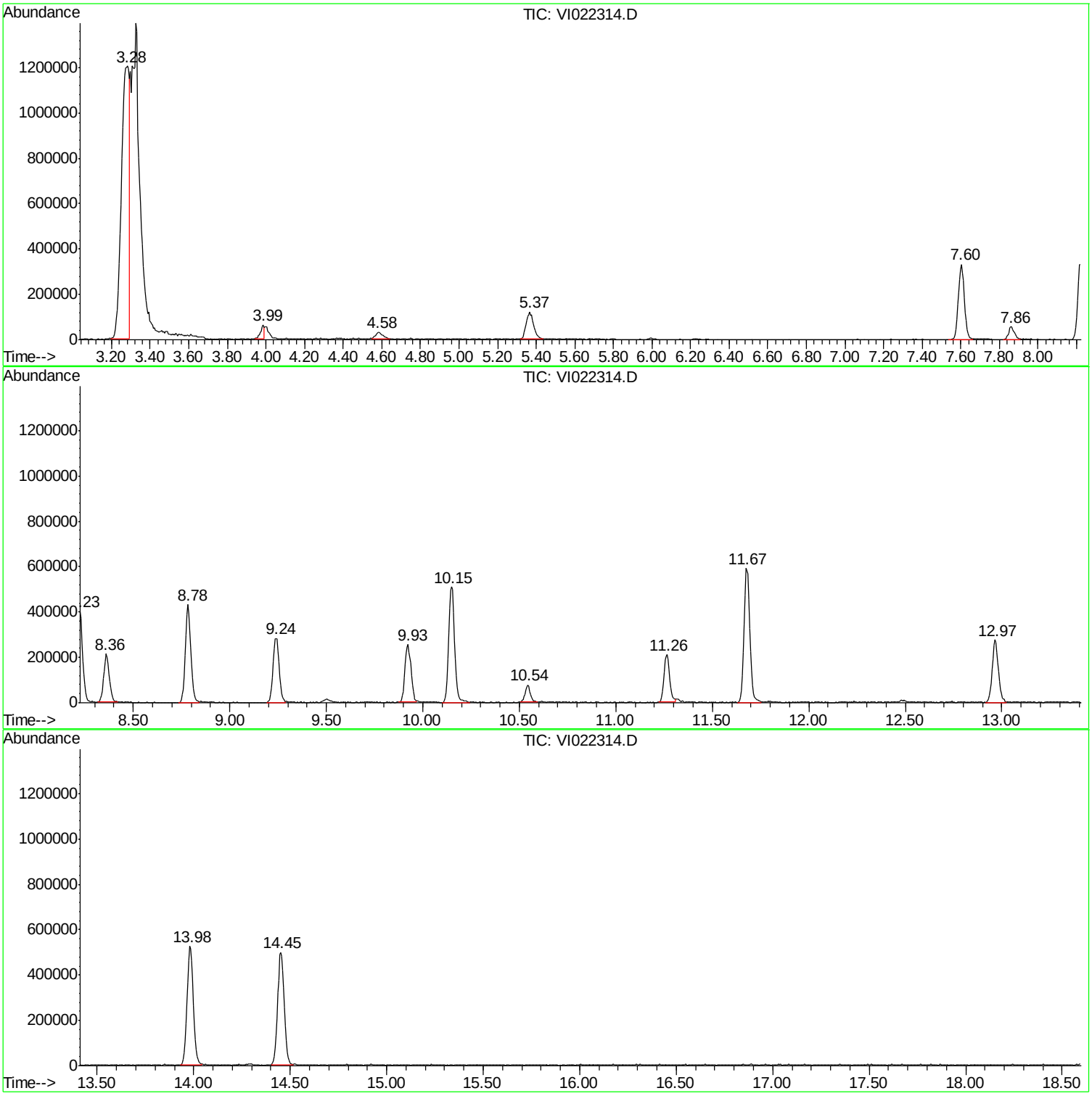
Sum of corrected areas: 13745498

LSC Report - Integrated Chromatogram

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022314.D
Acq On : 19 Oct 2008 18:48
Operator : MS
Sample : Z4983-02
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 19 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (ESC) Library Search Report summary

```
DataPath  :: WW\NPCHEM1MSvoaI\Data\VI101908\
DataFile  :: VI022314DD
AcqOn     :: 19 Oct 2008 18:48
Operator  :: MS
Sample    :: Z4983002
Misc      :: 5500g/5mL/100mLpurge,MSVOAI
ALSVial   :: 19  SampleMultiplier:11

QuantMethod :: WW\NPCHEM1MSVOAI\METHODS\SOMILM101908SMM
QuantTitle  :: TRACEVOAS0001100

TICLibrary  :: C:\DATABASE\NIST02LL
TICIntegrationParameters :: LSCINTP
```

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

No Library Search Compounds Detected
****

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A0C-1-2A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-03

Sample wt/vol: 4.97 (g/mL) g Lab File ID: VI022315.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 8 Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl Chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
67-64-1	Acetone	11	U
75-15-0	Carbon disulfide	5.5	U
79-20-9	Methyl acetate	5.5	U
75-09-2	Methylene chloride	5.5	U
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-Butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
110-82-7	Cyclohexane	5.5	U
56-23-5	Carbon Tetrachloride	5.5	U
71-43-2	Benzene	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
123-91-1	1,4-Dioxane	110	U

Report 1,4 -Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A0C-1-2A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-03

Sample wt/vol: 4.97 (g/mL) g Lab File ID: VI022315.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 8 Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
79-01-6	Trichloroethene	5.5	U
108-87-2	Methylcyclohexane	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
100-41-4	Ethylbenzene	5.5	U
95-47-6	o-Xylene	5.5	U
179601-23-1	m,p-Xylene	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A0C-1-2A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4983-03

Sample wt/vol: 4.97 (g/mL) g Lab File ID: VI022315.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/15/2008

% Moisture: not dec. 8.0 Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg Purge Volume: 10 (mL)

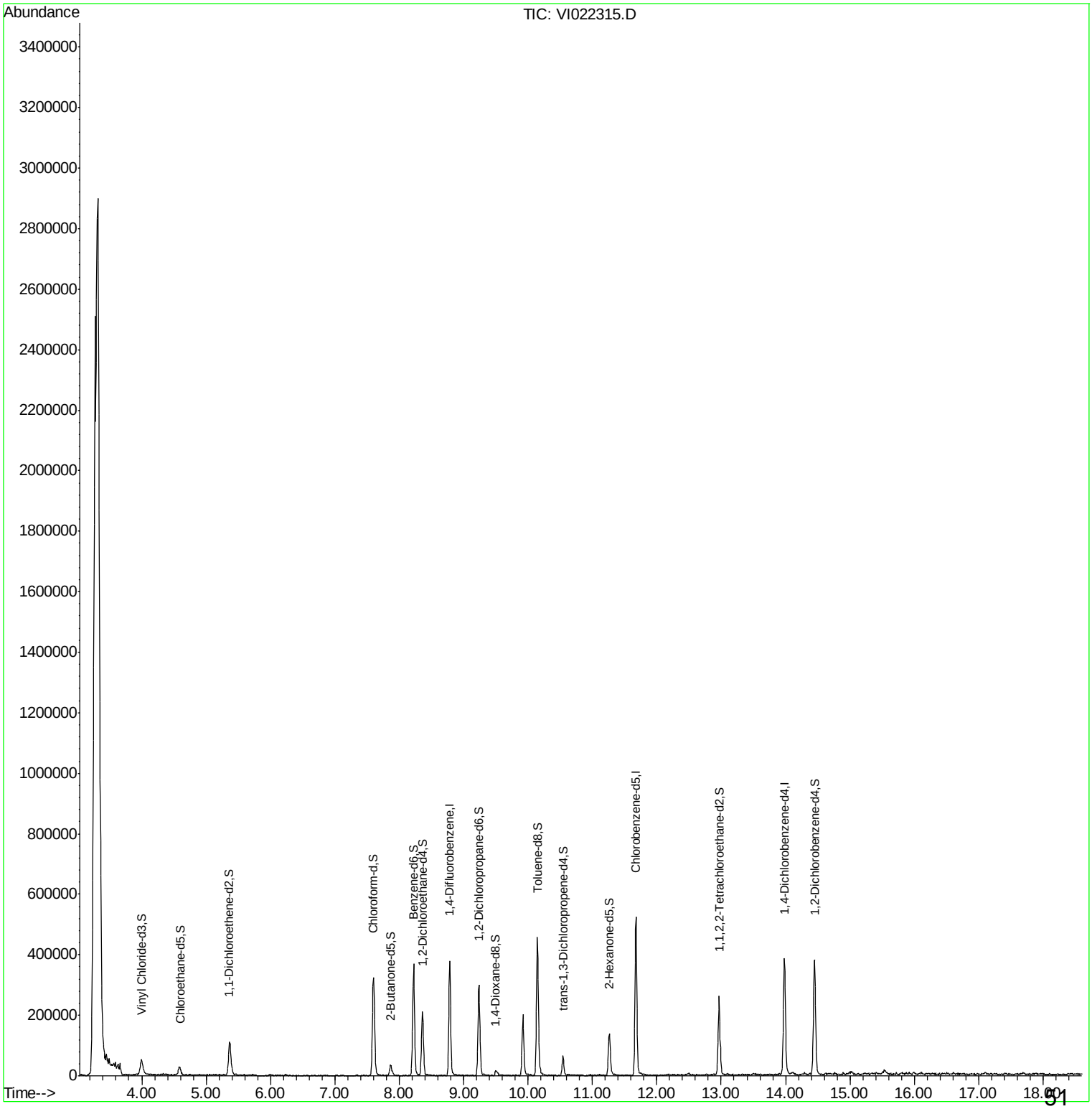
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.					
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[1]E966796	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022315.D
Acq On : 19 Oct 2008 19:13
Operator : MS
Sample : Z4983-03
Misc : 4.97g/5mL/10mL purge,MSVOAI
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 20 11:45:22 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration



Quantitation Report (QT/LSC Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022315.D
Acq On : 19 Oct 2008 19:13
Operator : MS
Sample : Z4983-03
Misc : 4.97g/5mL/10mL purge,MSVOAI
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 20 11:45:22 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	8.78	114	312751	50.00 ug/L	0.00
30) Chlorobenzene-d5	11.68	117	319106	50.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	13.98	152	133559	50.00 ug/L	0.00
System Monitoring Compounds					
4) Vinyl Chloride-d3	4.00	65	95271	50.07 ug/L	0.00
7) Chloroethane-d5	4.60	69	43179	97.27 ug/L	0.01
10) 1,1-Dichloroethene-d2	5.37	63	122673	57.13 ug/L	0.00
22) Chloroform-d	7.60	84	328031	56.97 ug/L	0.00
24) 2-Butanone-d5	7.86	46	47190	69.79 ug/L	0.00
26) 1,2-Dichloroethane-d4	8.36	65	201804	66.74 ug/L	0.00
28) 1,4-Dioxane-d8	9.50	96	14242	755.70 ug/L	0.00
34) Benzene-d6	8.23	84	386540	56.59 ug/L	0.00
38) 1,2-Dichloropropane-d6	9.24	67	133028	60.85 ug/L	0.00
42) Toluene-d8	10.14	98	330406	49.62 ug/L	0.00
45) trans-1,3-Dichloropropene-	10.54	79	46089	48.77 ug/L	0.00
51) 2-Hexanone-d5	11.26	63	64395	83.07 ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	12.97	84	164801	52.18 ug/L	0.00
65) 1,2-Dichlorobenzene-d4	14.45	152	134625	53.49 ug/L	0.00

Target Compounds Qvalue

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

LSC Area Percent Report

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022315.D
Acq On : 19 Oct 2008 19:13
Operator : MS
Sample : Z4983-03
Misc : 4.97g/5mL/10mL purge,MSVOAI
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.273	33	51	52	rBV	2506654	4422287	100.00%	32.808%
2	3.995	190	202	215	rBV2	50827	153880	3.48%	1.142%
3	5.358	478	489	490	rBV	110794	137459	3.11%	1.020%
4	7.600	955	966	977	rBV	323730	778643	17.61%	5.777%
5	7.864	1014	1025	1029	rBV2	36280	73163	1.65%	0.543%
6	8.222	1090	1101	1116	rBV2	370701	820662	18.56%	6.088%
7	8.359	1120	1129	1139	rBV	210267	449249	10.16%	3.333%
8	8.783	1205	1218	1230	rBV	380734	795966	18.00%	5.905%
9	9.235	1304	1314	1328	rBV2	300143	633047	14.31%	4.696%
10	9.921	1448	1458	1469	rBV2	203412	418082	9.45%	3.102%
11	10.144	1494	1505	1520	rBV	456863	972247	21.99%	7.213%
12	10.541	1581	1590	1602	rBV4	66547	131117	2.96%	0.973%
13	11.263	1734	1742	1753	rBV3	137124	293426	6.64%	2.177%
14	11.675	1818	1828	1840	rBV2	522958	1061946	24.01%	7.878%
15	12.965	2093	2102	2111	rBV2	258090	545790	12.34%	4.049%
16	13.984	2309	2321	2332	rBV3	383554	889318	20.11%	6.598%
17	14.451	2406	2419	2438	rVB3	380053	903166	20.42%	6.700%

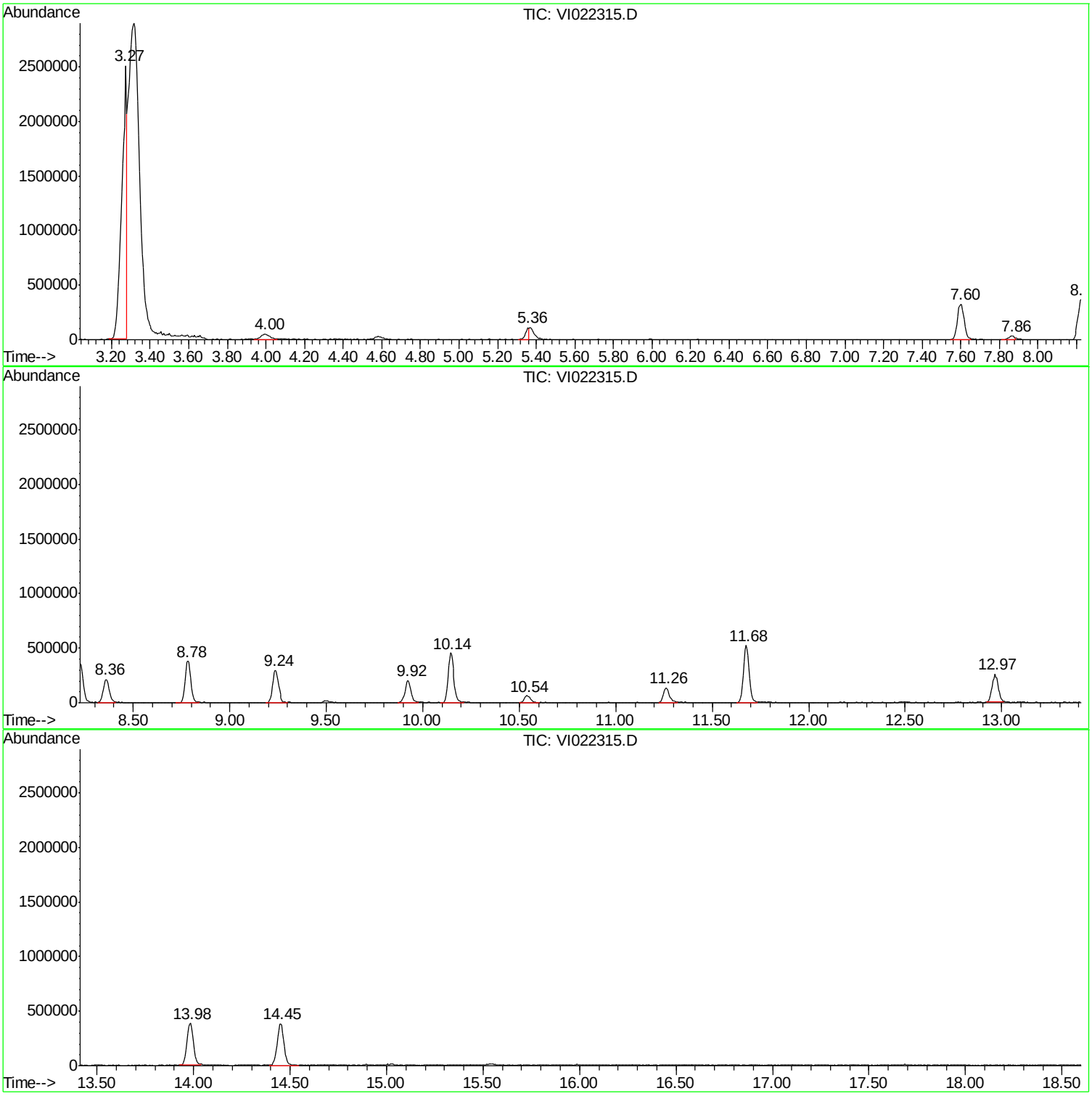
Sum of corrected areas: 13479448

LSC Report - Integrated Chromatogram

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022315.D
Acq On : 19 Oct 2008 19:13
Operator : MS
Sample : Z4983-03
Misc : 4.97g/5mL/10mL purge,MSVOAI
ALS Vial : 20 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound Report summary

```
DataPath ::WW\NPCHEM1MSvoaI\DataVI101908\
DataFile ::VI022315DD
AcqOn    ::19Oct2008 19:13
Operator ::MS
Sample   ::Z4983003
Misc     ::4997g/5mL/100mLpurge,MSVOAI
ALSVial  ::20  SampleMultiplier:11

QuantMethod ::WW\NPCHEM1MSVOAI\METHODS\SOMILM101908SMM
QuantTitle ::TRACEVOAS0001100

TICLibrary  ::C:\DATABASE\NIST02LL
TICIntegrationParameters:LSCINTPP
```

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

No Library Search Compounds Detected
****

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A0C-1-2A[0.0-0.5]RE

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-03RE

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022331.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 8 Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	5.4	U
74-87-3	Chloromethane	5.4	U
75-01-4	Vinyl Chloride	5.4	U
74-83-9	Bromomethane	5.4	U
75-00-3	Chloroethane	5.4	U
75-69-4	Trichlorofluoromethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U
67-64-1	Acetone	11	U
75-15-0	Carbon disulfide	5.4	U
79-20-9	Methyl acetate	5.4	U
75-09-2	Methylene chloride	5.4	U
156-60-5	trans-1,2-Dichloroethene	5.4	U
1634-04-4	Methyl tert-Butyl ether	5.4	U
75-34-3	1,1-Dichloroethane	5.4	U
156-59-2	cis-1,2-Dichloroethene	5.4	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	5.4	U
67-66-3	Chloroform	5.4	U
71-55-6	1,1,1-Trichloroethane	5.4	U
110-82-7	Cyclohexane	5.4	U
56-23-5	Carbon Tetrachloride	5.4	U
71-43-2	Benzene	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
123-91-1	1,4-Dioxane	110	U

Report 1,4 -Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A0C-1-2A[0.0-0.5]RE

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-03RE

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022331.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 8 Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
79-01-6	Trichloroethene	5.4	U
108-87-2	Methylcyclohexane	5.4	U
78-87-5	1,2-Dichloropropane	5.4	U
75-27-4	Bromodichloromethane	5.4	U
10061-01-5	cis-1,3-Dichloropropene	5.4	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	5.4	U
10061-02-6	trans-1,3-Dichloropropene	5.4	U
79-00-5	1,1,2-Trichloroethane	5.4	U
127-18-4	Tetrachloroethene	5.4	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	5.4	U
106-93-4	1,2-Dibromoethane	5.4	U
108-90-7	Chlorobenzene	5.4	U
100-41-4	Ethylbenzene	5.4	U
95-47-6	o-Xylene	5.4	U
179601-23-1	m,p-Xylene	5.4	U
100-42-5	Styrene	5.4	U
75-25-2	Bromoform	5.4	U
98-82-8	Isopropylbenzene	5.4	U
79-34-5	1,1,2,2-Tetrachloroethane	5.4	U
541-73-1	1,3-Dichlorobenzene	5.4	U
106-46-7	1,4-Dichlorobenzene	5.4	U
95-50-1	1,2-Dichlorobenzene	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	5.4	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A0C-1-2A[0.0-0.5]RE

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4983-03RE

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022331.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/15/2008

% Moisture: not dec. 8.0 Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg Purge Volume: 10 (mL)

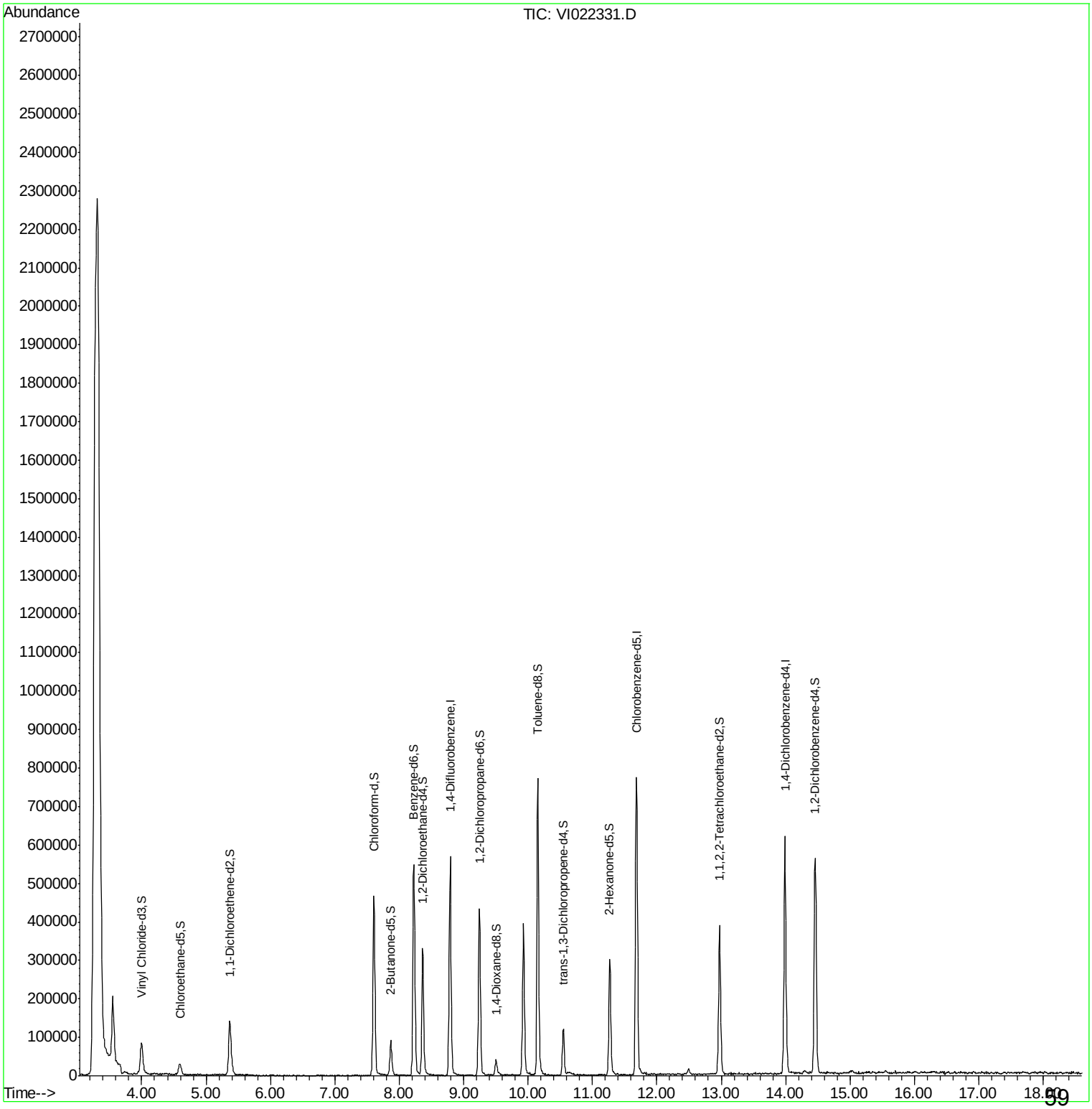
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	000075-37-6	Ethane, 1,1-difluoro-	3.55	17	JN
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[1]E966796	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022331.D
Acq On : 20 Oct 2008 13:25
Operator : MS
Sample : Z4983-03RE
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 15:19:52 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration



Quantitation Report (QT/LSC Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022331.D
Acq On : 20 Oct 2008 13:25
Operator : MS
Sample : Z4983-03RE
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 15:19:52 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	8.79	114	470109	50.00 ug/L	0.00
30) Chlorobenzene-d5	11.68	117	479051	50.00 ug/L	0.01
61) 1,4-Dichlorobenzene-d4	13.99	152	200998	50.00 ug/L	0.01
System Monitoring Compounds					
4) Vinyl Chloride-d3	4.00	65	147547	51.58 ug/L	0.00
7) Chloroethane-d5	4.60	69	46340	69.45 ug/L	0.01
10) 1,1-Dichloroethene-d2	5.36	63	160641	49.77 ug/L	0.00
22) Chloroform-d	7.61	84	457964	52.91 ug/L	0.00
24) 2-Butanone-d5	7.87	46	123630	121.63 ug/L	0.01
26) 1,2-Dichloroethane-d4	8.36	65	309069	68.00 ug/L	0.00
28) 1,4-Dioxane-d8	9.49	96	31938	1127.43 ug/L	0.00
34) Benzene-d6	8.23	84	547768	53.42 ug/L	0.00
38) 1,2-Dichloropropane-d6	9.25	67	206674	62.97 ug/L	0.00
42) Toluene-d8	10.15	98	565657	56.59 ug/L	0.00
45) trans-1,3-Dichloropropene-	10.55	79	89268	62.92 ug/L	0.01
51) 2-Hexanone-d5	11.27	63	137414	118.08 ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	12.98	84	259487	54.73 ug/L	0.01
65) 1,2-Dichlorobenzene-d4	14.46	152	206185	54.43 ug/L	0.00

Target Compounds Qvalue

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

LSC Area Percent Report

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022331.D
Acq On : 20 Oct 2008 13:25
Operator : MS
Sample : Z4983-03RE
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.314	25	46	70	rBV	2274273	13523303	100.00%	47.640%
2	3.550	79	85	93	rVB2	168272	383877	2.84%	1.352%
3	3.996	151	158	167	rVB	77800	206331	1.53%	0.727%
4	5.367	375	384	395	rBV2	141663	417688	3.09%	1.471%
5	7.607	743	751	764	rBV	466072	1044630	7.72%	3.680%
6	7.870	785	794	803	rBV2	91858	202425	1.50%	0.713%
7	8.229	844	852	862	rBV	549776	1180258	8.73%	4.158%
8	8.362	866	874	888	rVB	327893	698937	5.17%	2.462%
9	8.792	935	945	954	rBV	568940	1202026	8.89%	4.235%
10	9.246	1006	1019	1028	rBV	434832	980776	7.25%	3.455%
11	9.927	1121	1131	1141	rBV2	395337	816760	6.04%	2.877%
12	10.151	1161	1168	1181	rVB	769152	1559000	11.53%	5.492%
13	10.549	1224	1232	1240	rBV2	118908	248160	1.84%	0.874%
14	11.266	1342	1350	1364	rBV	300394	669567	4.95%	2.359%
15	11.685	1411	1419	1427	rBV	774115	1659738	12.27%	5.847%
16	12.972	1619	1630	1643	rVB	388100	874987	6.47%	3.082%
17	13.991	1788	1797	1807	rBV	618253	1342959	9.93%	4.731%
18	14.459	1863	1873	1883	rBV2	559563	1374839	10.17%	4.843%

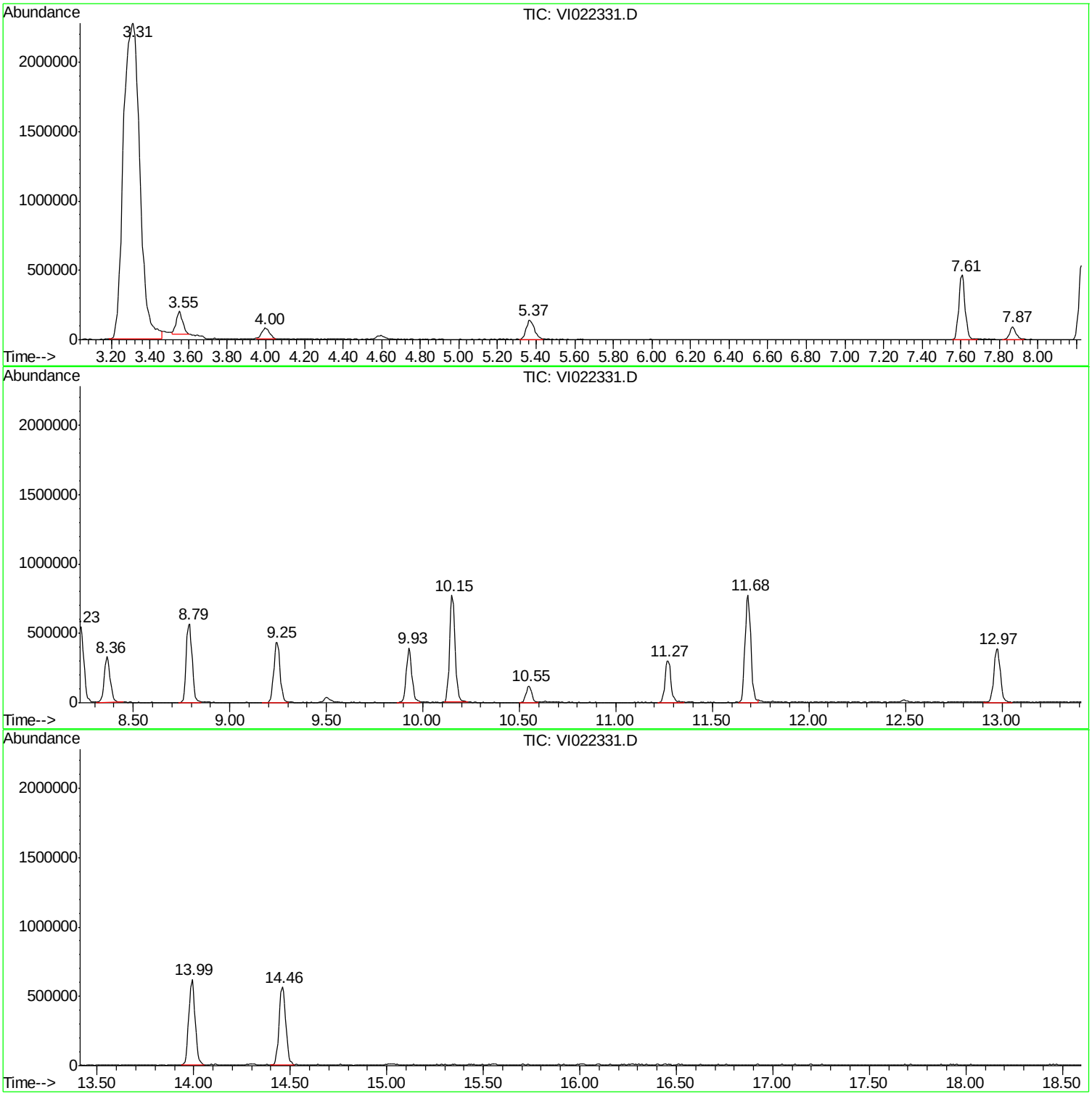
Sum of corrected areas: 28386261

LSC Report - Integrated Chromatogram

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022331.D
Acq On : 20 Oct 2008 13:25
Operator : MS
Sample : Z4983-03RE
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 7 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022331.D
Acq On : 20 Oct 2008 13:25
Operator : MS
Sample : Z4983-03RE
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 7 Sample Multiplier: 1

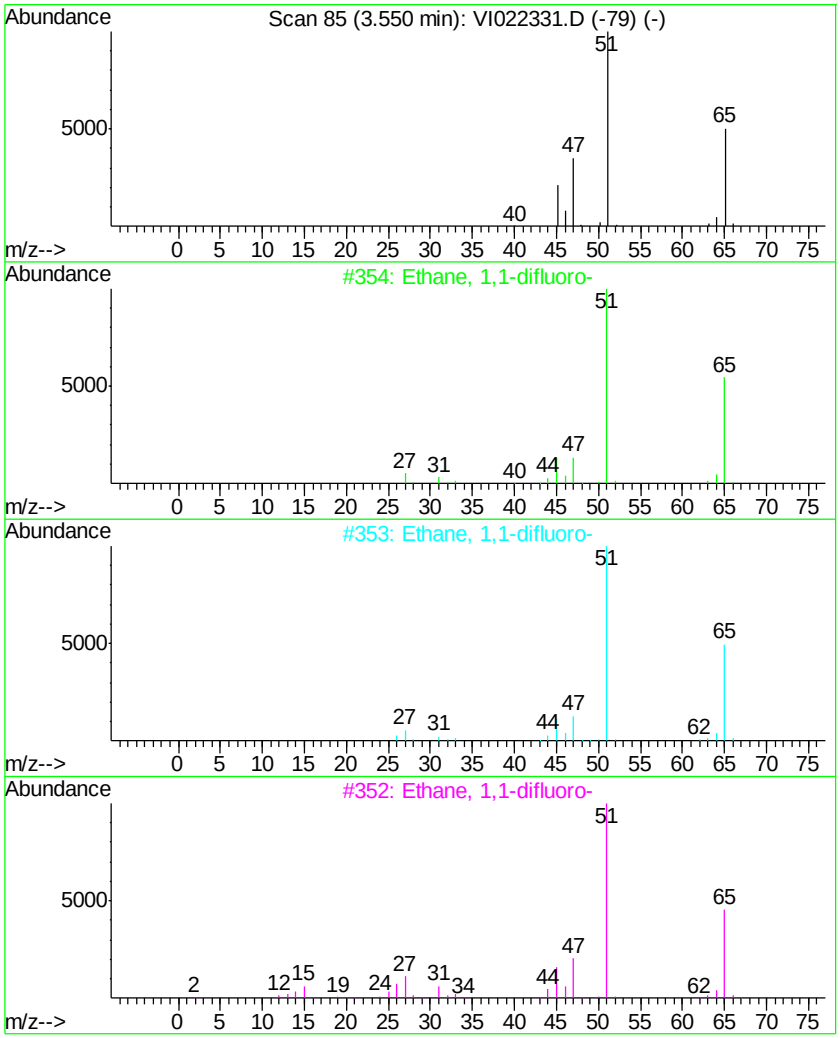
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

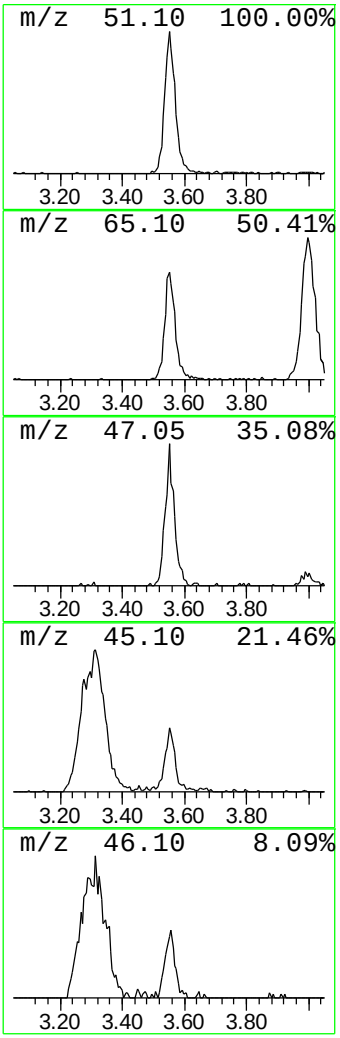
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Ethane, 1,1-difluoro- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.55	15.97 ug/L	383877	1,4-Difluorobenzene	8.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	90
2	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	90
3	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	90
4	Propiolonitrile	51	C3HN	001070-71-9	3
5	Propane, 2,2-difluoro-	80	C3H6F2	000420-45-1	2





Tentatively Identified Compound (LSC) summary

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022331.D
Acq On : 20 Oct 2008 13:25
Operator : MS
Sample : Z4983-03RE
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 7 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethane, 1,1-diflu...	3.55	16.0	ug/L	383877	1	8.79	1202030	50.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A0C-1-2B[7.0-7.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-04

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022316.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 12 Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl Chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	U
67-64-1	Acetone	11	U
75-15-0	Carbon disulfide	5.7	U
79-20-9	Methyl acetate	5.7	U
75-09-2	Methylene chloride	5.7	U
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-Butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
110-82-7	Cyclohexane	5.7	U
56-23-5	Carbon Tetrachloride	5.7	U
71-43-2	Benzene	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
123-91-1	1,4-Dioxane	110	U

Report 1,4 -Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A0C-1-2B[7.0-7.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-04

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022316.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 12 Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
79-01-6	Trichloroethene	5.7	U
108-87-2	Methylcyclohexane	5.7	U
78-87-5	1,2-Dichloropropane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	5.7	U
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
100-41-4	Ethylbenzene	5.7	U
95-47-6	o-Xylene	5.7	U
179601-23-1	m,p-Xylene	5.7	U
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A0C-1-2B[7.0-7.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4983-04

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022316.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/15/2008

% Moisture: not dec. 12 Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg Purge Volume: 10 (mL)

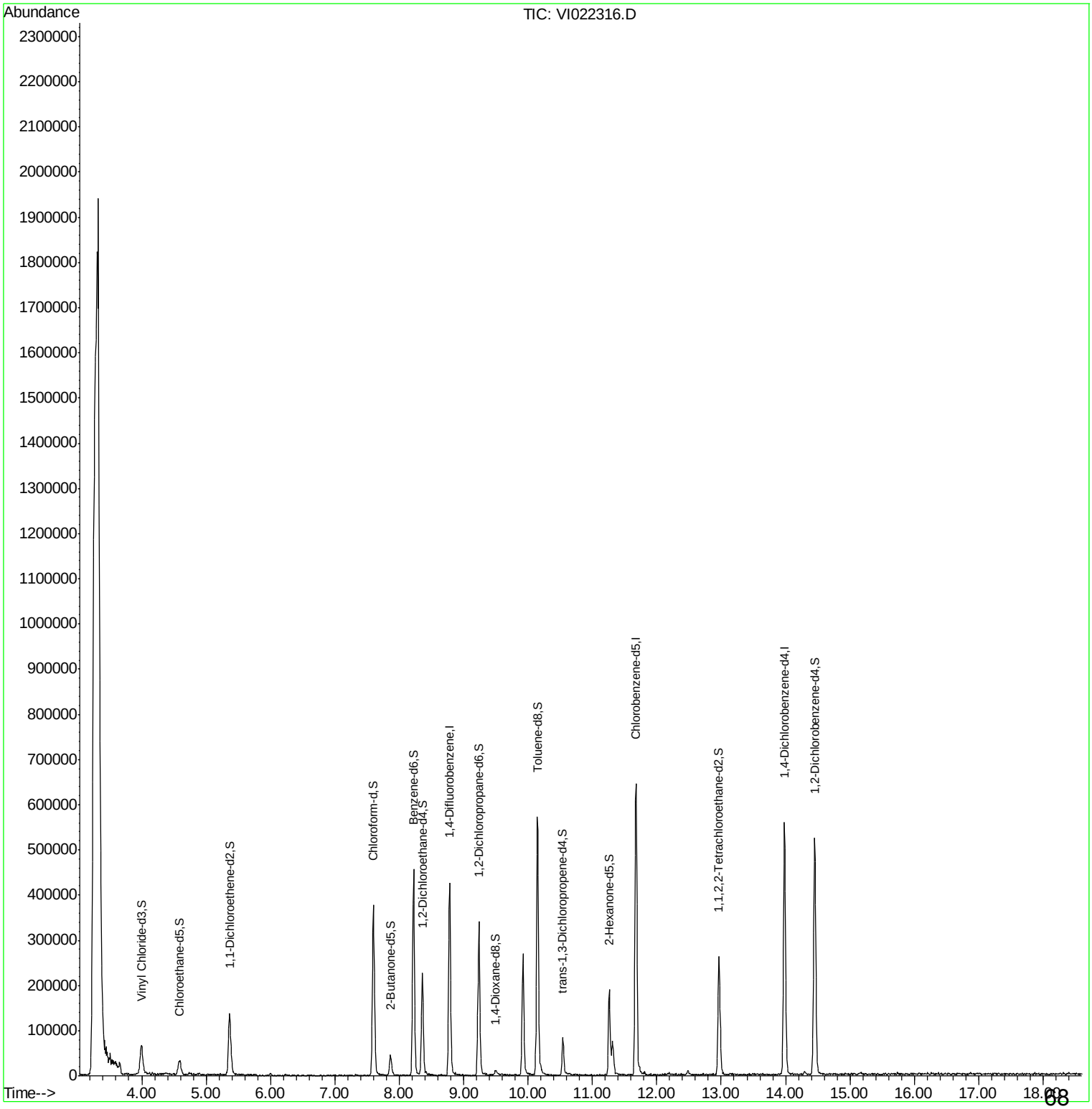
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.					
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[1]E966796	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022316.D
Acq On : 19 Oct 2008 19:38
Operator : MS
Sample : Z4983-04
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 20 11:47:07 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration



Quantitation Report (QT/LSC Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022316.D
Acq On : 19 Oct 2008 19:38
Operator : MS
Sample : Z4983-04
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 20 11:47:07 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	8.79	114	357072	50.00 ug/L	0.00
30) Chlorobenzene-d5	11.68	117	388467	50.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	13.98	152	198276	50.00 ug/L	0.00
System Monitoring Compounds					
4) Vinyl Chloride-d3	3.99	65	123745	56.96 ug/L	0.00
7) Chloroethane-d5	4.59	69	45844	90.45 ug/L	0.00
10) 1,1-Dichloroethene-d2	5.36	63	139496	56.91 ug/L	0.00
22) Chloroform-d	7.60	84	354398	53.91 ug/L	0.00
24) 2-Butanone-d5	7.86	46	68450	88.66 ug/L	0.00
26) 1,2-Dichloroethane-d4	8.36	65	205876	59.63 ug/L	0.00
28) 1,4-Dioxane-d8	9.49	96	12002	557.80 ug/L	-0.01
34) Benzene-d6	8.22	84	474329	57.04 ug/L	0.00
38) 1,2-Dichloropropane-d6	9.24	67	141371	53.12 ug/L	0.00
42) Toluene-d8	10.14	98	429224	52.95 ug/L	0.00
45) trans-1,3-Dichloropropene-	10.54	79	62012	53.90 ug/L	0.00
51) 2-Hexanone-d5	11.26	63	92471	97.99 ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	12.96	84	173064	45.01 ug/L	0.00
65) 1,2-Dichlorobenzene-d4	14.45	152	190200	50.90 ug/L	0.00

Target Compounds Qvalue

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

LSC Area Percent Report

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022316.D
Acq On : 19 Oct 2008 19:38
Operator : MS
Sample : Z4983-04
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.309	32	57	60	rBV	1818573	8198674	100.00%	42.047%
2	3.993	190	200	212	rBV2	61348	184364	2.25%	0.946%
3	5.365	479	489	508	rVB2	136148	363599	4.43%	1.865%
4	7.601	949	962	975	rBV3	376877	822599	10.03%	4.219%
5	7.864	1010	1019	1031	rVB2	45750	105193	1.28%	0.539%
6	8.223	1085	1095	1108	rBV2	455800	972086	11.86%	4.985%
7	8.359	1112	1123	1132	rVV3	224225	462393	5.64%	2.371%
8	8.786	1198	1212	1225	rBV	427610	901896	11.00%	4.625%
9	9.238	1297	1308	1323	rBV3	341539	717409	8.75%	3.679%
10	9.921	1445	1453	1465	rBV3	268153	561252	6.85%	2.878%
11	10.146	1491	1500	1512	rBV3	570276	1195792	14.59%	6.133%
12	10.537	1574	1582	1591	rBV3	83725	164293	2.00%	0.843%
13	11.262	1726	1737	1742	rBV2	188651	372551	4.54%	1.911%
14	11.676	1812	1823	1834	rBV	644650	1316104	16.05%	6.750%
15	12.964	2086	2096	2108	rBV3	261683	588892	7.18%	3.020%
16	13.979	2294	2308	2321	rBV	559157	1286399	15.69%	6.597%
17	14.449	2393	2406	2420	rBV2	523802	1285312	15.68%	6.592%

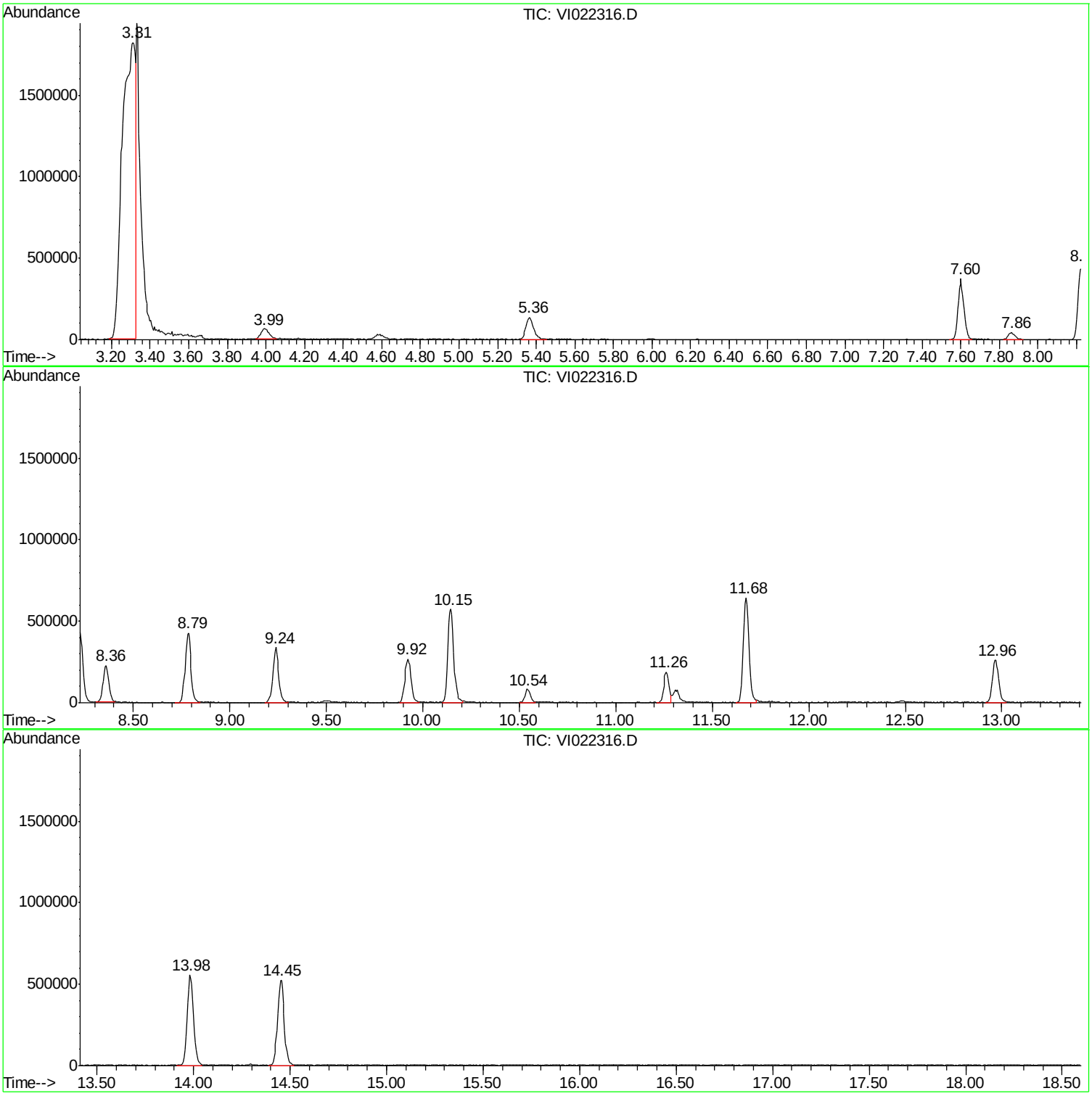
Sum of corrected areas: 19498808

LSC Report - Integrated Chromatogram

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022316.D
Acq On : 19 Oct 2008 19:38
Operator : MS
Sample : Z4983-04
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 21 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (ESC) Library Search Report summary

```
DataPath ::WW\NPCHEM1MSvoaI\DataVI101908\
DataFile ::VI022316DD
AcqOn    ::19 Oct 2008 19:38
Operator ::MS
Sample   ::Z4983004
Misc     ::5500g/5mL/100mLpurge,MSVOAI
ALSVial  ::21  SampleMultiplier:11

QuantMethod ::WW\NPCHEM1MSVOAI\METHODS\SOMILM101908SMM
QuantTitle  ::TRACEVOAS0001100

TICLibrary  ::C:\DATABASE\NIST02LL
TICIntegrationParameters:LSCINTPP
```

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

No Library Search Compounds Detected
****

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A0C-1-3A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-05

Sample wt/vol: 5.03 (g/mL) g Lab File ID: VI022332.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 9 Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl Chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
67-64-1	Acetone	11	U
75-15-0	Carbon disulfide	5.5	U
79-20-9	Methyl acetate	5.5	U
75-09-2	Methylene chloride	5.5	U
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-Butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
110-82-7	Cyclohexane	5.5	U
56-23-5	Carbon Tetrachloride	5.5	U
71-43-2	Benzene	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
123-91-1	1,4-Dioxane	110	U

Report 1,4 -Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A0C-1-3A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-05

Sample wt/vol: 5.03 (g/mL) g Lab File ID: VI022332.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 9 Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
79-01-6	Trichloroethene	5.5	U
108-87-2	Methylcyclohexane	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
100-41-4	Ethylbenzene	5.5	U
95-47-6	o-Xylene	5.5	U
179601-23-1	m,p-Xylene	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A0C-1-3A[0.0-0.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4983-05

Sample wt/vol: 5.03 (g/mL) g Lab File ID: VI022332.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/15/2008

% Moisture: not dec. 9.0 Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg Purge Volume: 10 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	000075-37-6	Ethane, 1,1-difluoro-	3.56	20	JN
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[1]E966796	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022332.D
Acq On : 20 Oct 2008 13:51
Operator : MS
Sample : Z4983-05
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 15:22:39 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	8.79	114	495551	50.00 ug/L	0.00
30) Chlorobenzene-d5	11.69	117	497185	50.00 ug/L	0.01
61) 1,4-Dichlorobenzene-d4	13.99	152	203965	50.00 ug/L	0.02
System Monitoring Compounds					
4) Vinyl Chloride-d3	3.99	65	161012	53.40 ug/L	0.00
7) Chloroethane-d5	4.58	69	47697	67.81 ug/L	0.00
10) 1,1-Dichloroethene-d2	5.36	63	157196	46.21 ug/L	0.00
22) Chloroform-d	7.60	84	470773	51.60 ug/L	0.00
24) 2-Butanone-d5	7.87	46	113227	105.68 ug/L	0.01
26) 1,2-Dichloroethane-d4	8.36	65	327368	68.33 ug/L	0.00
28) 1,4-Dioxane-d8	9.50	96	30924	1035.59 ug/L	0.00
34) Benzene-d6	8.22	84	577265	54.24 ug/L	0.00
38) 1,2-Dichloropropane-d6	9.24	67	216677	63.61 ug/L	0.00
42) Toluene-d8	10.15	98	575836	55.50 ug/L	0.00
45) trans-1,3-Dichloropropene-	10.55	79	89211	60.59 ug/L	0.00
51) 2-Hexanone-d5	11.27	63	128500	106.40 ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	12.98	84	271473	55.17 ug/L	0.02
65) 1,2-Dichlorobenzene-d4	14.46	152	204223	53.13 ug/L	0.00

Target Compounds Qvalue

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

LSC Area Percent Report

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022332.D
Acq On : 20 Oct 2008 13:51
Operator : MS
Sample : Z4983-05
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.315	19	46	69	rBV	2056735	12723649	100.00%	45.191%
2	3.555	78	85	95	rVB2	186150	479336	3.77%	1.702%
3	3.994	148	157	169	rBV2	81575	247937	1.95%	0.881%
4	5.369	374	382	397	rBV2	135701	406033	3.19%	1.442%
5	7.607	741	750	763	rBV2	477517	1087845	8.55%	3.864%
6	7.871	784	793	807	rBV2	78797	203985	1.60%	0.725%
7	8.225	843	851	862	rBV	576225	1252108	9.84%	4.447%
8	8.364	866	874	883	rVV	341058	719024	5.65%	2.554%
9	8.790	936	944	957	rBV	617239	1278929	10.05%	4.542%
10	9.242	1007	1018	1033	rBV	466402	1061691	8.34%	3.771%
11	9.932	1120	1131	1141	rBV	372118	785785	6.18%	2.791%
12	10.153	1159	1167	1183	rBV	789038	1650376	12.97%	5.862%
13	10.546	1223	1231	1241	rBV2	119199	249013	1.96%	0.884%
14	11.267	1339	1349	1359	rBV	290250	650784	5.11%	2.311%
15	11.686	1407	1417	1428	rBV	805772	1703778	13.39%	6.051%
16	12.979	1620	1629	1639	rBV	386307	895343	7.04%	3.180%
17	13.994	1785	1795	1806	rBV	586111	1342613	10.55%	4.769%
18	14.460	1861	1871	1884	rBV2	551873	1416853	11.14%	5.032%

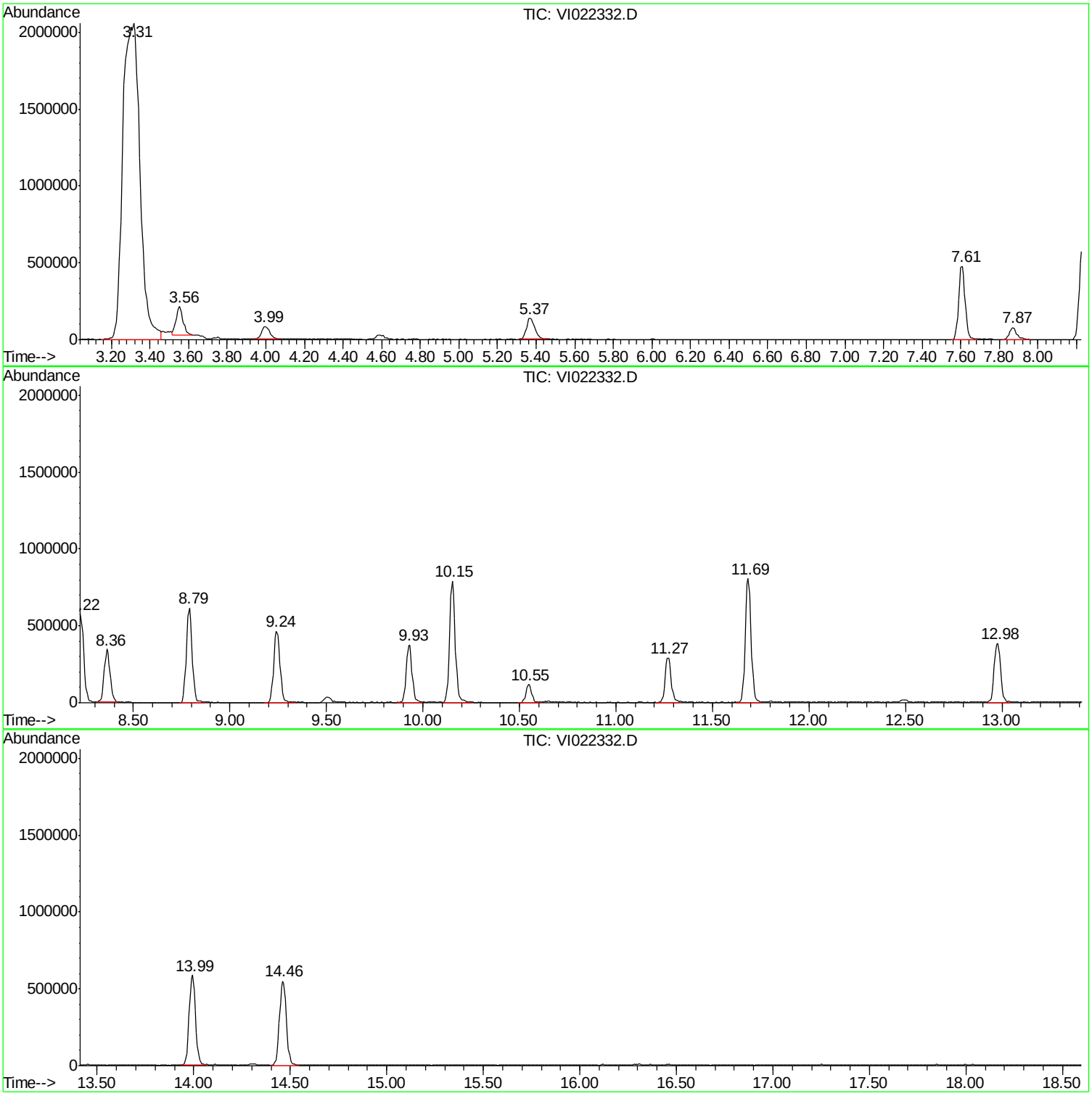
Sum of corrected areas: 28155082

LSC Report - Integrated Chromatogram

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022332.D
Acq On : 20 Oct 2008 13:51
Operator : MS
Sample : Z4983-05
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 8 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022332.D
Acq On : 20 Oct 2008 13:51
Operator : MS
Sample : Z4983-05
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 8 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

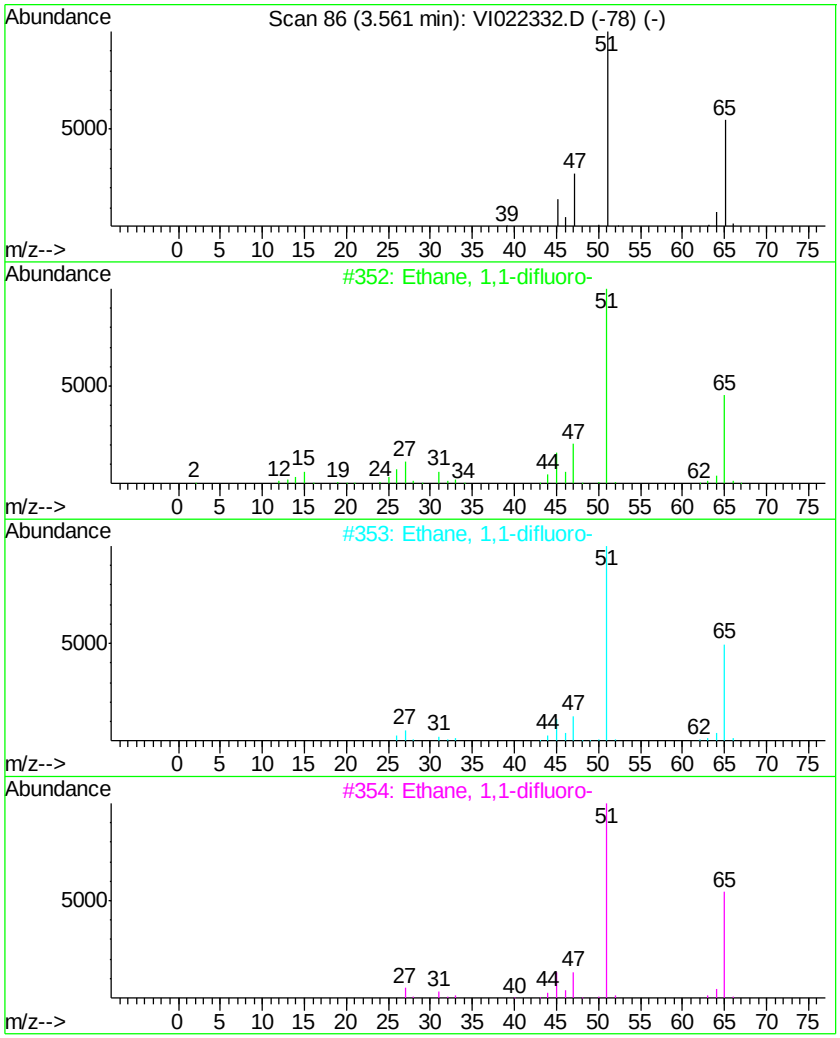
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

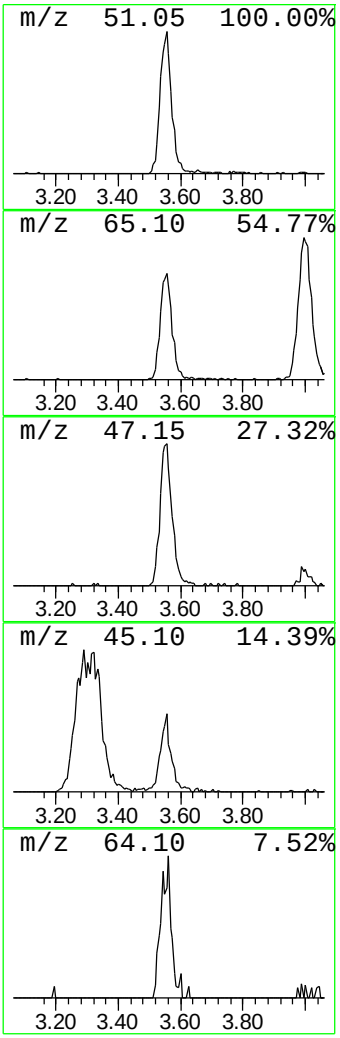
****

Peak Number 2 Ethane, 1,1-difluoro- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.56	18.74 ug/L	479336	1,4-Difluorobenzene	8.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	91
2	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	90
3	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	90
4	Propiolonitrile	51	C3HN	001070-71-9	3
5	Propane, 2,2-difluoro-	80	C3H6F2	000420-45-1	2





Tentatively Identified Compound (LSC) summary

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022332.D
Acq On : 20 Oct 2008 13:51
Operator : MS
Sample : Z4983-05
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 8 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethane, 1,1-diflu...	3.56	18.7	ug/L	479336	1	8.79	1278930	50.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A0C-1-3B[7.0-7.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-06

Sample wt/vol: 5.01 (g/mL) g Lab File ID: VI022318.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 13 Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	5.7	U
74-87-3	Chloromethane	5.7	U
75-01-4	Vinyl Chloride	5.7	U
74-83-9	Bromomethane	5.7	U
75-00-3	Chloroethane	5.7	U
75-69-4	Trichlorofluoromethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.7	U
67-64-1	Acetone	11	U
75-15-0	Carbon disulfide	5.7	U
79-20-9	Methyl acetate	5.7	U
75-09-2	Methylene chloride	5.7	U
156-60-5	trans-1,2-Dichloroethene	5.7	U
1634-04-4	Methyl tert-Butyl ether	5.7	U
75-34-3	1,1-Dichloroethane	5.7	U
156-59-2	cis-1,2-Dichloroethene	5.7	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	5.7	U
67-66-3	Chloroform	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
110-82-7	Cyclohexane	5.7	U
56-23-5	Carbon Tetrachloride	5.7	U
71-43-2	Benzene	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
123-91-1	1,4-Dioxane	110	U

Report 1,4 -Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A0C-1-3B[7.0-7.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-06

Sample wt/vol: 5.01 (g/mL) g Lab File ID: VI022318.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 13 Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
79-01-6	Trichloroethene	5.7	U
108-87-2	Methylcyclohexane	5.7	U
78-87-5	1,2-Dichloropropane	5.7	U
75-27-4	Bromodichloromethane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	5.7	U
10061-02-6	trans-1,3-Dichloropropene	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
127-18-4	Tetrachloroethene	5.7	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	5.7	U
106-93-4	1,2-Dibromoethane	5.7	U
108-90-7	Chlorobenzene	5.7	U
100-41-4	Ethylbenzene	5.7	U
95-47-6	o-Xylene	5.7	U
179601-23-1	m,p-Xylene	5.7	U
100-42-5	Styrene	5.7	U
75-25-2	Bromoform	5.7	U
98-82-8	Isopropylbenzene	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
541-73-1	1,3-Dichlorobenzene	5.7	U
106-46-7	1,4-Dichlorobenzene	5.7	U
95-50-1	1,2-Dichlorobenzene	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A0C-1-3B[7.0-7.5]

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4983-06

Sample wt/vol: 5.01 (g/mL) g Lab File ID: VI022318.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/15/2008

% Moisture: not dec. 13 Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg Purge Volume: 10 (mL)

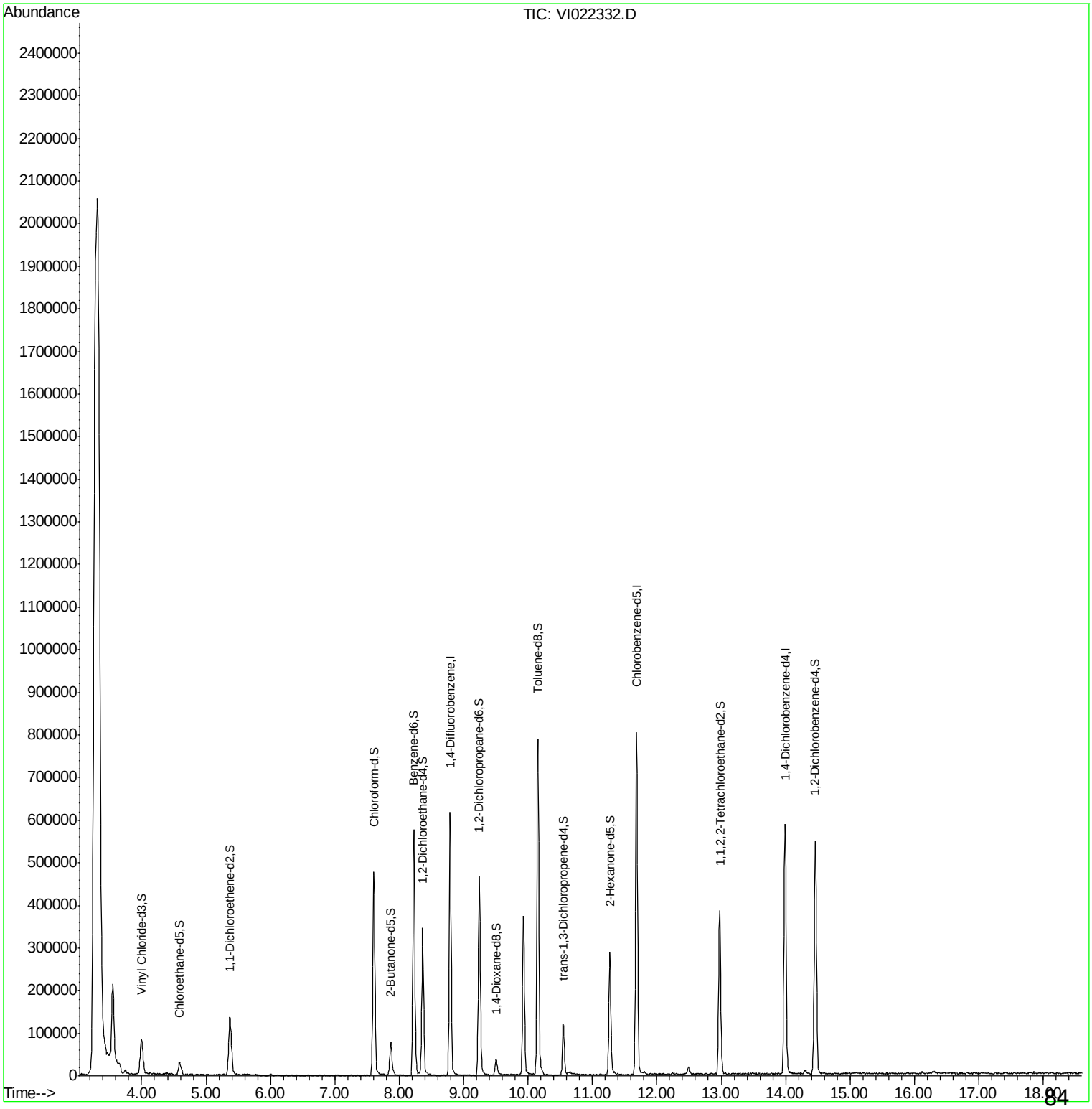
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.					
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[1]E966796	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022332.D
Acq On : 20 Oct 2008 13:51
Operator : MS
Sample : Z4983-05
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 8 Sample Multiplier: 1

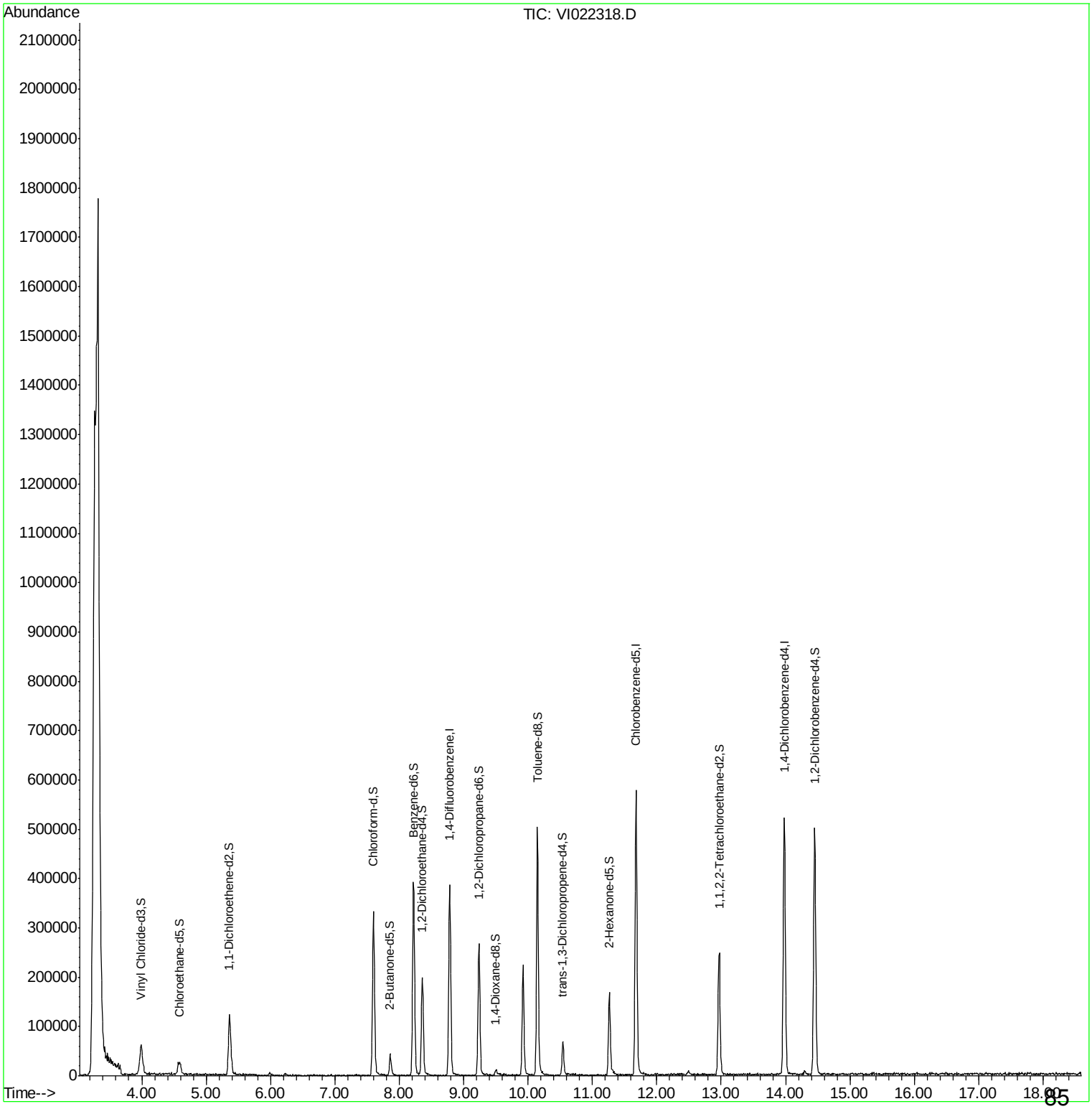
Quant Time: Oct 20 15:22:39 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022318.D
Acq On : 19 Oct 2008 20:27
Operator : MS
Sample : Z4983-06
Misc : 5.01g/5mL/10mL purge,MSVOAI
ALS Vial : 23 Sample Multiplier: 1

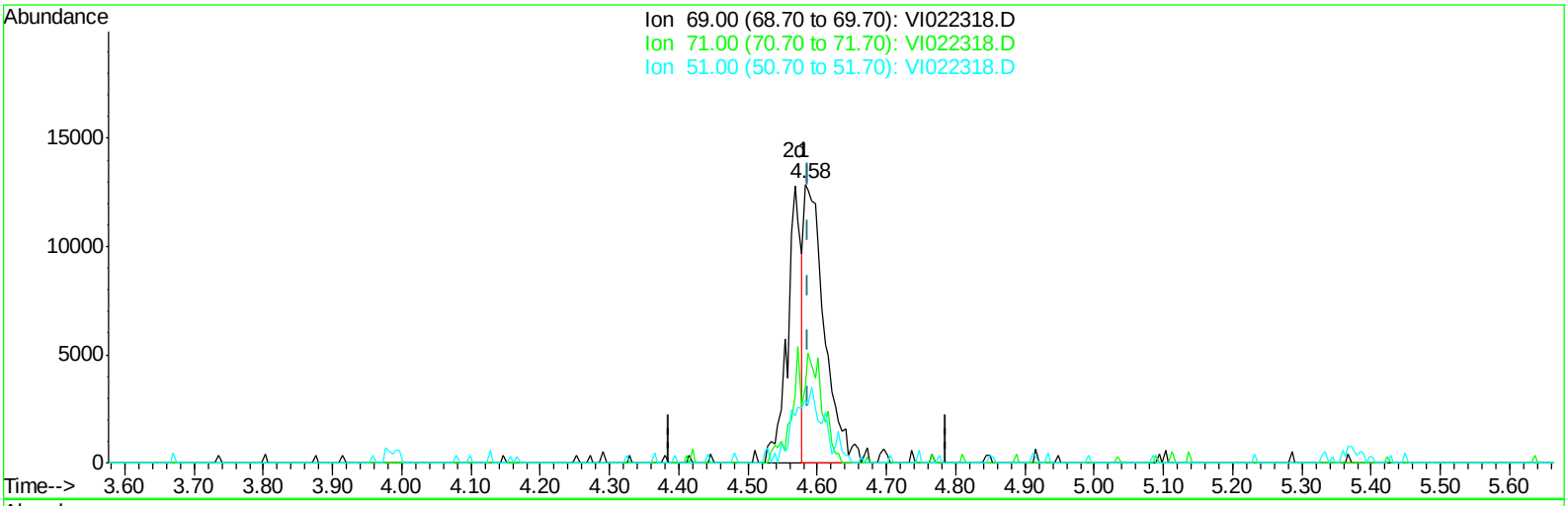
Quant Time: Oct 20 11:52:17 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

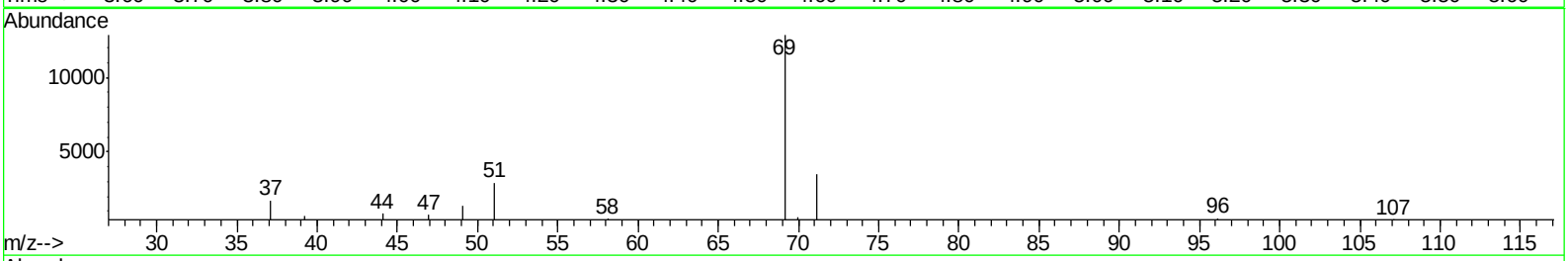


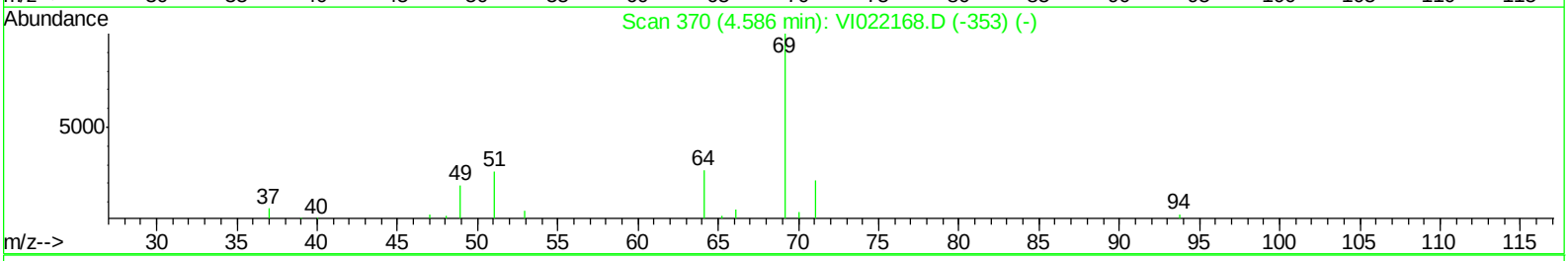
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022318.D
Acq On : 19 Oct 2008 20:27
Operator : MS
Sample : Z4983-06
Misc : 5.01g/5mL/10mL purge,MSVOAI
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 20 11:50:41 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022318.D

(7) Chloroethane-d5 (S)

4.582min (-0.005) 61.71ug/L

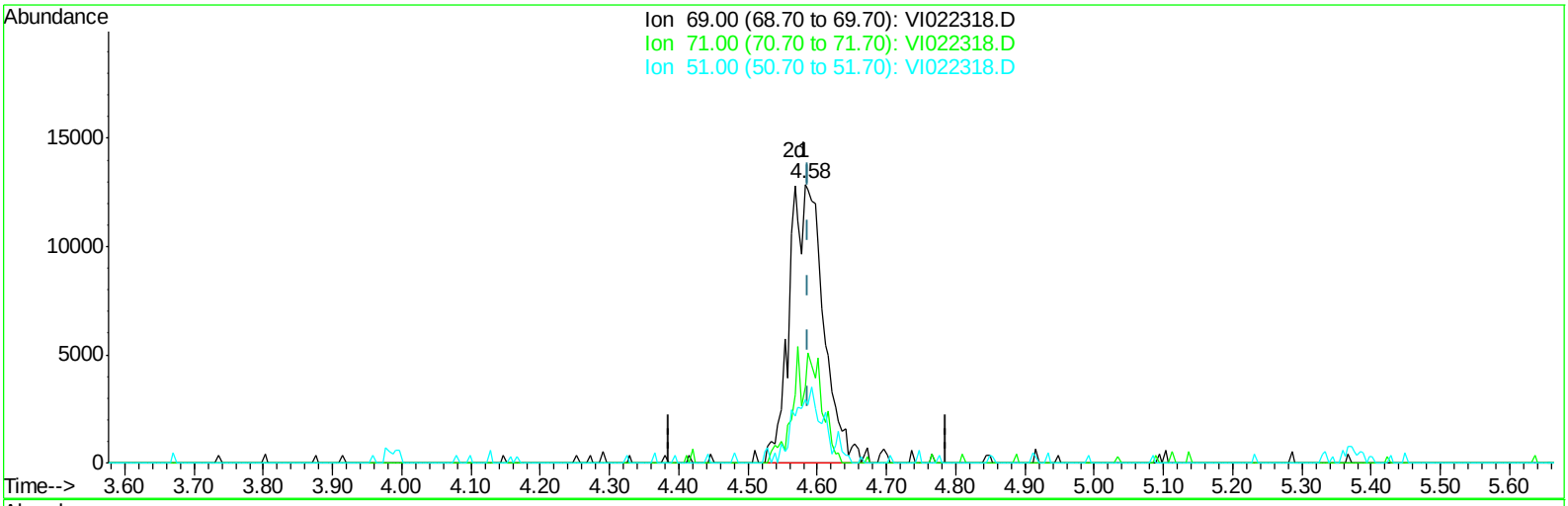
response 26022

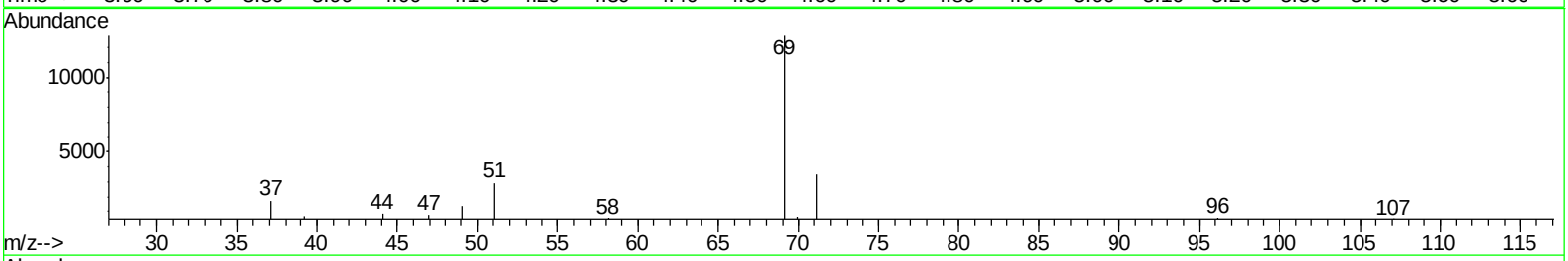
Ion	Exp%	Act%
69.00	100	100
71.00	33.20	30.12
51.00	7.00	35.97#
0.00	0.00	0.00

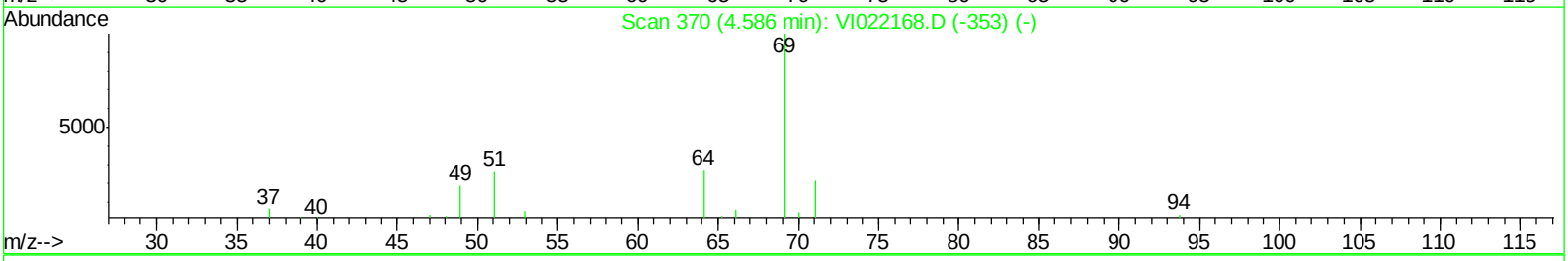
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022318.D
Acq On : 19 Oct 2008 20:27
Operator : MS
Sample : Z4983-06
Misc : 5.01g/5mL/10mL purge,MSVOAI
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 20 11:50:41 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022318.D

(7) Chloroethane-d5 (S)

4.582min (-0.005) 103.33ug/L m

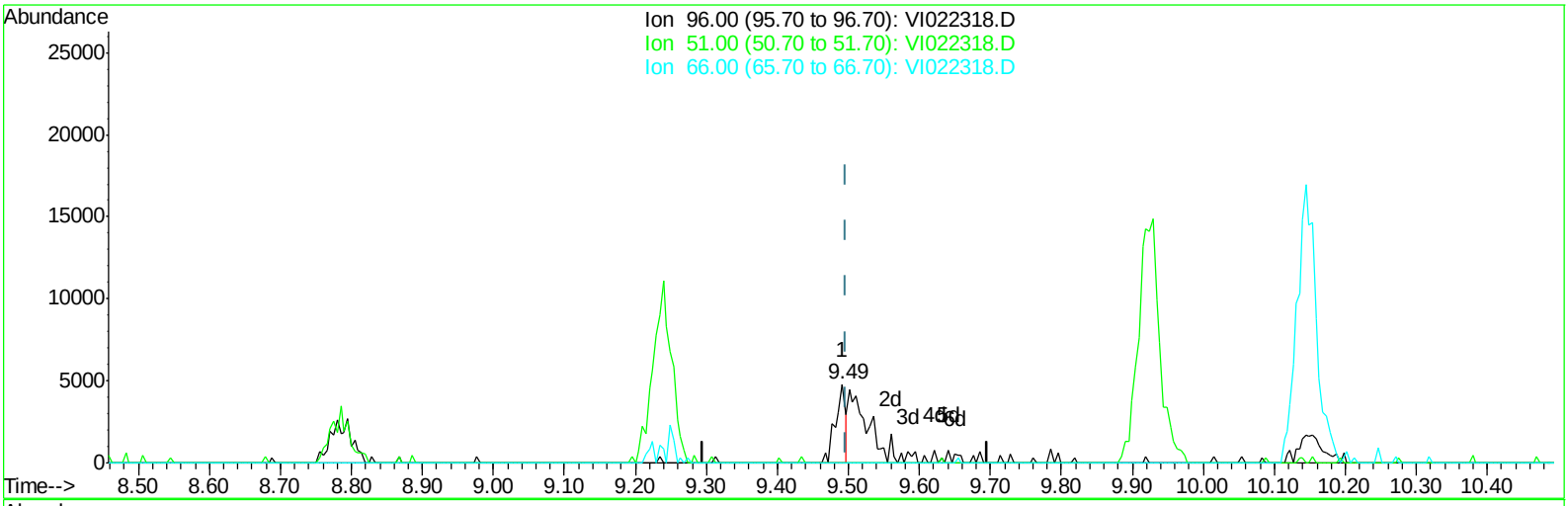
response 43575

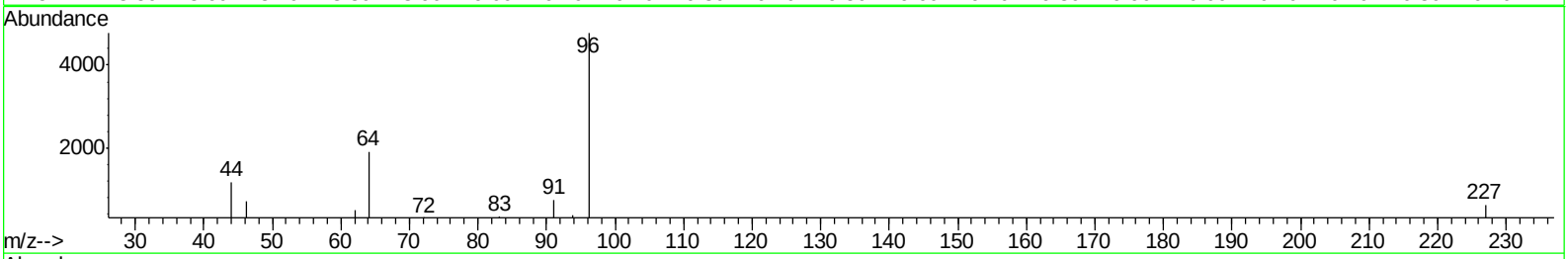
Ion	Exp%	Act%
69.00	100	100
71.00	33.20	17.99#
51.00	7.00	21.48#
0.00	0.00	0.00

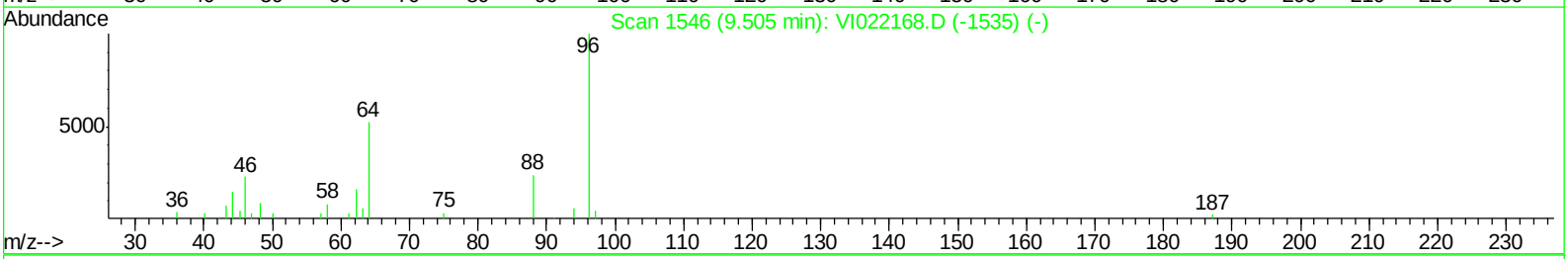
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022318.D
Acq On : 19 Oct 2008 20:27
Operator : MS
Sample : Z4983-06
Misc : 5.01g/5mL/10mL purge,MSVOAI
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 20 11:50:41 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022318.D

(28) 1,4-Dioxane-d8 (S)

9.491min (-0.005) 254.59ug/L

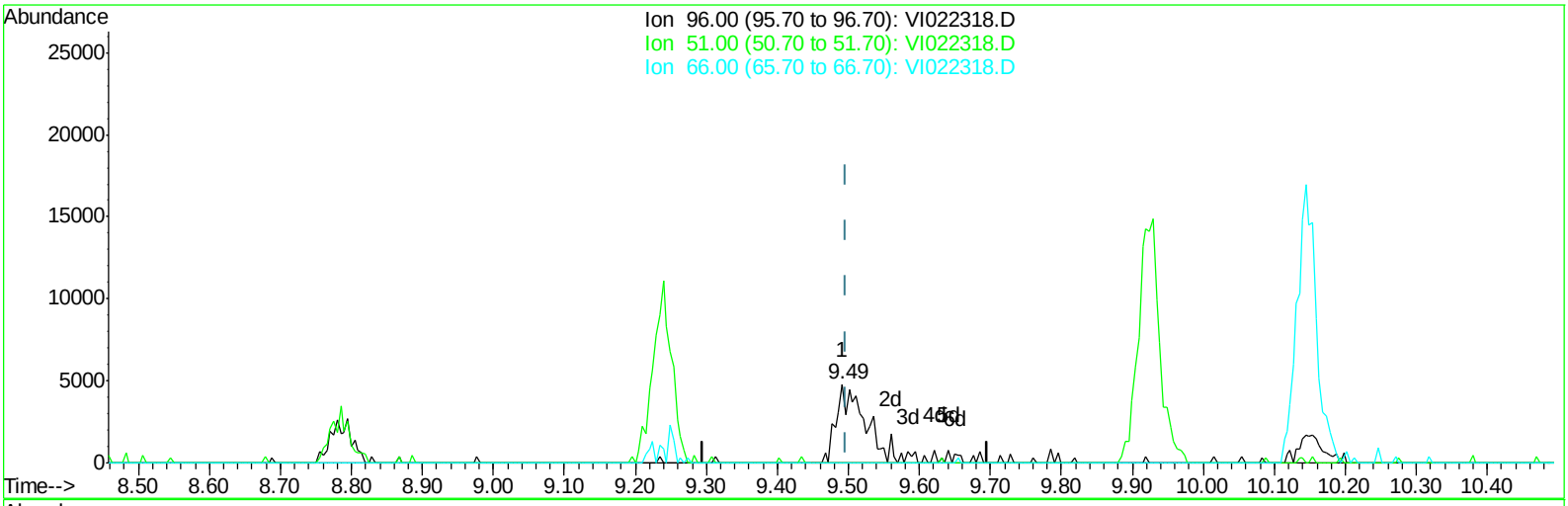
response 4558

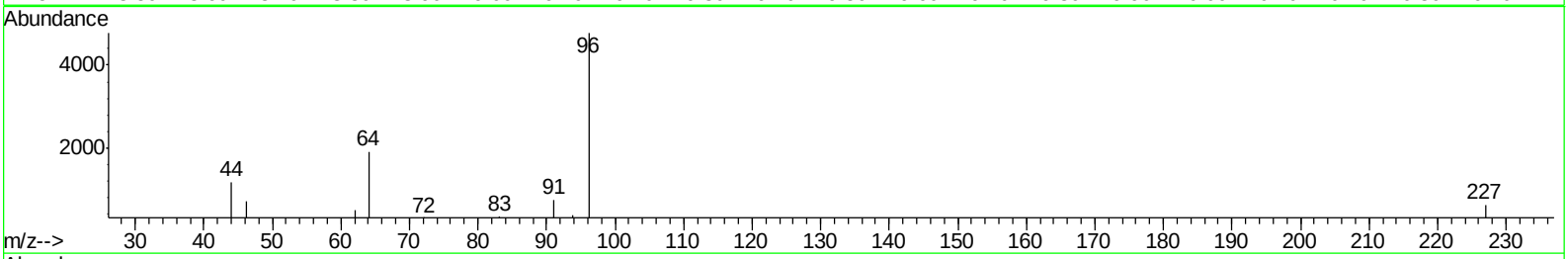
Ion	Exp%	Act%
96.00	100	100
51.00	0.00	0.00
66.00	0.00	0.00
0.00	0.00	0.00

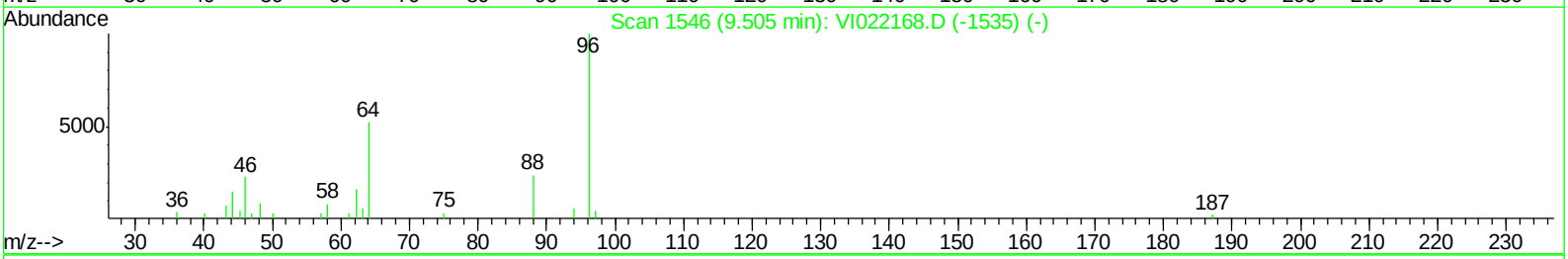
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022318.D
Acq On : 19 Oct 2008 20:27
Operator : MS
Sample : Z4983-06
Misc : 5.01g/5mL/10mL purge,MSVOAI
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 20 11:50:41 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022318.D

(28) 1,4-Dioxane-d8 (S)

9.491min (-0.005) 737.53ug/L m

response 13204

Ion	Exp%	Act%
96.00	100	100
51.00	0.00	0.00
66.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022318.D
Acq On : 19 Oct 2008 20:27
Operator : MS
Sample : Z4983-06
Misc : 5.01g/5mL/10mL purge,MSVOAI
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 20 11:52:17 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.79	114	297102	50.00	ug/L	0.00
30) Chlorobenzene-d5	11.68	117	361723	50.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	13.98	152	190140	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	3.99	65	107998	59.74	ug/L	-0.01
7) Chloroethane-d5	4.58	69	43575m	103.33	ug/L	0.00
10) 1,1-Dichloroethene-d2	5.36	63	131001	64.23	ug/L	0.00
22) Chloroform-d	7.60	84	313249	57.26	ug/L	0.00
24) 2-Butanone-d5	7.86	46	61181	95.24	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.36	65	194447	67.69	ug/L	0.00
28) 1,4-Dioxane-d8	9.49	96	13204m	737.53	ug/L	0.00
34) Benzene-d6	8.22	84	410208	52.98	ug/L	0.00
38) 1,2-Dichloropropane-d6	9.23	67	121189	48.90	ug/L	0.00
42) Toluene-d8	10.14	98	355996	47.16	ug/L	0.00
45) trans-1,3-Dichloropropene-	10.54	79	51678	48.24	ug/L	0.00
51) 2-Hexanone-d5	11.26	63	74897	85.24	ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	12.97	84	168240	46.99	ug/L	0.00
65) 1,2-Dichlorobenzene-d4	14.45	152	171347	47.82	ug/L	0.00

Target Compounds Qvalue

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

LSC Area Percent Report

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022318.D
Acq On : 19 Oct 2008 20:27
Operator : MS
Sample : Z4983-06
Misc : 5.01g/5mL/10mL purge,MSVOAI
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.237	35	43	44	rBV	463288	521868	16.22%	3.395%
2	3.271	44	50	51	rBV	896181	1413558	43.94%	9.197%
3	3.320	58	60	81	rVB	1730648	3217313	100.00%	20.932%
4	3.987	188	201	214	rBV	60797	176504	5.49%	1.148%
5	4.567	314	324	326	rBV3	25059	36337	1.13%	0.236%
6	4.587	326	328	338	rVB3	24496	46759	1.45%	0.304%
7	5.359	479	490	507	rBV3	122747	338790	10.53%	2.204%
8	7.599	954	967	978	rBV	333700	739334	22.98%	4.810%
9	7.856	1014	1023	1035	rBV2	43280	91890	2.86%	0.598%
10	8.221	1088	1100	1112	rBV2	391959	864483	26.87%	5.624%
11	8.355	1121	1130	1143	rBV3	196339	439034	13.65%	2.856%
12	8.785	1210	1221	1232	rBV2	387952	775497	24.10%	5.046%
13	9.239	1305	1316	1329	rBV3	266497	596954	18.55%	3.884%
14	9.919	1448	1459	1468	rBV3	223968	450317	14.00%	2.930%
15	10.144	1496	1507	1522	rBV2	502310	1019542	31.69%	6.633%
16	10.540	1581	1590	1601	rBV2	68331	141709	4.40%	0.922%
17	11.264	1732	1742	1750	rBV	168061	331435	10.30%	2.156%
18	11.677	1816	1828	1845	rBV	578445	1227243	38.14%	7.985%
19	12.973	2095	2107	2120	rVB3	246709	555160	17.26%	3.612%
20	13.982	2312	2324	2337	rVB2	520823	1221116	37.95%	7.945%
21	14.450	2412	2423	2438	rBV2	501948	1165210	36.22%	7.581%

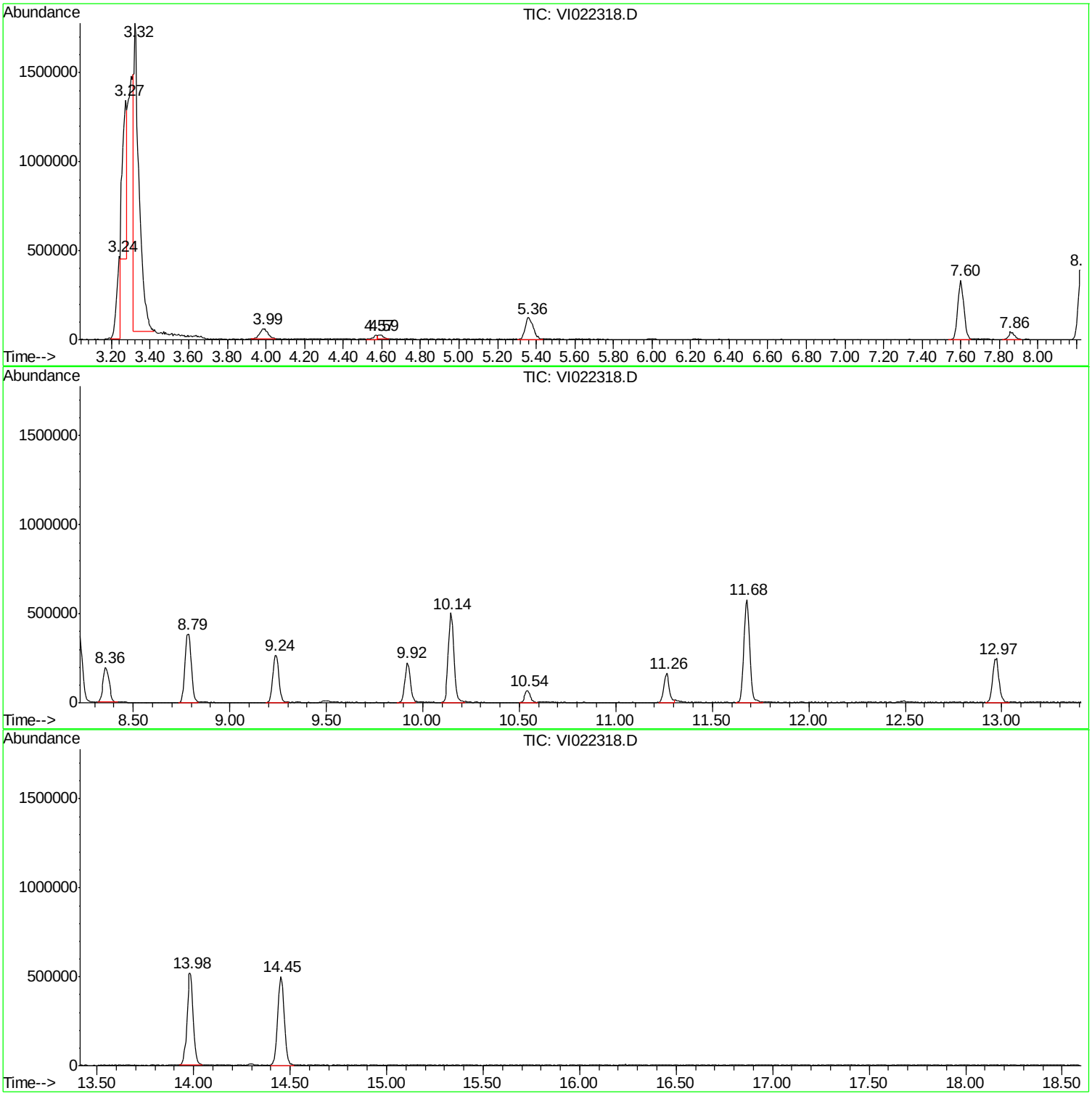
Sum of corrected areas: 15370053

LSC Report - Integrated Chromatogram

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022318.D
Acq On : 19 Oct 2008 20:27
Operator : MS
Sample : Z4983-06
Misc : 5.01g/5mL/10mL purge,MSVOAI
ALS Vial : 23 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (ESC) Library Search Report summary

```
DataPath::WW\NPCHEM1MSvoaI\DataVI101908\
DataFile::VI022318DD
AcqOn   ::19Oct2008 20:27
Operator::MS
Sample  ::Z4983006
Misc    ::5001g/5mL/100mLpurge,MSVOAI
ALSVial ::23  SampleMultiplier:11

QuantMethod::WW\NPCHEM1MSVOAI\METHODS\SOMILM101908SMM
QuantTitle ::TRACEVOASOM0100

TICLibrary  ::C:\DATABASE\NIST02LL
TICIntegrationParameters::LSCINTPP
```

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

No Library Search Compounds Detected
****

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-09

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022319.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 9 Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl Chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
67-64-1	Acetone	11	U
75-15-0	Carbon disulfide	5.5	U
79-20-9	Methyl acetate	5.5	U
75-09-2	Methylene chloride	5.5	U
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-Butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
110-82-7	Cyclohexane	5.5	U
56-23-5	Carbon Tetrachloride	5.5	U
71-43-2	Benzene	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
123-91-1	1,4-Dioxane	110	U

Report 1,4 -Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-09

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022319.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 9 Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
79-01-6	Trichloroethene	5.5	U
108-87-2	Methylcyclohexane	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
100-41-4	Ethylbenzene	5.5	U
95-47-6	o-Xylene	5.5	U
179601-23-1	m,p-Xylene	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DUP

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4983-09

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022319.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/15/2008

% Moisture: not dec. 9.0 Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg Purge Volume: 10 (mL)

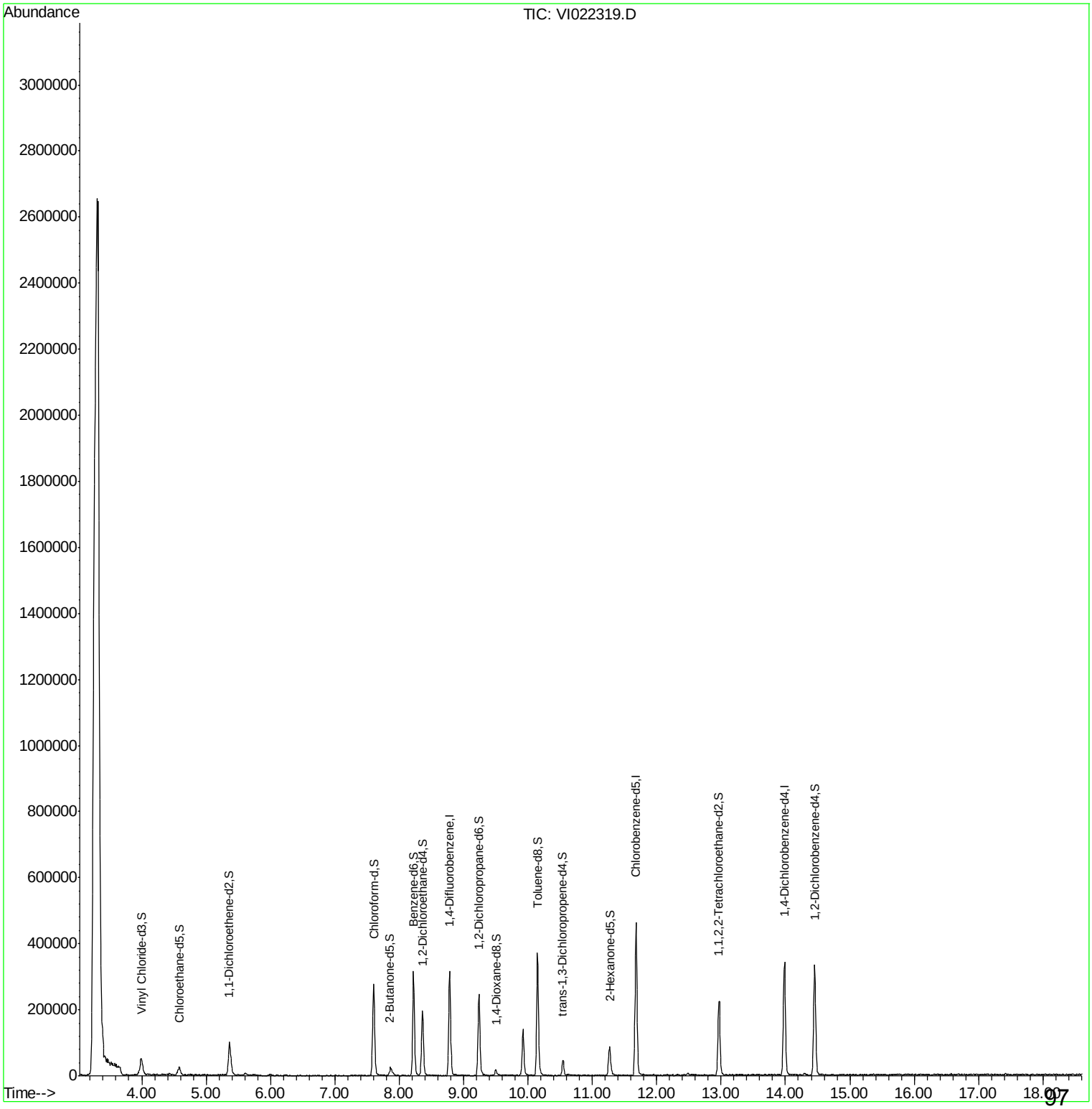
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.					
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[1]E966796	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022319.D
Acq On : 19 Oct 2008 20:51
Operator : MS
Sample : Z4983-09
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 24 Sample Multiplier: 1

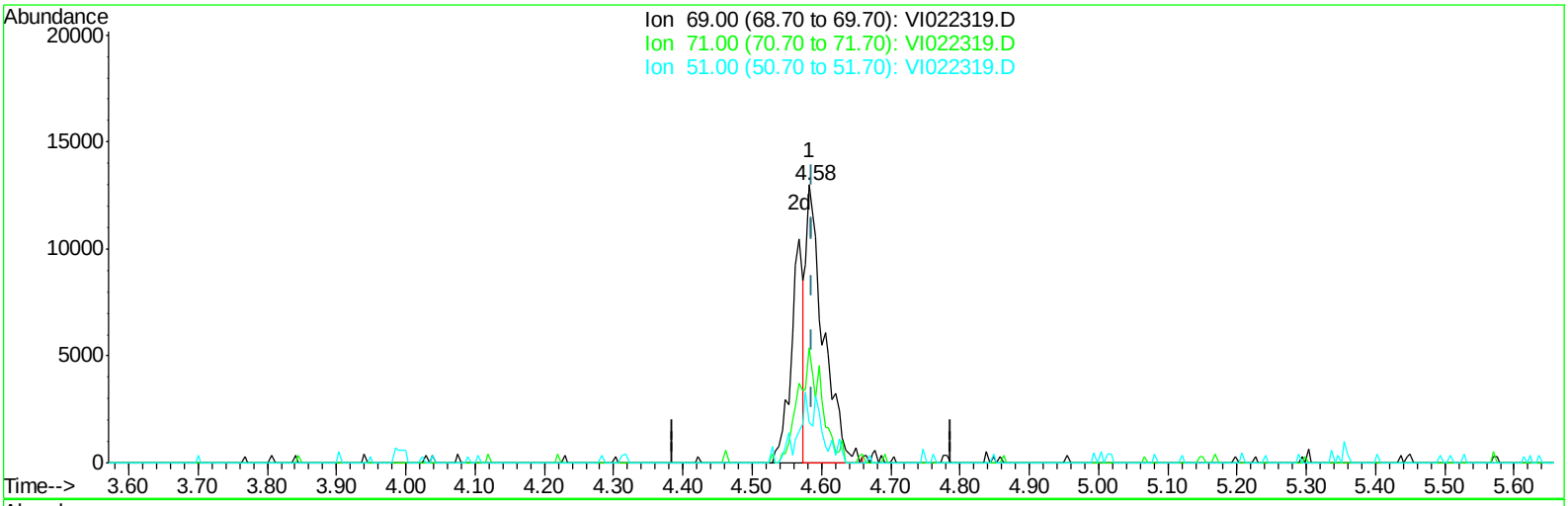
Quant Time: Oct 20 11:54:34 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

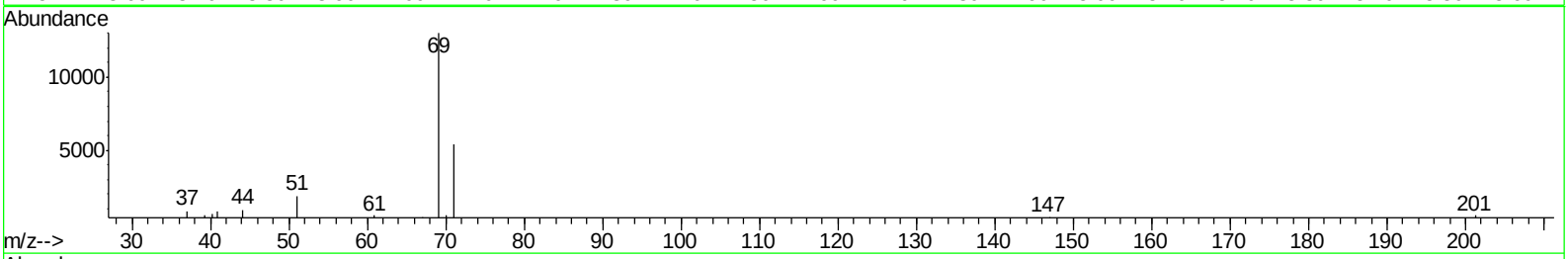


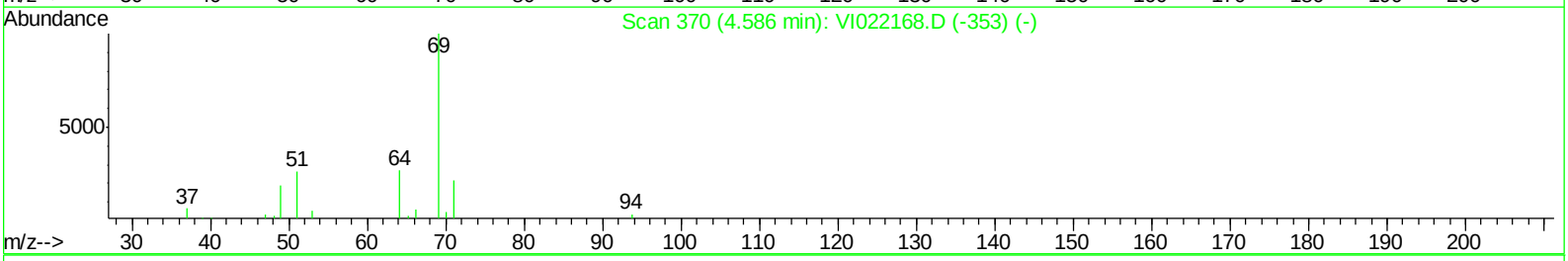
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022319.D
Acq On : 19 Oct 2008 20:51
Operator : MS
Sample : Z4983-09
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 20 11:53:26 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022319.D

(7) Chloroethane-d5 (S)

4.582min (-0.005) 63.56ug/L

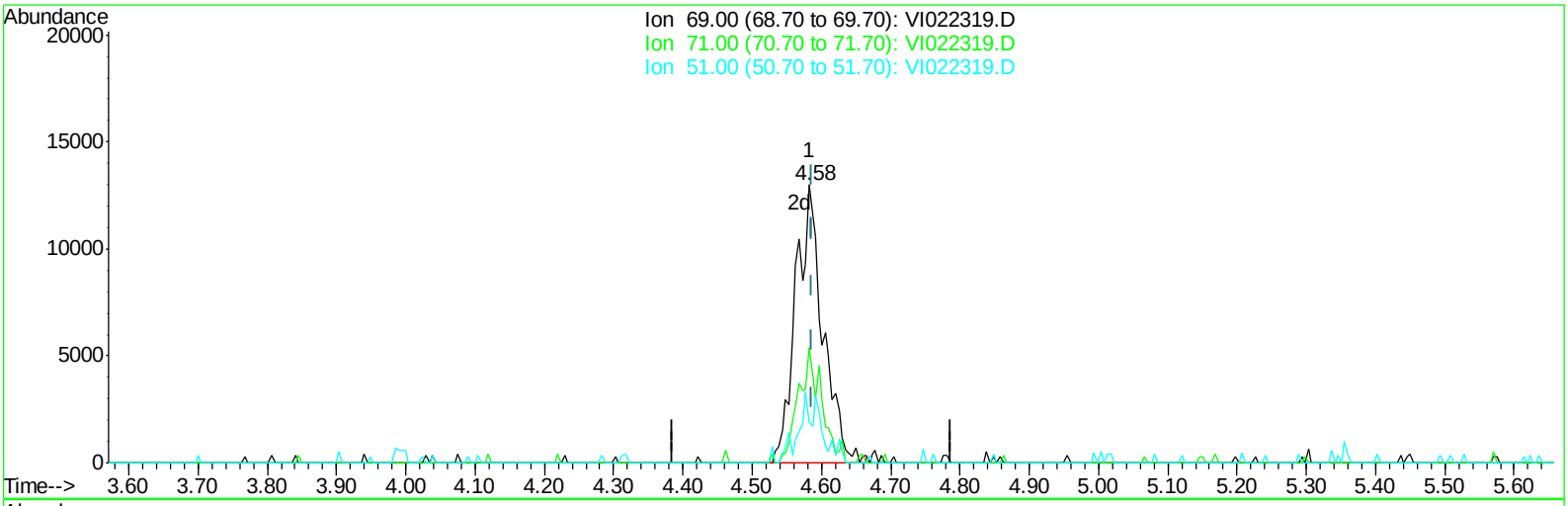
response 23127

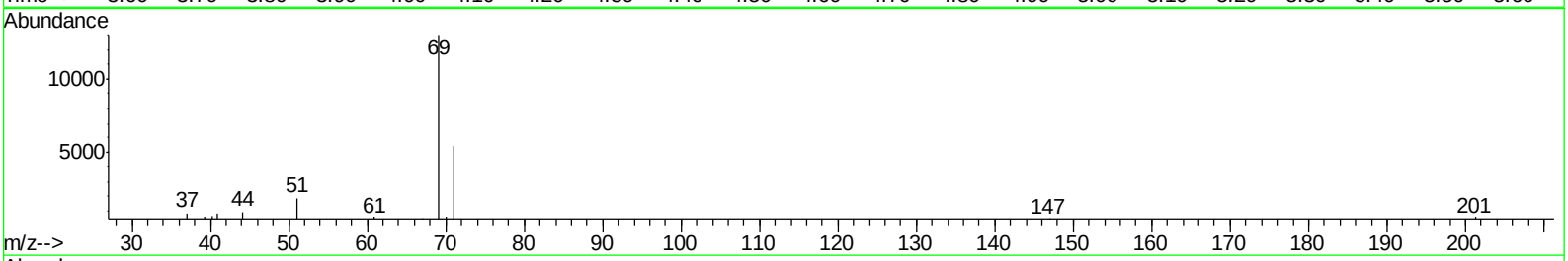
Ion	Exp%	Act%
69.00	100	100
71.00	33.20	54.65#
51.00	7.00	12.09#
0.00	0.00	0.00

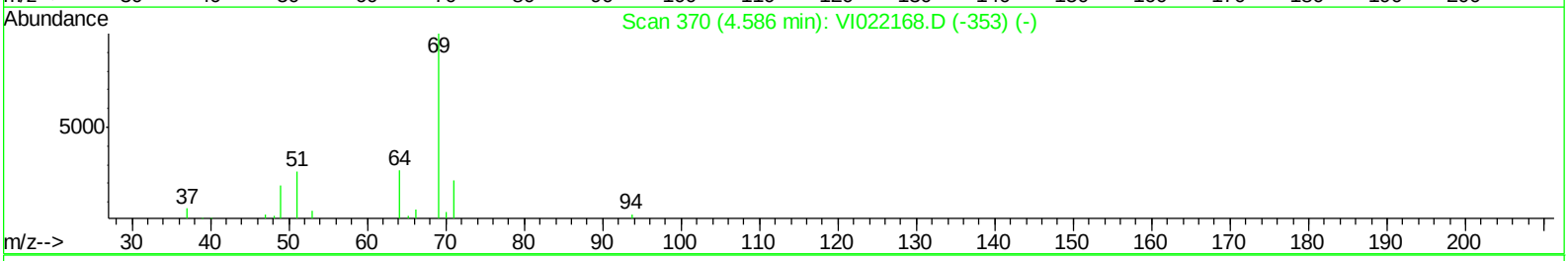
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022319.D
Acq On : 19 Oct 2008 20:51
Operator : MS
Sample : Z4983-09
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 20 11:53:26 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022319.D

(7) Chloroethane-d5 (S)

4.582min (-0.005) 98.41ug/L m

response 35809

Ion	Exp%	Act%
69.00	100	100
71.00	33.20	35.30
51.00	7.00	7.81
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022319.D
Acq On : 19 Oct 2008 20:51
Operator : MS
Sample : Z4983-09
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 20 11:54:34 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	8.79	114	256348	50.00 ug/L	0.00
30) Chlorobenzene-d5	11.68	117	276422	50.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	13.99	152	119260	50.00 ug/L	0.00
System Monitoring Compounds					
4) Vinyl Chloride-d3	3.99	65	86065	55.18 ug/L	0.00
7) Chloroethane-d5	4.58	69	35809m	98.41 ug/L	0.00
10) 1,1-Dichloroethene-d2	5.36	63	105144	59.75 ug/L	0.00
22) Chloroform-d	7.60	84	270235	57.25 ug/L	0.00
24) 2-Butanone-d5	7.86	46	30651	55.30 ug/L	0.00
26) 1,2-Dichloroethane-d4	8.36	65	185664	74.91 ug/L	0.00
28) 1,4-Dioxane-d8	9.51	96	16833	1089.71 ug/L	0.00
34) Benzene-d6	8.22	84	321539	54.34 ug/L	0.00
38) 1,2-Dichloropropane-d6	9.24	67	106063	56.00 ug/L	0.00
42) Toluene-d8	10.15	98	253666	43.98 ug/L	0.00
45) trans-1,3-Dichloropropene-	10.54	79	33376	40.77 ug/L	0.00
51) 2-Hexanone-d5	11.26	63	35583	52.99 ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	12.97	84	152126	55.60 ug/L	0.00
65) 1,2-Dichlorobenzene-d4	14.46	152	116255	51.73 ug/L	0.00

Target Compounds Qvalue

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

LSC Area Percent Report

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022319.D
Acq On : 19 Oct 2008 20:51
Operator : MS
Sample : Z4983-09
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.306	35	61	64	rBV	2651751	10215185	100.00%	57.517%
2	3.995	197	206	216	rVB2	46339	120090	1.18%	0.676%
3	5.360	485	495	514	rBV2	100561	263774	2.58%	1.485%
4	7.603	959	970	984	rBV2	277397	614958	6.02%	3.463%
5	8.221	1088	1100	1111	rBV2	316791	666489	6.52%	3.753%
6	8.359	1118	1129	1142	rBV2	194781	418289	4.09%	2.355%
7	8.785	1208	1218	1228	rBV	316301	641466	6.28%	3.612%
8	9.240	1305	1315	1325	rBV2	246176	541748	5.30%	3.050%
9	9.925	1448	1460	1469	rBV2	140545	269567	2.64%	1.518%
10	10.148	1499	1508	1523	rBV2	372412	750752	7.35%	4.227%
11	11.269	1737	1746	1756	rBV4	89450	193556	1.89%	1.090%
12	11.678	1823	1832	1848	rBV	462558	925211	9.06%	5.209%
13	12.965	2090	2101	2113	rBV4	225707	541951	5.31%	3.051%
14	13.987	2303	2317	2331	rBV3	345882	823635	8.06%	4.638%
15	14.452	2404	2414	2428	rBV	332432	773530	7.57%	4.355%

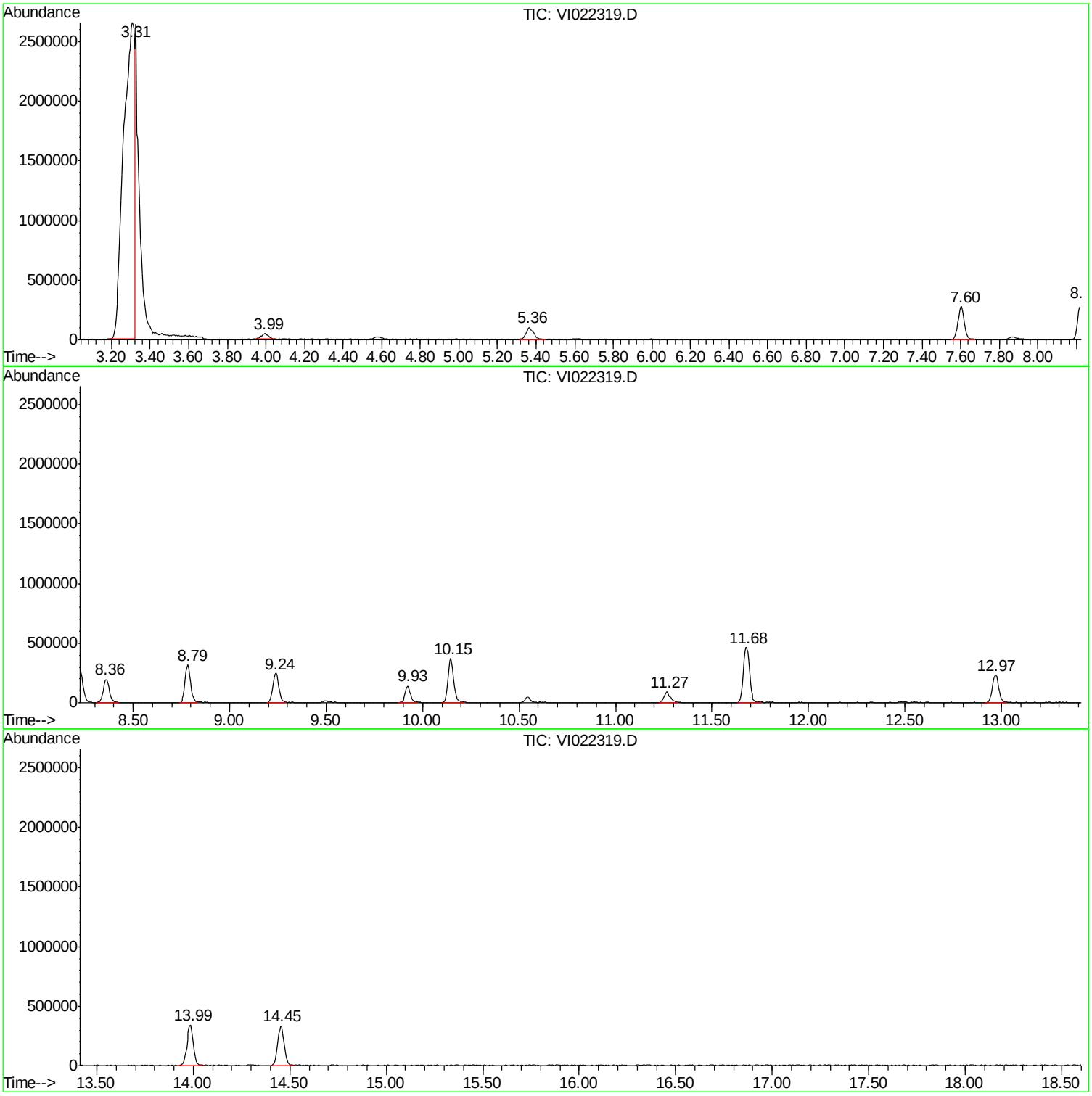
Sum of corrected areas: 17760201

LSC Report - Integrated Chromatogram

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022319.D
Acq On : 19 Oct 2008 20:51
Operator : MS
Sample : Z4983-09
Misc : 5.03g/5mL/10mL purge,MSVOAI
ALS Vial : 24 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (ESC) Library Search Report summary

```
DataPath ::WW\NPCHEM1MSvoaI\DataVI1019008\
DataFile ::VI022319DD
AcqOn    ::19Oct2008 20:51
Operator ::MS
Sample   ::Z4983009
Misc     ::5500g/5mL/100mLpurge,MSVOAI
ALSVial  ::24  SampleMultiplier:11

QuantMethod ::WW\NPCHEM1MSVOAI\METHODS\SOMILM101908SMM
QuantTitle ::TRACEVOASOM0100

TICLibrary  ::C:\DATABASE\NIST02LL
TICIntegrationParameters:LSCINTPP
```

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

No Library Search Compounds Detected
****

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUPRE

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-09RE

Sample wt/vol: 5.02 (g/mL) g Lab File ID: VI022333.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 9 Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	5.5	U
74-87-3	Chloromethane	5.5	U
75-01-4	Vinyl Chloride	5.5	U
74-83-9	Bromomethane	5.5	U
75-00-3	Chloroethane	5.5	U
75-69-4	Trichlorofluoromethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U
67-64-1	Acetone	11	U
75-15-0	Carbon disulfide	5.5	U
79-20-9	Methyl acetate	5.5	U
75-09-2	Methylene chloride	5.5	U
156-60-5	trans-1,2-Dichloroethene	5.5	U
1634-04-4	Methyl tert-Butyl ether	5.5	U
75-34-3	1,1-Dichloroethane	5.5	U
156-59-2	cis-1,2-Dichloroethene	5.5	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	5.5	U
67-66-3	Chloroform	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
110-82-7	Cyclohexane	5.5	U
56-23-5	Carbon Tetrachloride	5.5	U
71-43-2	Benzene	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
123-91-1	1,4-Dioxane	110	U

Report 1,4 -Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUPRE

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-09RE

Sample wt/vol: 5.02 (g/mL) g Lab File ID: VI022333.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 9 Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
79-01-6	Trichloroethene	5.5	U
108-87-2	Methylcyclohexane	5.5	U
78-87-5	1,2-Dichloropropane	5.5	U
75-27-4	Bromodichloromethane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
127-18-4	Tetrachloroethene	5.5	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	5.5	U
106-93-4	1,2-Dibromoethane	5.5	U
108-90-7	Chlorobenzene	5.5	U
100-41-4	Ethylbenzene	5.5	U
95-47-6	o-Xylene	5.5	U
179601-23-1	m,p-Xylene	5.5	U
100-42-5	Styrene	5.5	U
75-25-2	Bromoform	5.5	U
98-82-8	Isopropylbenzene	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
541-73-1	1,3-Dichlorobenzene	5.5	U
106-46-7	1,4-Dichlorobenzene	5.5	U
95-50-1	1,2-Dichlorobenzene	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DUPRE

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4983-09RE

Sample wt/vol: 5.02 (g/mL) g Lab File ID: VI022333.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/15/2008

% Moisture: not dec. 9.0 Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg Purge Volume: 10 (mL)

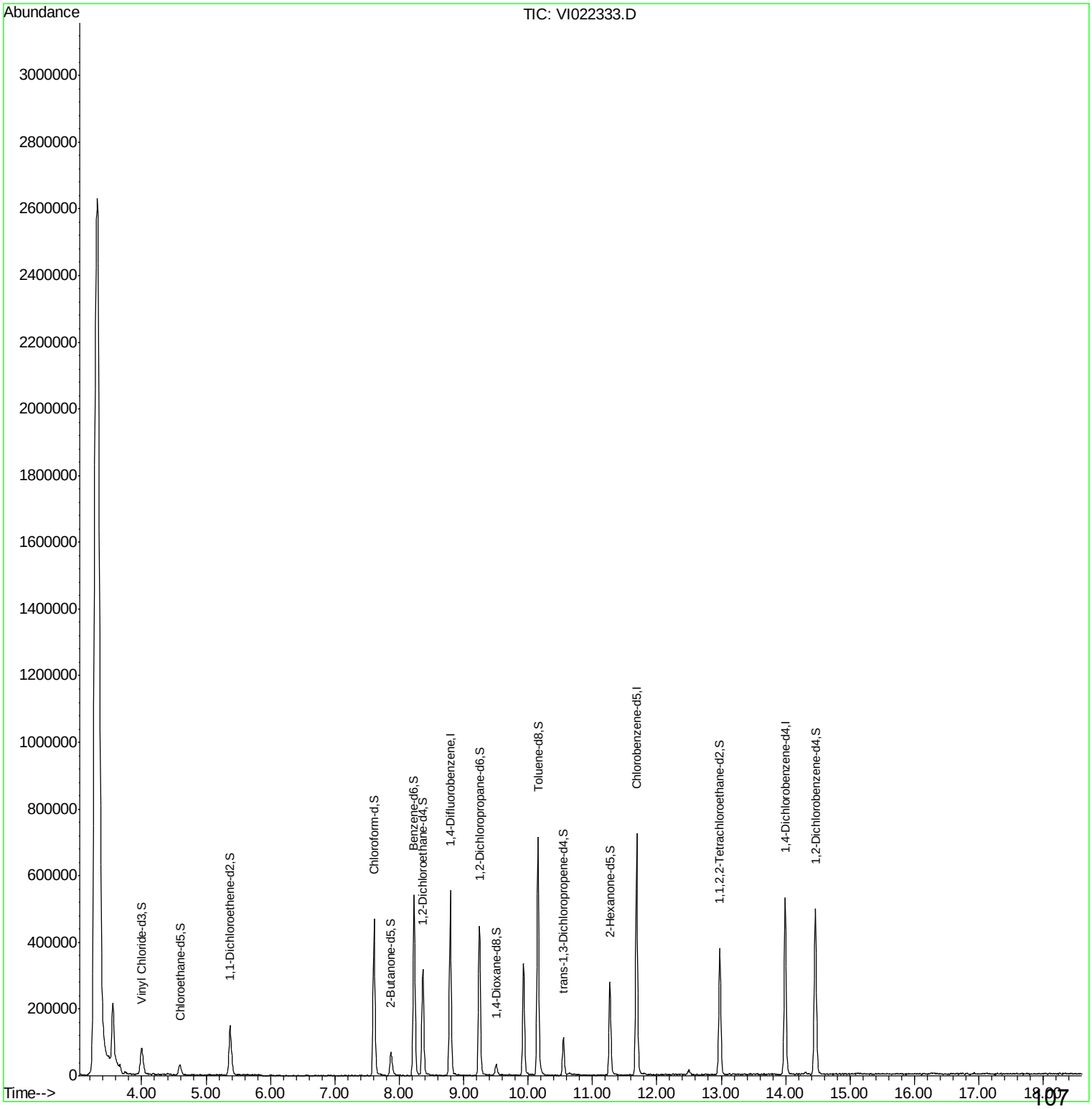
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	000075-37-6	Ethane, 1,1-difluoro-	3.55	30	JN
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[1]E966796	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022333.D
Acq On : 20 Oct 2008 14:16
Operator : MS
Sample : Z4983-09RE
Misc : 5.02g/5mL/10mL purge,MSVOAI
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 20 15:24:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022333.D
Acq On : 20 Oct 2008 14:16
Operator : MS
Sample : Z4983-09RE
Misc : 5.02g/5mL/10mL purge,MSVOAI
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 20 15:24:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	8.79	114	453601	50.00 ug/L	0.00
30) Chlorobenzene-d5	11.69	117	449725	50.00 ug/L	0.01
61) 1,4-Dichlorobenzene-d4	14.00	152	184114	50.00 ug/L	0.02
System Monitoring Compounds					
4) Vinyl Chloride-d3	4.01	65	152764	55.35 ug/L	0.00
7) Chloroethane-d5	4.60	69	47875	74.36 ug/L	0.00
10) 1,1-Dichloroethene-d2	5.38	63	152302	48.91 ug/L	0.02
22) Chloroform-d	7.61	84	452713	54.21 ug/L	0.01
24) 2-Butanone-d5	7.87	46	96980	98.89 ug/L	0.01
26) 1,2-Dichloroethane-d4	8.37	65	306405	69.87 ug/L	0.01
28) 1,4-Dioxane-d8	9.51	96	30053	1099.49 ug/L	0.01
34) Benzene-d6	8.23	84	540840	56.18 ug/L	0.00
38) 1,2-Dichloropropane-d6	9.25	67	203962	66.19 ug/L	0.00
42) Toluene-d8	10.16	98	517903	55.19 ug/L	0.01
45) trans-1,3-Dichloropropene-	10.56	79	87711	65.86 ug/L	0.02
51) 2-Hexanone-d5	11.27	63	125841	115.19 ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	12.98	84	253545	56.96 ug/L	0.01
65) 1,2-Dichlorobenzene-d4	14.46	152	181319	52.26 ug/L	0.01

Target Compounds Qvalue

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

LSC Area Percent Report

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022333.D
Acq On : 20 Oct 2008 14:16
Operator : MS
Sample : Z4983-09RE
Misc : 5.02g/5mL/10mL purge,MSVOAI
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.312	25	46	74	rBV	2623395	14708684	100.00%	50.459%
2	3.555	79	86	98	rVV3	211918	653215	4.44%	2.241%
3	4.006	147	160	168	rBV2	78105	240648	1.64%	0.826%
4	5.376	374	384	394	rBV2	152278	418571	2.85%	1.436%
5	7.610	739	749	762	rBV	469816	1049739	7.14%	3.601%
6	7.871	781	792	802	rBV	70476	187929	1.28%	0.645%
7	8.228	843	851	863	rBV	541077	1170857	7.96%	4.017%
8	8.367	863	874	886	rVV2	315215	695843	4.73%	2.387%
9	8.793	935	944	953	rBV	554543	1173000	7.97%	4.024%
10	9.246	1008	1018	1028	rBV2	450210	992464	6.75%	3.405%
11	9.932	1123	1131	1145	rBV	334673	710412	4.83%	2.437%
12	10.157	1159	1168	1181	rBV	715293	1486418	10.11%	5.099%
13	10.549	1220	1232	1241	rBV3	115294	247159	1.68%	0.848%
14	11.273	1343	1351	1364	rBV2	279413	594943	4.04%	2.041%
15	11.688	1409	1419	1426	rBV	723815	1518470	10.32%	5.209%
16	12.977	1622	1632	1642	rBV	379792	850972	5.79%	2.919%
17	13.995	1789	1799	1812	rBV	531096	1223985	8.32%	4.199%
18	14.462	1863	1875	1885	rBV	497418	1226631	8.34%	4.208%

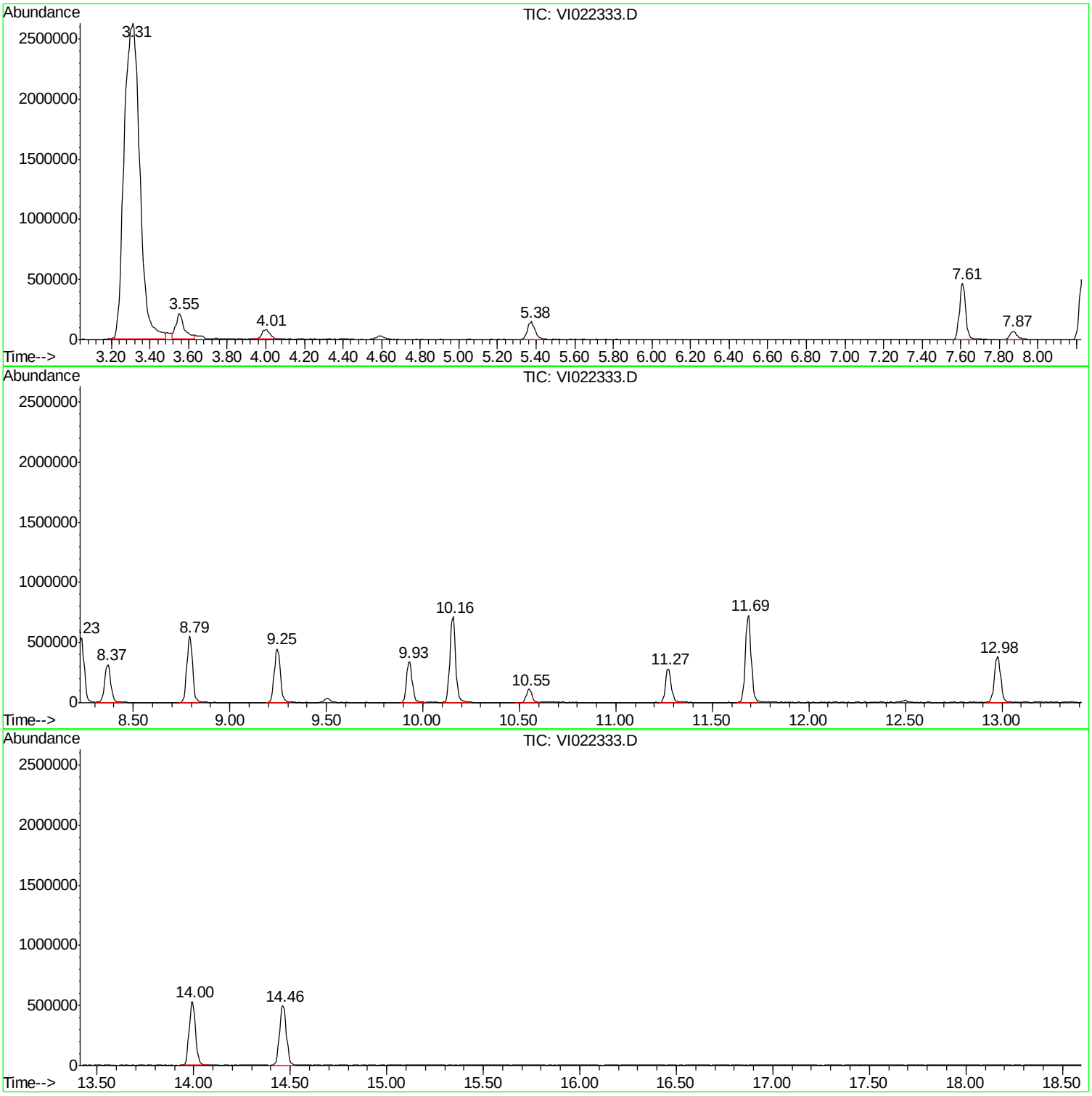
Sum of corrected areas: 29149940

LSC Report - Integrated Chromatogram

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022333.D
Acq On : 20 Oct 2008 14:16
Operator : MS
Sample : Z4983-09RE
Misc : 5.02g/5mL/10mL purge,MSVOAI
ALS Vial : 9 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022333.D
Acq On : 20 Oct 2008 14:16
Operator : MS
Sample : Z4983-09RE
Misc : 5.02g/5mL/10mL purge,MSVOAI
ALS Vial : 9 Sample Multiplier: 1

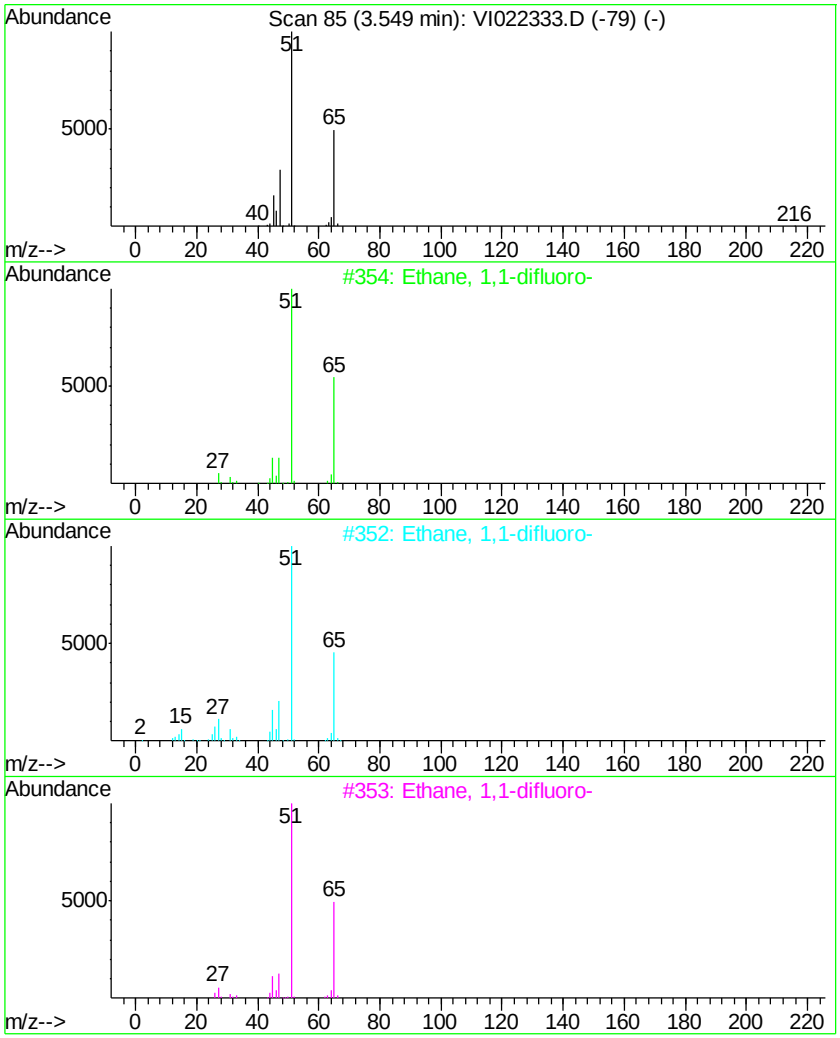
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

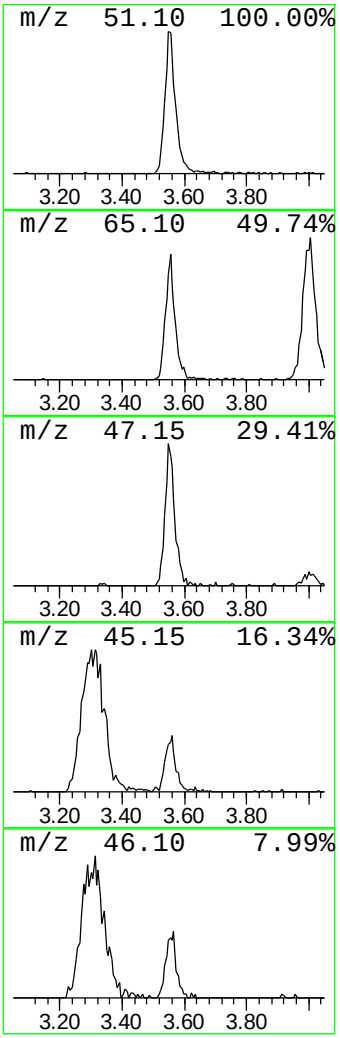
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Ethane, 1,1-difluoro- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.55	27.84 ug/L	653215	1,4-Difluorobenzene	8.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	90
2	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	90
3	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	83
4	Propiolonitrile	51	C3HN	001070-71-9	3
5	Propane, 2,2-difluoro-	80	C3H6F2	000420-45-1	1





Tentatively Identified Compound (LSC) summary

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022333.D
Acq On : 20 Oct 2008 14:16
Operator : MS
Sample : Z4983-09RE
Misc : 5.02g/5mL/10mL purge,MSVOAI
ALS Vial : 9 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethane, 1,1-diflu...	3.55	27.8	ug/L	653215	1	8.79	1173000	50.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: Z4983-10

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: VE010479.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. Date Analyzed: 10/17/2008

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4 -Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: Z4983-10

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: VE010479.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. Date Analyzed: 10/17/2008

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIPBLANK

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: Z4983-10

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: VE010479.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/15/2008

% Moisture: not dec. Date Analyzed: 10/17/2008

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5 (mL)

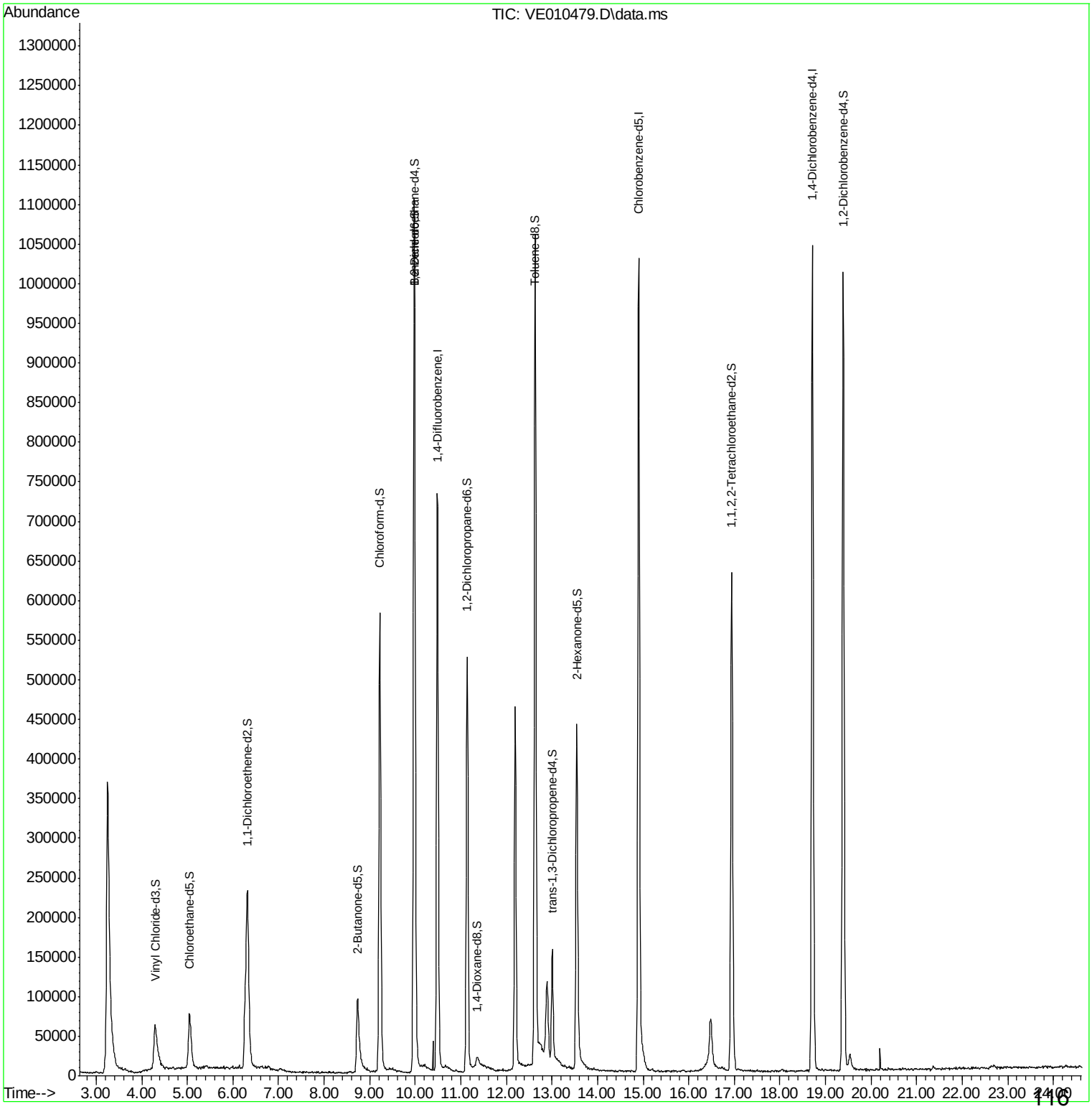
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.					
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[1]E966796	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010479.D
Acq On : 17 Oct 2008 14:54
Operator : SY
Sample : Z4983-10
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

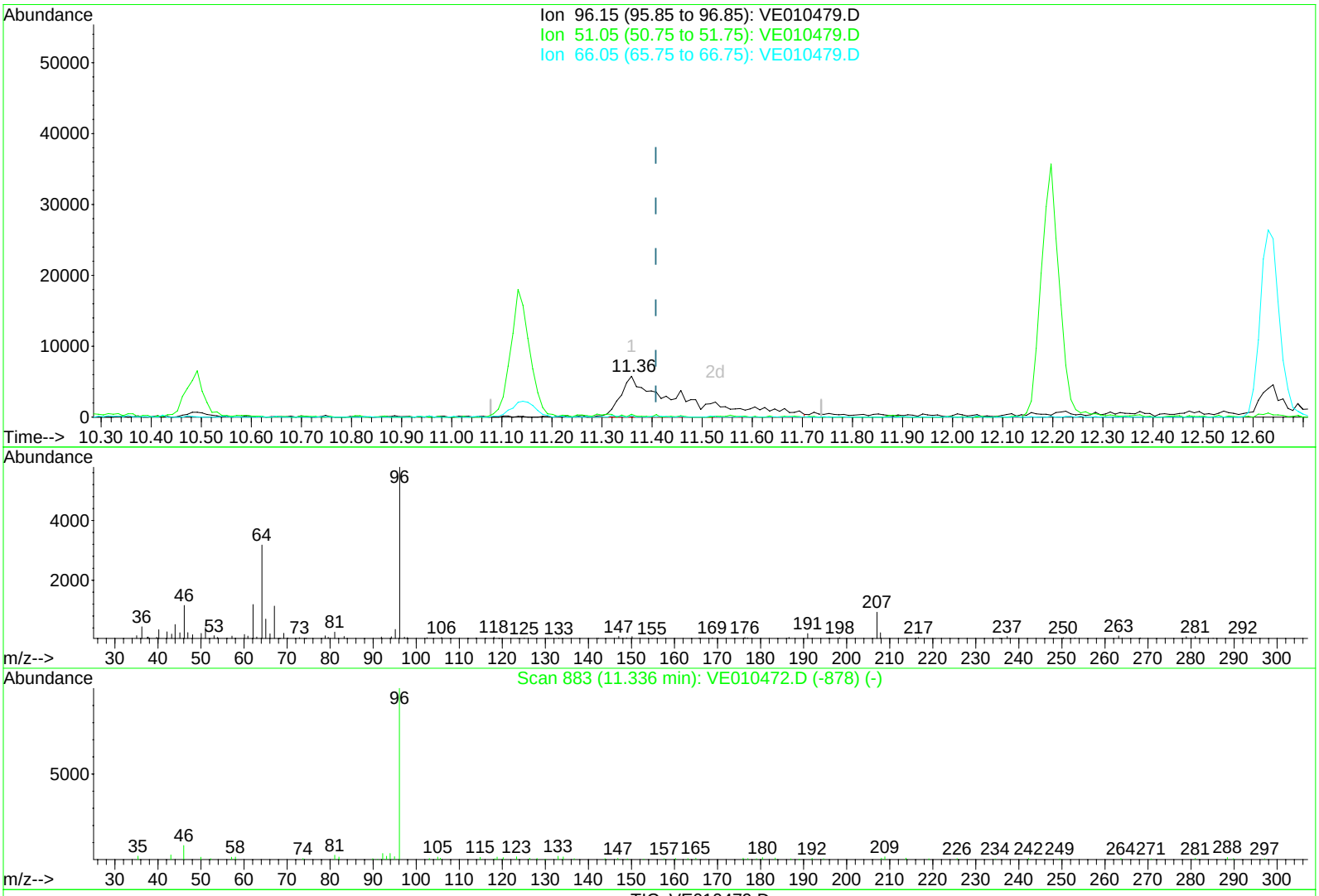
Quant Time: Oct 18 05:11:58 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa E\Data\VE101708\
Data File : VE010479.D
Acq On : 17 Oct 2008 14:54
Operator : SY
Sample : Z4983-10
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 18 05:09:33 2008
Quant Method : W:\HPCHEM1\Msvoa E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration



TIC: VE010479.D

(27) 1,4-Dioxane-d8 (S)

11.359min (-0.049) 711.12ug/L m

response 50175

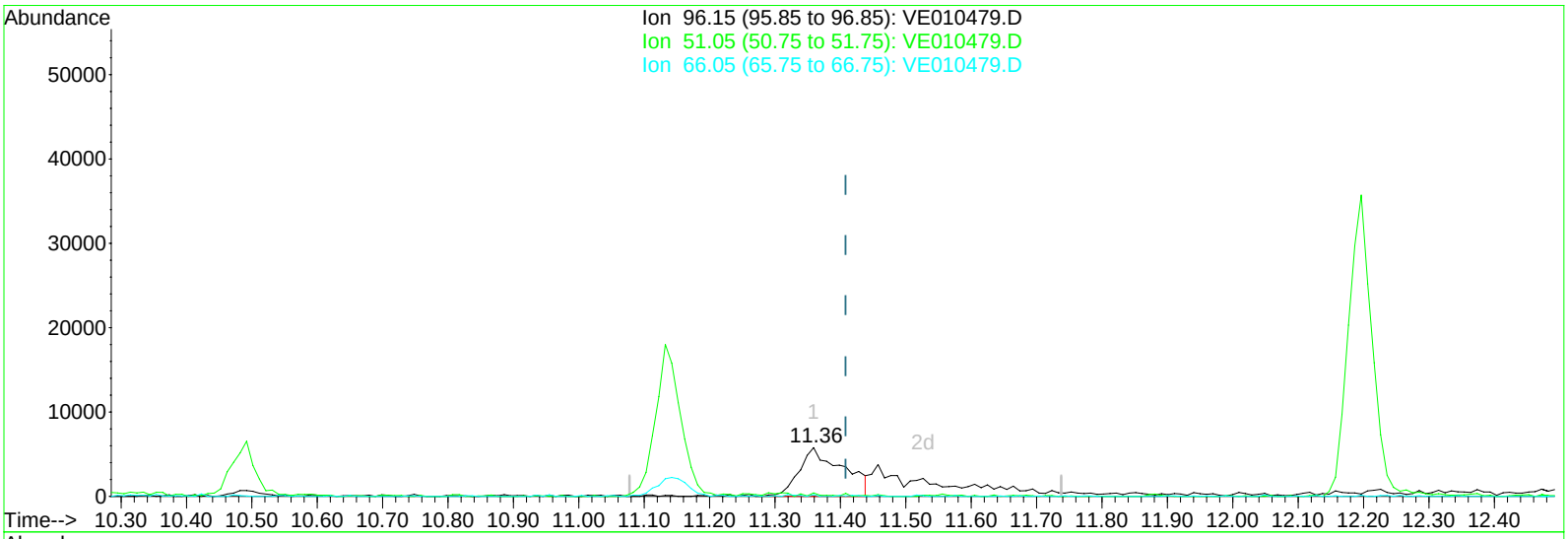
Ion	Exp%	Act%
96.15	100	100
51.05	4.50	7.23#
66.05	1.70	3.58#
0.00	0.00	0.00

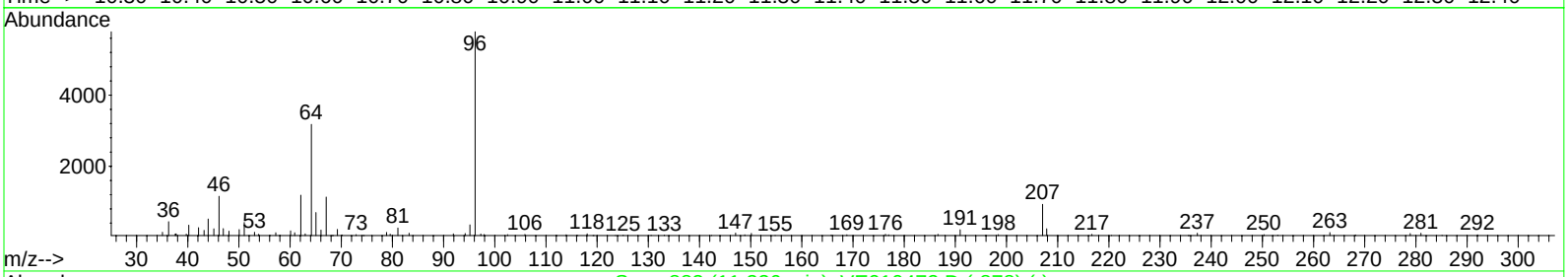
117

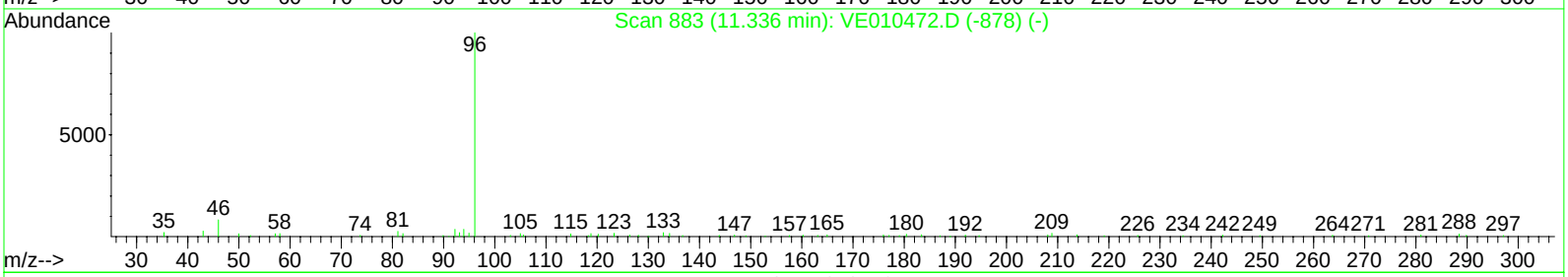
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa E\Data\VE101708\
Data File : VE010479.D
Acq On : 17 Oct 2008 14:54
Operator : SY
Sample : Z4983-10
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 18 05:09:33 2008
Quant Method : W:\HPCHEM1\Msvoa E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration







TIC: VE010479.D

(27) 1,4-Dioxane-d8 (S)

11.359min (-0.049) 380.19ug/L

response 26825

Ion	Exp%	Act%
96.15	100	100
51.05	4.50	6.50#
66.05	1.70	4.54#
0.00	0.00	0.00

118

Quantitation Report (QT/LSC Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010479.D
Acq On : 17 Oct 2008 14:54
Operator : SY
Sample : Z4983-10
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 18 05:11:58 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	10.492	114	880237	50.00	ug/L	-0.05
30) Chlorobenzene-d5	14.906	117	1005675	50.00	ug/L	-0.05
61) 1,4-Dichlorobenzene-d4	18.710	152	506106	50.00	ug/L	-0.06
System Monitoring Compounds						
4) Vinyl Chloride-d3	4.294	65	182756	48.06	ug/L	-0.03
Spiked Amount 50.000			Recovery	=	96.12%	
6) Chloroethane-d5	5.043	69	141910	61.80	ug/L	-0.04
Spiked Amount 50.000			Recovery	=	123.60%	
10) 1,1-Dichloroethene-d2	6.324	63	414709	44.78	ug/L	-0.03
Spiked Amount 50.000			Recovery	=	89.56%	
20) 2-Butanone-d5	8.738	46	246431	90.94	ug/L	-0.05
Spiked Amount 100.000			Recovery	=	90.94%	
21) Chloroform-d	9.221	84	680675	53.94	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	107.88%	
24) 1,2-Dichloroethane-d4	9.979	65	470511	56.47	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	112.94%	
27) 1,4-Dioxane-d8	11.359	96	50175m	711.12	ug/L	-0.05
Spiked Amount 1250.000			Recovery	=	56.89%	
31) Benzene-d6	9.979	84	1011580	46.76	ug/L	-0.05
Spiked Amount 50.000			Recovery	=	93.52%	
36) 1,2-Dichloropropane-d6	11.132	67	334279	41.41	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	82.82%	
38) trans-1,3-Dichloroprop...	13.004	79	115892	40.70	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	81.40%	
39) Toluene-d8	12.630	98	1061515	45.85	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	91.70%	
41) 2-Hexanone-d5	13.546	63	246390	89.69	ug/L	-0.06
Spiked Amount 100.000			Recovery	=	89.69%	
50) 1,1,2,2-Tetrachloroeth...	16.936	84	595989	45.79	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	91.58%	
62) 1,2-Dichlorobenzene-d4	19.390	152	508350	51.76	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	103.52%	

Target Compounds Qvalue

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

LSC Area Percent Report

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010479.D
Acq On : 17 Oct 2008 14:54
Operator : SY
Sample : Z4983-10
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Title : TRACE VOA SOM01.0

Signal : TIC: VE010479.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.249	53	63	83	rBV	367233	1761846	54.99%	5.951%
2	4.284	162	168	181	rBV	55913	301616	9.41%	1.019%
3	5.043	237	245	257	rBV3	67823	280018	8.74%	0.946%
4	6.324	362	375	387	rBV	224233	1120695	34.98%	3.786%
5	8.738	614	620	632	rBV	93112	396734	12.38%	1.340%
6	9.221	662	669	681	rBV	578646	1675915	52.31%	5.661%
7	9.979	738	746	759	rBV	1103275	3203928	100.00%	10.823%
8	10.482	790	797	808	rBV	727707	2029623	63.35%	6.856%
9	11.132	855	863	871	rBV	525076	1565975	48.88%	5.290%
10	11.359	882	886	894	rBV6	10752	44065	1.38%	0.149%
11	12.196	964	971	979	rBV	458667	1206594	37.66%	4.076%
12	12.630	1009	1015	1024	rBV	1047721	2882385	89.96%	9.737%
13	12.886	1034	1041	1048	rVB2	96233	351492	10.97%	1.187%
14	13.014	1048	1054	1062	rVB	138529	352762	11.01%	1.192%
15	13.546	1102	1108	1122	rBV2	435346	1315378	41.06%	4.443%
16	14.906	1238	1246	1266	rBV	1027636	2971065	92.73%	10.036%
17	16.483	1389	1406	1418	rBV3	63307	327095	10.21%	1.105%
18	16.936	1445	1452	1464	rBV	629030	1890381	59.00%	6.386%
19	18.710	1624	1632	1641	rBV	1044532	2926390	91.34%	9.885%
20	19.390	1691	1701	1710	rBV	1009594	2923362	91.24%	9.875%
21	19.538	1711	1716	1725	rVB4	19676	76433	2.39%	0.258%

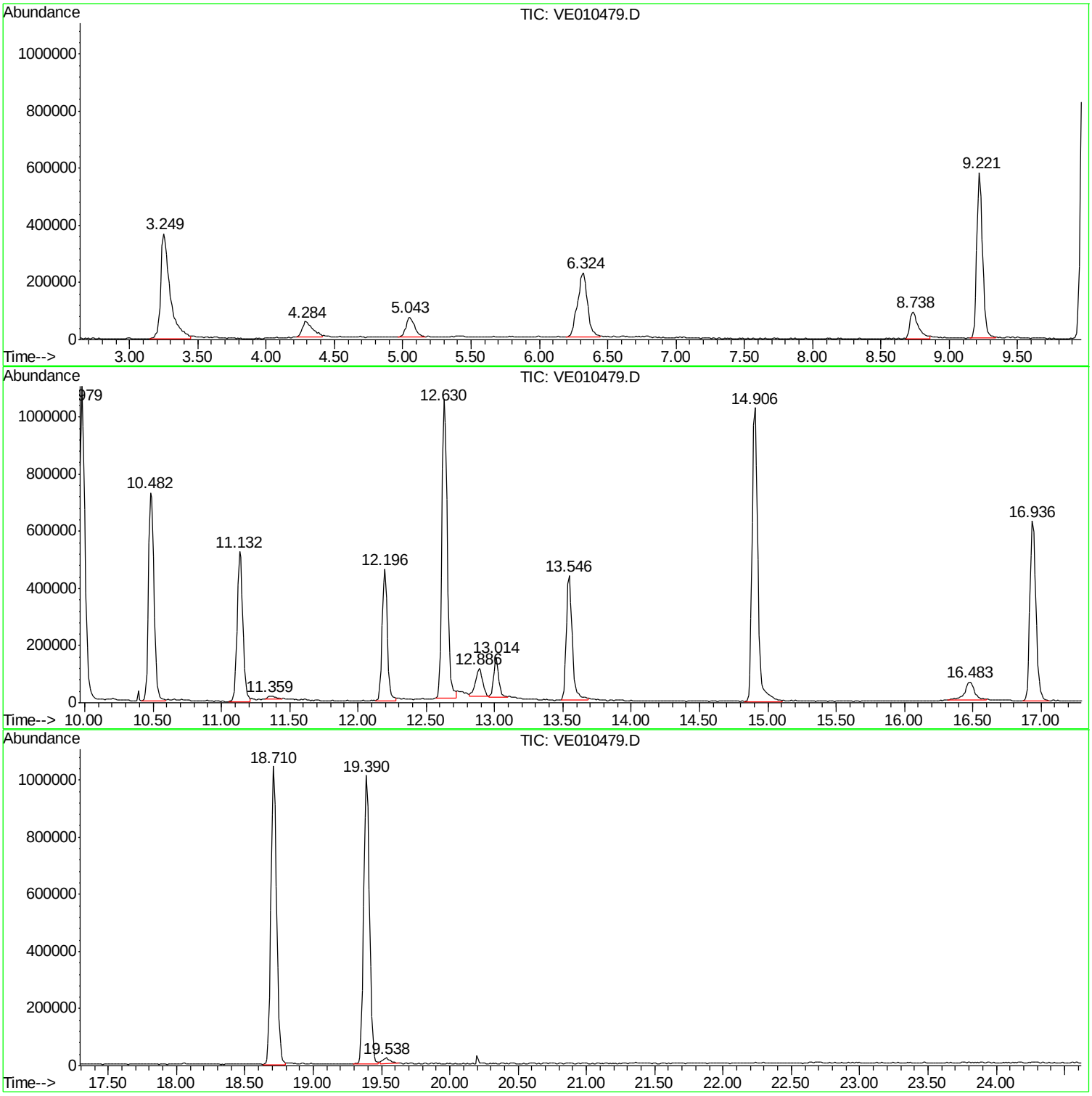
Sum of corrected areas: 29603752

LSC Report - Integrated Chromatogram

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010479.D
Acq On : 17 Oct 2008 14:54
Operator : SY
Sample : Z4983-10
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (RPC) Library Search Report summary

```
DataPath ::WW\NPCHEM1MsvoaEDataVE1007088\
DataFile ::VE1004799DD
AcqOn    ::17 Oct 2008 14:54
Operator ::SY
Sample   ::Z4983100
Misc     ::5ML,MSVOAE
ALSVial  ::99  SampleMultiplier:11

QuantMethod ::WW\NPCHEM1MsvoaEMethodSOMELMW101608MM
QuantTitle ::TRACEVOASOM0100

TICLibrary  ::C:\DATABASE\NIST02LL
TICIntegrationParameters:LSCINTP

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

No Library Search Compounds Detected
****

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-11

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022336.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 0.0 Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4 -Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4983-11

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022336.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. 0.0 Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4983-11

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022336.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/15/2008

% Moisture: not dec. 0.0 Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg Purge Volume: 10 (mL)

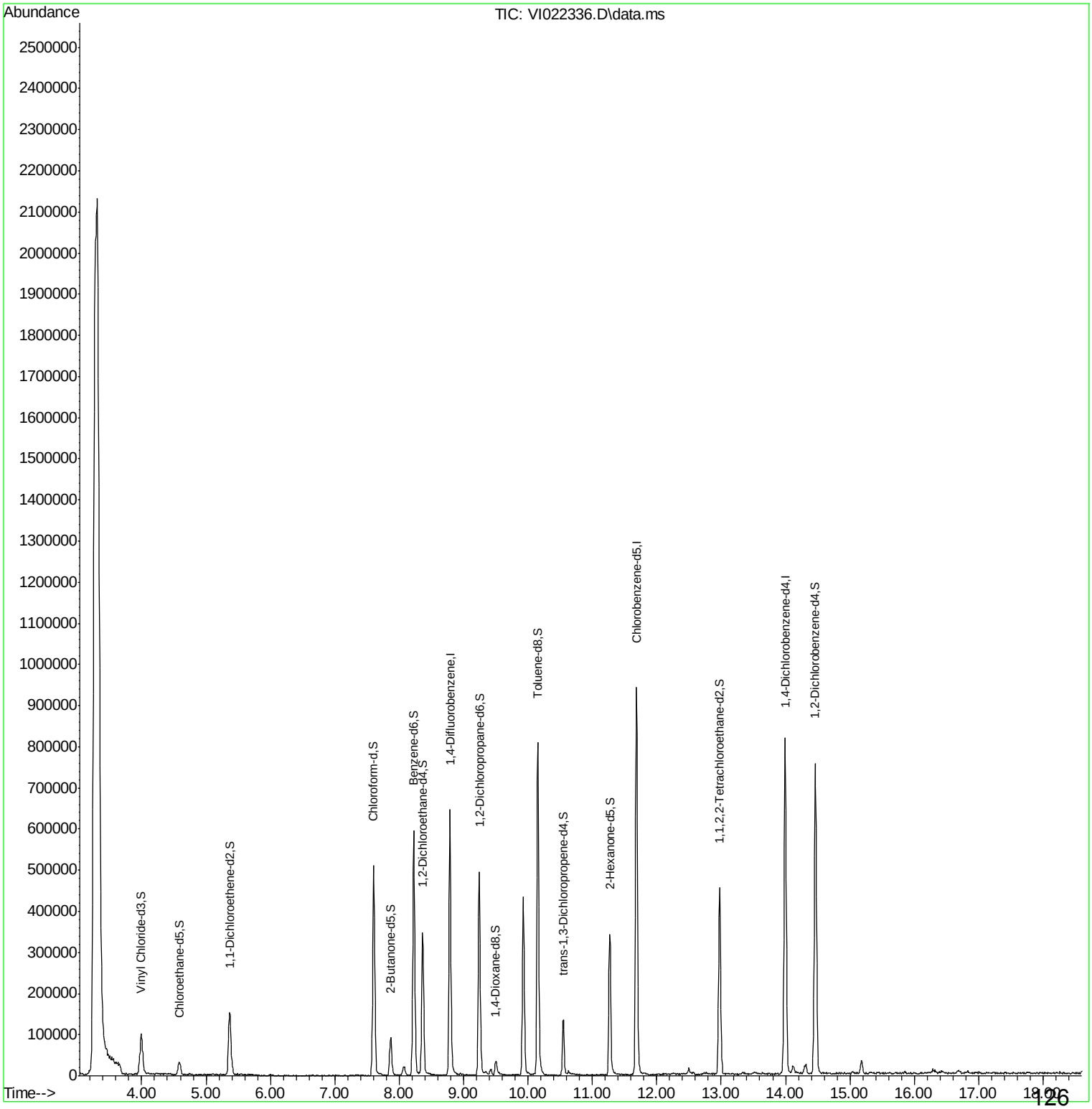
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.					
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[1]E966796	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022336.D
Acq On : 20 Oct 2008 15:44
Operator : MS
Sample : Z4983-11
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 20 16:04:53 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration



Quantitation Report (QT/LSC Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022336.D
Acq On : 20 Oct 2008 15:44
Operator : MS
Sample : Z4983-11
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 20 16:04:53 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Difluorobenzene	8.788	114	512701	50.00 ug/L	0.00
30) Chlorobenzene-d5	11.685	117	561999	50.00 ug/L	0.01
61) 1,4-Dichlorobenzene-d4	13.998	152	273938	50.00 ug/L	0.02
System Monitoring Compounds					
4) Vinyl Chloride-d3	3.985	65	174666	55.99 ug/L	-0.01
7) Chloroethane-d5	4.583	69	51801	71.18 ug/L	0.00
10) 1,1-Dichloroethene-d2	5.366	63	169808	48.24 ug/L	0.00
22) Chloroform-d	7.602	84	494359	52.37 ug/L	0.00
24) 2-Butanone-d5	7.868	46	133741	120.65 ug/L	0.01
26) 1,2-Dichloroethane-d4	8.363	65	336947	67.97 ug/L	0.00
28) 1,4-Dioxane-d8	9.497	96	32838	1062.90 ug/L	0.00
34) Benzene-d6	8.223	84	600987	49.96 ug/L	0.00
38) 1,2-Dichloropropane-d6	9.245	67	224272	58.24 ug/L	0.00
42) Toluene-d8	10.151	98	611194	52.12 ug/L	0.00
45) trans-1,3-Dichloroprop...	10.551	79	99470	59.77 ug/L	0.01
51) 2-Hexanone-d5	11.270	63	150608	110.32 ug/L	0.01
59) 1,1,2,2-Tetrachloroeth...	12.975	84	303625	54.59 ug/L	0.01
65) 1,2-Dichlorobenzene-d4	14.462	152	258374	50.05 ug/L	0.01

Target Compounds Qvalue

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

LSC Area Percent Report

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022336.D
Acq On : 20 Oct 2008 15:44
Operator : MS
Sample : Z4983-11
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Title : TRACE VOA SOM01.0

Signal : TIC: VI022336.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.310	26	45	67	rBV	2122671	12576830	100.00%	42.649%
2	3.991	149	157	171	rVB2	97160	286967	2.28%	0.973%
3	5.366	372	380	393	rVB2	151213	428365	3.41%	1.453%
4	7.602	737	745	761	rBV	509493	1132618	9.01%	3.841%
5	7.868	779	789	797	rBV	93365	222334	1.77%	0.754%
6	8.223	840	848	859	rBV2	596534	1310540	10.42%	4.444%
7	8.363	862	871	883	rVV	344849	766178	6.09%	2.598%
8	8.788	930	941	952	rBV	646550	1357031	10.79%	4.602%
9	9.245	1005	1014	1026	rBV2	494914	1121410	8.92%	3.803%
10	9.927	1118	1126	1137	rBV	433990	900178	7.16%	3.053%
11	10.151	1154	1163	1175	rBV	807177	1716896	13.65%	5.822%
12	10.551	1220	1228	1237	rBV2	134209	275961	2.19%	0.936%
13	11.270	1339	1346	1357	rBV	342886	732073	5.82%	2.483%
14	11.685	1405	1414	1426	rBV	942236	1938969	15.42%	6.575%
15	12.975	1618	1626	1637	rVB2	452768	1004990	7.99%	3.408%
16	13.991	1783	1792	1805	rBV	815254	1901990	15.12%	6.450%
17	14.462	1859	1869	1885	rVB	755725	1815742	14.44%	6.157%

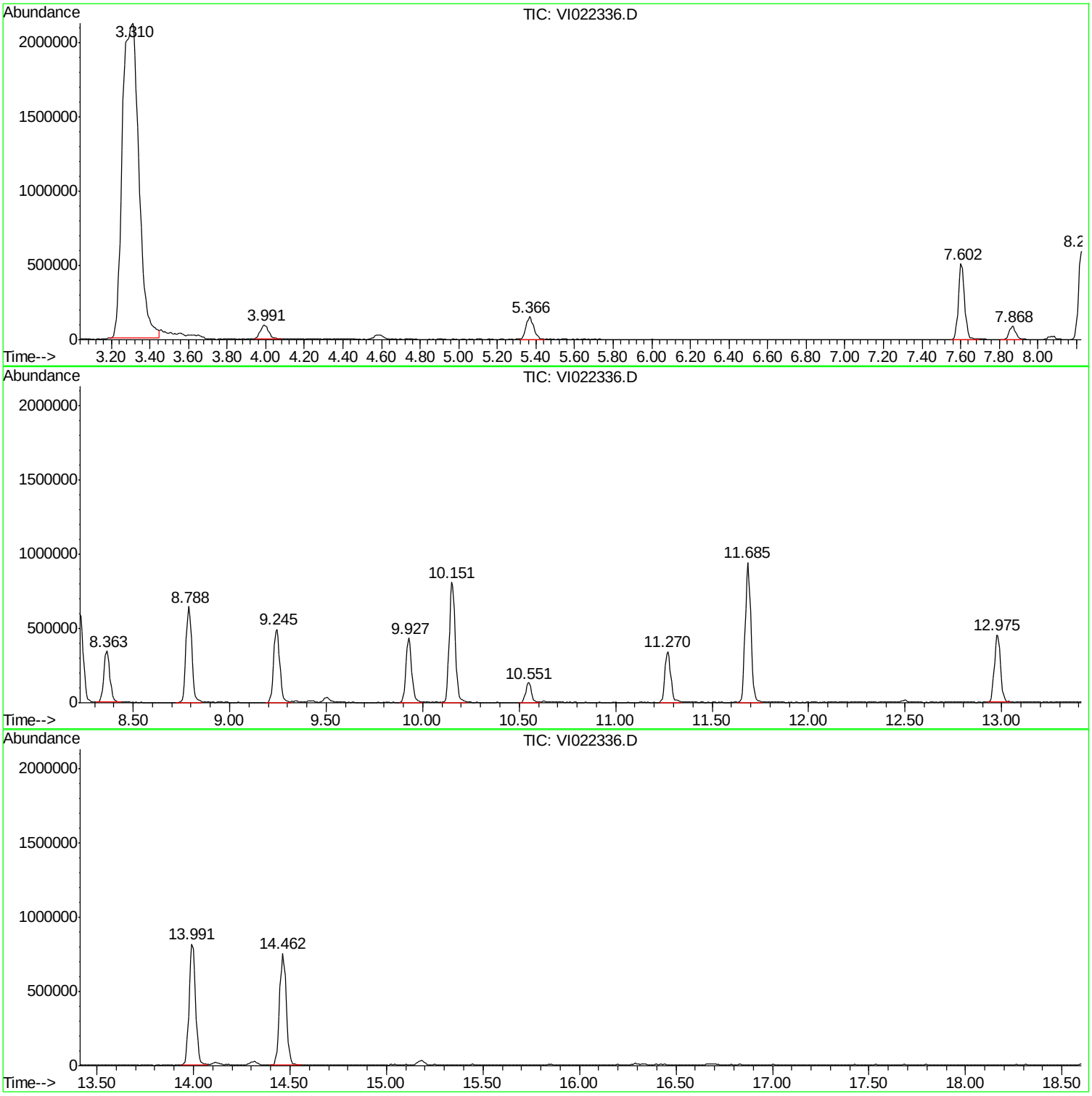
Sum of corrected areas: 29489072

LSC Report - Integrated Chromatogram

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022336.D
Acq On : 20 Oct 2008 15:44
Operator : MS
Sample : Z4983-11
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 12 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound Report summary

```
DataPath  :: W:\HPCHEM1\MSVOAI\DATA\VI100008\
DataFile  :: VI022366DD
AcqOn     :: 20 Oct 2008 15:44
Operator  :: MS
Sample    :: Z4983-11
Misc      :: 5500g/5mL/100mLpurge,MSVOAI
ALSVial   :: 12  SampleMultiplier:11

QuantMethod :: W:\HPCHEM1\MSVOAI\METHODS\SOMILM101908S.M
QuantTitle  :: TRACE VOAS 0100

TICLibrary  :: C:\DATABASE\NIST02.L
TICIntegrationParameters :: LSCINTP
```

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

No Library Search Compounds Detected
****

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: Z4983-12

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: VE010482.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. Date Analyzed: 10/17/2008

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4 -Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: Z4983-12

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: VE010482.D

Level (TRACE/LOW/MED): LOW Date Received: 10/15/2008

% Moisture: not dec. Date Analyzed: 10/17/2008

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: Z4983-12

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: VE010482.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/15/2008

% Moisture: not dec. Date Analyzed: 10/17/2008

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5 (mL)

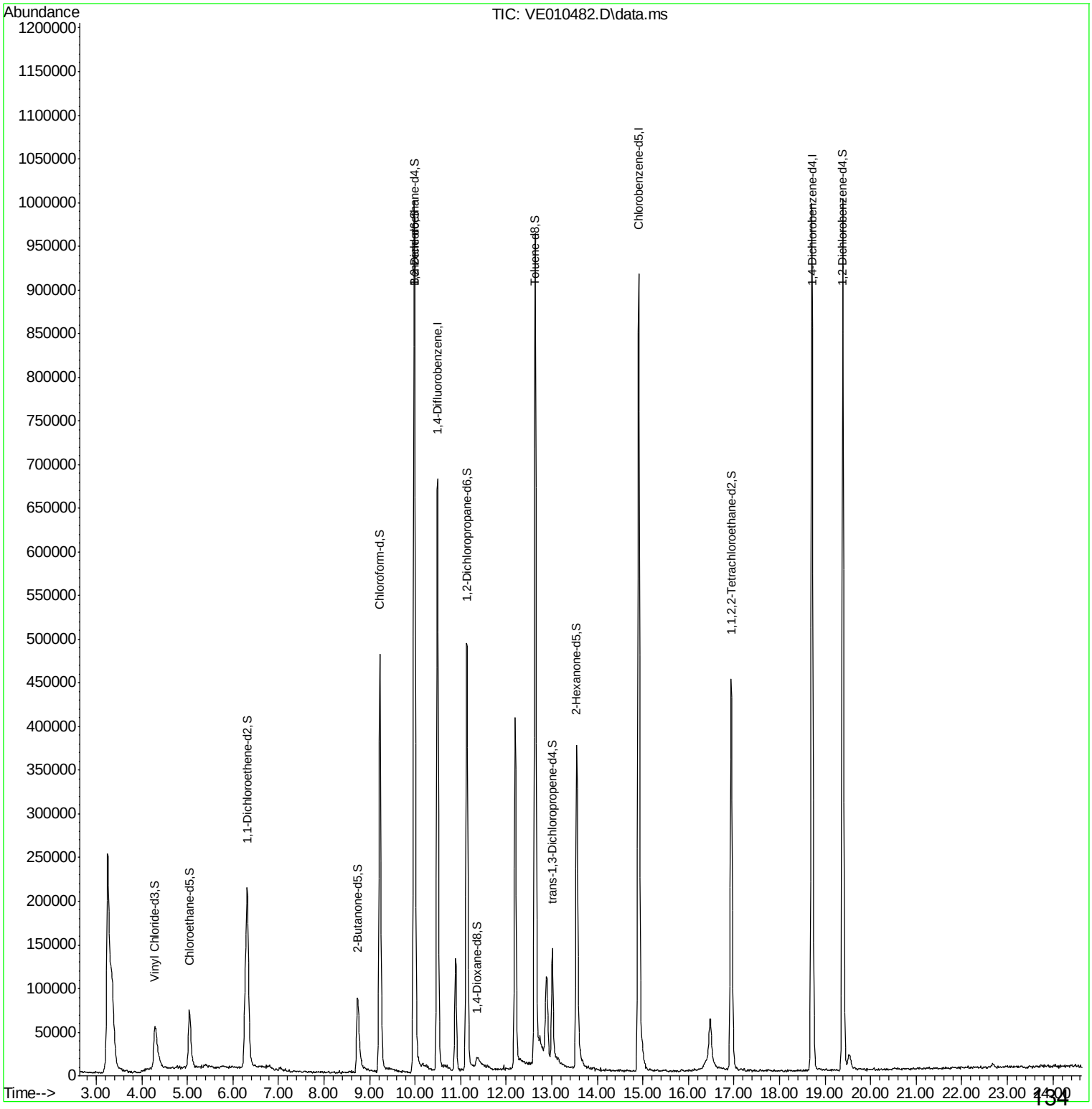
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	004749-35-3	Propanoic acid, 2,2,3-trichloro	10.89	9.3	JN
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[1]E966796	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010482.D
Acq On : 17 Oct 2008 16:35
Operator : SY
Sample : Z4983-12
Misc : 5ML, MSVOAE
ALS Vial : 12 Sample Multiplier: 1

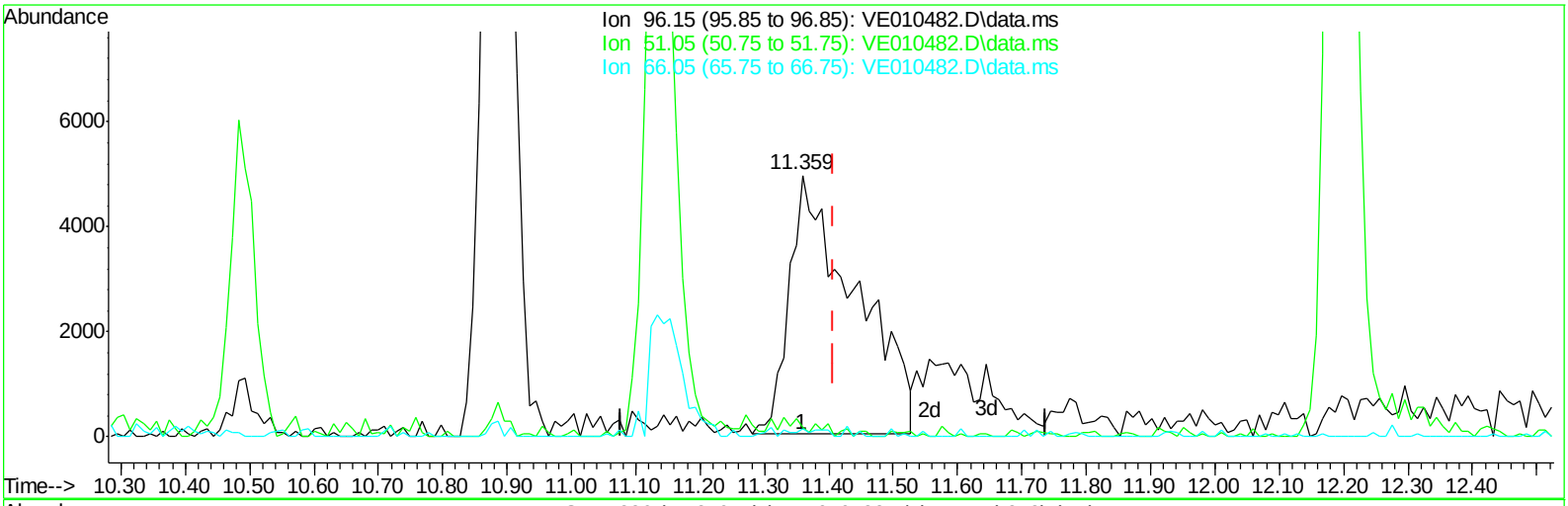
Quant Time: Oct 17 17:13:44 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration

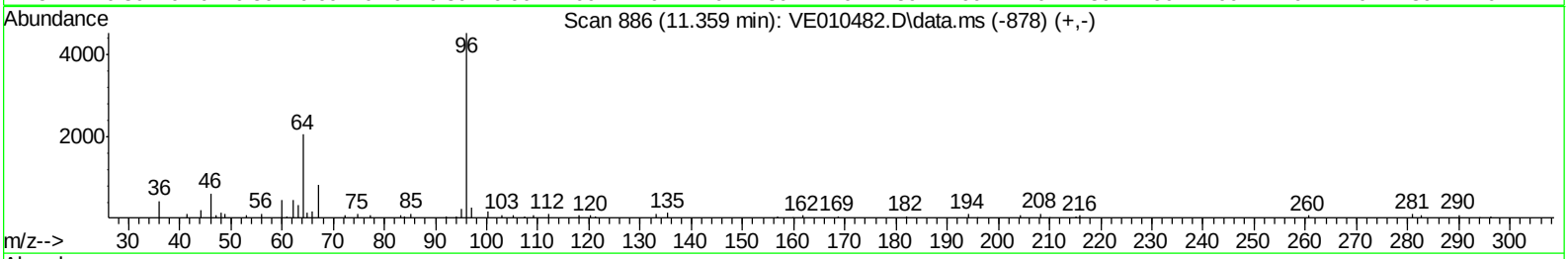


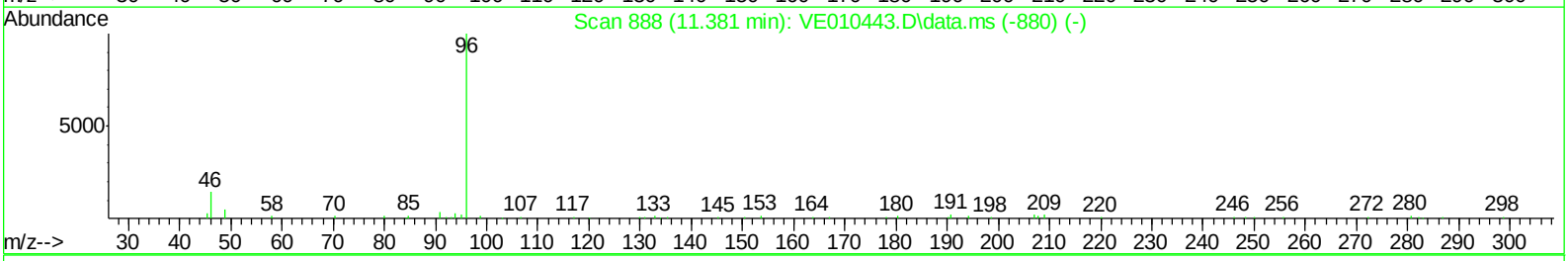
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010482.D
Acq On : 17 Oct 2008 16:35
Operator : SY
Sample : Z4983-12
Misc : 5ML, MSVOAE
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 17 17:06:43 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration







TIC: VE010482.D\data.ms

(27) 1,4-Dioxane-d8 (S)

11.359min (-0.048) 544.94 ug/L

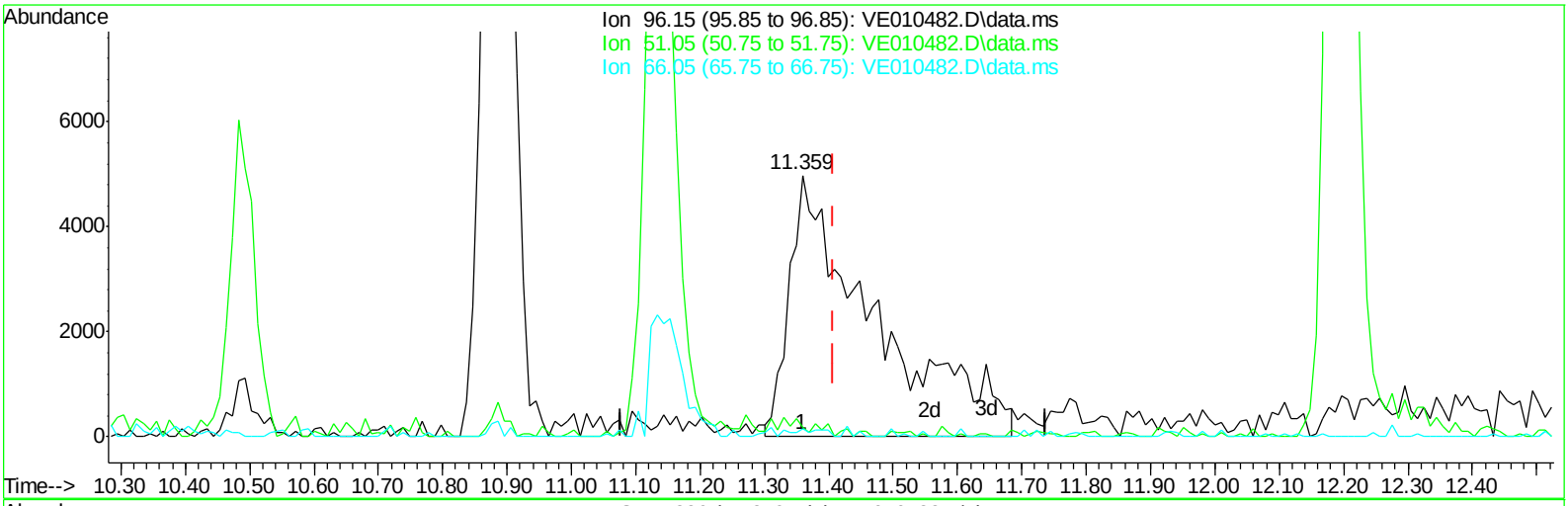
response 35095

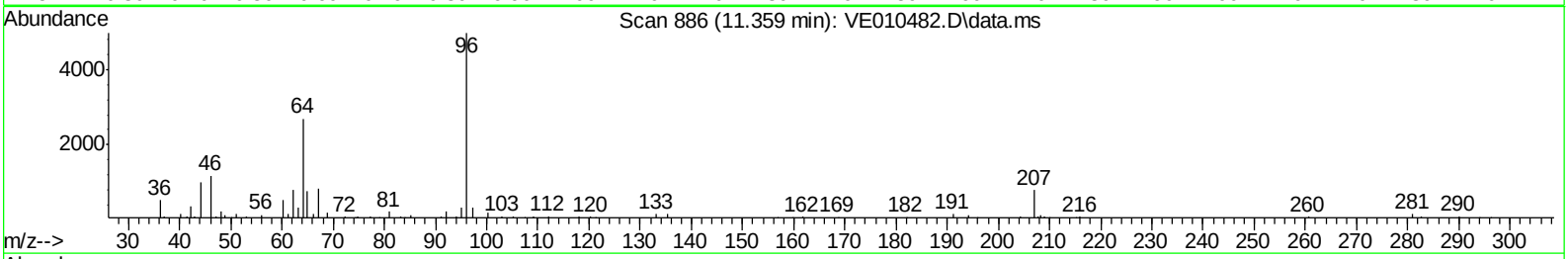
Ion	Exp%	Act%
96.15	100	100
51.05	4.50	0.00#
66.05	1.70	3.61#
0.00	0.00	0.00

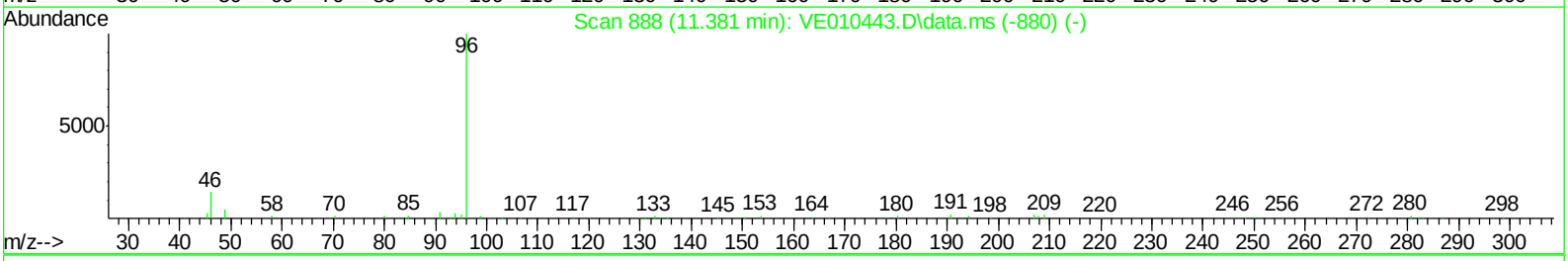
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010482.D
Acq On : 17 Oct 2008 16:35
Operator : SY
Sample : Z4983-12
Misc : 5ML, MSVOAE
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 17 17:06:43 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration







TIC: VE010482.D\data.ms

(27) 1,4-Dioxane-d8 (S)

11.359min (-0.048) 707.24 ug/L m

response 45548

Ion	Exp%	Act%
96.15	100	100
51.05	4.50	3.35#
66.05	1.70	3.27#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010482.D
Acq On : 17 Oct 2008 16:35
Operator : SY
Sample : Z4983-12
Misc : 5ML, MSVOAE
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 17 17:13:44 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	10.492	114	803448	50.00	ug/L	-0.05
30) Chlorobenzene-d5	14.907	117	910365	50.00	ug/L	-0.05
61) 1,4-Dichlorobenzene-d4	18.710	152	482940	50.00	ug/L	-0.06
System Monitoring Compounds						
4) Vinyl Chloride-d3	4.284	65	163722	47.17	ug/L	-0.04
Spiked Amount 50.000			Recovery = 94.34%			
6) Chloroethane-d5	5.043	69	124283	59.29	ug/L	-0.04
Spiked Amount 50.000			Recovery = 118.58%			
10) 1,1-Dichloroethene-d2	6.314	63	378206	44.74	ug/L	-0.04
Spiked Amount 50.000			Recovery = 89.48%			
20) 2-Butanone-d5	8.728	46	225606	91.21	ug/L	-0.06
Spiked Amount 100.000			Recovery = 91.21%			
21) Chloroform-d	9.221	84	551703	47.90	ug/L	-0.06
Spiked Amount 50.000			Recovery = 95.80%			
24) 1,2-Dichloroethane-d4	9.980	65	427061	56.16	ug/L	-0.06
Spiked Amount 50.000			Recovery = 112.32%			
27) 1,4-Dioxane-d8	11.359	96	45548m	707.24	ug/L	-0.05
Spiked Amount 1250.000			Recovery = 56.58%			
31) Benzene-d6	9.980	84	925106	47.24	ug/L	-0.05
Spiked Amount 50.000			Recovery = 94.48%			
36) 1,2-Dichloropropane-d6	11.143	67	309989	42.42	ug/L	-0.05
Spiked Amount 50.000			Recovery = 84.84%			
38) trans-1,3-Dichloroprop...	13.015	79	104075	40.37	ug/L	-0.05
Spiked Amount 50.000			Recovery = 80.74%			
39) Toluene-d8	12.631	98	972636	46.41	ug/L	-0.06
Spiked Amount 50.000			Recovery = 92.82%			
41) 2-Hexanone-d5	13.537	63	222474	89.46	ug/L	-0.07
Spiked Amount 100.000			Recovery = 89.46%			
50) 1,1,2,2-Tetrachloroeth...	16.937	84	406631	34.51	ug/L	-0.06
Spiked Amount 50.000			Recovery = 69.02%			
62) 1,2-Dichlorobenzene-d4	19.390	152	479428	51.16	ug/L	-0.06
Spiked Amount 50.000			Recovery = 102.32%			

Target Compounds Qvalue

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

LSC Area Percent Report

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010482.D
Acq On : 17 Oct 2008 16:35
Operator : SY
Sample : Z4983-12
Misc : 5ML, MSVOAE
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Title : TRACE VOA SOM01.0

Signal : TIC: VE010482.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.250	51	63	88	rBV	251764	1616305	55.31%	5.936%
2	4.284	160	168	184	rBV2	48706	294120	10.06%	1.080%
3	5.043	237	245	259	rBV2	66750	274268	9.39%	1.007%
4	6.314	362	374	386	rBV	205628	1005310	34.40%	3.692%
5	8.728	614	619	631	rBV	86440	372531	12.75%	1.368%
6	9.221	662	669	683	rBV2	479572	1586489	54.29%	5.827%
7	9.980	738	746	754	rBV	999513	2922299	100.00%	10.732%
8	10.492	791	798	808	rBV	677420	1865803	63.85%	6.852%
9	10.886	832	838	846	rVB2	128184	348518	11.93%	1.280%
10	11.133	856	863	873	rBV	489640	1465059	50.13%	5.381%
11	12.197	964	971	979	rBV	400728	1084605	37.11%	3.983%
12	12.631	1009	1015	1024	rBV	949225	2648559	90.63%	9.727%
13	12.887	1034	1041	1048	rVB	92289	341819	11.70%	1.255%
14	13.015	1048	1054	1061	rVB	125868	321515	11.00%	1.181%
15	13.547	1102	1108	1120	rBV	369194	1157780	39.62%	4.252%
16	14.907	1239	1246	1262	rBV	912973	2668246	91.31%	9.799%
17	16.483	1390	1406	1422	rVB2	56378	307256	10.51%	1.128%
18	16.937	1446	1452	1463	rVB	445993	1314386	44.98%	4.827%
19	18.710	1625	1632	1645	rBV	993271	2750115	94.11%	10.100%
20	19.390	1692	1701	1710	rBV	999145	2808063	96.09%	10.313%
21	19.528	1710	1715	1724	rVB3	16151	75688	2.59%	0.278%

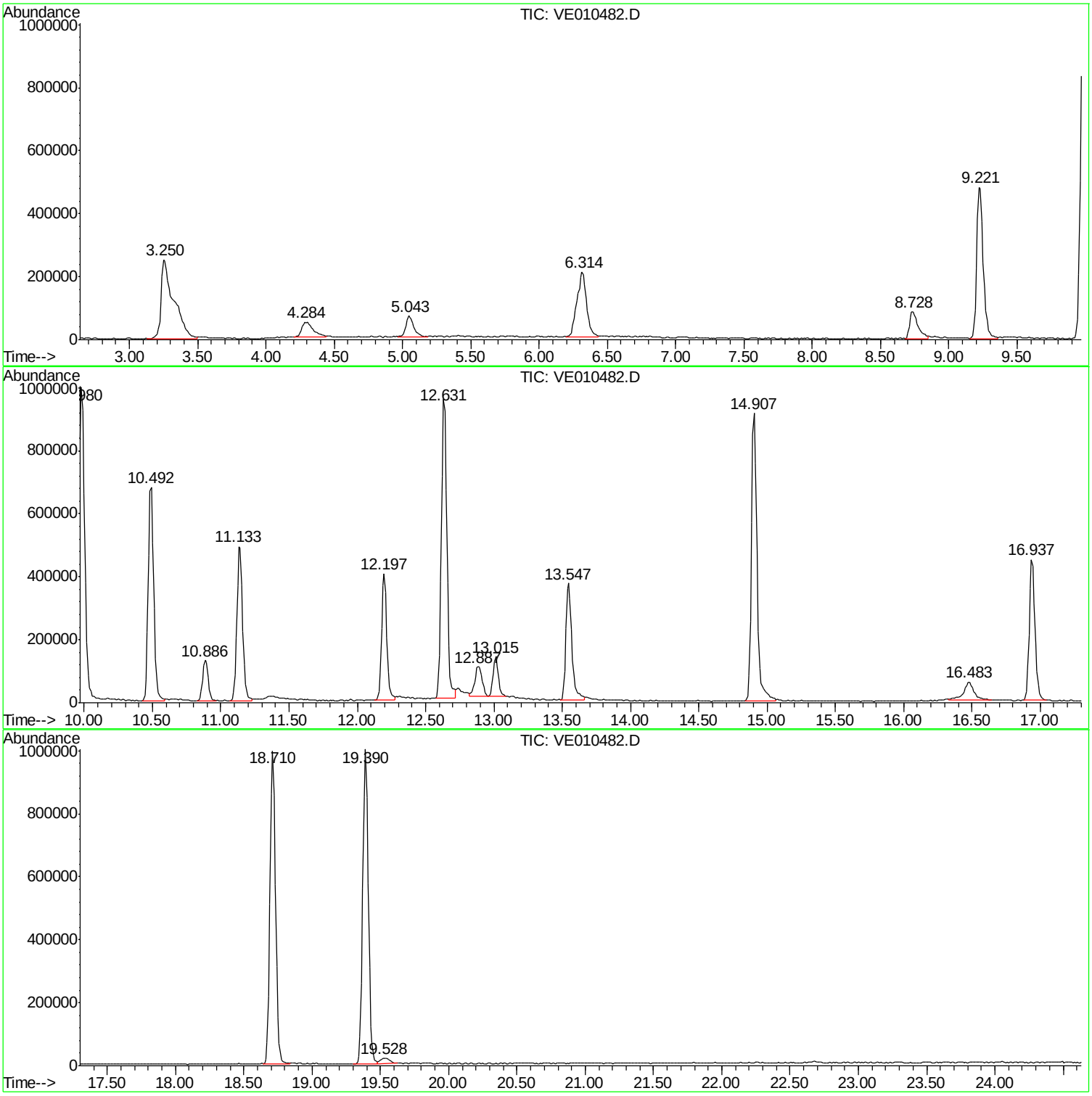
Sum of corrected areas: 27228734

LSC Report - Integrated Chromatogram

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010482.D
Acq On : 17 Oct 2008 16:35
Operator : SY
Sample : Z4983-12
Misc : 5ML, MSVOAE
ALS Vial : 12 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010482.D
Acq On : 17 Oct 2008 16:35
Operator : SY
Sample : Z4983-12
Misc : 5ML, MSVOAE
ALS Vial : 12 Sample Multiplier: 1

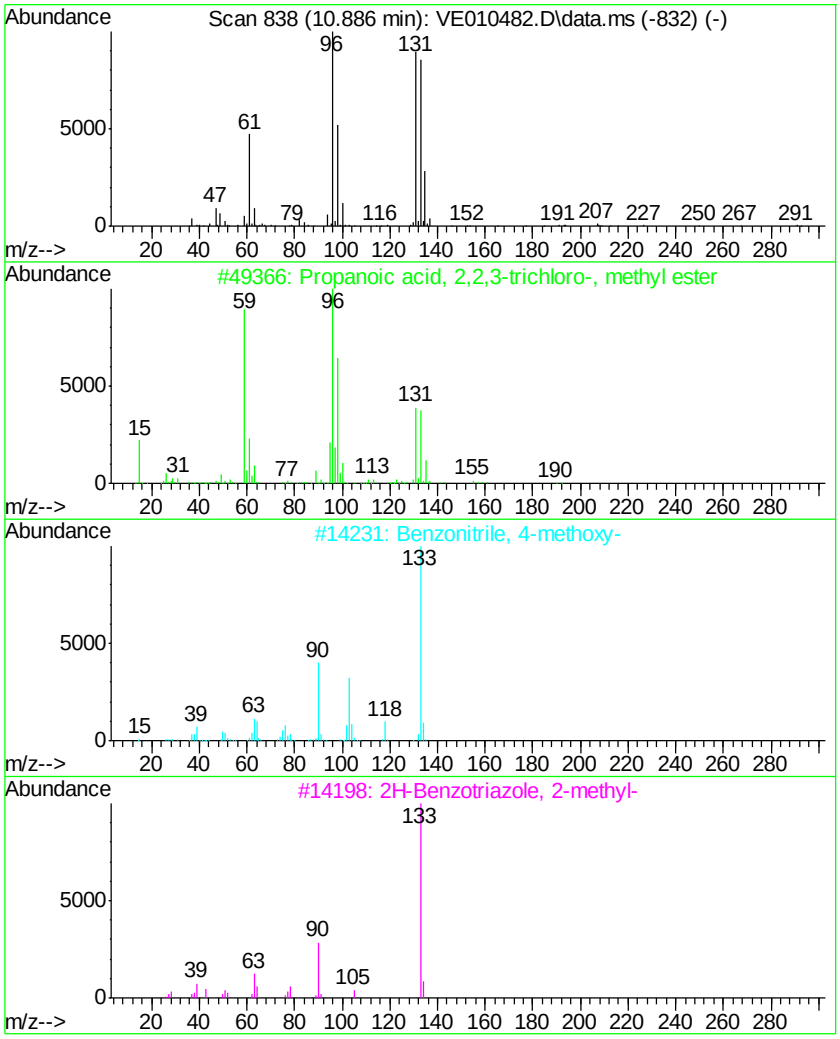
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0

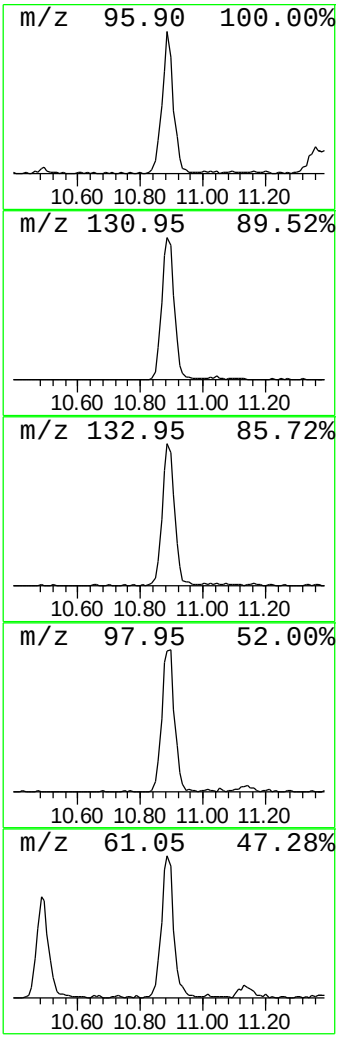
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Propanoic acid, 2,2,3-trich... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.890	9.34 ug/L	348518	1,4-Difluorobenzene	10.492

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanoic acid, 2,2,3-trichloro-...	190	C4H5Cl3O2	004749-35-3	56
2	Benzonitrile, 4-methoxy-	133	C8H7NO	000874-90-8	9
3	2H-Benzotriazole, 2-methyl-	133	C7H7N3	016584-00-2	9
4	Acetylthiosemicarbazide	133	C3H7N3OS	002302-88-7	9
5	Benzoic acid, 4-formyl-, 4-nitro...	271	C14H9NO5	131266-90-5	9





Tentatively Identified Compound (LSC) summary

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010482.D
Acq On : 17 Oct 2008 16:35
Operator : SY
Sample : Z4983-12
Misc : 5ML, MSVOAE
ALS Vial : 12 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

						--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Propanoic acid,...	10.890	9.3	ug/L	348518	1	10.492	1865800	50.0

CHEMTECH

VOLATILES CALIBRATION DATA

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAE Calibration Date(s): 10/16/2008 10/16/2008

Heated Purge: (Y/N) N Calibration Time(s): 13:58 18:14

Purge Volume: 10 (mL)

GC Column: ZB-624 ID: 0.25 (mm) Length: 60 (m)

LAB FILE ID: RRF5.0 = VE010448.D RRF10 = VE010442.D

RRF50 = VE010443.D RRF100 = VE010444.D RRF200 = VE010445.D

COMPOUND	RRF5.0	RRF10	RRF50	RRF100	RRF200	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	0.386	0.371	0.406	0.386	0.345	0.379	5.9
Chloromethane	0.301	0.296	0.304	0.283	0.273	0.291	4.5
Vinyl Chloride	0.244	0.228	0.256	0.240	0.233	0.240	4.5
Bromomethane	0.101	0.086	0.093	0.084	0.066	0.086	15.1
Chloroethane	0.128	0.130	0.105	0.086	0.068	0.103	26.1
Trichlorofluoromethane	0.438	0.363	0.409	0.363	0.283	0.371	15.8
1,1-Dichloroethene	0.219	0.228	0.205	0.180	0.145	0.195	17.2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.279	0.256	0.237	0.214	0.172	0.232	17.7
Acetone	0.112	0.092	0.089	0.086	0.080	0.092	13.0
Carbon disulfide	0.790	0.712	0.818	0.701	0.684	0.741	8.0
Methyl acetate	0.246	0.239	0.268	0.226	0.217	0.239	8.3
Methylene chloride	0.449	0.413	0.393	0.343	0.300	0.380	15.4
trans-1,2-Dichloroethene	0.380	0.360	0.354	0.332	0.296	0.344	9.2
Methyl tert-Butyl ether	0.666	0.720	0.857	0.816	0.791	0.770	10.0
1,1-Dichloroethane	0.590	0.570	0.626	0.591	0.541	0.584	5.3
cis-1,2-Dichloroethene	0.373	0.354	0.382	0.358	0.316	0.357	7.1
2-Butanone	0.148	0.163	0.154	0.158	0.150	0.155	3.9
Bromochloromethane	0.217	0.201	0.222	0.199	0.182	0.204	7.8
Chloroform	0.769	0.673	0.716	0.631	0.512	0.660	14.7
1,1,1-Trichloroethane	0.507	0.467	0.493	0.477	0.481	0.485	3.2
Cyclohexane	0.367	0.384	0.397	0.390	0.375	0.383	3.1
Carbon Tetrachloride	0.408	0.361	0.409	0.405	0.425	0.402	5.9
Benzene	1.182	1.125	1.126	0.986	0.817	1.047	14.1
1,2-Dichloroethane	0.560	0.542	0.573	0.531	0.446	0.531	9.4
1,4-Dioxane	0.005	0.004	0.004	0.004	0.004	0.004	10.5
Trichloroethene	0.337	0.354	0.359	0.343	0.334	0.345	3.1
Methylcyclohexane	0.552	0.528	0.547	0.484	0.438	0.510	9.5

Report 1,4 -Dioxane for Low-Medium VOA analysis only

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAE Calibration Date(s): 10/16/2008 10/16/2008

Heated Purge: (Y/N) N Calibration Time(s): 13:58 18:14

Purge Volume: 10 (mL)

GC Column: ZB-624 ID: 0.25 (mm) Length: 60 (m)

LAB FILE ID: RRF5.0 = VE010448.D RRF10 = VE010442.D

RRF50 = VE010443.D RRF100 = VE010444.D RRF200 = VE010445.D

COMPOUND	RRF5.0	RRF10	RRF50	RRF100	RRF200	$\overline{RRF}$	%RSD
1,2-Dichloropropane	0.335	0.299	0.311	0.295	0.293	0.307	5.7
Bromodichloromethane	0.494	0.470	0.511	0.491	0.487	0.491	3.0
cis-1,3-Dichloropropene	0.587	0.549	0.578	0.572	0.539	0.565	3.6
4-Methyl-2-pentanone	0.400	0.357	0.392	0.377	0.364	0.378	4.7
Toluene	1.463	1.342	1.383	1.263	1.104	1.311	10.4
trans-1,3-Dichloropropene	0.562	0.517	0.600	0.581	0.555	0.563	5.5
1,1,2-Trichloroethane	0.398	0.366	0.374	0.342	0.330	0.362	7.4
Tetrachloroethene	0.300	0.309	0.314	0.286	0.271	0.296	5.9
2-Hexanone	0.327	0.288	0.308	0.260	0.248	0.286	11.3
Dibromochloromethane	0.365	0.336	0.431	0.437	0.438	0.401	11.8
1,2-Dibromoethane	0.466	0.424	0.480	0.455	0.442	0.453	4.8
Chlorobenzene	1.093	1.010	1.036	0.948	0.856	0.989	9.2
Ethylbenzene	1.748	1.665	1.730	1.487	1.179	1.562	15.2
o-Xylene	0.573	0.641	0.647	0.563	0.480	0.581	11.7
m,p-Xylene	0.635	0.616	0.695	0.616	0.547	0.622	8.5
Styrene	1.178	1.115	1.119	0.927	0.703	1.008	19.4
Bromoform	0.414	0.371	0.515	0.574	0.606	0.496	20.4
Isopropylbenzene	1.763	1.543	1.626	1.425	1.223	1.516	13.5
1,1,2,2-Tetrachloroethane	0.745	0.634	0.612	0.532	0.457	0.596	18.2
1,3-Dichlorobenzene	1.537	1.503	1.574	1.496	1.421	1.506	3.8
1,4-Dichlorobenzene	1.633	1.556	1.629	1.517	1.357	1.538	7.3
1,2-Dichlorobenzene	1.629	1.429	1.492	1.334	1.086	1.394	14.6
1,2-Dibromo-3-chloropropane	0.173	0.184	0.205	0.205	0.205	0.194	7.7
1,2,4-Trichlorobenzene	0.901	0.676	0.759	0.765	0.706	0.761	11.3
1,2,3-Trichlorobenzene	0.759	0.635	0.648	0.680	0.618	0.668	8.4

Report 1,4 -Dioxane for Low-Medium VOA analysis only

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAE Calibration Date(s): 10/16/2008 10/16/2008

Heated Purge: (Y/N) N Calibration Time(s): 13:58 18:14

Purge Volume: 10 (mL)

GC Column: ZB-624 ID: 0.25 (mm) Length: 60 (m)

LAB FILE ID: RRF5.0 = VE010448.D RRF10 = VE010442.D

RRF50 = VE010443.D RRF100 = VE010444.D RRF200 = VE010445.D

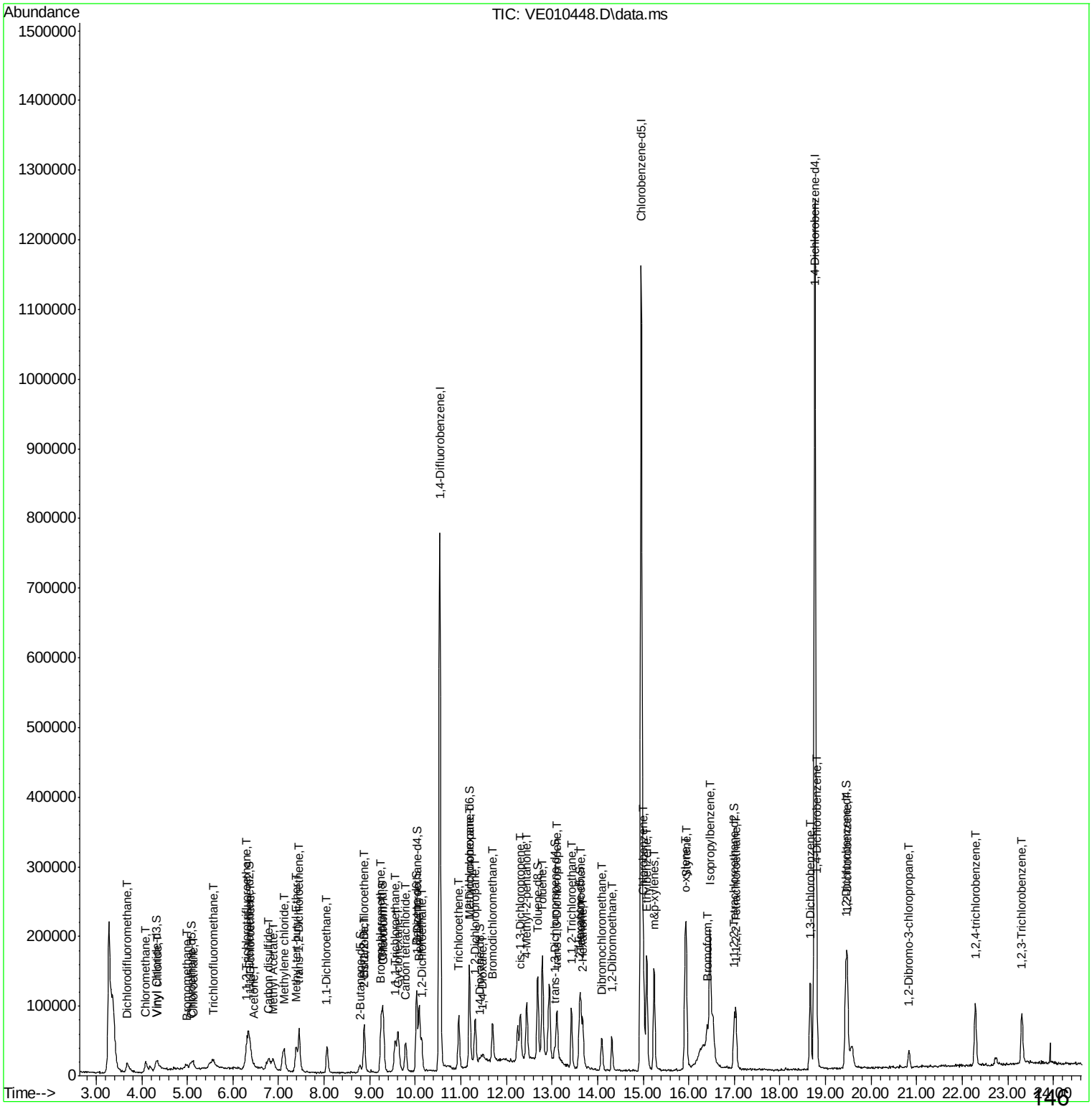
COMPOUND	RRF5.0	RRF10	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Vinyl Chloride-d3	0.185	0.234	0.237	0.218	0.205	0.216	10.0
Chloroethane-d5	0.156	0.162	0.143	0.108	0.082	0.130	26.2
1,1-Dichloroethene-d2	0.575	0.574	0.594	0.490	0.398	0.526	15.6
2-Butanone-d5	0.126	0.147	0.172	0.165	0.160	0.154	11.6
Chloroform-d	0.765	0.781	0.809	0.671	0.558	0.717	14.3
1,2-Dichloroethane-d4	0.470	0.509	0.547	0.457	0.383	0.473	13.1
Benzene-d6	1.061	1.211	1.193	1.029	0.884	1.076	12.4
1,2-Dichloropropane-d6	0.455	0.432	0.433	0.368	0.319	0.401	14.1
Toluene-d8	1.137	1.229	1.264	1.115	1.010	1.151	8.7
trans-1,3-Dichloropropene-d4	0.133	0.133	0.149	0.142	0.151	0.142	6.0
2-Hexanone-d5	0.108	0.146	0.155	0.141	0.132	0.137	13.3
1,4-Dioxane-d8	0.006	0.003	0.004	0.003	0.003	0.004	34.5
1,1,2,2-Tetrachloroethane-d2	0.732	0.688	0.693	0.587	0.536	0.647	12.6
1,2-Dichlorobenzene-d4	0.994	0.988	1.044	0.960	0.866	0.970	6.8

Report 1,4 -Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010448.D
Acq On : 16 Oct 2008 18:14
Operator : SY
Sample : 5 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

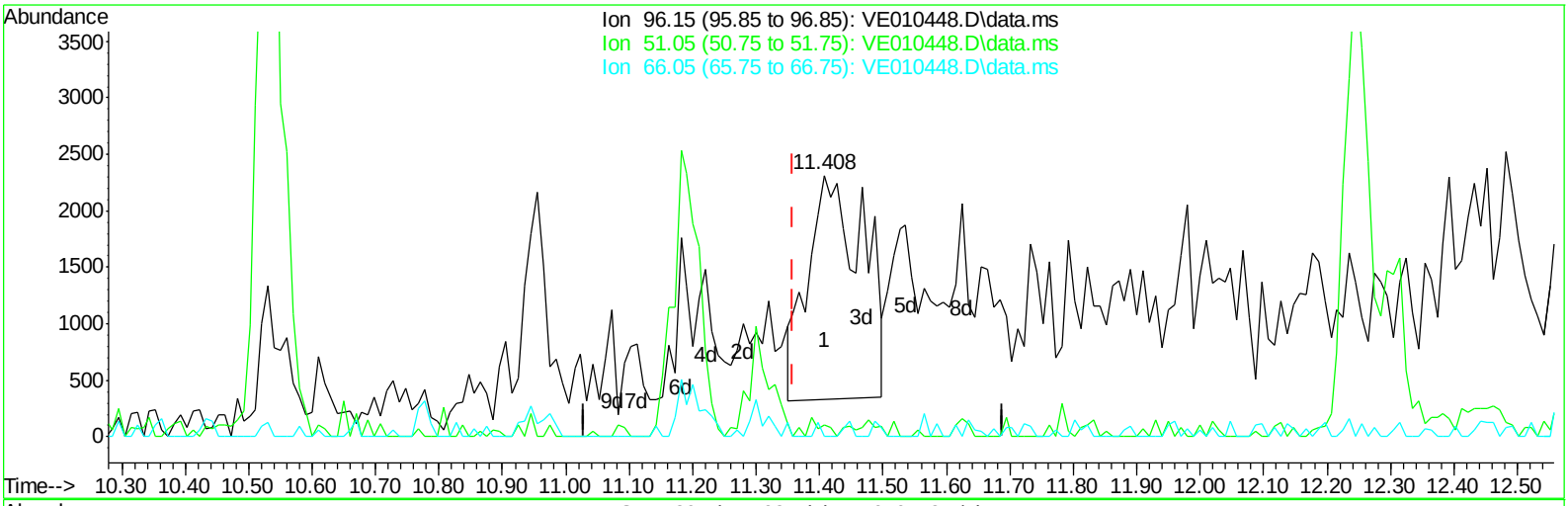
Quant Time: Oct 16 18:49:45 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 17:10:04 2008
Response via : Initial Calibration

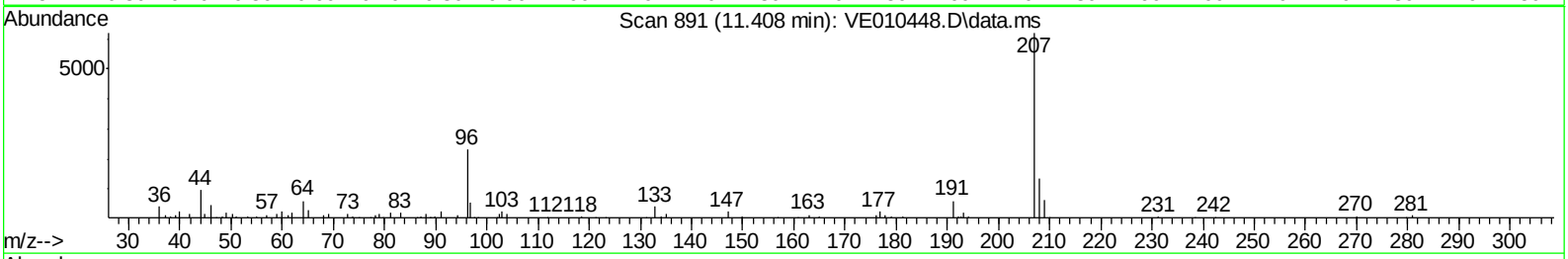


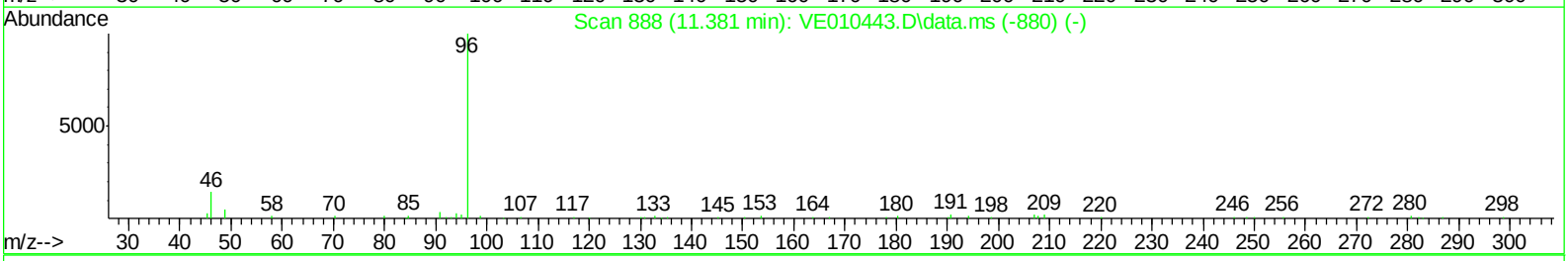
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010448.D
Acq On : 16 Oct 2008 18:14
Operator : SY
Sample : 5 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 16 18:46:49 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 17:10:04 2008
Response via : Initial Calibration







TIC: VE010448.D\data.ms

(27) 1,4-Dioxane-d8 (S)

11.408min (+0.049) 150.87 ug/L m

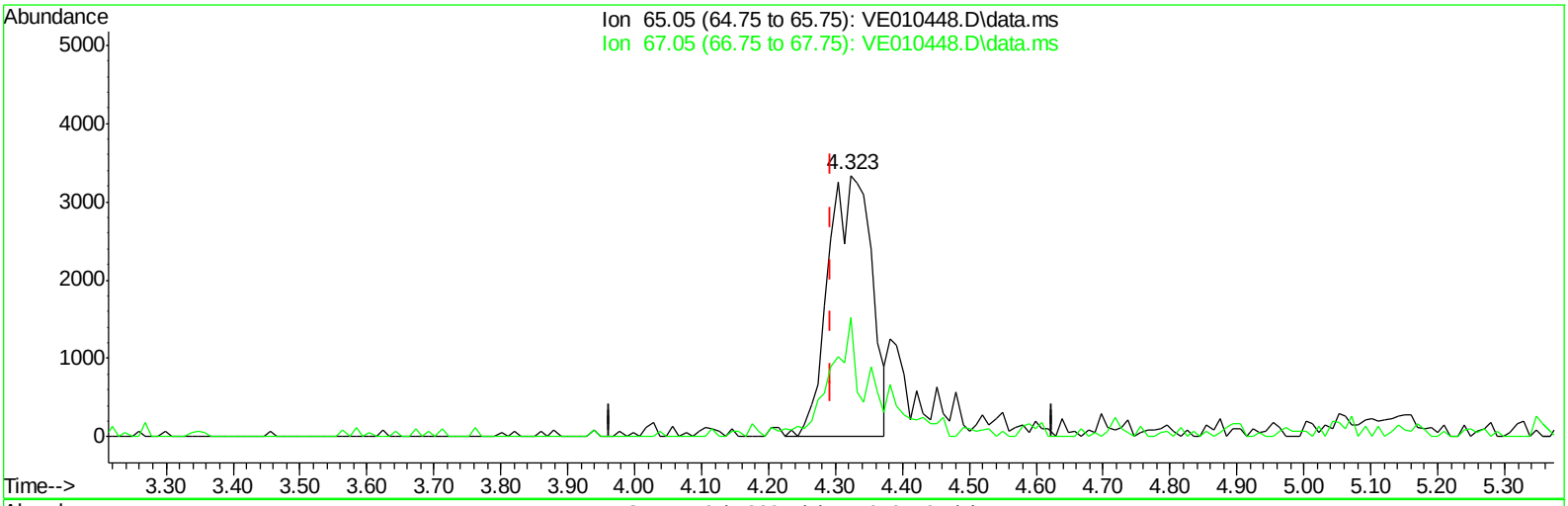
response 11866

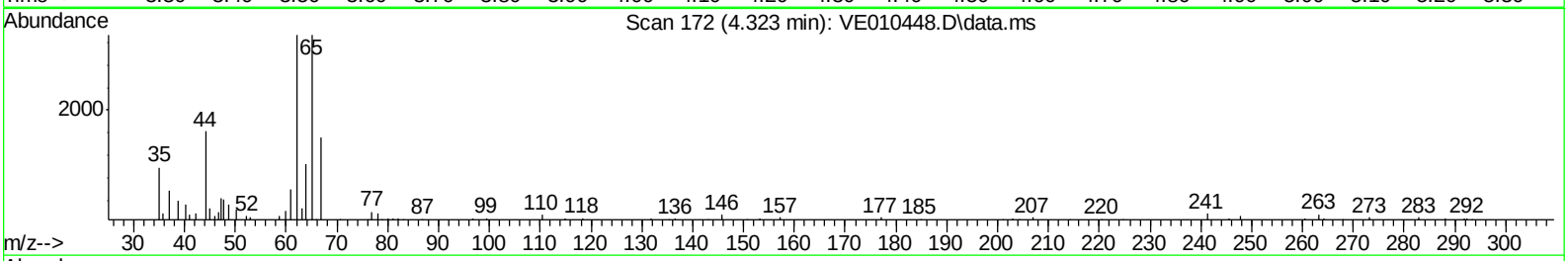
Ion	Exp%	Act%
96.15	100	100
51.05	4.50	4.75
66.05	1.70	0.00#
0.00	0.00	0.00

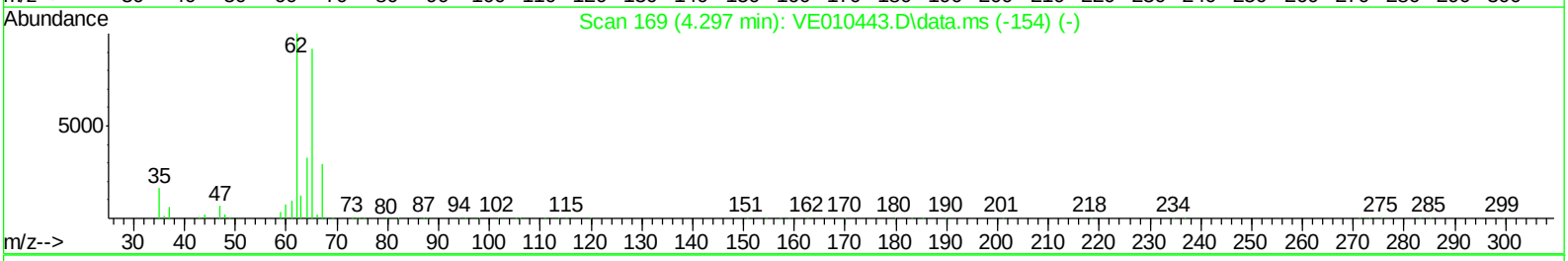
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010448.D
Acq On : 16 Oct 2008 18:14
Operator : SY
Sample : 5 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 16 18:40:35 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 17:10:04 2008
Response via : Initial Calibration







TIC: VE010448.D\data.ms

(4) Vinyl Chloride-d3 (S)

4.323min (+0.029) 3.64 ug/L

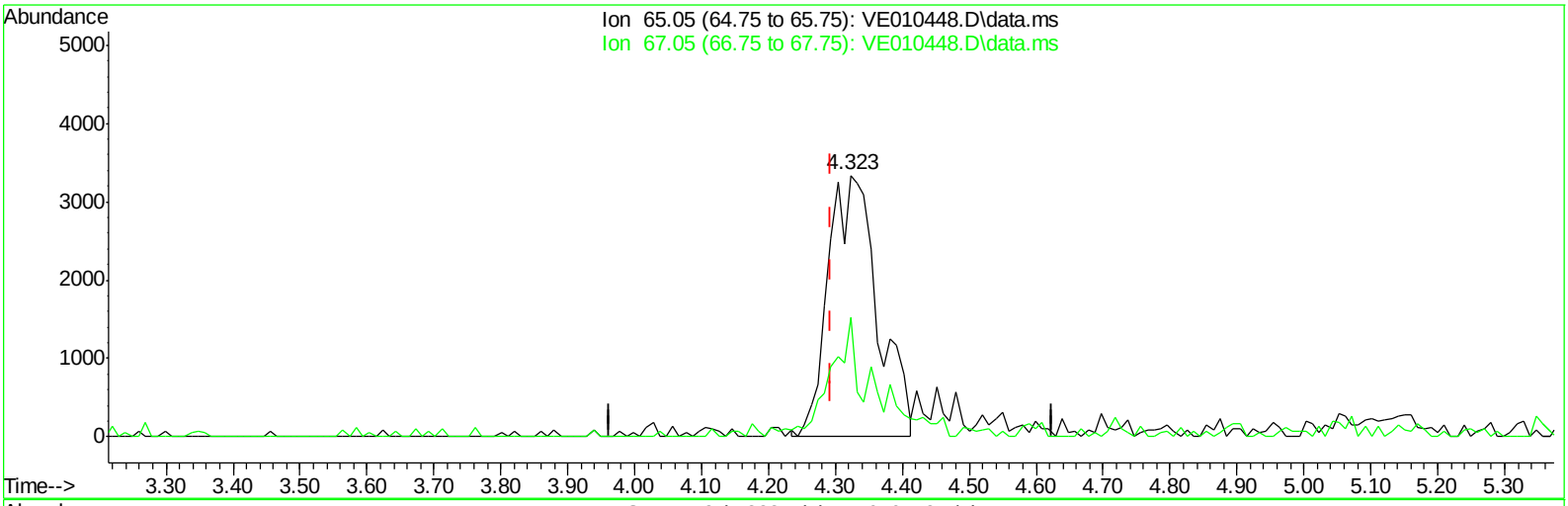
response 14999

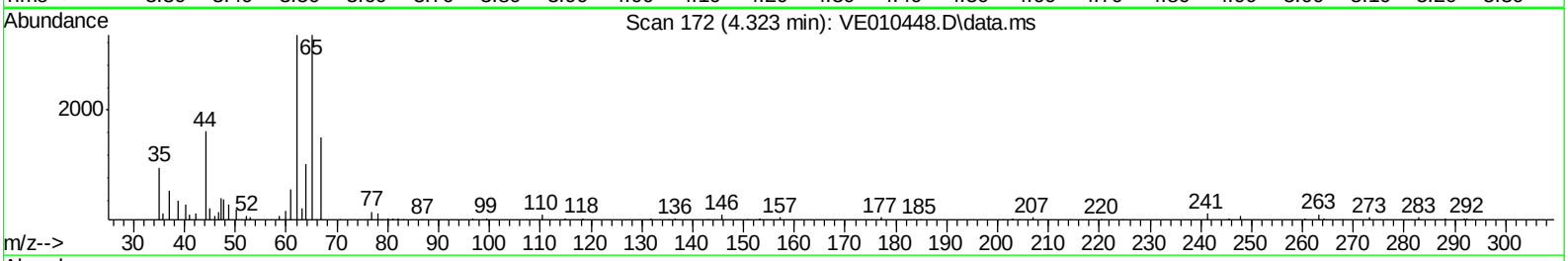
Ion	Exp%	Act%
65.05	100	100
67.05	31.20	28.38
0.00	0.00	0.00
0.00	0.00	0.00

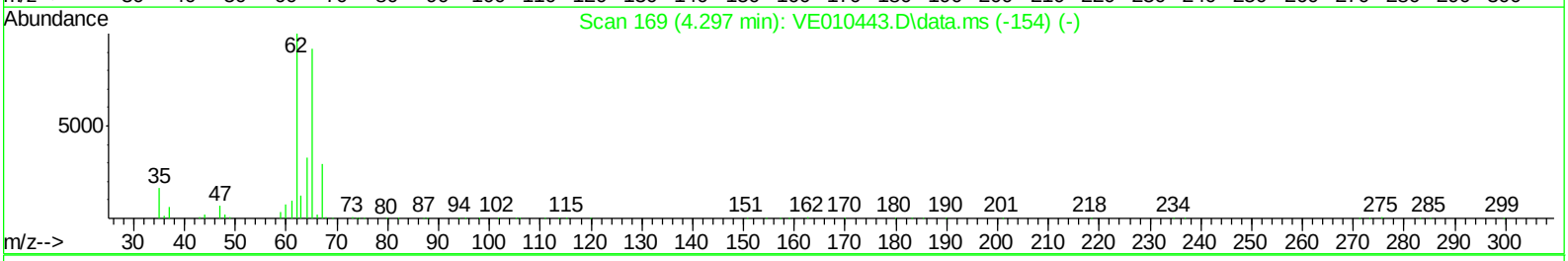
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010448.D
Acq On : 16 Oct 2008 18:14
Operator : SY
Sample : 5 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 16 18:40:35 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 17:10:04 2008
Response via : Initial Calibration







TIC: VE010448.D\data.ms

(4) Vinyl Chloride-d3 (S)

4.323min (+0.029) 4.12 ug/L m

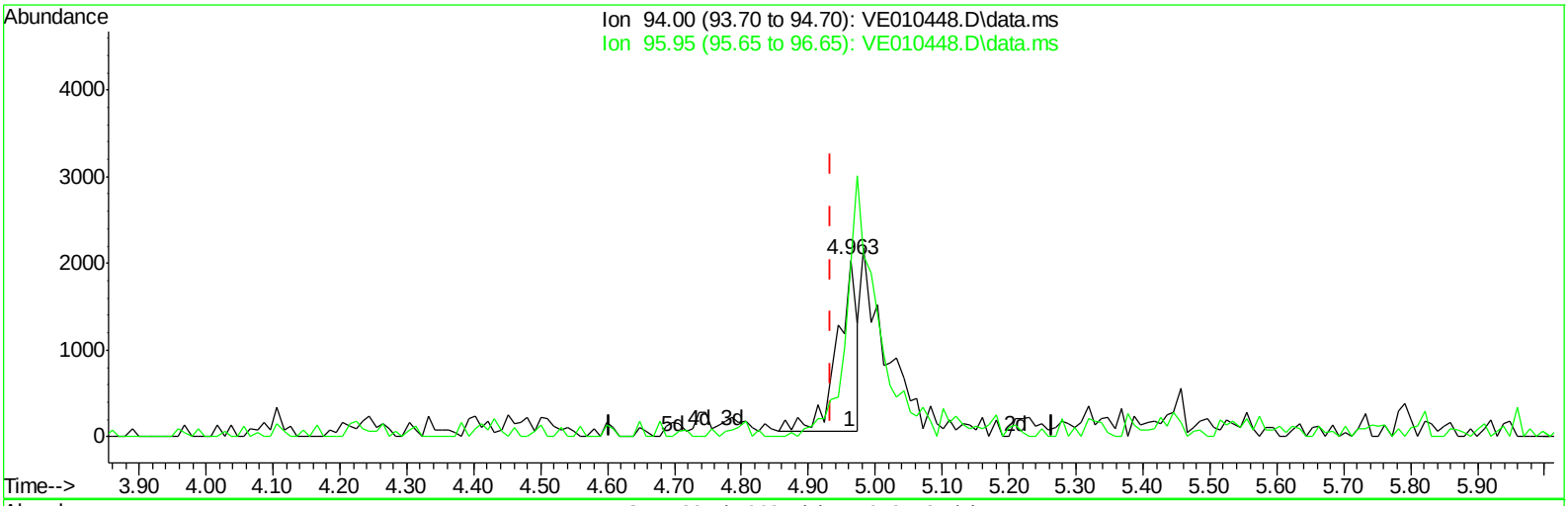
response 16965

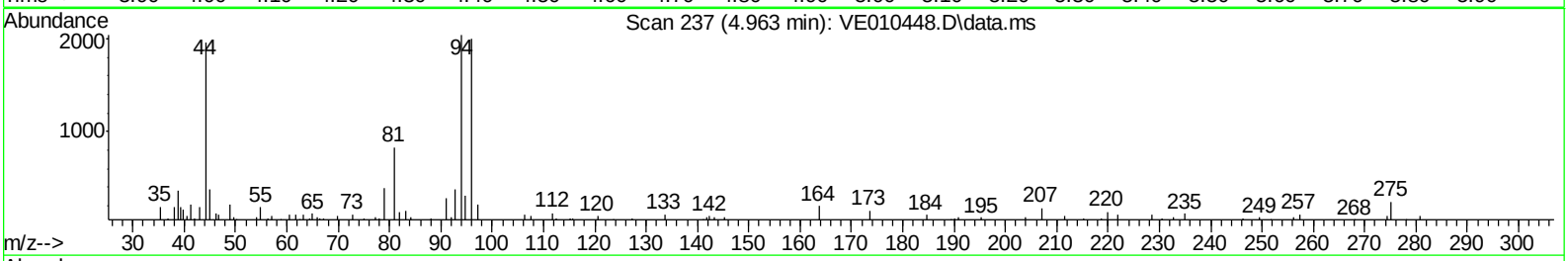
Ion	Exp%	Act%
65.05	100	100
67.05	31.20	25.09
0.00	0.00	0.00
0.00	0.00	0.00

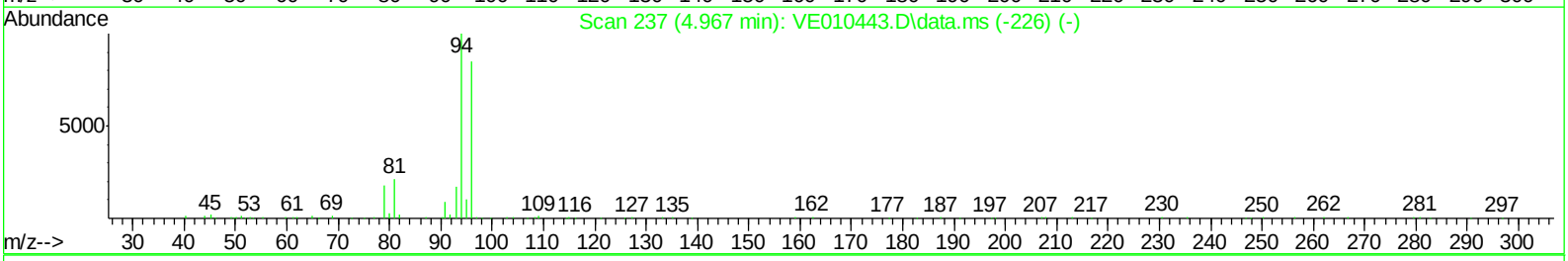
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010448.D
Acq On : 16 Oct 2008 18:14
Operator : SY
Sample : 5 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 16 18:40:35 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 17:10:04 2008
Response via : Initial Calibration







TIC: VE010448.D\data.ms

(7) Bromomethane (T)

4.963min (+0.029) 2.67 ug/L

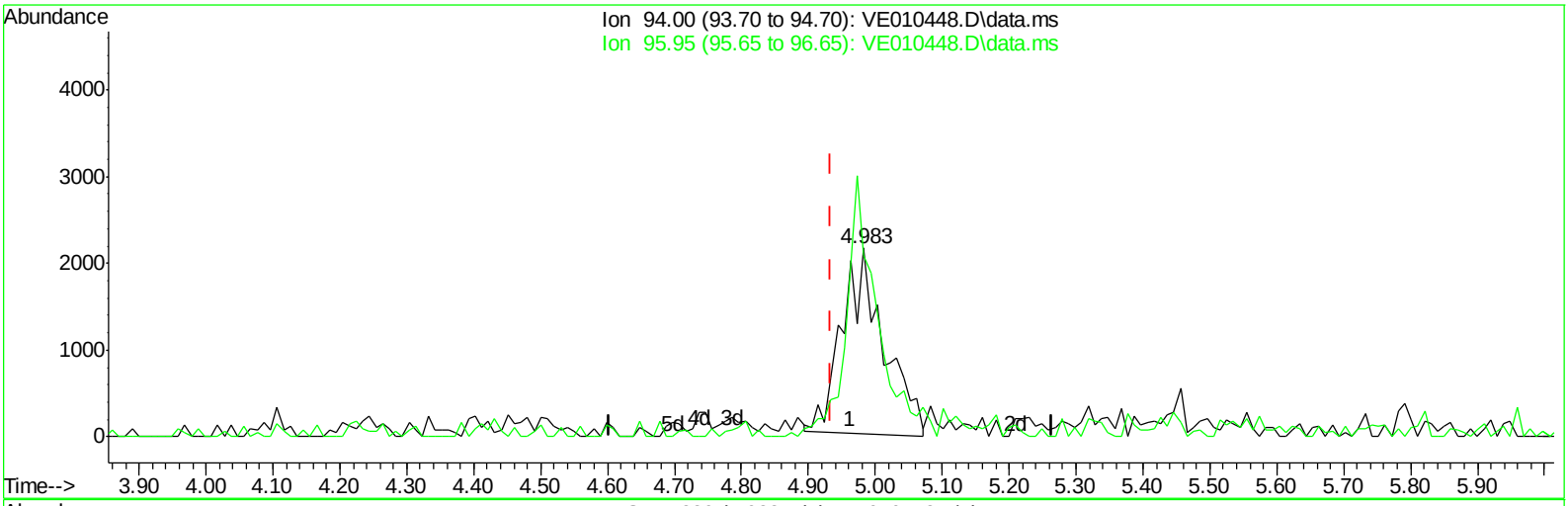
response 4180

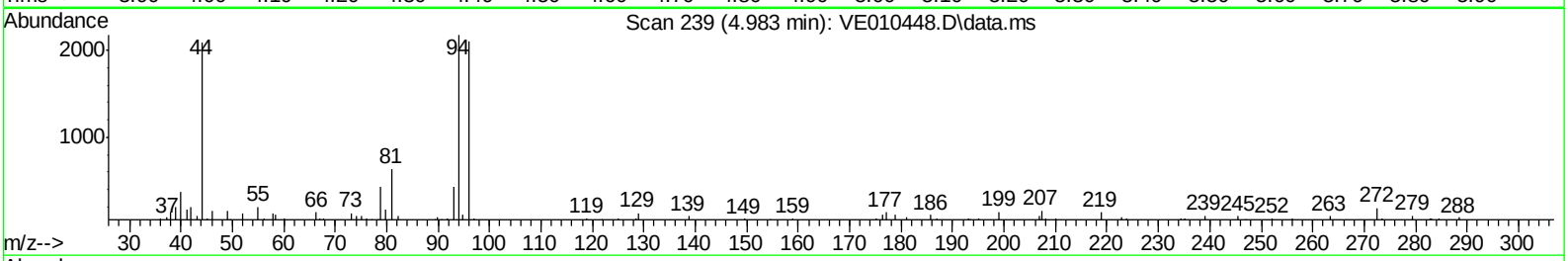
Ion	Exp%	Act%
94.00	100	100
95.95	85.60	97.99
0.00	0.00	0.00
0.00	0.00	0.00

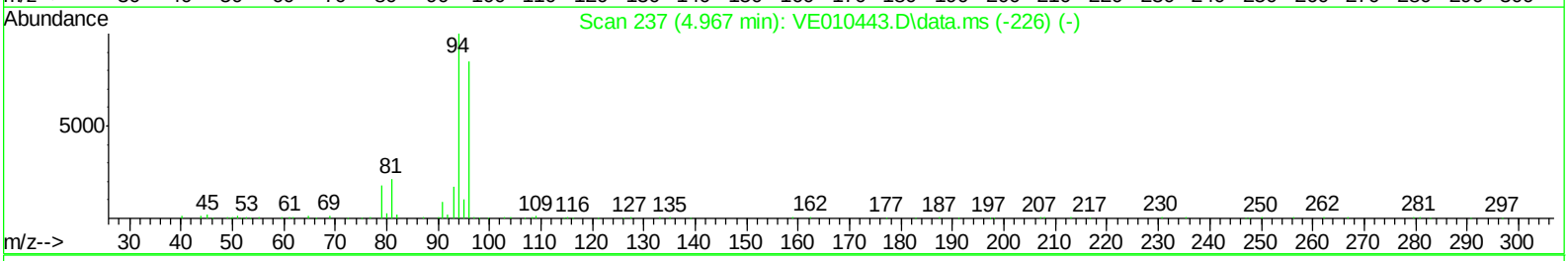
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010448.D
Acq On : 16 Oct 2008 18:14
Operator : SY
Sample : 5 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 16 18:40:35 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 17:10:04 2008
Response via : Initial Calibration







TIC: VE010448.D\data.ms

(7) Bromomethane (T)

4.983min (+0.049) 5.94 ug/L m

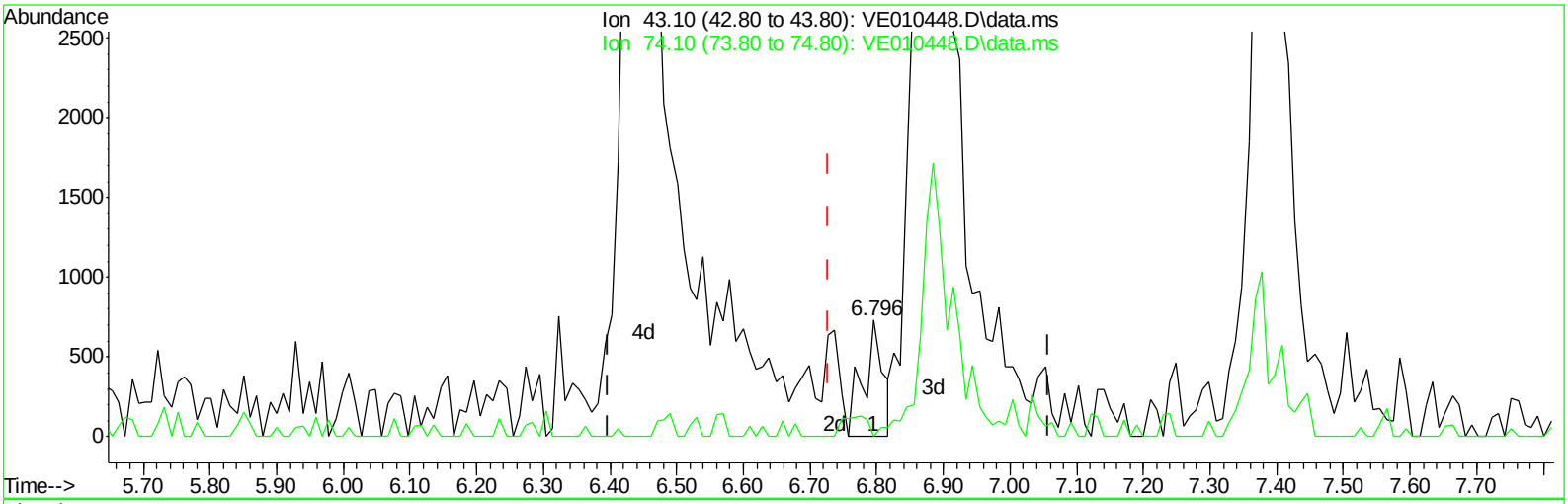
response 9309

Ion	Exp%	Act%
94.00	100	100
95.95	85.60	96.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010448.D
Acq On : 16 Oct 2008 18:14
Operator : SY
Sample : 5 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 16 18:40:35 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 17:10:04 2008
Response via : Initial Calibration



TIC: VE010448.D\data.ms

(15) Methyl Acetate (T)

6.796min (+0.069) 0.42 ug/L

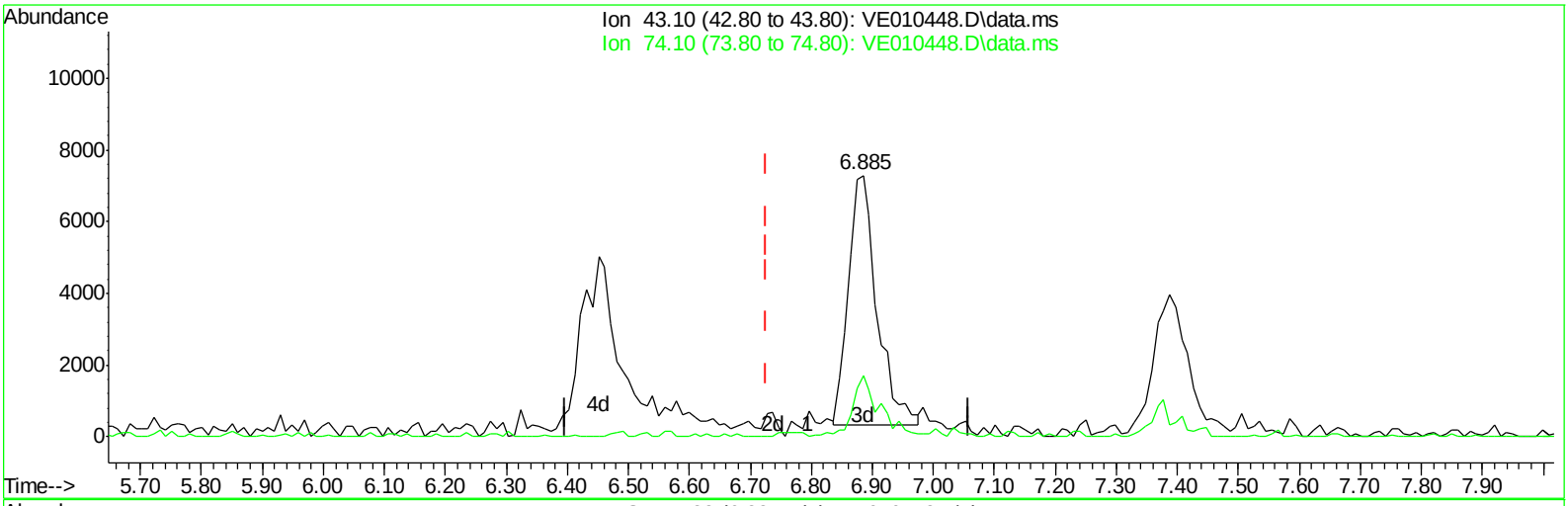
response 1481

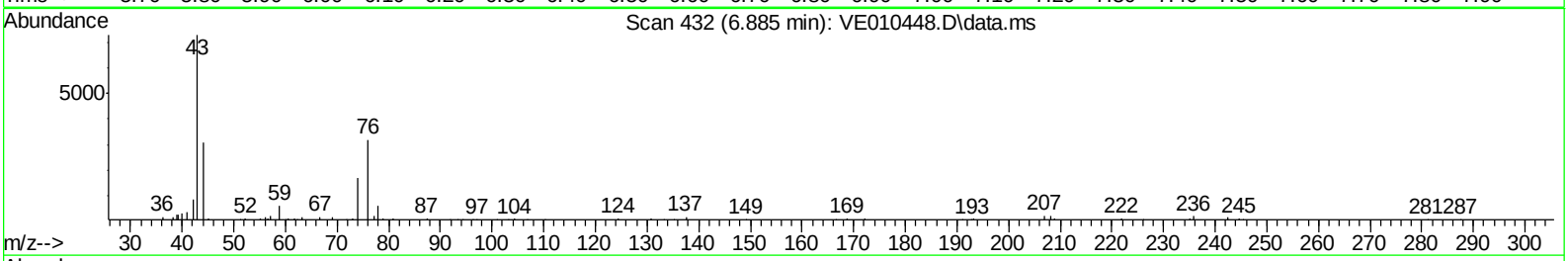
Ion	Exp%	Act%
43.10	100	100
74.10	20.40	23.36
0.00	0.00	0.00
0.00	0.00	0.00

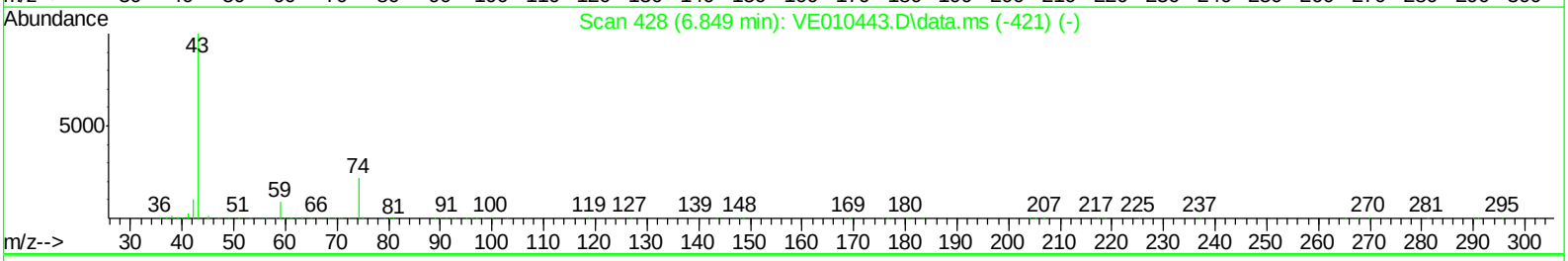
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010448.D
Acq On : 16 Oct 2008 18:14
Operator : SY
Sample : 5 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 16 18:40:35 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 17:10:04 2008
Response via : Initial Calibration







TIC: VE010448.D\data.ms

(15) Methyl Acetate (T)

6.885min (+0.157) 6.42 ug/L m

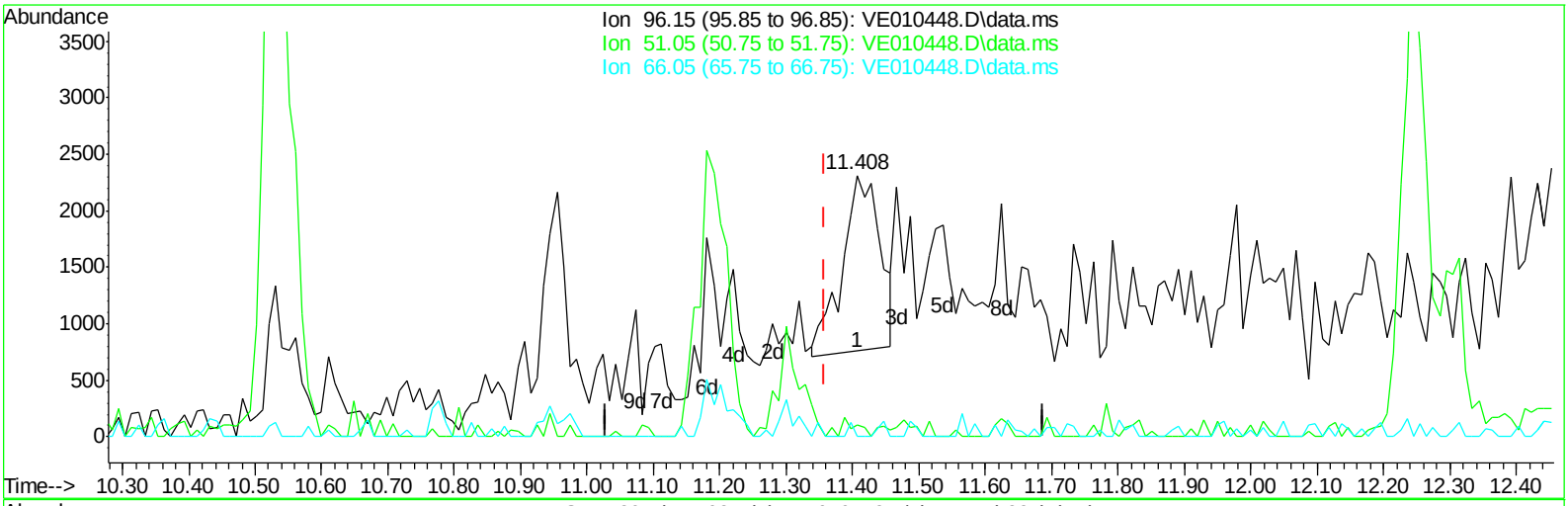
response 22612

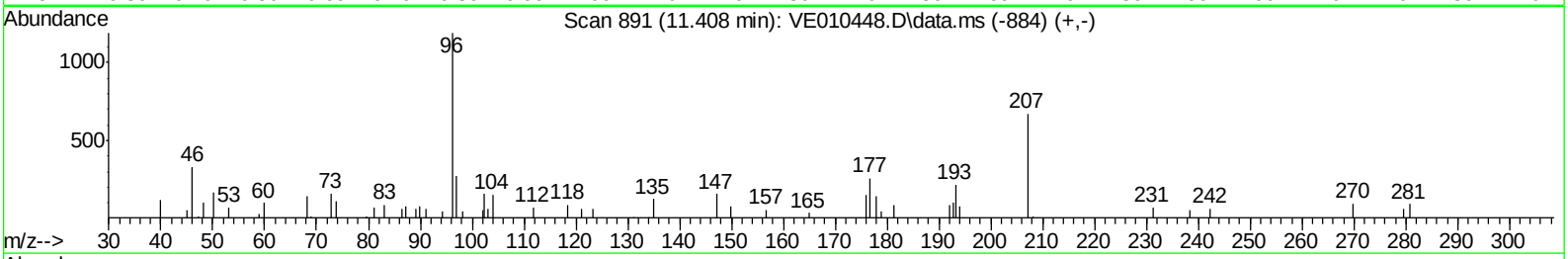
Ion	Exp%	Act%
43.10	100	100
74.10	20.40	1.53#
0.00	0.00	0.00
0.00	0.00	0.00

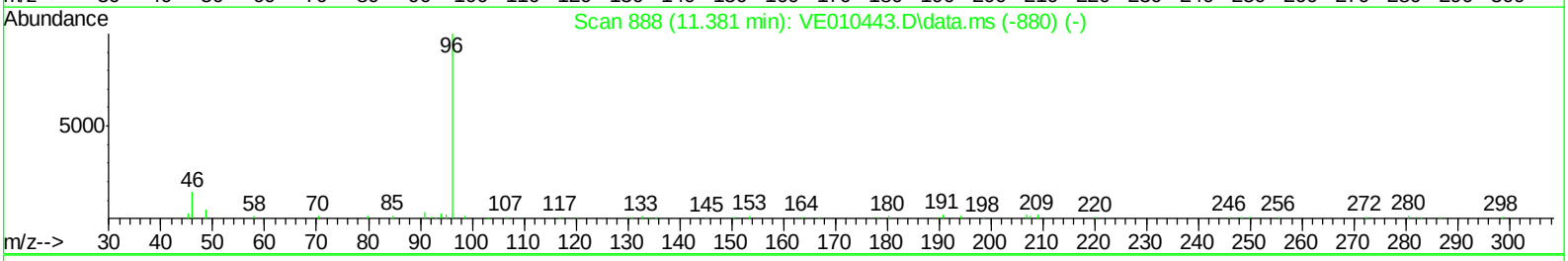
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010448.D
Acq On : 16 Oct 2008 18:14
Operator : SY
Sample : 5 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 16 18:40:35 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 17:10:04 2008
Response via : Initial Calibration







TIC: VE010448.D\data.ms

(27) 1,4-Dioxane-d8 (S)

11.408min (+0.049) 78.67 ug/L

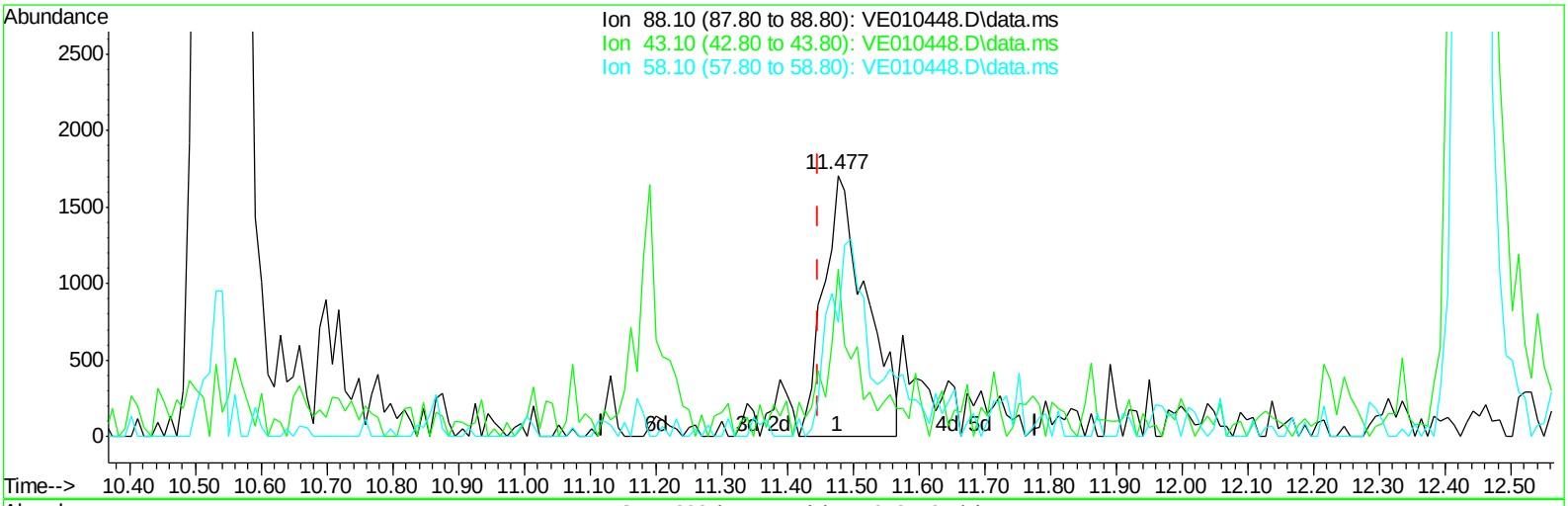
response 6187

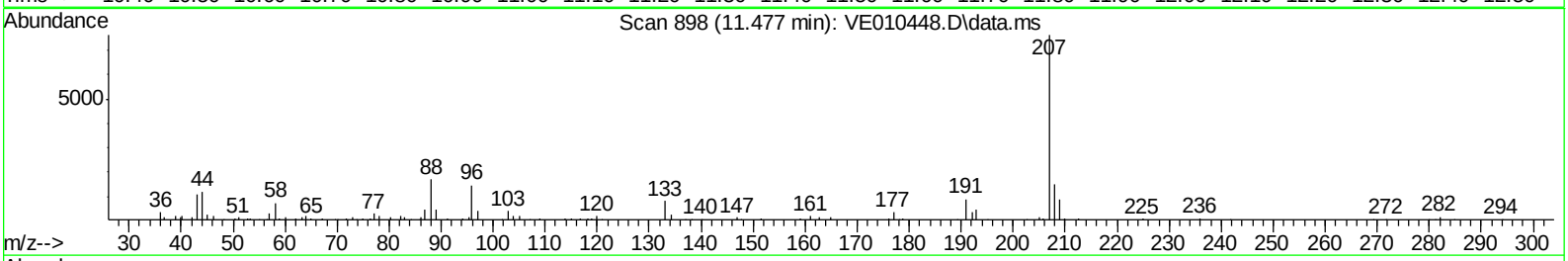
Ion	Exp%	Act%
96.15	100	100
51.05	4.50	0.00#
66.05	1.70	0.00#
0.00	0.00	0.00

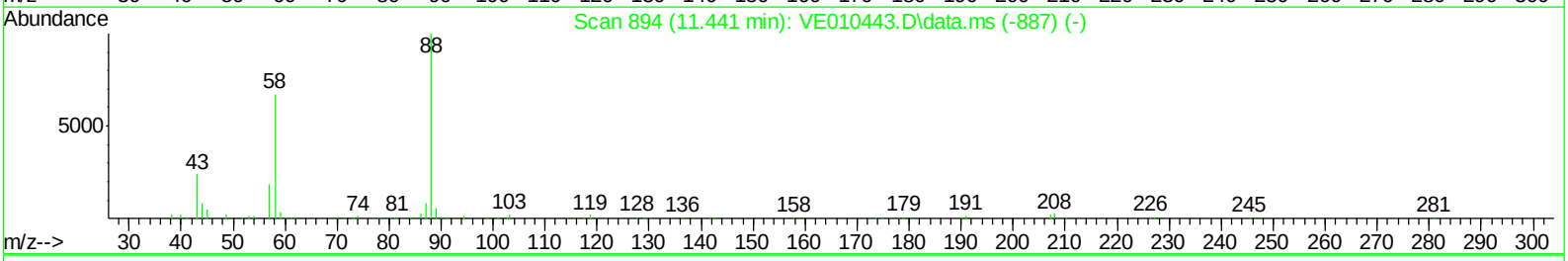
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010448.D
Acq On : 16 Oct 2008 18:14
Operator : SY
Sample : 5 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 16 18:40:35 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 17:10:04 2008
Response via : Initial Calibration







TIC: VE010448.D\data.ms

(29) 1,4-Dioxane (T)

11.477min (+0.029) 87.77 ug/L

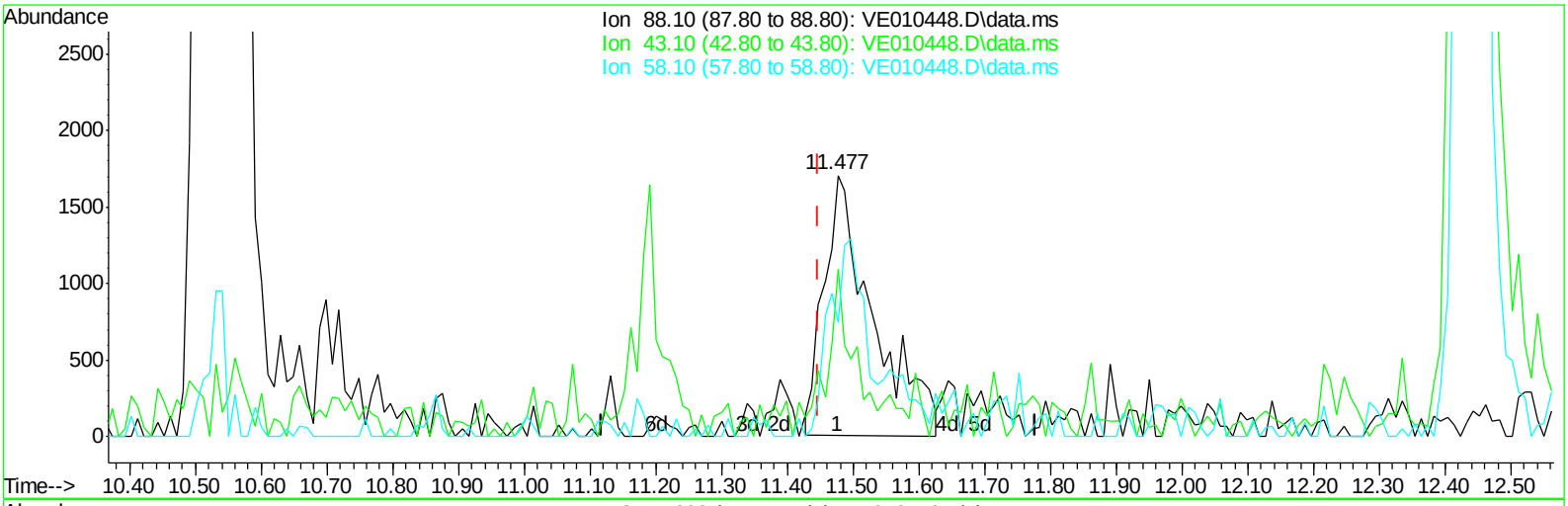
response 7599

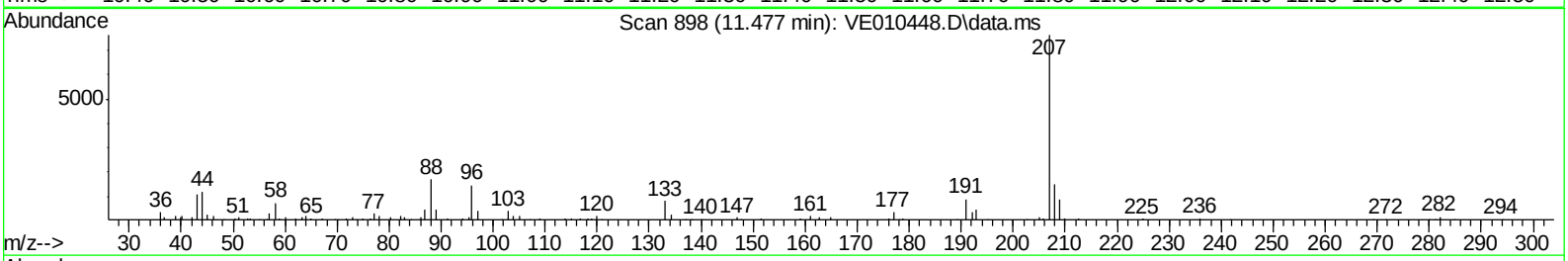
Ion	Exp%	Act%
88.10	100	100
43.10	18.90	41.58#
58.10	51.30	62.72
0.00	0.00	0.00

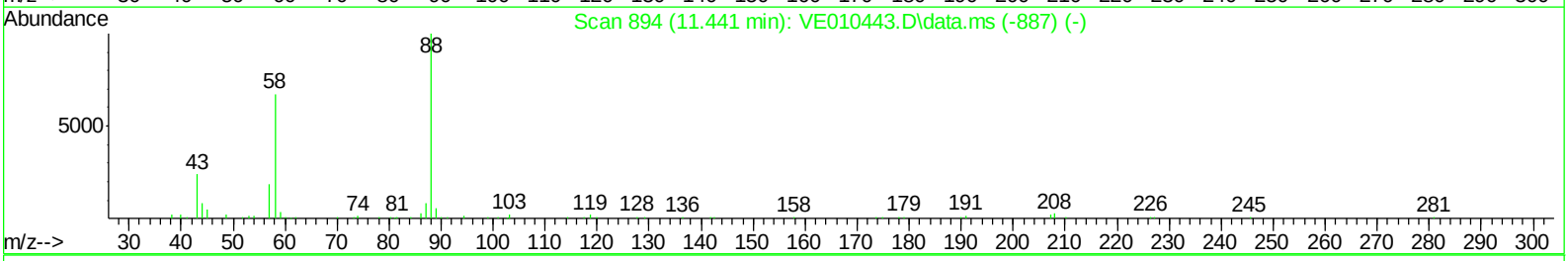
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010448.D
Acq On : 16 Oct 2008 18:14
Operator : SY
Sample : 5 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 16 18:40:35 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 17:10:04 2008
Response via : Initial Calibration







TIC: VE010448.D\data.ms

(29) 1,4-Dioxane (T)

11.477min (+0.029) 101.19 ug/L m

response 8761

Ion	Exp%	Act%
88.10	100	100
43.10	18.90	36.07#
58.10	51.30	54.40
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010448.D
Acq On : 16 Oct 2008 18:14
Operator : SY
Sample : 5 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 16 18:49:45 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 17:10:04 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	10.541	114	918262	50.00	ug/L	0.05
30) Chlorobenzene-d5	14.955	117	1035472	50.00	ug/L	0.04
61) 1,4-Dichlorobenzene-d4	18.769	152	583880	50.00	ug/L	0.05
System Monitoring Compounds						
4) Vinyl Chloride-d3	4.323	65	16965m	4.12	ug/L	0.03
Spiked Amount 50.000			Recovery	=	8.24%	
6) Chloroethane-d5	5.082	69	14320	5.73	ug/L	0.02
Spiked Amount 50.000			Recovery	=	11.46%	
10) 1,1-Dichloroethene-d2	6.353	63	52783	5.33	ug/L	0.03
Spiked Amount 50.000			Recovery	=	10.66%	
20) 2-Butanone-d5	8.787	46	23180	8.06	ug/L	0.05
Spiked Amount 100.000			Recovery	=	8.06%	
21) Chloroform-d	9.279	84	70269	5.34	ug/L	0.05
Spiked Amount 50.000			Recovery	=	10.68%	
24) 1,2-Dichloroethane-d4	10.038	65	43127	4.95	ug/L	0.05
Spiked Amount 50.000			Recovery	=	9.90%	
27) 1,4-Dioxane-d8	11.408	96	11866m	150.87	ug/L	0.05
Spiked Amount 1250.000			Recovery	=	12.07%	
31) Benzene-d6	10.028	84	109865	4.71	ug/L	0.04
Spiked Amount 50.000			Recovery	=	9.42%	
36) 1,2-Dichloropropane-d6	11.191	67	47118	5.66	ug/L	0.05
Spiked Amount 50.000			Recovery	=	11.32%	
38) trans-1,3-Dichloroprop...	13.063	79	13747	4.60	ug/L	0.05
Spiked Amount 50.000			Recovery	=	9.20%	
39) Toluene-d8	12.689	98	117697	4.74	ug/L	0.05
Spiked Amount 50.000			Recovery	=	9.48%	
41) 2-Hexanone-d5	13.605	63	22328	7.74	ug/L	0.05
Spiked Amount 100.000			Recovery	=	7.74%	
50) 1,1,2,2-Tetrachloroeth...	16.995	84	75752	5.74	ug/L	0.05
Spiked Amount 50.000			Recovery	=	11.48%	
62) 1,2-Dichlorobenzene-d4	19.448	152	58036	4.83	ug/L	0.05
Spiked Amount 50.000			Recovery	=	9.66%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.673	85	35470	5.10	ug/L	89
3) Chloromethane	4.087	50	27662	5.20	ug/L	83
5) Vinyl chloride	4.333	62	22426	4.95	ug/L	86
7) Bromomethane	4.983	94	9309m	5.94	ug/L	
8) Chloroethane	5.121	64	11748	6.10	ug/L	96
9) Trichlorofluoromethane	5.574	101	40197	5.90	ug/L #	100
11) 1,1,2-Trichlorotrifluo...	6.294	101	25644	5.75	ug/L	94
12) 1,1-Dichloroethene	6.373	96	20097	5.31	ug/L	77
13) Acetone	6.451	43	20531	12.25	ug/L	94
14) Carbon disulfide	6.786	76	72556	5.18	ug/L	100
15) Methyl Acetate	6.885	43	22612m	6.42	ug/L	
16) Methylene chloride	7.121	84	41260	6.82	ug/L	93
17) Methyl tert-butyl Ether	7.378	73	61150	4.27	ug/L	96
18) trans-1,2-Dichloroethene	7.447	96	34893	5.52	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010448.D
Acq On : 16 Oct 2008 18:14
Operator : SY
Sample : 5 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 16 18:49:45 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 17:10:04 2008
Response via : Initial Calibration

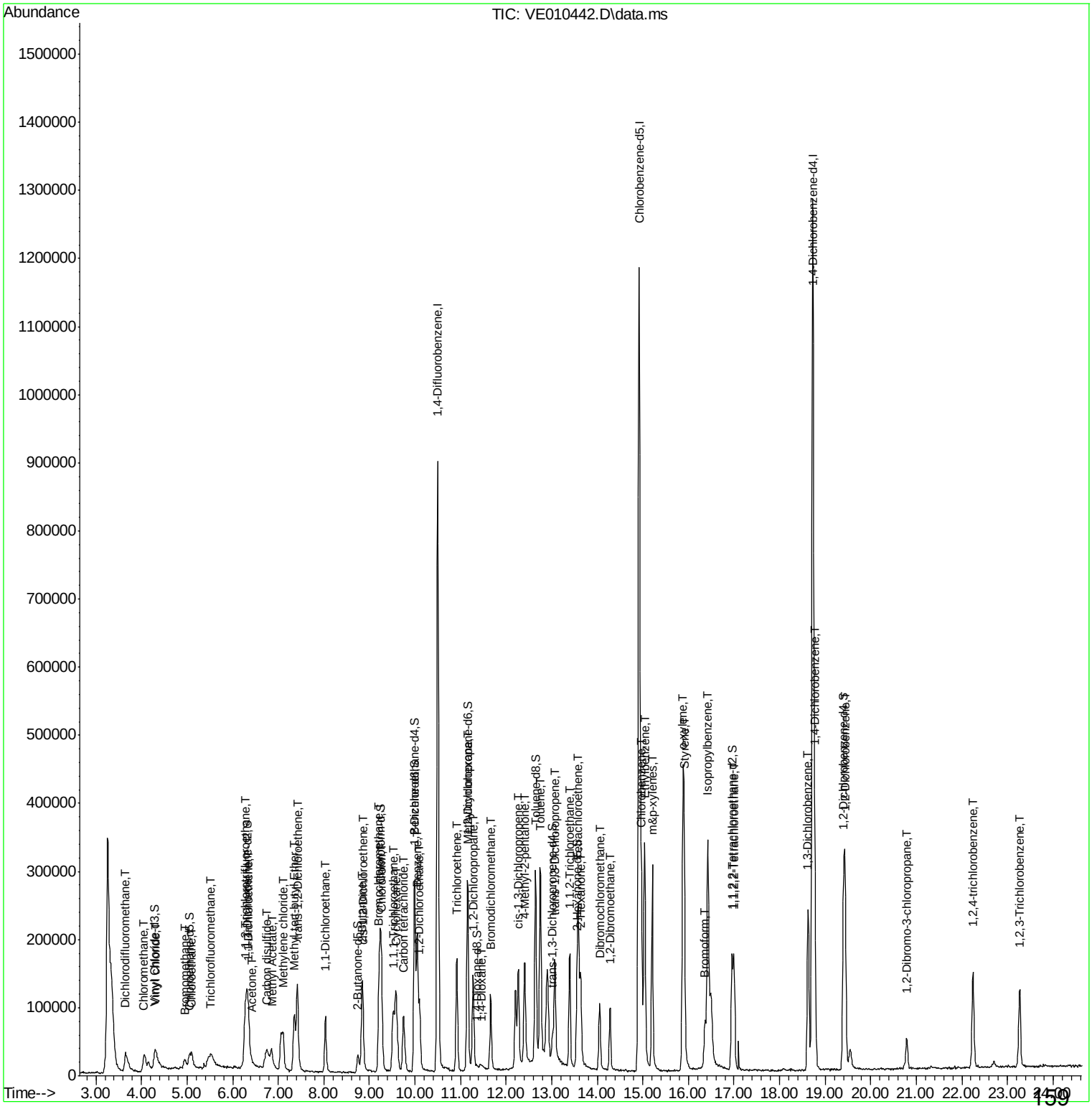
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
19)	1,1-Dichloroethane	8.058	63	54192	5.05	ug/L		92
22)	cis-1,2-Dichloroethene	8.875	96	34242	5.18	ug/L		74
23)	Bromochloromethane	9.240	128	19883	5.36	ug/L		87
25)	Chloroform	9.289	83	70579	5.88	ug/L		96
26)	1,2-Dichloroethane	10.147	62	51458	5.29	ug/L	#	93
28)	2-Butanone	8.866	43	27238	9.80	ug/L		92
29)	1,4-Dioxane	11.477	88	8761m	101.19	ug/L		
32)	Cyclohexane	9.624	56	38048	4.51	ug/L		100
33)	Methylcyclohexane	11.191	83	57170	5.09	ug/L		91
34)	1,1,1-Trichloroethane	9.555	97	52507	5.17	ug/L		96
35)	Carbon tetrachloride	9.782	117	42226	4.95	ug/L		98
37)	Benzene	10.087	78	122392	5.57	ug/L		100
40)	Trichloroethene	10.955	95	34856	4.70	ug/L		92
42)	1,2-Dichloropropane	11.319	63	34703	5.45	ug/L		97
43)	Bromodichloromethane	11.694	83	51120	5.02	ug/L		94
44)	cis-1,3-Dichloropropene	12.305	75	60759	5.14	ug/L		92
45)	4-Methyl-2-pentanone	12.442	43	82735	10.87	ug/L		98
46)	Toluene	12.787	91	151446	5.53	ug/L		99
47)	trans-1,3-Dichloropropene	13.103	75	58147	4.99	ug/L		96
48)	1,1,2-Trichloroethane	13.428	97	41177	5.58	ug/L		96
49)	Tetrachloroethene	13.625	164	31014	4.78	ug/L		95
51)	2-Hexanone	13.664	43	67686	11.78	ug/L		93
52)	Dibromochloromethane	14.098	129	37761	4.53	ug/L		100
53)	1,2-Dibromoethane	14.315	107	48203	5.22	ug/L		97
54)	Chlorobenzene	15.004	112	113153	5.44	ug/L		97
55)	Ethylbenzene	15.073	91	180978	5.47	ug/L		98
56)	m&p-xylenes	15.251	106	65746	4.94	ug/L		85
57)	o-xylene	15.921	106	59332	4.71	ug/L		97
58)	Styrene	15.941	104	122002	5.77	ug/L		96
59)	Isopropylbenzene	16.463	105	182509	5.62	ug/L		99
60)	1,1,2,2-Tetrachloroethane	17.034	83	77170	6.42	ug/L	#	86
63)	Bromoform	16.414	173	24152	4.13	ug/L		91
64)	1,3-Dichlorobenzene	18.670	146	89760	4.84	ug/L		95
65)	1,4-Dichlorobenzene	18.808	146	95348	5.12	ug/L		96
66)	1,2-Dichlorobenzene	19.478	146	95131	5.64	ug/L		94
67)	1,2-Dibromo-3-chloropr...	20.828	75	10126	4.22	ug/L		92
68)	1,2,4-trichlorobenzene	22.286	180	52595	3.99	ug/L		98
69)	1,2,3-Trichlorobenzene	23.311	180	44325	2.90	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010442.D
Acq On : 16 Oct 2008 13:58
Operator : SY
Sample : 10 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 3 Sample Multiplier: 1

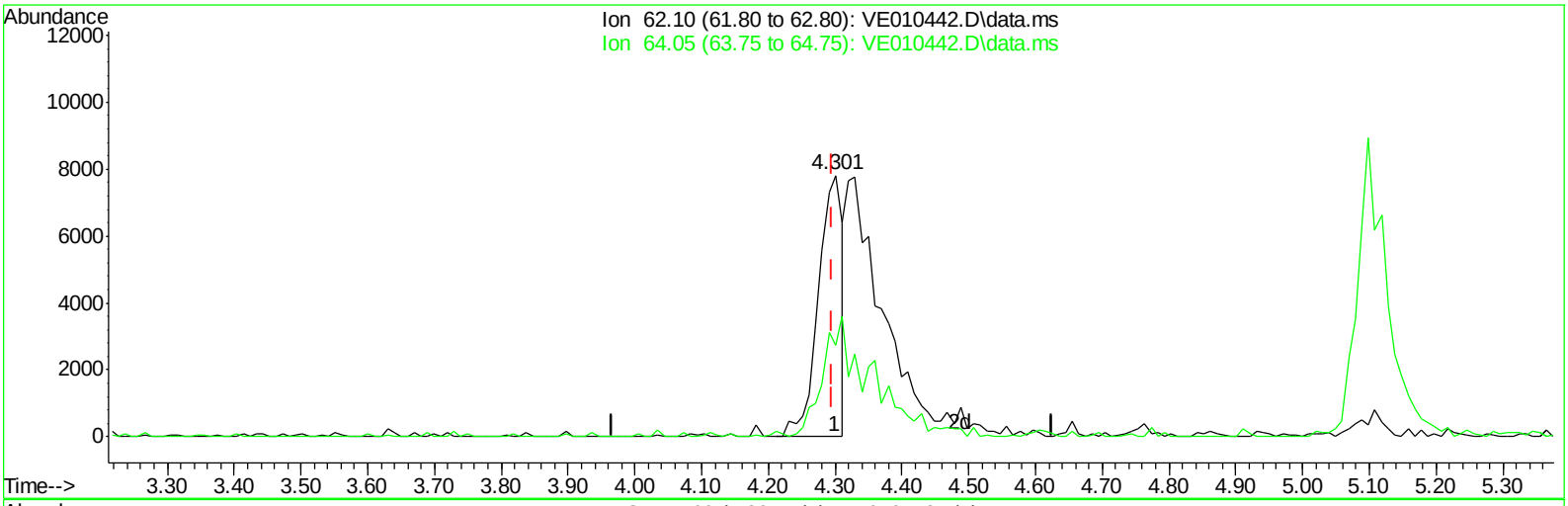
Quant Time: Oct 16 15:09:10 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration

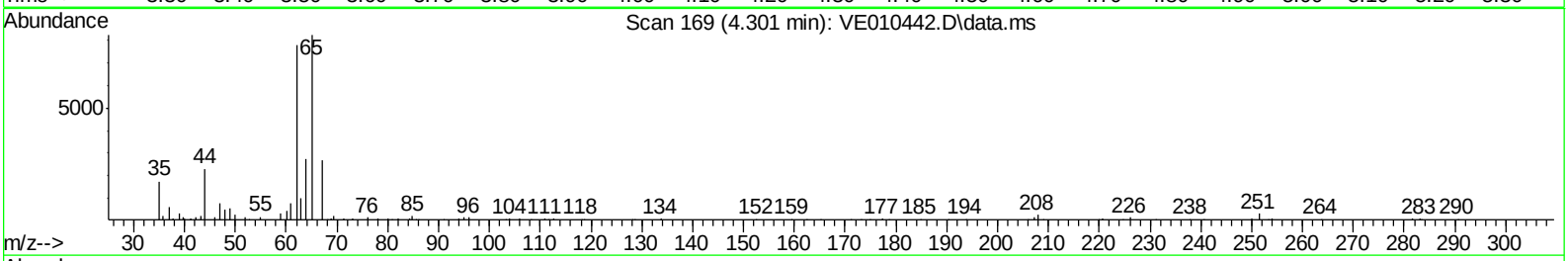


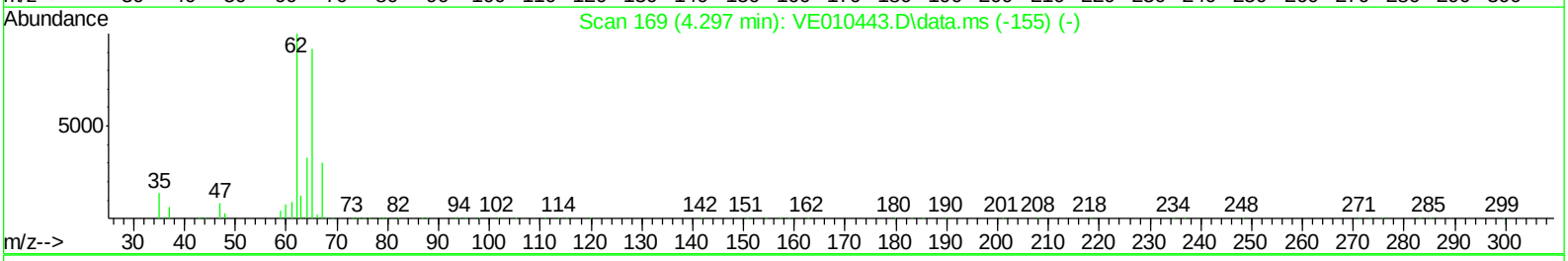
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010442.D
Acq On : 16 Oct 2008 13:58
Operator : SY
Sample : 10 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 16 15:07:38 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration







TIC: VE010442.D\data.ms

(5) Vinyl chloride (T)

4.301min (+0.004) 3.22 ug/L

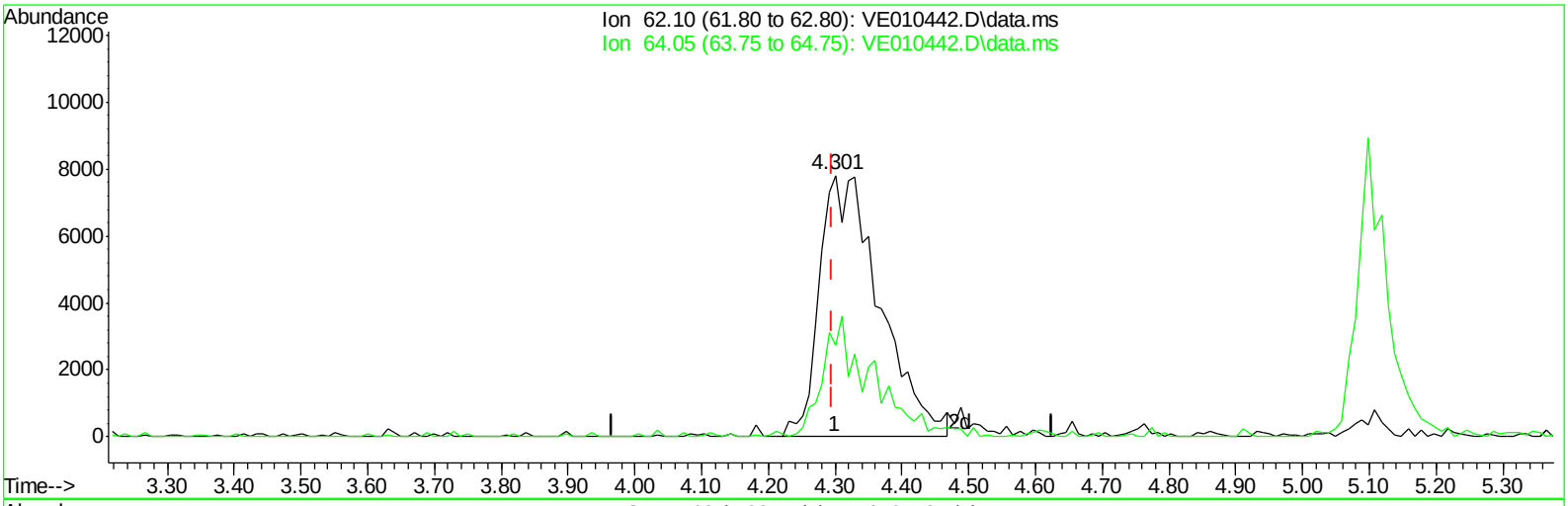
response 19606

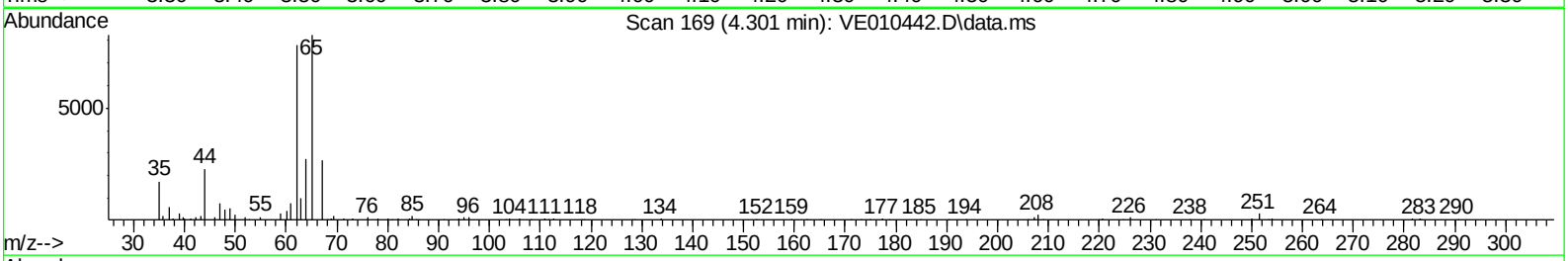
Ion	Exp%	Act%
62.10	100	100
64.05	30.30	34.95
0.00	0.00	0.00
0.00	0.00	0.00

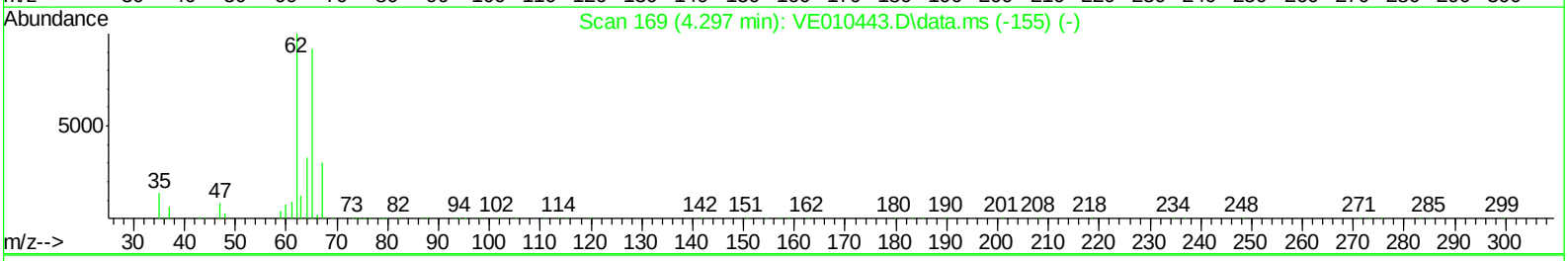
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010442.D
Acq On : 16 Oct 2008 13:58
Operator : SY
Sample : 10 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 16 15:07:38 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration







TIC: VE010442.D\data.ms

(5) Vinyl chloride (T)

4.301min (+0.004) 8.02 ug/L m

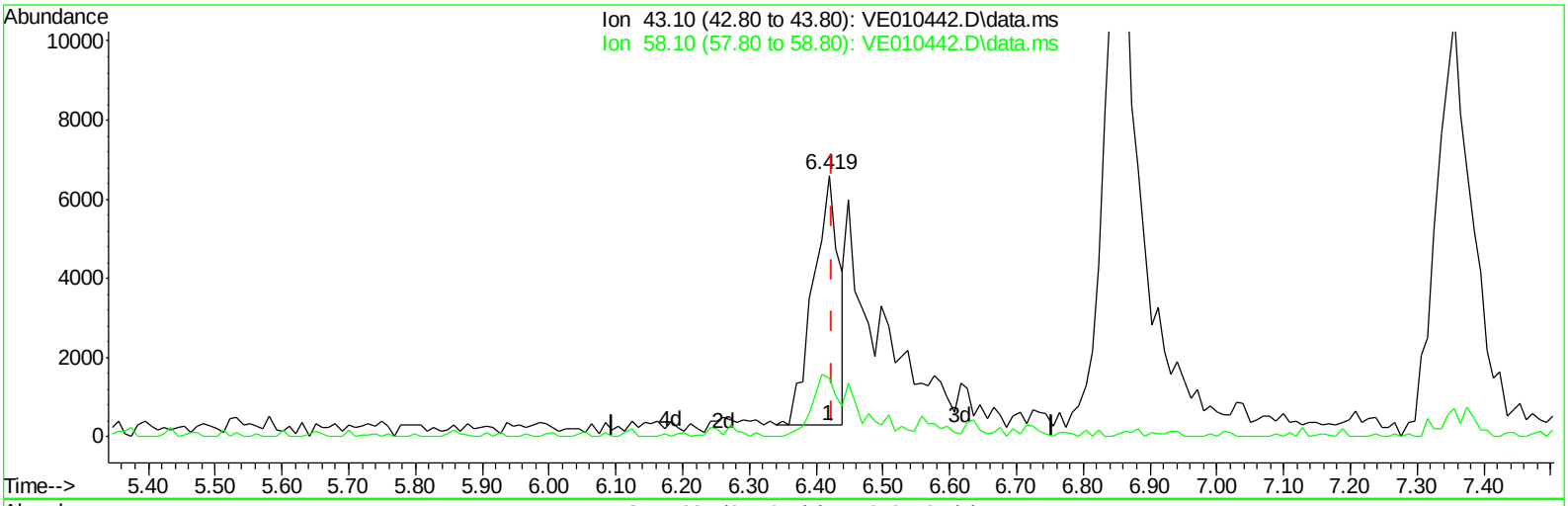
response 48889

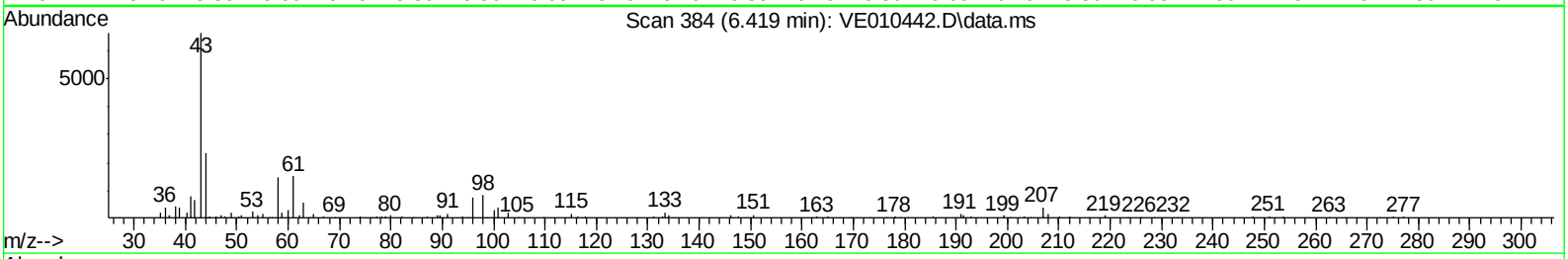
Ion	Exp%	Act%
62.10	100	100
64.05	30.30	34.95
0.00	0.00	0.00
0.00	0.00	0.00

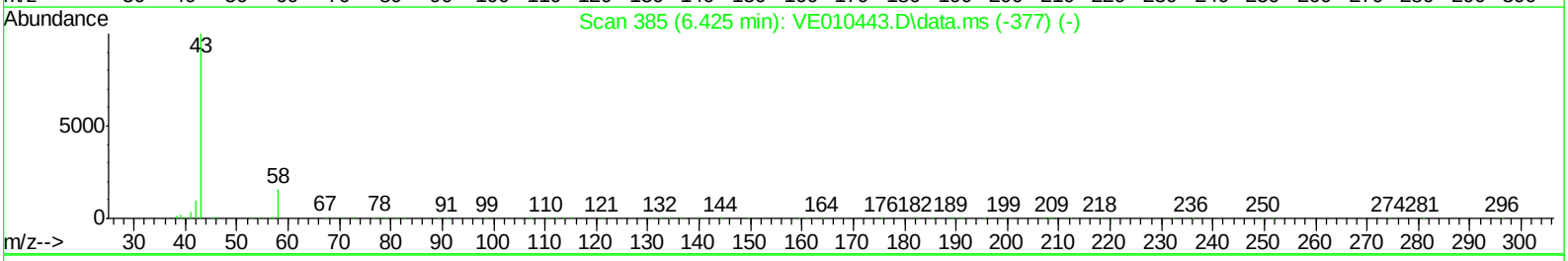
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010442.D
Acq On : 16 Oct 2008 13:58
Operator : SY
Sample : 10 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 16 15:07:38 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration







TIC: VE010442.D\data.ms

(13) Acetone (T)

6.419min (-0.006) 8.87 ug/L

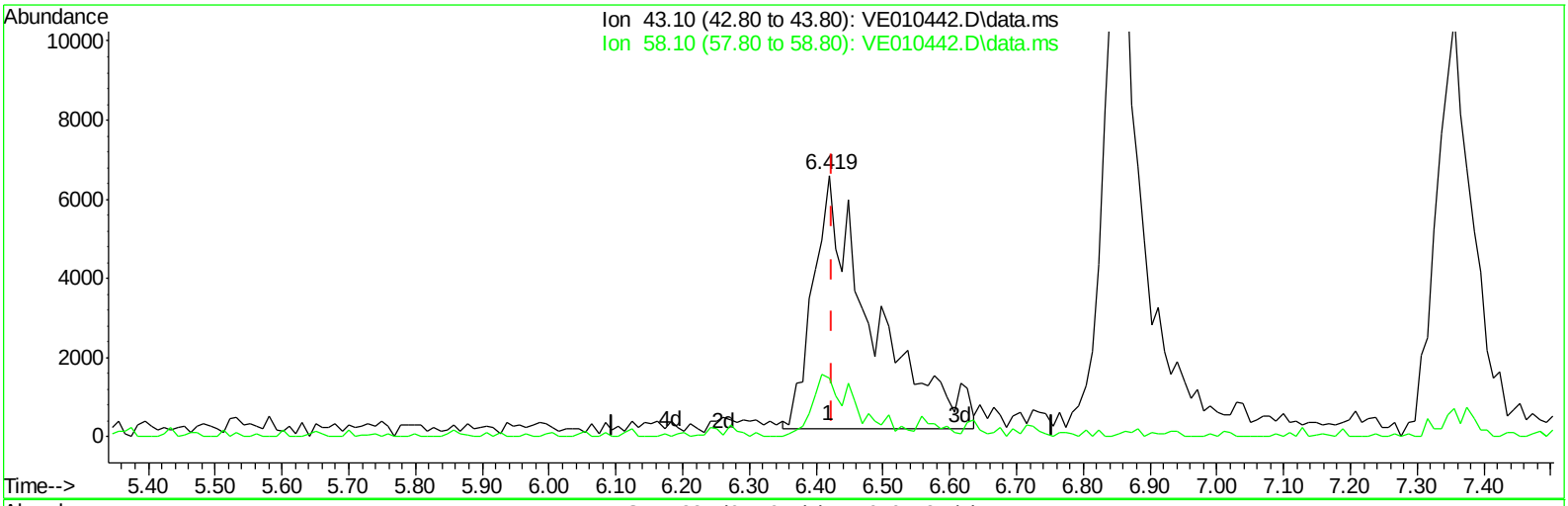
response 16934

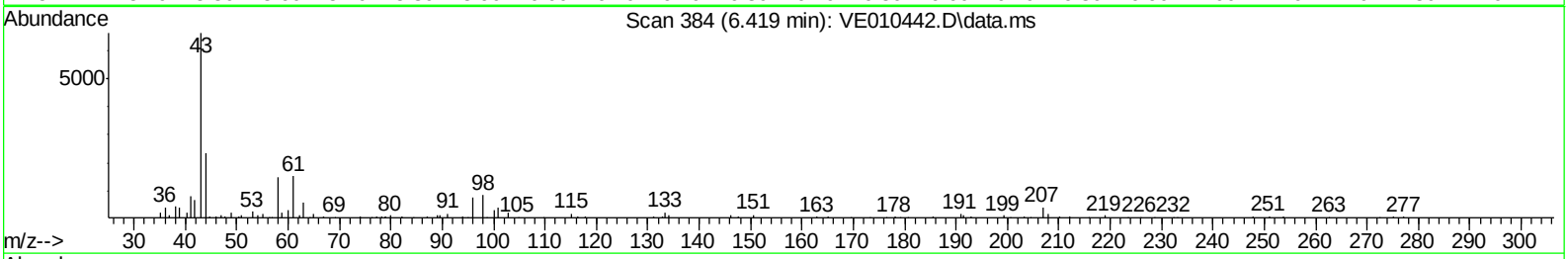
Ion	Exp%	Act%
43.10	100	100
58.10	22.70	24.60
0.00	0.00	0.00
0.00	0.00	0.00

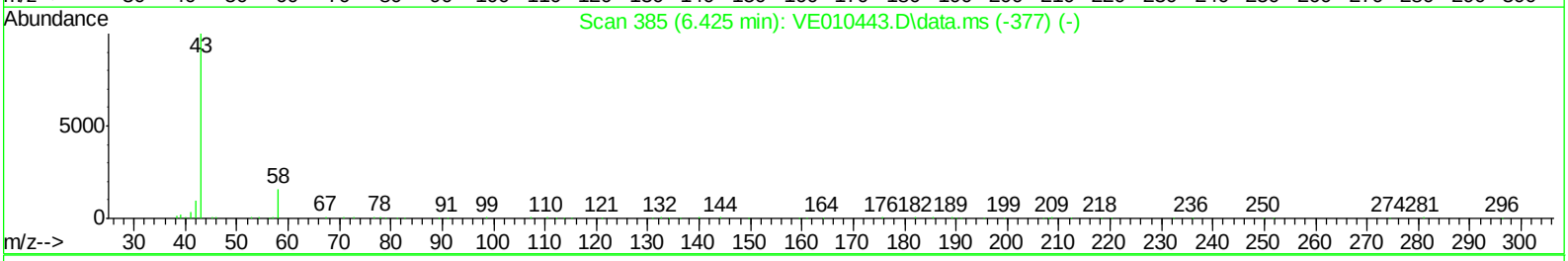
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010442.D
Acq On : 16 Oct 2008 13:58
Operator : SY
Sample : 10 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 16 15:07:38 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration







TIC: VE010442.D\data.ms

(13) Acetone (T)

6.419min (-0.006) 20.69 ug/L m

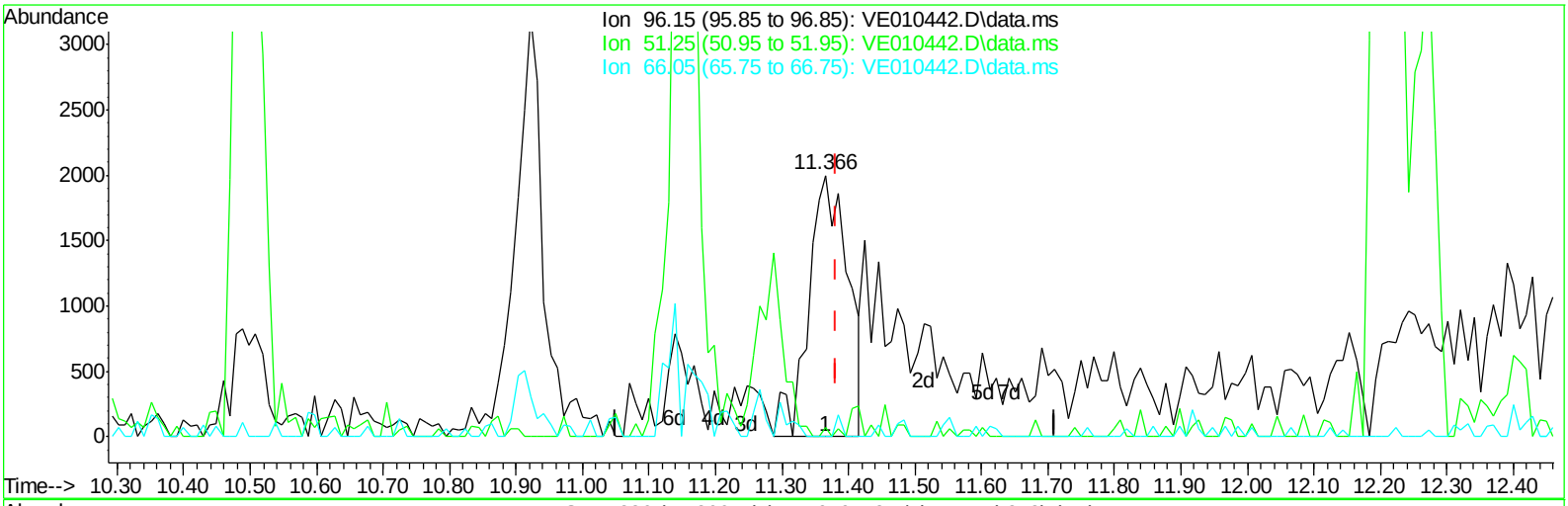
response 39500

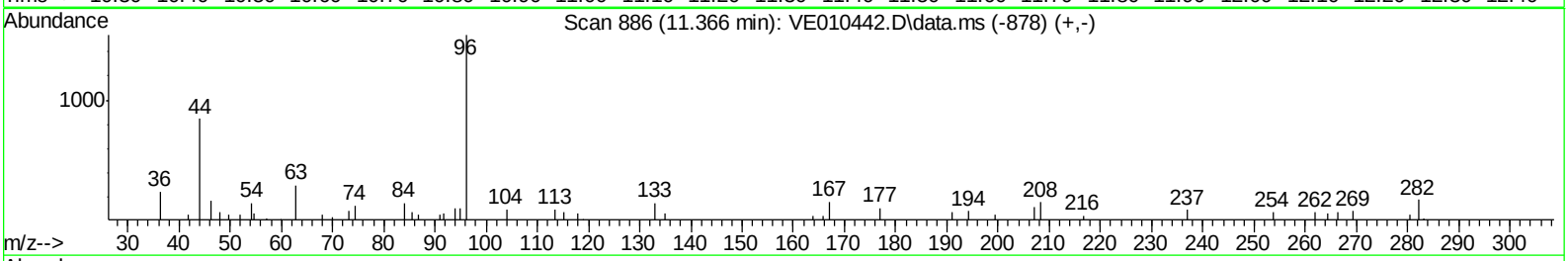
Ion	Exp%	Act%
43.10	100	100
58.10	22.70	10.55
0.00	0.00	0.00
0.00	0.00	0.00

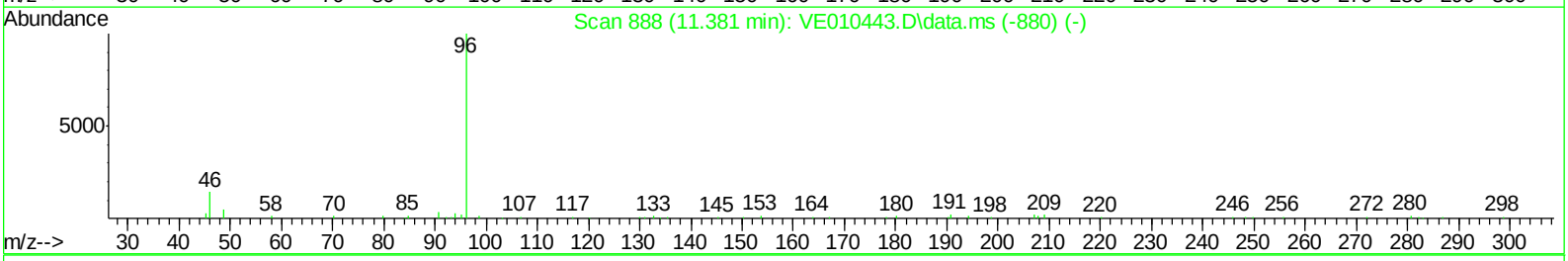
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010442.D
Acq On : 16 Oct 2008 13:58
Operator : SY
Sample : 10 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 16 15:07:38 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration







TIC: VE010442.D\data.ms

(27) 1,4-Dioxane-d8 (S)

11.366min (-0.016) 135.44 ug/L

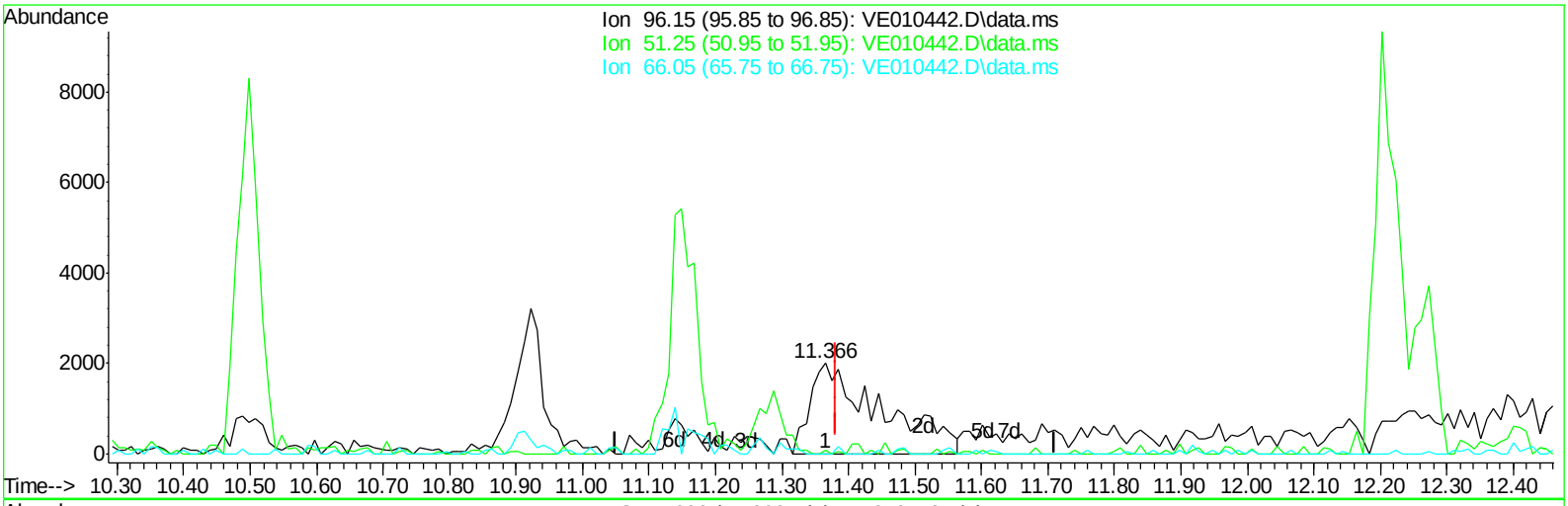
response 8283

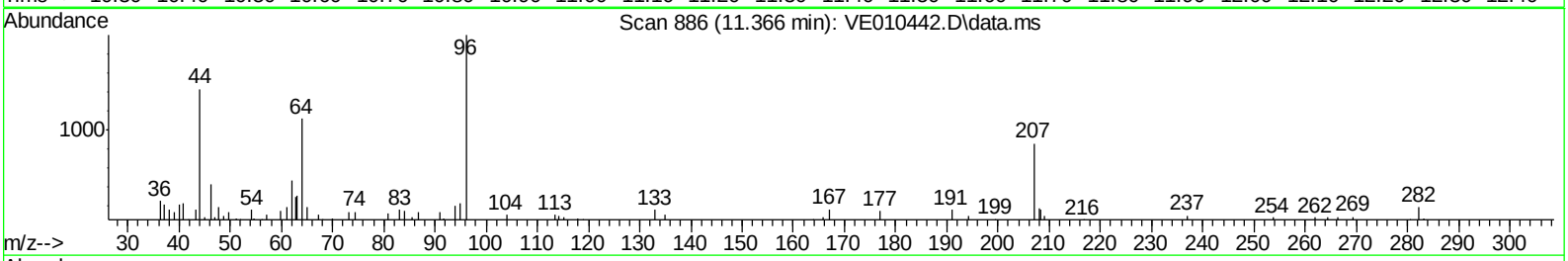
Ion	Exp%	Act%
96.15	100	100
51.25	1.40	0.00#
66.05	1.20	0.00#
0.00	0.00	0.00

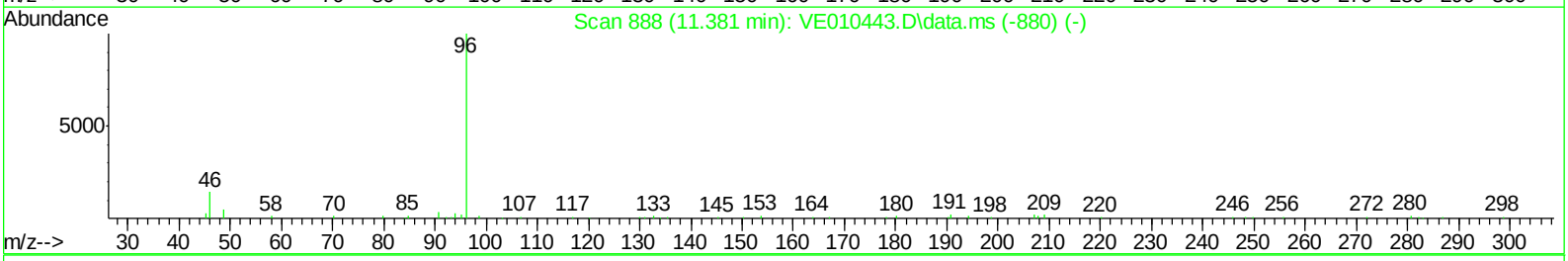
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010442.D
Acq On : 16 Oct 2008 13:58
Operator : SY
Sample : 10 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 16 15:07:38 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration







TIC: VE010442.D\data.ms

(27) 1,4-Dioxane-d8 (S)

11.366min (-0.016) 240.41 ug/L m

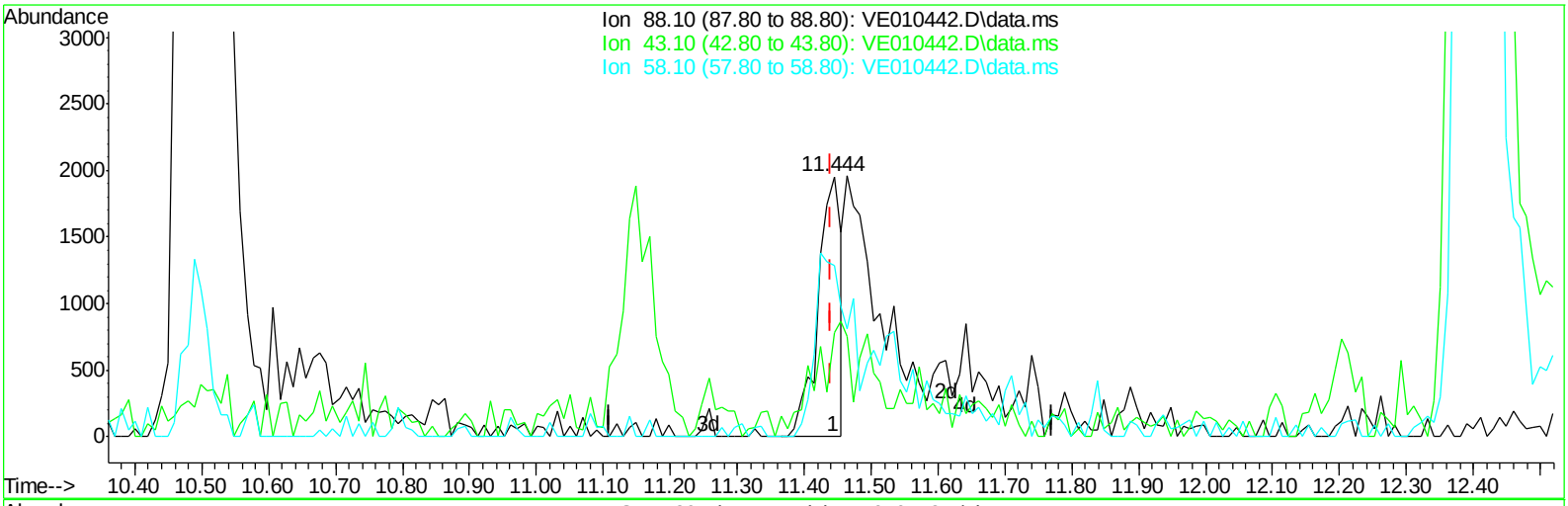
response 14703

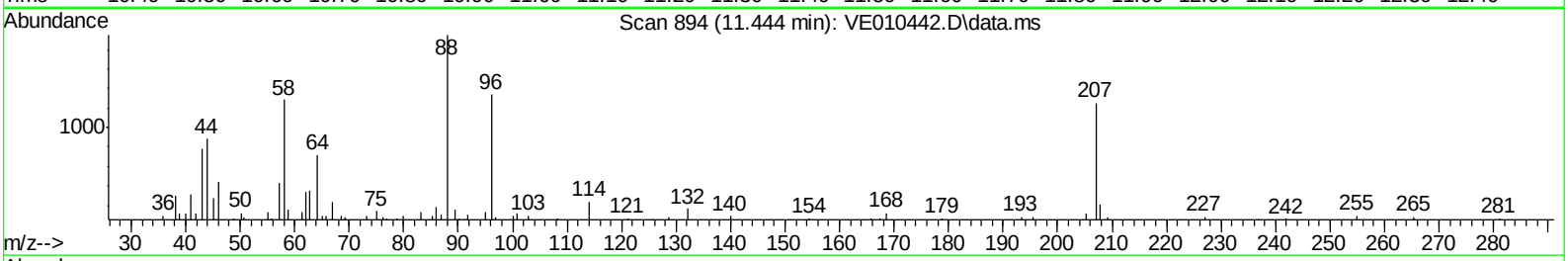
Ion	Exp%	Act%
96.15	100	100
51.25	1.40	3.40#
66.05	1.20	0.00#
0.00	0.00	0.00

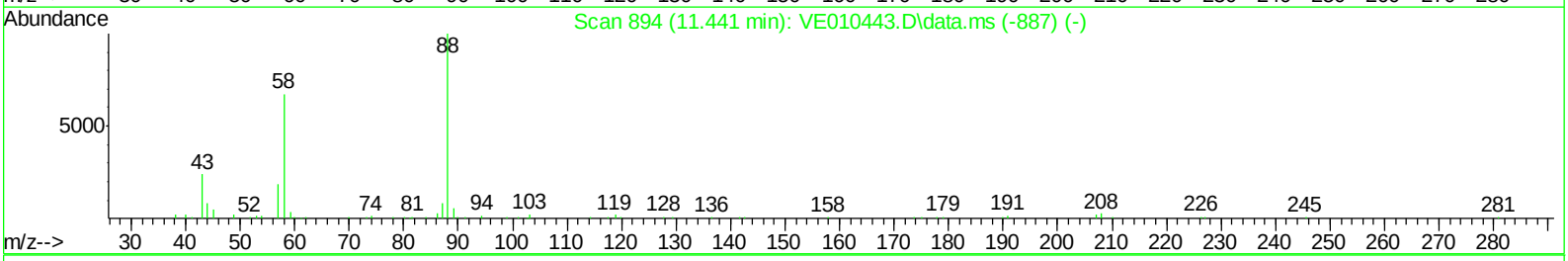
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010442.D
Acq On : 16 Oct 2008 13:58
Operator : SY
Sample : 10 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 16 15:07:38 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration







TIC: VE010442.D\data.ms

(29) 1,4-Dioxane (T)

11.444min (+0.004) 60.58 ug/L

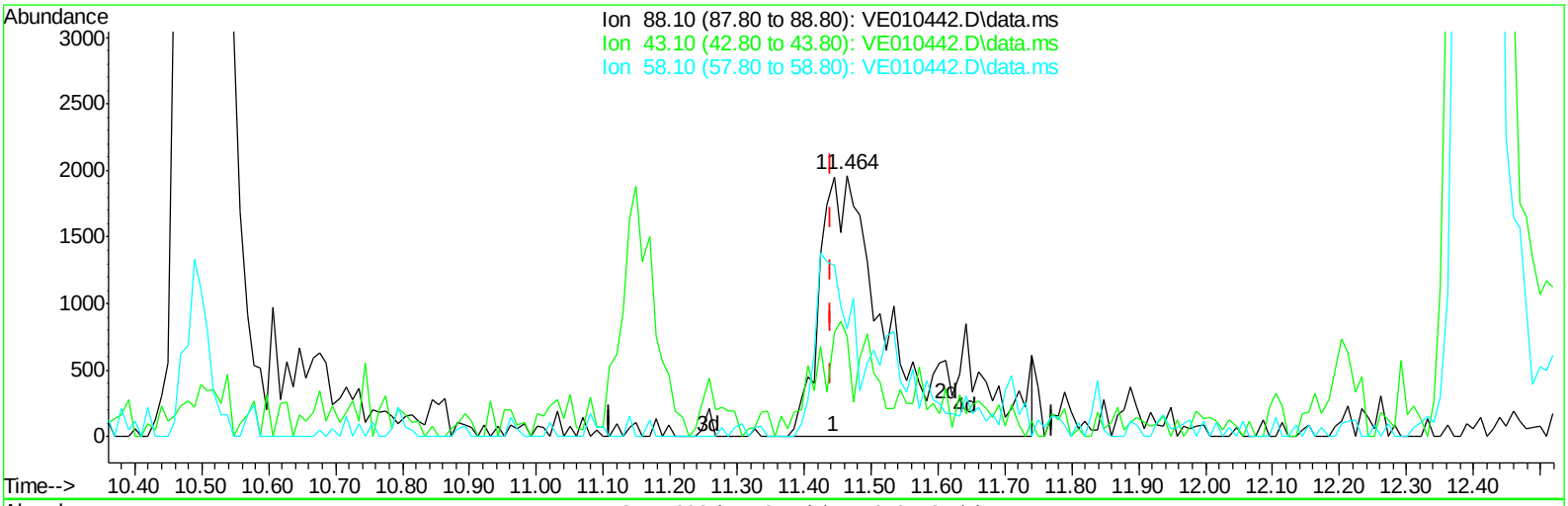
response 4612

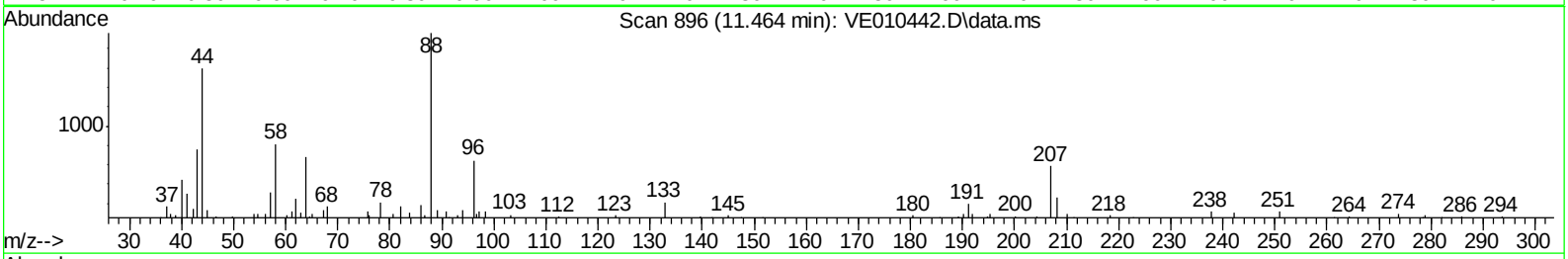
Ion	Exp%	Act%
88.10	100	100
43.10	26.50	66.07#
58.10	56.00	111.69#
0.00	0.00	0.00

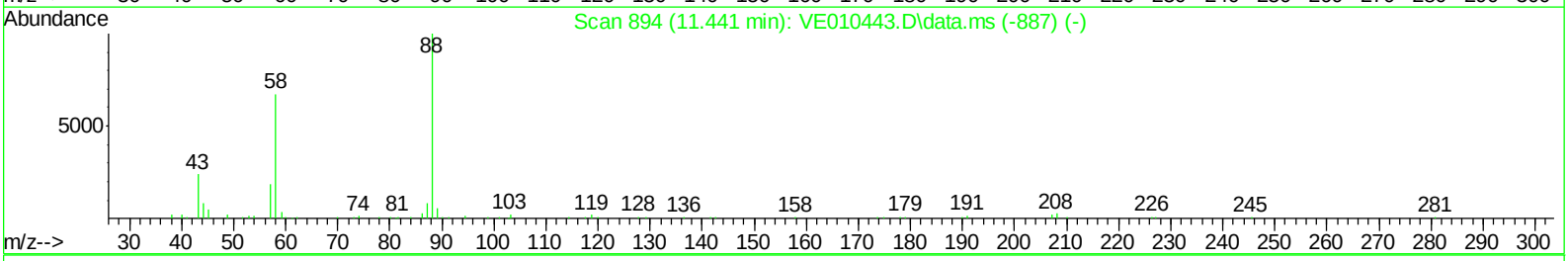
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010442.D
Acq On : 16 Oct 2008 13:58
Operator : SY
Sample : 10 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 16 15:07:38 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration







TIC: VE010442.D\data.ms

(29) 1,4-Dioxane (T)

11.464min (+0.024) 208.09 ug/L m

response 15842

Ion	Exp%	Act%
88.10	100	100
43.10	26.50	19.23
58.10	56.00	32.51#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010442.D
Acq On : 16 Oct 2008 13:58
Operator : SY
Sample : 10 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 16 15:09:10 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	10.499	114	1070735	50.00	ug/L	0.00
30) Chlorobenzene-d5	14.923	117	1153270	50.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	18.726	152	611558	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	4.291	65	50217	12.90	ug/L	0.00
Spiked Amount 50.000			Recovery = 25.80%			
6) Chloroethane-d5	5.049	69	34720	13.86	ug/L	0.00
Spiked Amount 50.000			Recovery = 27.72%			
10) 1,1-Dichloroethene-d2	6.330	63	122881	11.25	ug/L	0.00
Spiked Amount 50.000			Recovery = 22.50%			
20) 2-Butanone-d5	8.745	46	63082	17.25	ug/L	0.00
Spiked Amount 100.000			Recovery = 17.25%			
21) Chloroform-d	9.237	84	167252	11.45	ug/L	0.00
Spiked Amount 50.000			Recovery = 22.90%			
24) 1,2-Dichloroethane-d4	9.986	65	109031	11.49	ug/L	0.00
Spiked Amount 50.000			Recovery = 22.98%			
27) 1,4-Dioxane-d8	11.366	96	14703m	240.41	ug/L	-0.02
Spiked Amount 1250.000			Recovery = 19.23%			
31) Benzene-d6	9.996	84	279284	10.70	ug/L	0.00
Spiked Amount 50.000			Recovery = 21.40%			
36) 1,2-Dichloropropane-d6	11.149	67	99674	10.22	ug/L	0.00
Spiked Amount 50.000			Recovery = 20.44%			
38) trans-1,3-Dichloroprop...	13.021	79	30760	9.39	ug/L	0.00
Spiked Amount 50.000			Recovery = 18.78%			
39) Toluene-d8	12.647	98	283571	10.76	ug/L	0.00
Spiked Amount 50.000			Recovery = 21.52%			
41) 2-Hexanone-d5	13.553	63	67533	19.42	ug/L	0.00
Spiked Amount 100.000			Recovery = 19.42%			
50) 1,1,2,2-Tetrachloroeth...	16.953	84	158646	10.41	ug/L	0.00
Spiked Amount 50.000			Recovery = 20.82%			
62) 1,2-Dichlorobenzene-d4	19.406	152	120855	9.93	ug/L	0.00
Spiked Amount 50.000			Recovery = 19.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.650	85	79415	7.89	ug/L	98
3) Chloromethane	4.054	50	63305	9.29	ug/L	97
5) Vinyl chloride	4.301	62	48889m	8.02	ug/L	
7) Bromomethane	4.951	94	18505	5.90	ug/L	90
8) Chloroethane	5.099	64	27849	11.85	ug/L #	71
9) Trichlorofluoromethane	5.513	101	77835	9.74	ug/L #	51
11) 1,1,2-Trichlorotrifluo...	6.281	101	54825	10.37	ug/L	99
12) 1,1-Dichloroethene	6.350	96	48861	10.96	ug/L	83
13) Acetone	6.419	43	39500m	20.69	ug/L	
14) Carbon disulfide	6.754	76	152503	8.94	ug/L	100
15) Methyl Acetate	6.862	43	51169	8.78	ug/L	99
16) Methylene chloride	7.099	84	88412	10.59	ug/L	92
17) Methyl tert-butyl Ether	7.355	73	154157	7.90	ug/L	97
18) trans-1,2-Dichloroethene	7.424	96	77030	10.24	ug/L	83

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010442.D
Acq On : 16 Oct 2008 13:58
Operator : SY
Sample : 10 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 16 15:09:10 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration

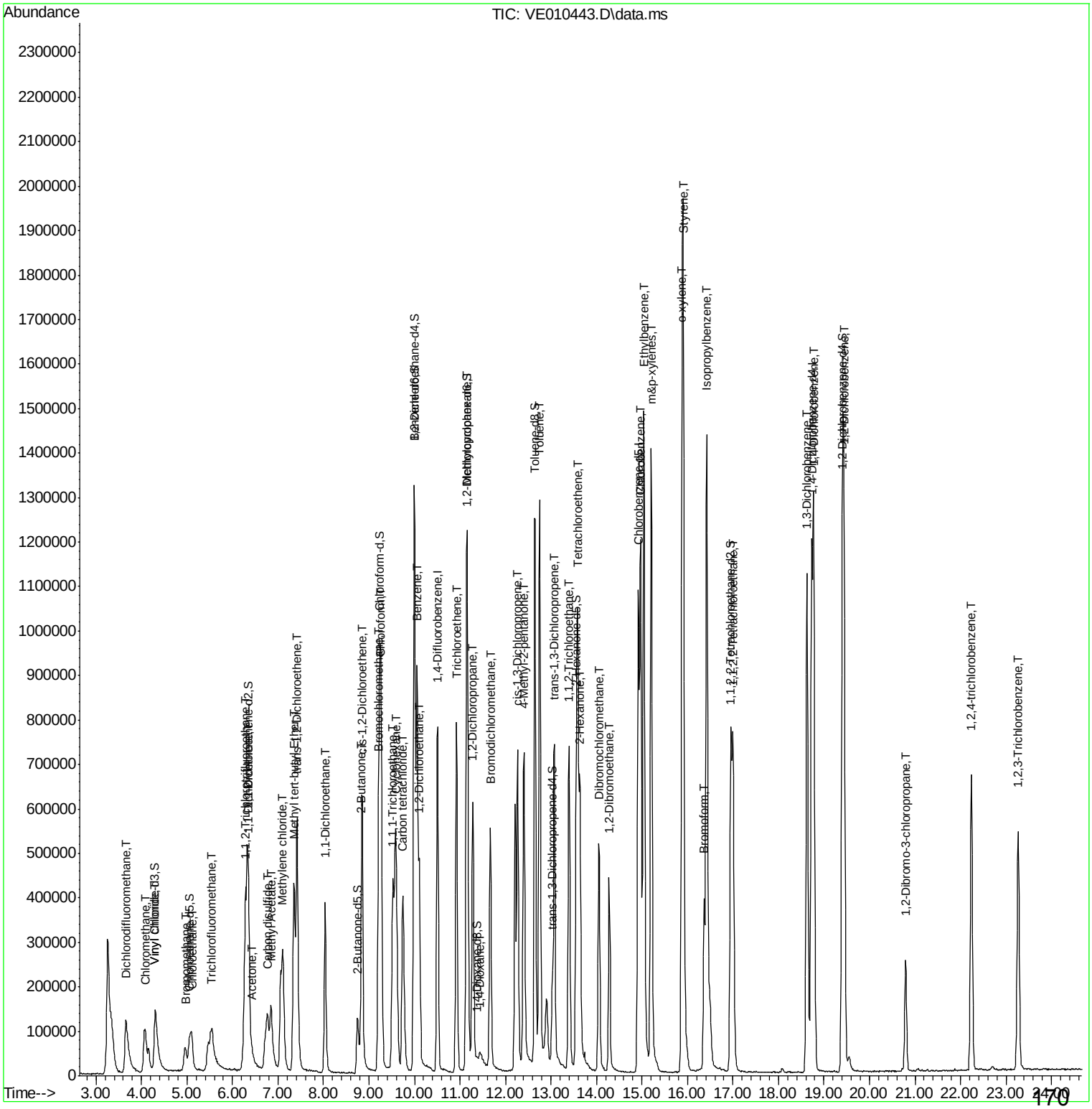
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
19)	1,1-Dichloroethane	8.035	63	122103	8.95 ug/L	95
22)	cis-1,2-Dichloroethene	8.853	96	75821	9.43 ug/L #	93
23)	Bromochloromethane	9.208	128	43107	9.04 ug/L	97
25)	Chloroform	9.267	83	144080	10.17 ug/L	93
26)	1,2-Dichloroethane	10.095	62	116157	10.16 ug/L	99
28)	2-Butanone	8.833	43	69931	18.69 ug/L	99
29)	1,4-Dioxane	11.464	88	15842m	208.09 ug/L	
32)	Cyclohexane	9.582	56	88492	8.61 ug/L	91
33)	Methylcyclohexane	11.159	83	121893	10.26 ug/L	95
34)	1,1,1-Trichloroethane	9.523	97	107766	9.11 ug/L	98
35)	Carbon tetrachloride	9.740	117	83334	8.16 ug/L	97
37)	Benzene	10.055	78	259467	9.90 ug/L	100
40)	Trichloroethene	10.922	95	81653	9.73 ug/L	96
42)	1,2-Dichloropropane	11.277	63	68979	9.10 ug/L #	97
43)	Bromodichloromethane	11.661	83	108466	8.85 ug/L	92
44)	cis-1,3-Dichloropropene	12.262	75	126692	9.15 ug/L	92
45)	4-Methyl-2-pentanone	12.400	43	164872	17.17 ug/L	96
46)	Toluene	12.755	91	309429	10.08 ug/L	96
47)	trans-1,3-Dichloropropene	13.070	75	119317	8.68 ug/L	100
48)	1,1,2-Trichloroethane	13.396	97	84313	9.96 ug/L	94
49)	Tetrachloroethene	13.583	164	71366	10.25 ug/L	95
51)	2-Hexanone	13.632	43	132803	18.18 ug/L	97
52)	Dibromochloromethane	14.056	129	77586	7.38 ug/L	100
53)	1,2-Dibromoethane	14.282	107	97736	9.29 ug/L	97
54)	Chlorobenzene	14.972	112	233071	10.16 ug/L	97
55)	Ethylbenzene	15.041	91	384024	10.50 ug/L	93
56)	m&p-xylenes	15.199	106	142068	9.74 ug/L	95
57)	o-xylene	15.879	106	147925	10.70 ug/L	94
58)	Styrene	15.908	104	257104	11.08 ug/L	97
59)	Isopropylbenzene	16.421	105	355911	9.95 ug/L	99
60)	1,1,2,2-Tetrachloroethane	17.002	83	146245	10.23 ug/L	98
63)	Bromoform	16.361	173	45364	5.86 ug/L	99
64)	1,3-Dichlorobenzene	18.618	146	183853	9.61 ug/L	97
65)	1,4-Dichlorobenzene	18.766	146	190287	9.92 ug/L	95
66)	1,2-Dichlorobenzene	19.436	146	174727	10.07 ug/L	95
67)	1,2-Dibromo-3-chloropr...	20.786	75	22502	8.25 ug/L #	62
68)	1,2,4-trichlorobenzene	22.244	180	82715	6.44 ug/L	99
69)	1,2,3-Trichlorobenzene	23.259	180	77624	6.36 ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010443.D
Acq On : 16 Oct 2008 14:32
Operator : SY
Sample : 50 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 4 Sample Multiplier: 1

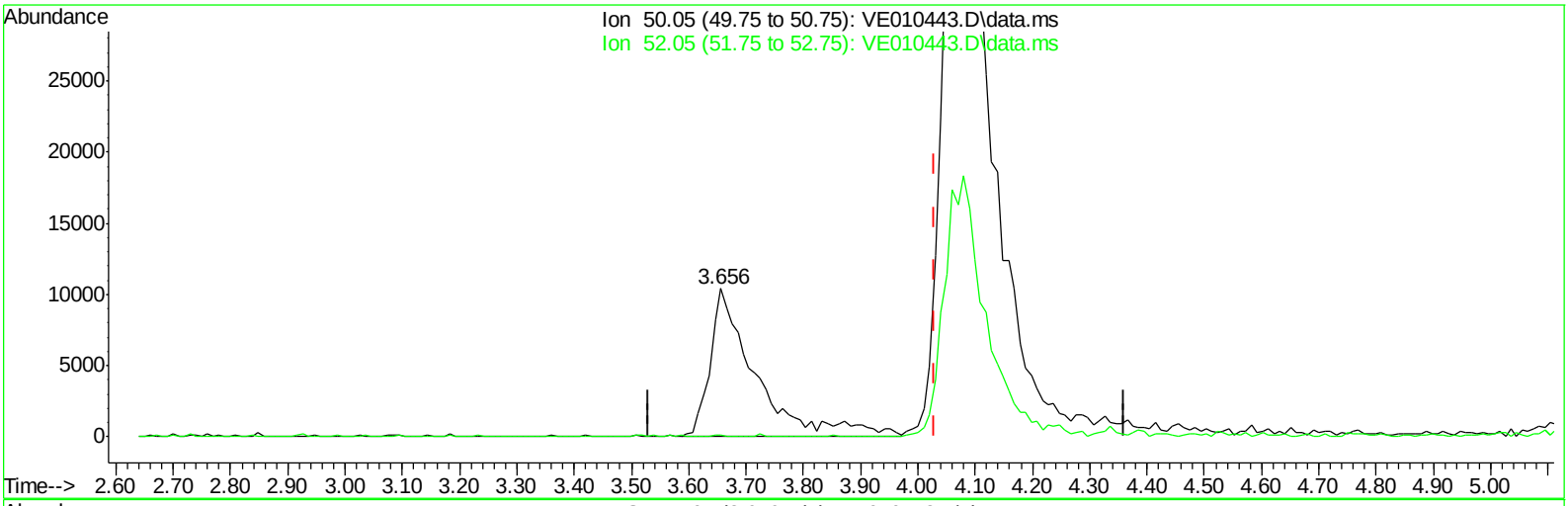
Quant Time: Oct 16 15:05:55 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 07 17:39:38 2008
Response via : Initial Calibration

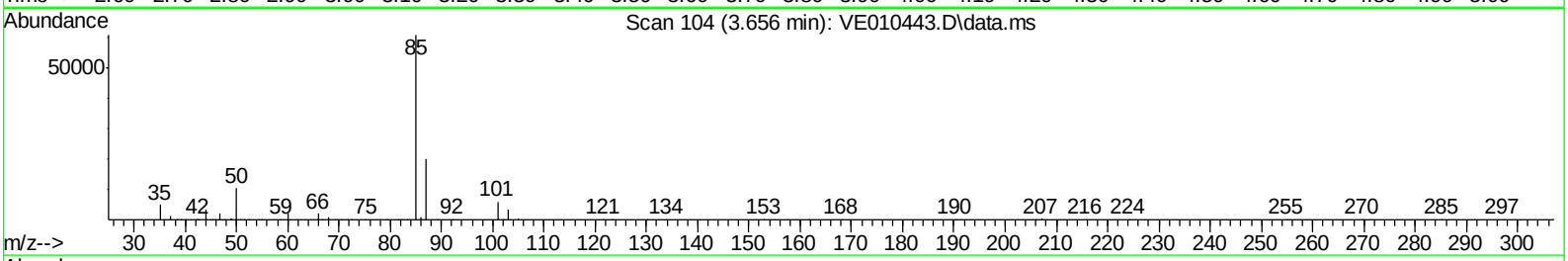


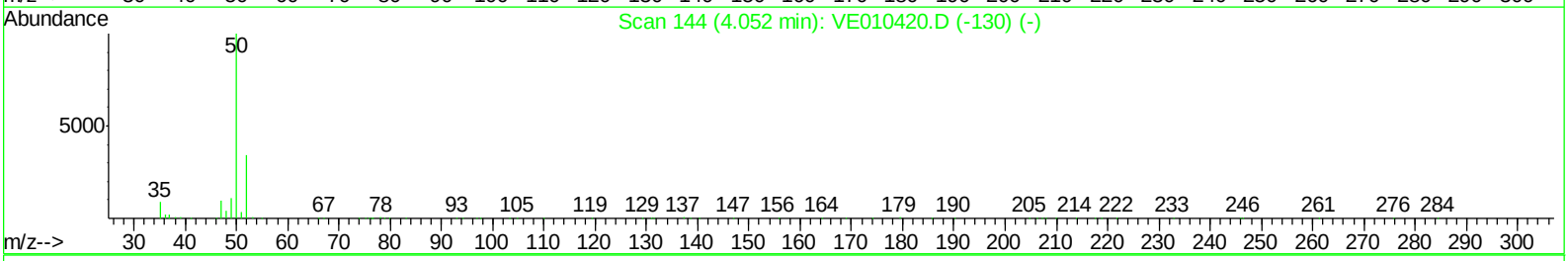
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010443.D
Acq On : 16 Oct 2008 14:32
Operator : SY
Sample : 50 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 16 15:03:00 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 07 17:39:38 2008
Response via : Initial Calibration







TIC: VE010443.D\data.ms

(3) Chloromethane (T)

3.656min (-0.375) 9.67 ug/L

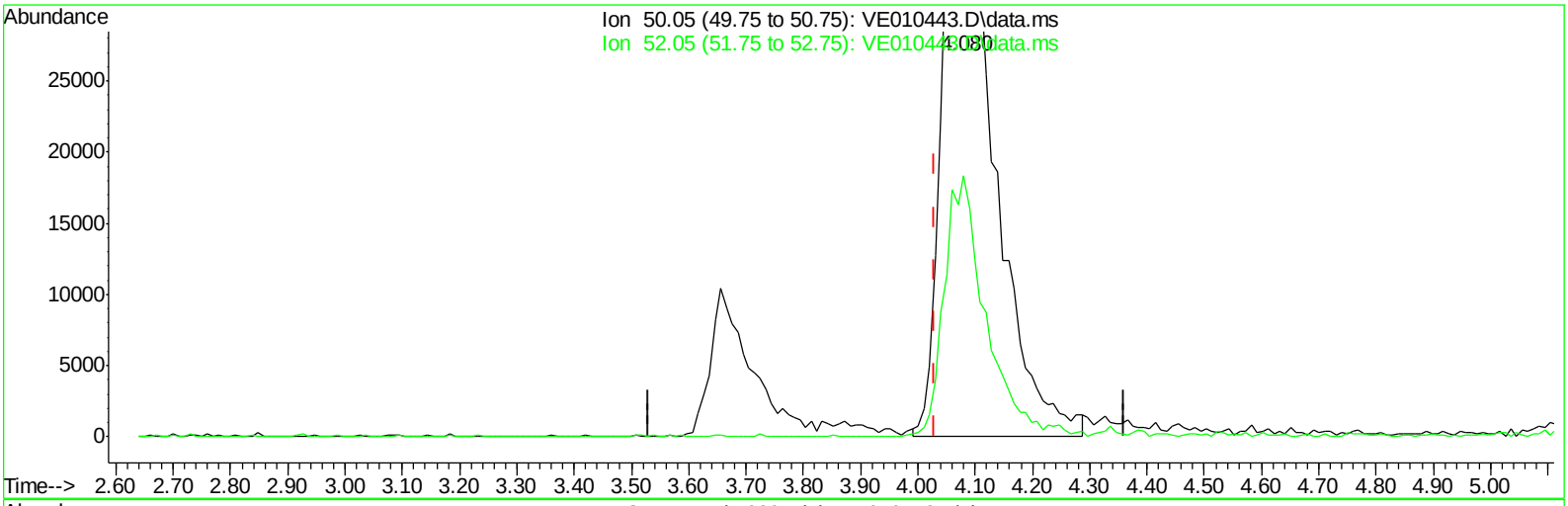
response 57609

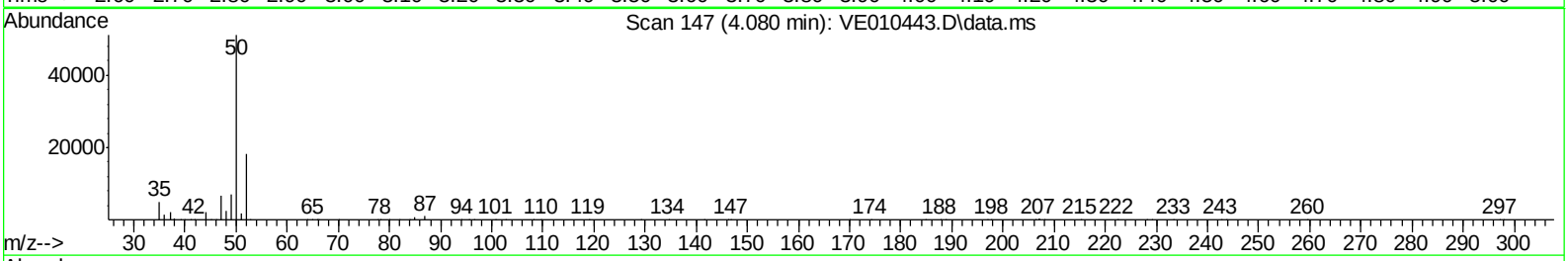
Ion	Exp%	Act%
50.05	100	100
52.05	31.30	1.48#
0.00	0.00	0.00
0.00	0.00	0.00

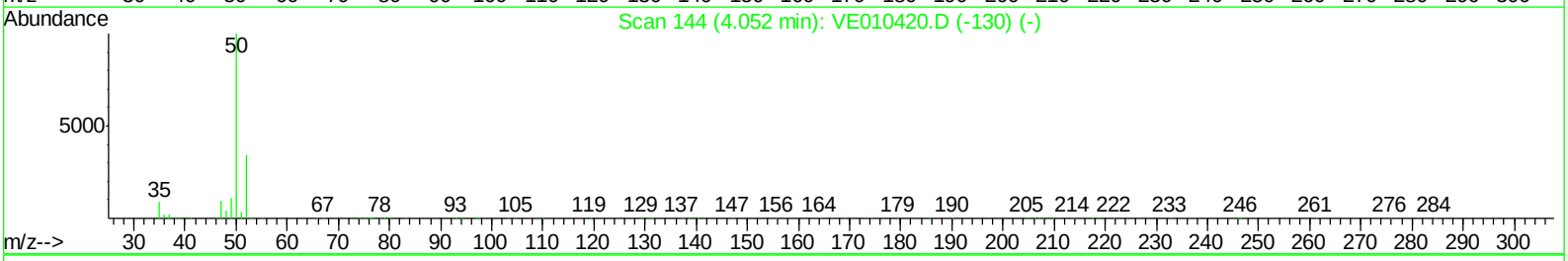
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010443.D
Acq On : 16 Oct 2008 14:32
Operator : SY
Sample : 50 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 16 15:03:00 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 07 17:39:38 2008
Response via : Initial Calibration







TIC: VE010443.D\data.ms

(3) Chloromethane (T)

4.080min (+0.049) 47.71 ug/L m

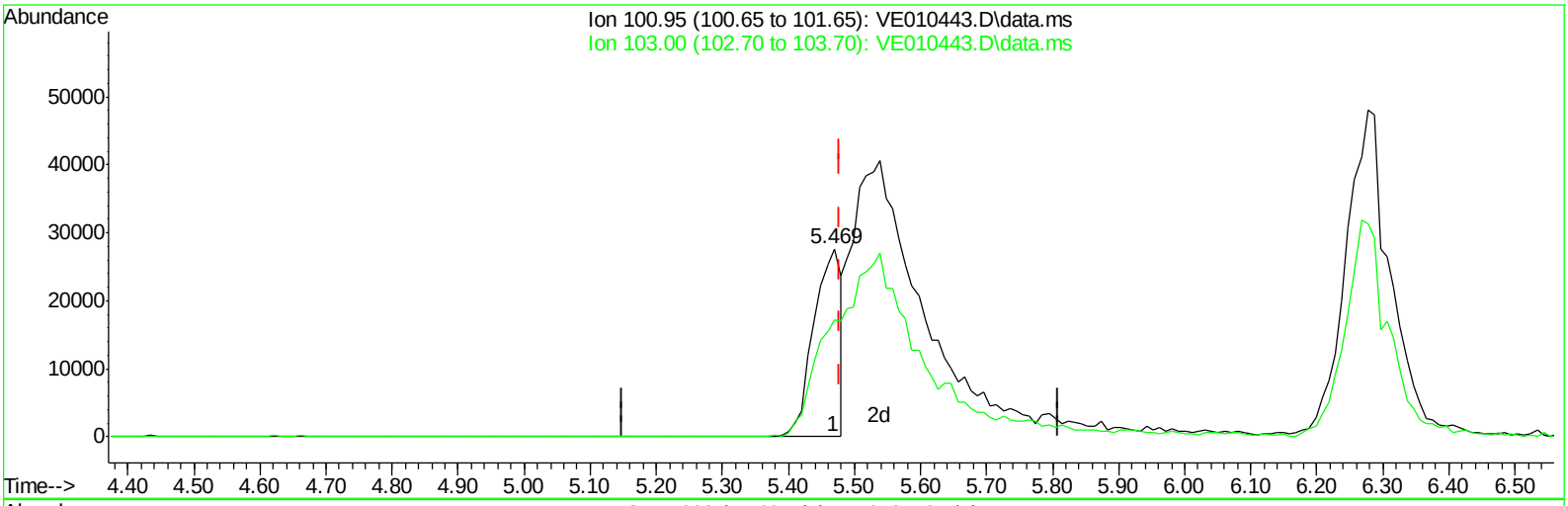
response 284146

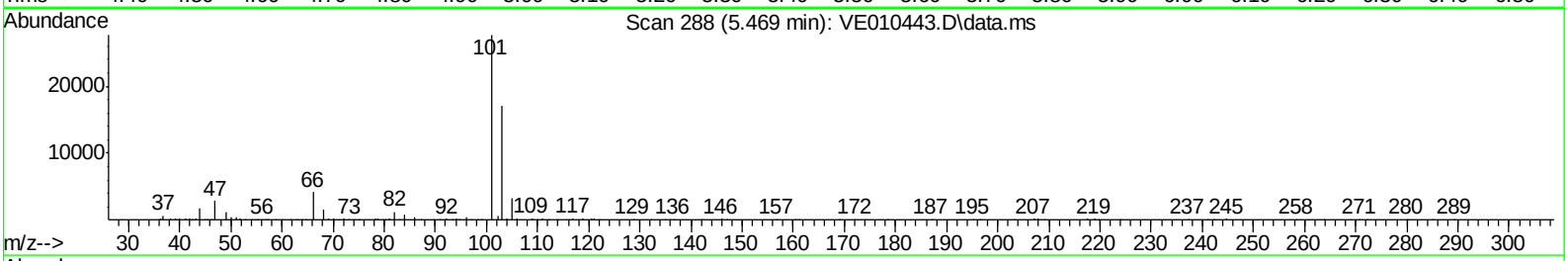
Ion	Exp%	Act%
50.05	100	100
52.05	31.30	35.91
0.00	0.00	0.00
0.00	0.00	0.00

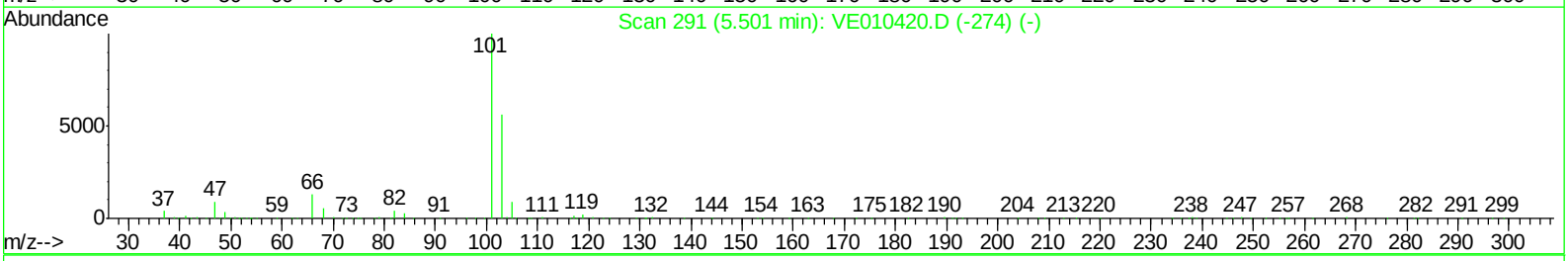
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010443.D
Acq On : 16 Oct 2008 14:32
Operator : SY
Sample : 50 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 16 15:03:00 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 07 17:39:38 2008
Response via : Initial Calibration







TIC: VE010443.D\data.ms

(9) Trichlorofluoromethane (T)

5.469min (-0.010) 11.45 ug/L

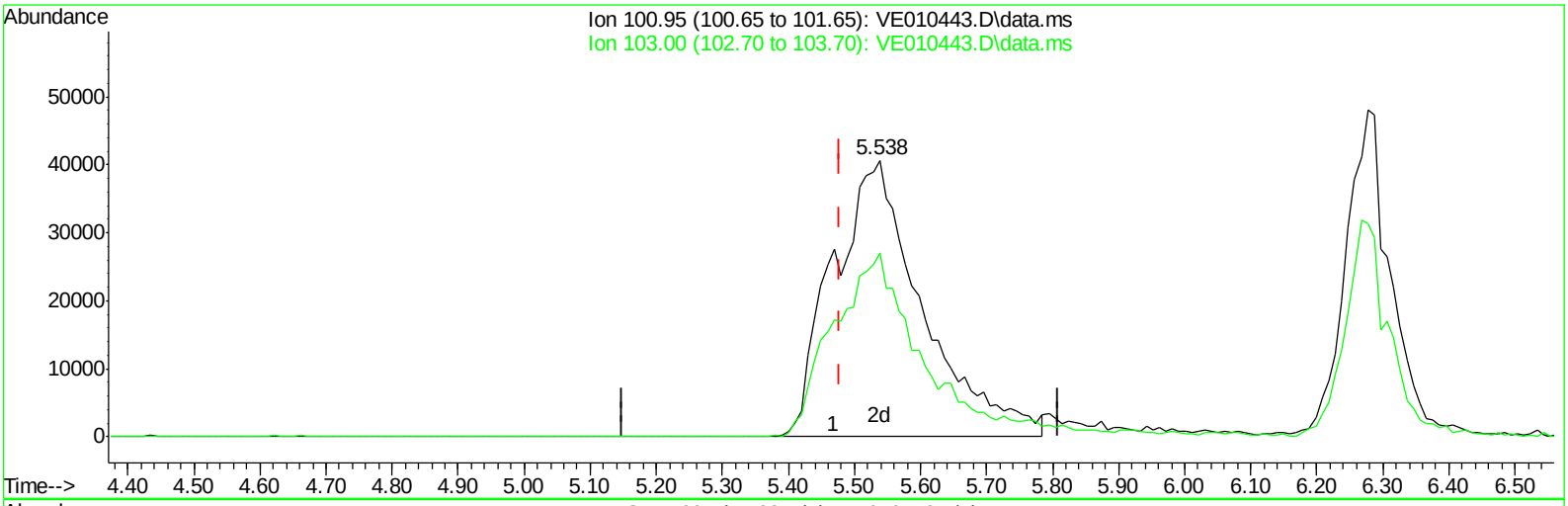
response 79958

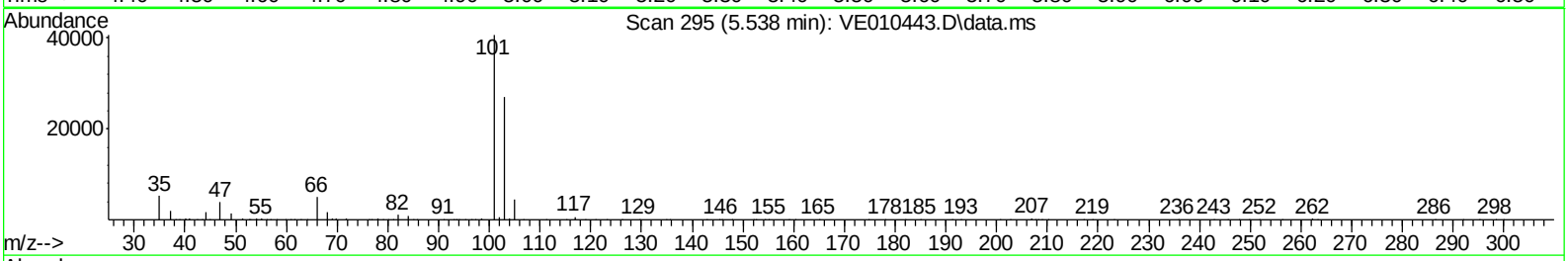
Ion	Exp%	Act%
100.95	100	100
103.00	38.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

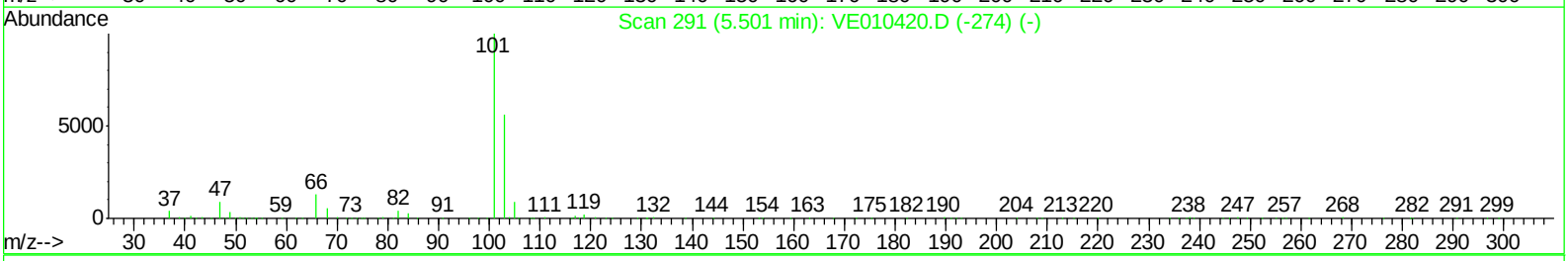
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010443.D
Acq On : 16 Oct 2008 14:32
Operator : SY
Sample : 50 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 16 15:03:00 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 07 17:39:38 2008
Response via : Initial Calibration







TIC: VE010443.D\data.ms

(9) Trichlorofluoromethane (T)

5.538min (+0.059) 54.78 ug/L m

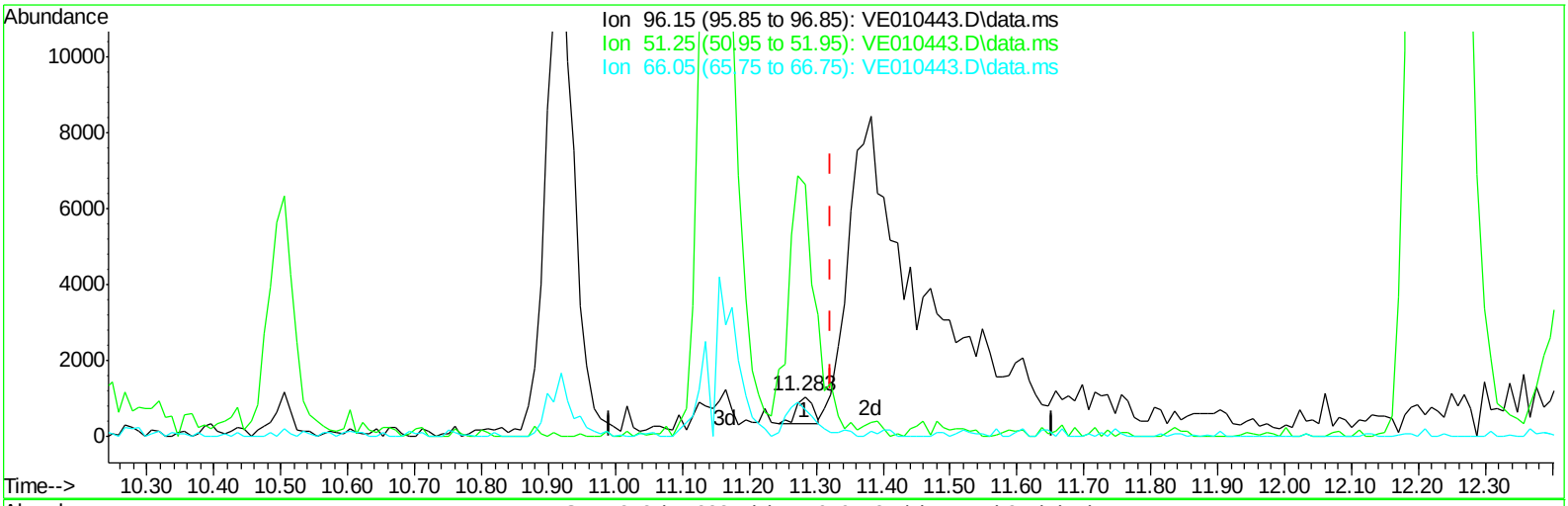
response 382575

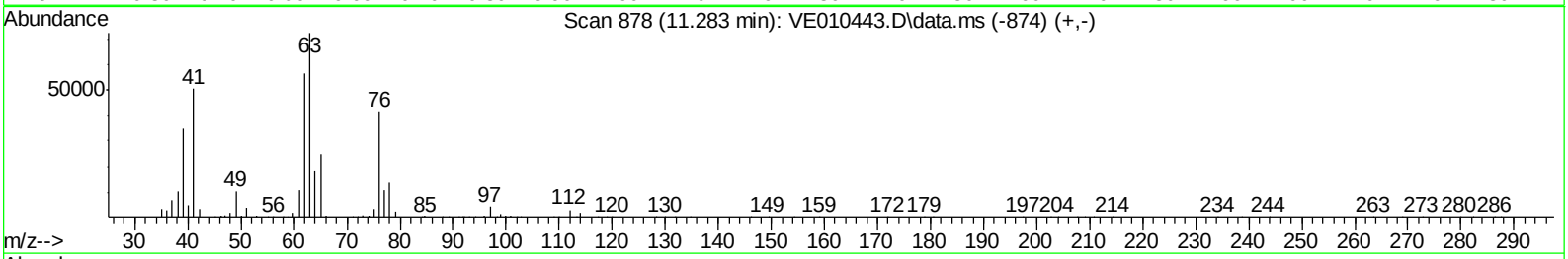
Ion	Exp%	Act%
100.95	100	100
103.00	38.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

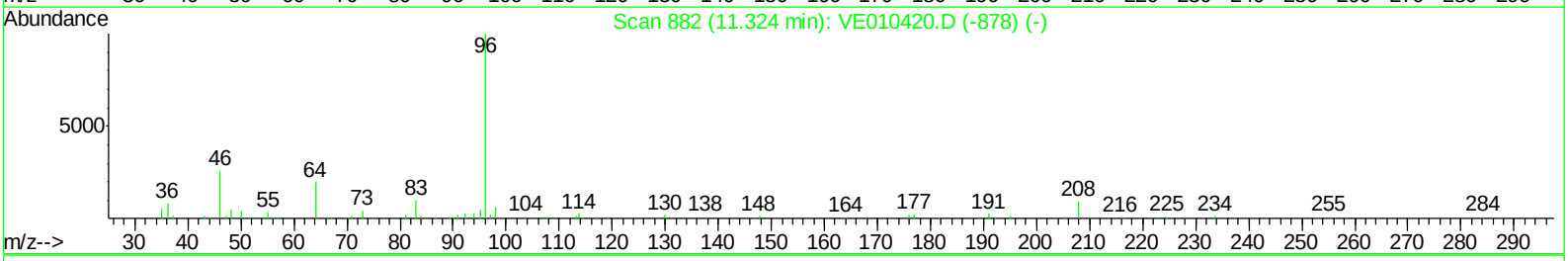
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010443.D
Acq On : 16 Oct 2008 14:32
Operator : SY
Sample : 50 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 16 15:03:00 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 07 17:39:38 2008
Response via : Initial Calibration







TIC: VE010443.D\data.ms

(27) 1,4-Dioxane-d8 (S)

11.283min (-0.040) 21.87 ug/L

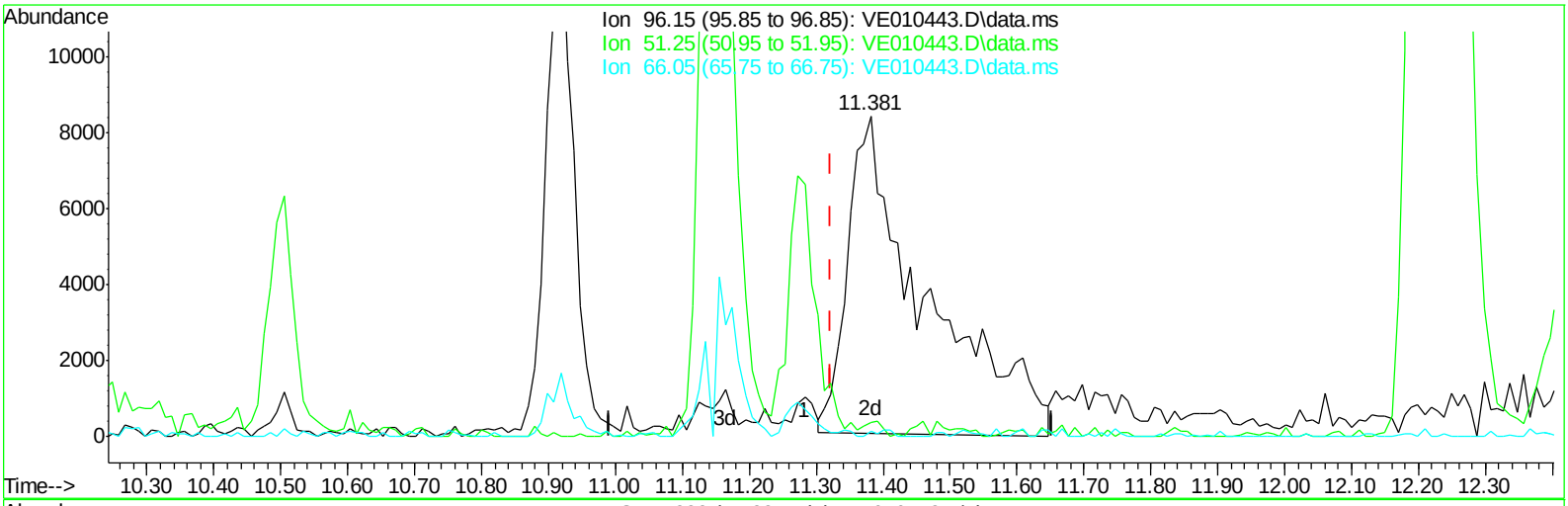
response 1169

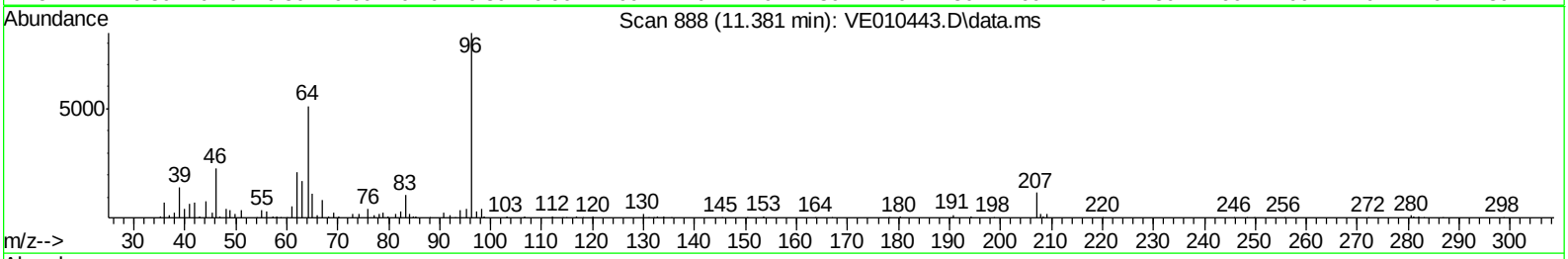
Ion	Exp%	Act%
96.15	100	100
51.25	1.40	613.70#
66.05	1.20	73.12#
0.00	0.00	0.00

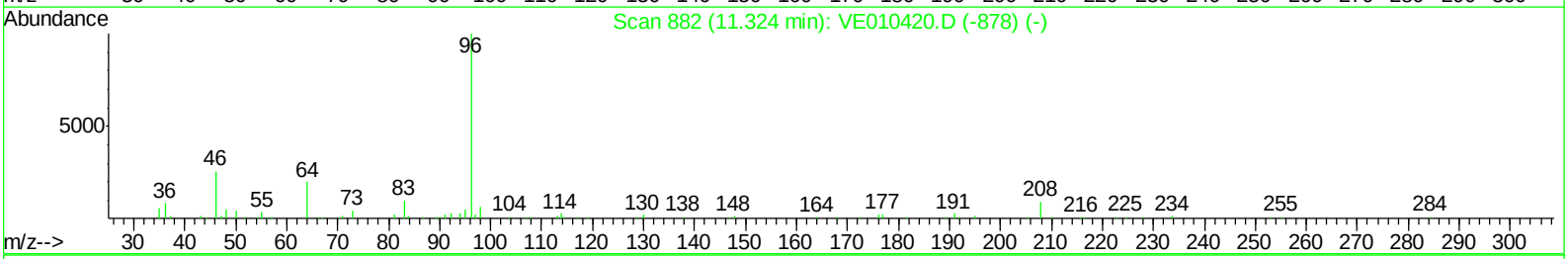
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010443.D
Acq On : 16 Oct 2008 14:32
Operator : SY
Sample : 50 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 16 15:03:00 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 07 17:39:38 2008
Response via : Initial Calibration







TIC: VE010443.D\data.ms

(27) 1,4-Dioxane-d8 (S)

11.381min (+0.059) 1264.65 ug/L m

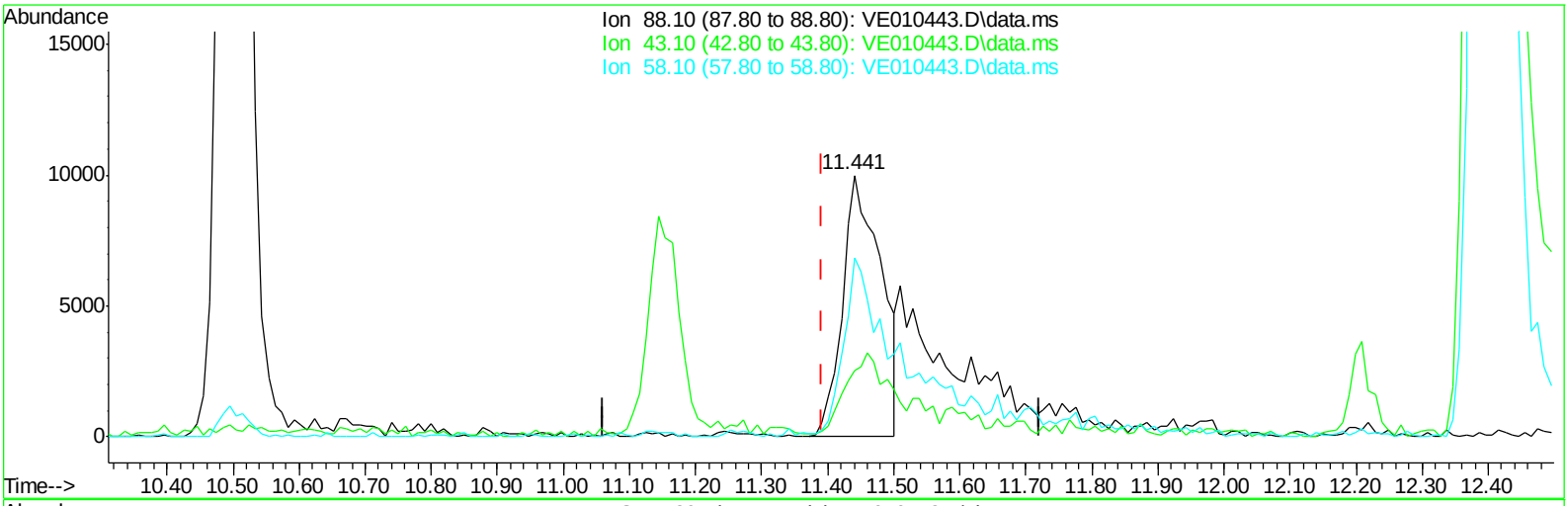
response 67586

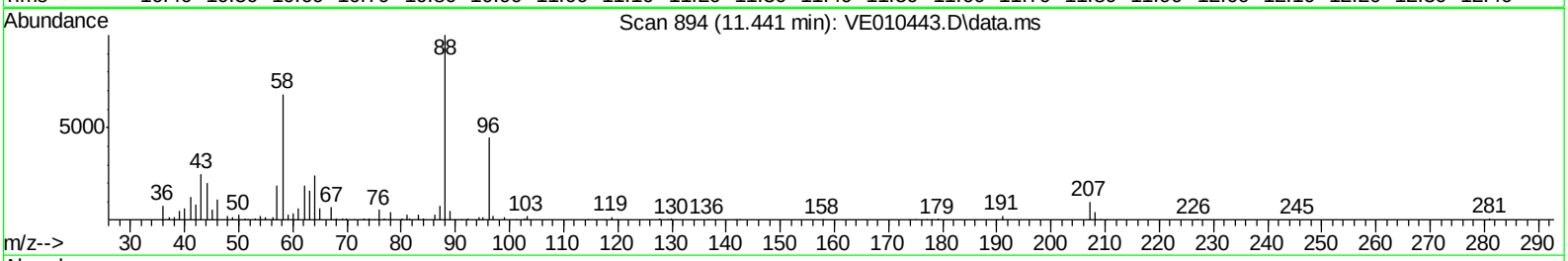
Ion	Exp%	Act%
96.15	100	100
51.25	1.40	4.53#
66.05	1.20	1.71#
0.00	0.00	0.00

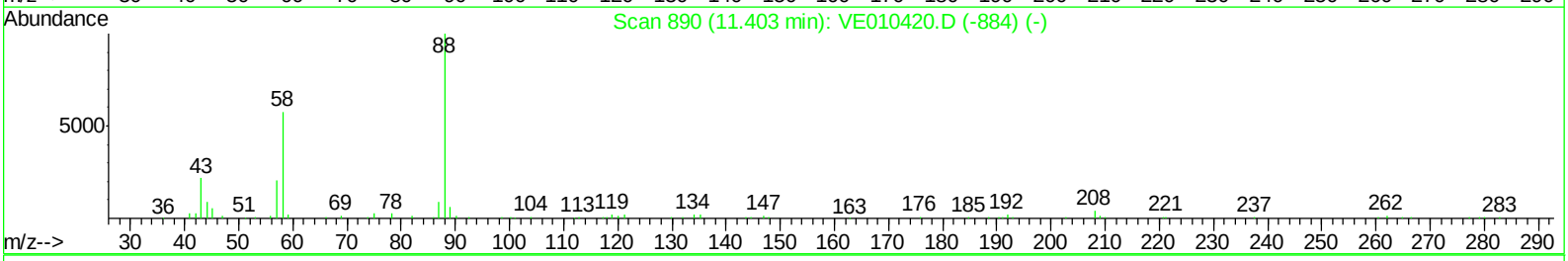
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010443.D
Acq On : 16 Oct 2008 14:32
Operator : SY
Sample : 50 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 16 15:03:00 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 07 17:39:38 2008
Response via : Initial Calibration







TIC: VE010443.D\data.ms

(29) 1,4-Dioxane (T)

11.441min (+0.049) 608.04 ug/L

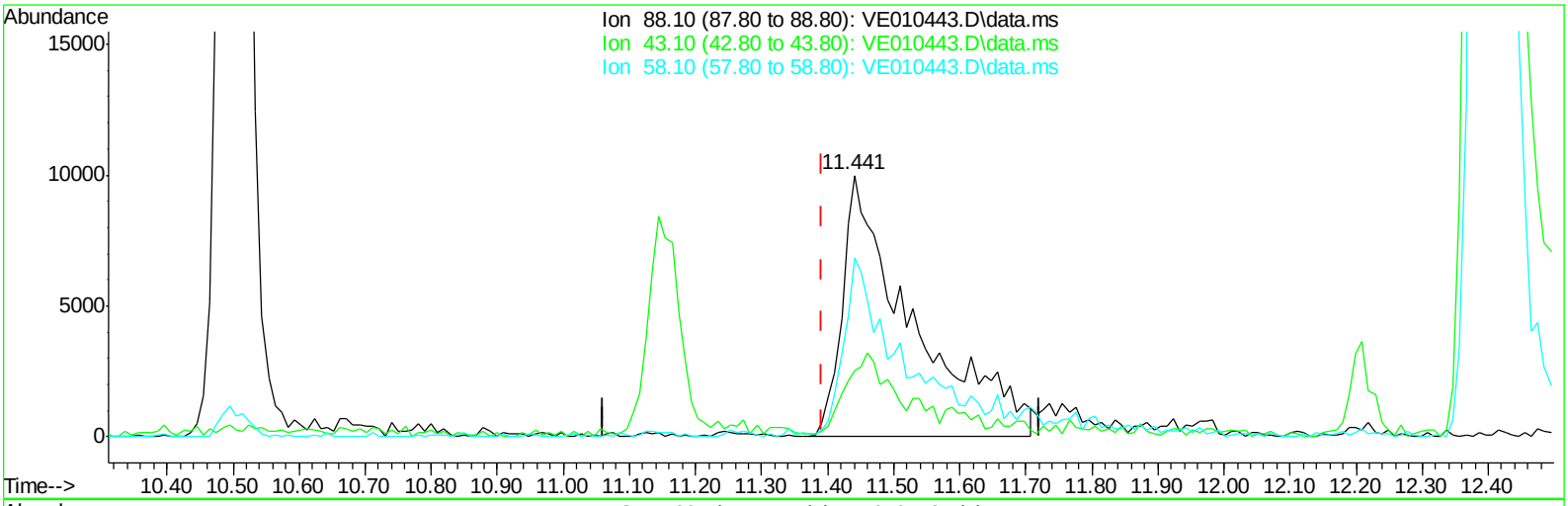
response 40451

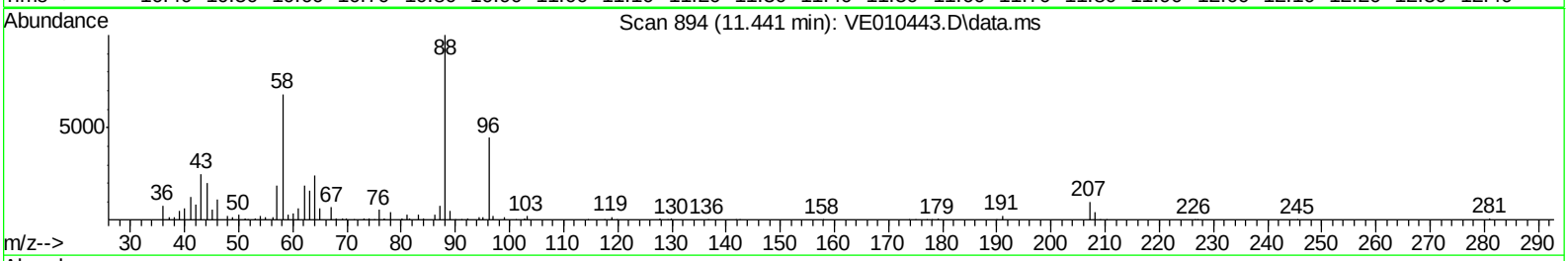
Ion	Exp%	Act%
88.10	100	100
43.10	26.50	34.56#
58.10	56.00	93.61#
0.00	0.00	0.00

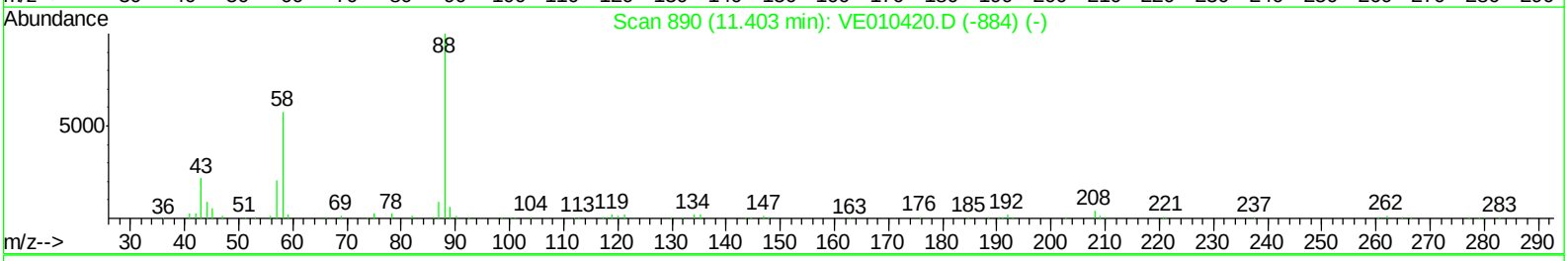
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010443.D
Acq On : 16 Oct 2008 14:32
Operator : SY
Sample : 50 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 16 15:03:00 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 07 17:39:38 2008
Response via : Initial Calibration







TIC: VE010443.D\data.ms

(29) 1,4-Dioxane (T)

11.441min (+0.049) 1109.53 ug/L m

response 73814

Ion	Exp%	Act%
88.10	100	100
43.10	26.50	18.94
58.10	56.00	51.30
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010443.D
Acq On : 16 Oct 2008 14:32
Operator : SY
Sample : 50 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 16 15:05:55 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 07 17:39:38 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	10.504	114	935659	50.00	ug/L	0.05
30) Chlorobenzene-d5	14.919	117	1029373	50.00	ug/L	0.05
61) 1,4-Dichlorobenzene-d4	18.732	152	553240	50.00	ug/L	0.06
System Monitoring Compounds						
4) Vinyl Chloride-d3	4.297	65	221765	65.21	ug/L	0.04
Spiked Amount 50.000			Recovery	=	130.42%	
6) Chloroethane-d5	5.055	69	134173	61.30	ug/L	0.06
Spiked Amount 50.000			Recovery	=	122.60%	
10) 1,1-Dichloroethene-d2	6.336	63	555686	58.22	ug/L	0.06
Spiked Amount 50.000			Recovery	=	116.44%	
20) 2-Butanone-d5	8.741	46	321103	100.48	ug/L	0.04
Spiked Amount 100.000			Recovery	=	100.48%	
21) Chloroform-d	9.233	84	756563	59.27	ug/L	0.05
Spiked Amount 50.000			Recovery	=	118.54%	
24) 1,2-Dichloroethane-d4	9.992	65	512207	61.77	ug/L	0.05
Spiked Amount 50.000			Recovery	=	123.54%	
27) 1,4-Dioxane-d8	11.381	96	67586m	1264.65	ug/L	0.06
Spiked Amount 1250.000			Recovery	=	101.17%	
31) Benzene-d6	9.992	84	1228379	52.70	ug/L	0.05
Spiked Amount 50.000			Recovery	=	105.40%	
36) 1,2-Dichloropropane-d6	11.145	67	445637	51.18	ug/L	0.05
Spiked Amount 50.000			Recovery	=	102.36%	
38) trans-1,3-Dichloroprop...	13.027	79	153386	52.46	ug/L	0.05
Spiked Amount 50.000			Recovery	=	104.92%	
39) Toluene-d8	12.643	98	1301231	55.29	ug/L	0.04
Spiked Amount 50.000			Recovery	=	110.58%	
41) 2-Hexanone-d5	13.559	63	320097	103.11	ug/L	0.05
Spiked Amount 100.000			Recovery	=	103.11%	
50) 1,1,2,2-Tetrachloroeth...	16.949	84	713230	52.45	ug/L	0.05
Spiked Amount 50.000			Recovery	=	104.90%	
62) 1,2-Dichlorobenzene-d4	19.402	152	577355	52.45	ug/L	0.05
Spiked Amount 50.000			Recovery	=	104.90%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.666	85	379786	43.19	ug/L	97
3) Chloromethane	4.080	50	284146m	47.71	ug/L	
5) Vinyl chloride	4.297	62	239514	44.96	ug/L	95
7) Bromomethane	4.967	94	86913	31.71	ug/L	99
8) Chloroethane	5.105	64	98097	47.77	ug/L	94
9) Trichlorofluoromethane	5.538	101	382575m	54.78	ug/L	
11) 1,1,2-Trichlorotrifluo...	6.277	101	221394	47.94	ug/L	97
12) 1,1-Dichloroethene	6.346	96	191431	49.14	ug/L #	75
13) Acetone	6.425	43	166083	99.57	ug/L	82
14) Carbon disulfide	6.760	76	765284	51.32	ug/L	99
15) Methyl Acetate	6.849	43	250949	49.29	ug/L	99
16) Methylene chloride	7.095	84	367444	50.35	ug/L	99
17) Methyl tert-butyl Ether	7.351	73	802125	47.05	ug/L	99
18) trans-1,2-Dichloroethene	7.420	96	331214	50.39	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010443.D
Acq On : 16 Oct 2008 14:32
Operator : SY
Sample : 50 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 16 15:05:55 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 07 17:39:38 2008
Response via : Initial Calibration

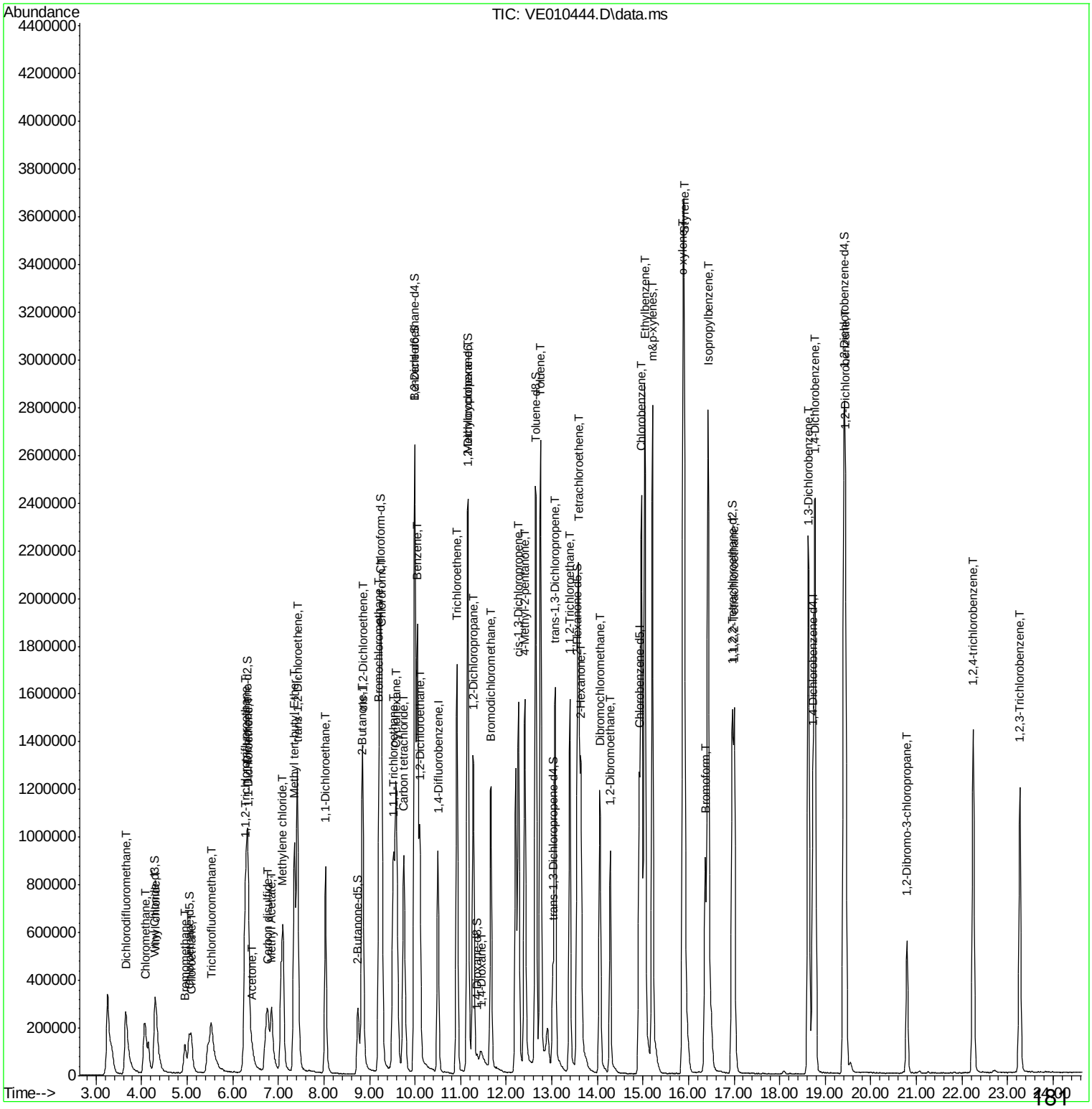
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
19)	1,1-Dichloroethane	8.031	63	585385	49.10	ug/L		99
22)	cis-1,2-Dichloroethene	8.849	96	357162	50.86	ug/L		97
23)	Bromochloromethane	9.204	128	207941	49.90	ug/L		91
25)	Chloroform	9.263	83	670324	54.14	ug/L		99
26)	1,2-Dichloroethane	10.100	62	536283	53.69	ug/L		98
28)	2-Butanone	8.829	43	288000	88.08	ug/L		93
29)	1,4-Dioxane	11.441	88	73814m	1109.53	ug/L		
32)	Cyclohexane	9.588	56	408405	44.54	ug/L		95
33)	Methylcyclohexane	11.155	83	562576	53.08	ug/L		96
34)	1,1,1-Trichloroethane	9.519	97	507678	48.06	ug/L		99
35)	Carbon tetrachloride	9.746	117	421124	46.21	ug/L		100
37)	Benzene	10.051	78	1159360	49.57	ug/L		100
40)	Trichloroethene	10.918	95	369466	49.35	ug/L		97
42)	1,2-Dichloropropane	11.273	63	320518	47.39	ug/L		99
43)	Bromodichloromethane	11.667	83	526009	48.09	ug/L	#	96
44)	cis-1,3-Dichloropropene	12.268	75	594818	48.11	ug/L		100
45)	4-Methyl-2-pentanone	12.406	43	806443	94.10	ug/L		95
46)	Toluene	12.751	91	1424014	51.99	ug/L		98
47)	trans-1,3-Dichloropropene	13.076	75	617819	50.35	ug/L		99
48)	1,1,2-Trichloroethane	13.392	97	384571	50.88	ug/L		97
49)	Tetrachloroethene	13.589	164	322927	51.97	ug/L		98
51)	2-Hexanone	13.638	43	634036	97.22	ug/L		97
52)	Dibromochloromethane	14.052	129	443620	47.28	ug/L		99
53)	1,2-Dibromoethane	14.278	107	493760	52.59	ug/L		97
54)	Chlorobenzene	14.968	112	1066428	52.07	ug/L		99
55)	Ethylbenzene	15.037	91	1780589	54.53	ug/L		96
56)	m&p-xylenes	15.205	106	714908	54.89	ug/L		97
57)	o-xylene	15.875	106	665804	53.94	ug/L		96
58)	Styrene	15.904	104	1152330	55.63	ug/L		96
59)	Isopropylbenzene	16.426	105	1674250	52.43	ug/L		99
60)	1,1,2,2-Tetrachloroethane	16.998	83	629846	49.34	ug/L		100
63)	Bromoform	16.367	173	285179	40.69	ug/L		98
64)	1,3-Dichlorobenzene	18.624	146	870653	50.28	ug/L		99
65)	1,4-Dichlorobenzene	18.772	146	901300	51.93	ug/L		98
66)	1,2-Dichlorobenzene	19.442	146	825537	52.57	ug/L		95
67)	1,2-Dibromo-3-chloropr...	20.792	75	113405	45.93	ug/L		87
68)	1,2,4-trichlorobenzene	22.240	180	420175	36.18	ug/L		99
69)	1,2,3-Trichlorobenzene	23.265	180	358230	32.45	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010444.D
Acq On : 16 Oct 2008 15:06
Operator : SY
Sample : 100 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 5 Sample Multiplier: 1

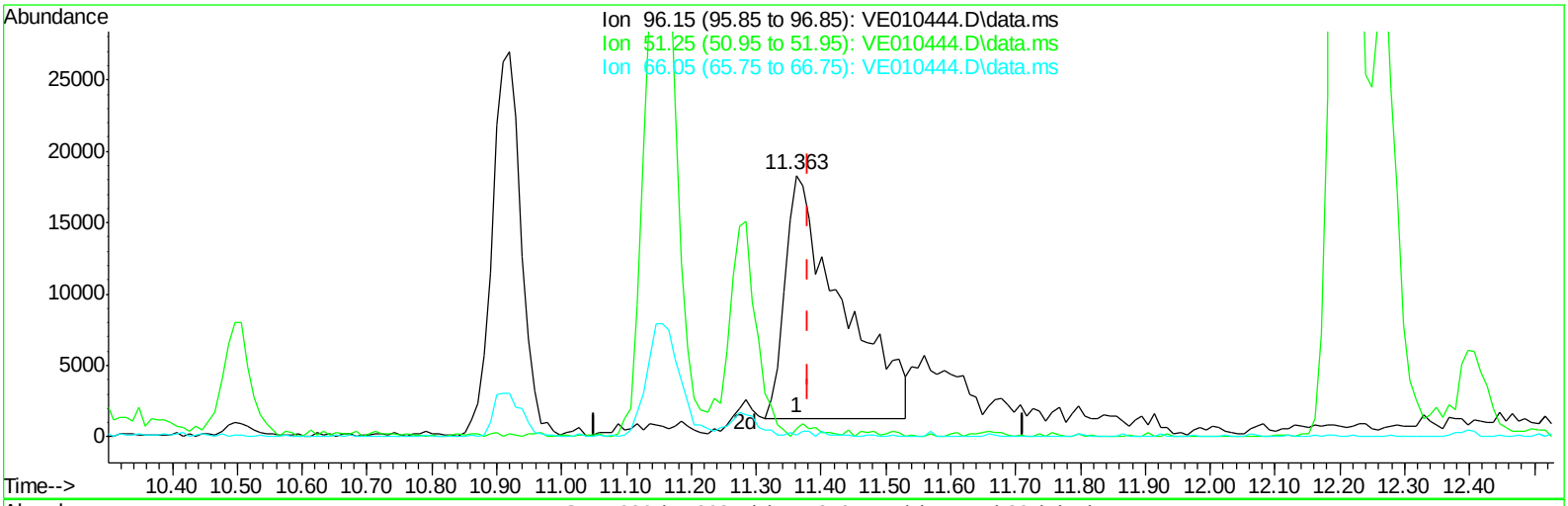
Quant Time: Oct 16 15:34:35 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration

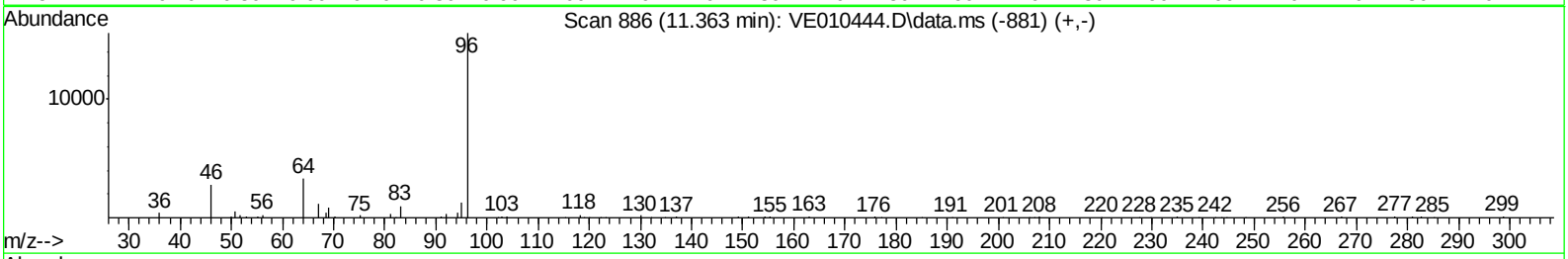


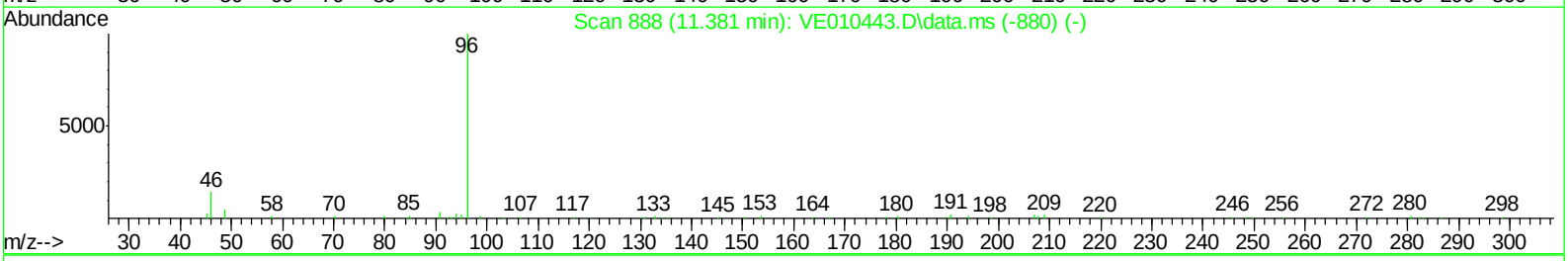
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010444.D
Acq On : 16 Oct 2008 15:06
Operator : SY
Sample : 100 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 16 15:32:51 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration







TIC: VE010444.D\data.ms

(27) 1,4-Dioxane-d8 (S)

11.363min (-0.019) 1618.72 ug/L

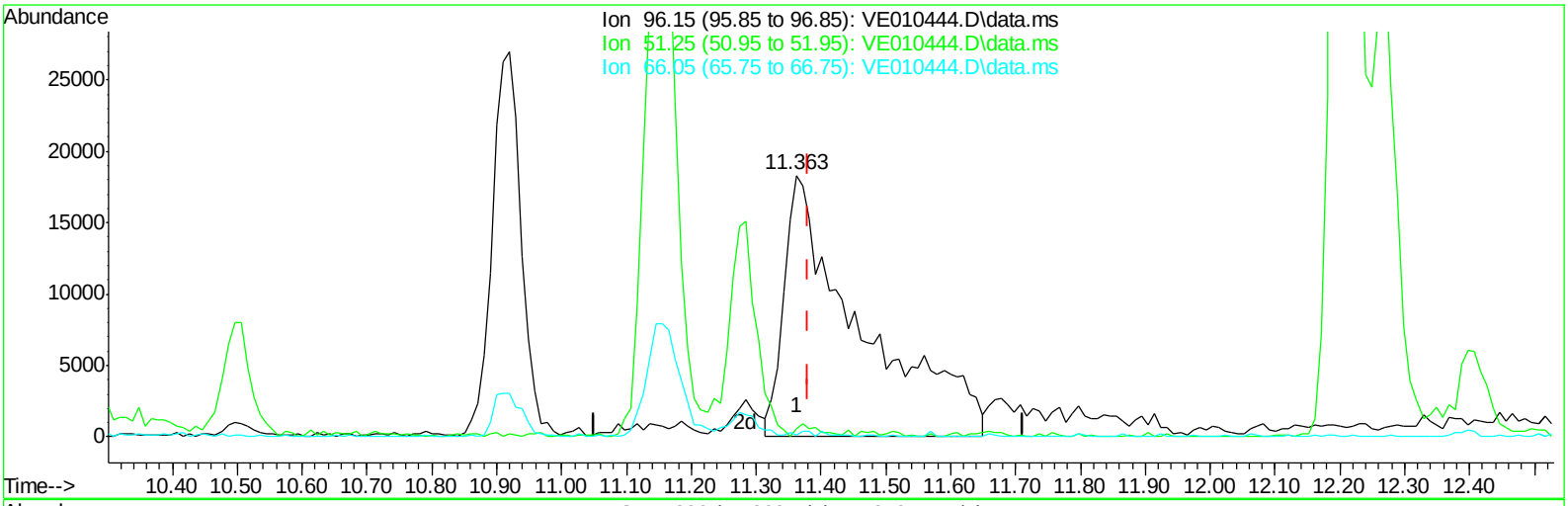
response 102337

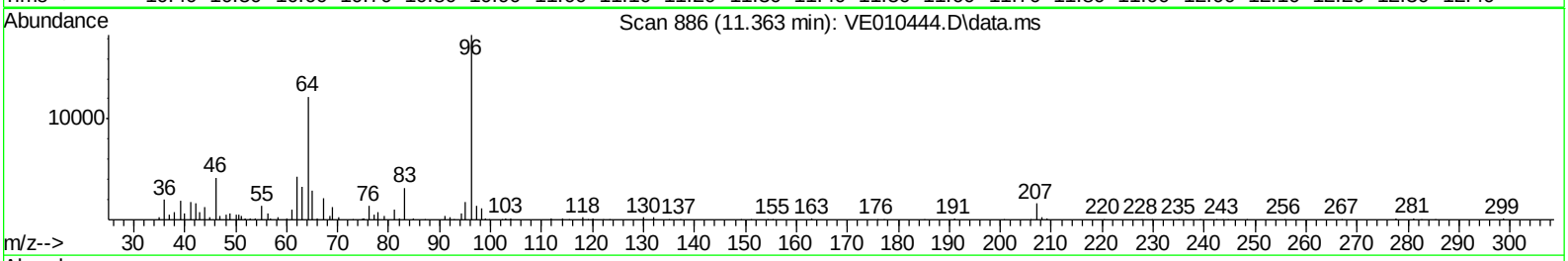
Ion	Exp%	Act%
96.15	100	100
51.25	1.40	0.00#
66.05	1.20	0.00#
0.00	0.00	0.00

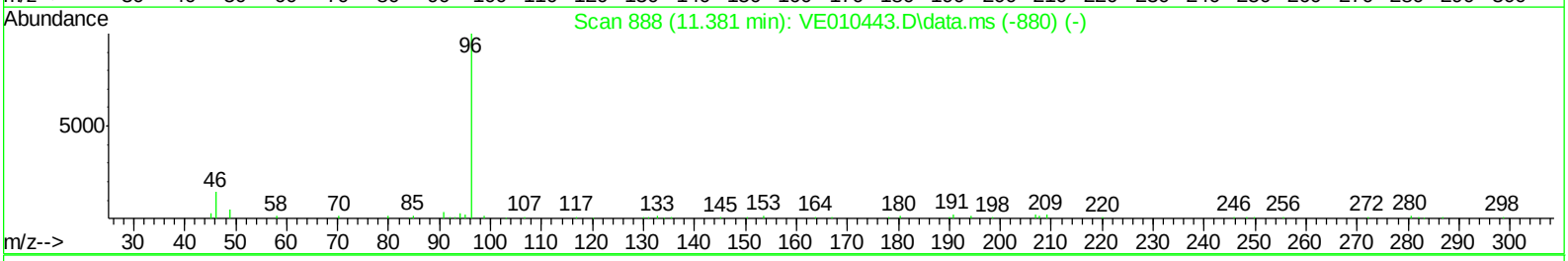
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010444.D
Acq On : 16 Oct 2008 15:06
Operator : SY
Sample : 100 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 16 15:32:51 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration







TIC: VE010444.D\data.ms

(27) 1,4-Dioxane-d8 (S)

11.363min (-0.019) 2341.42 ug/L m

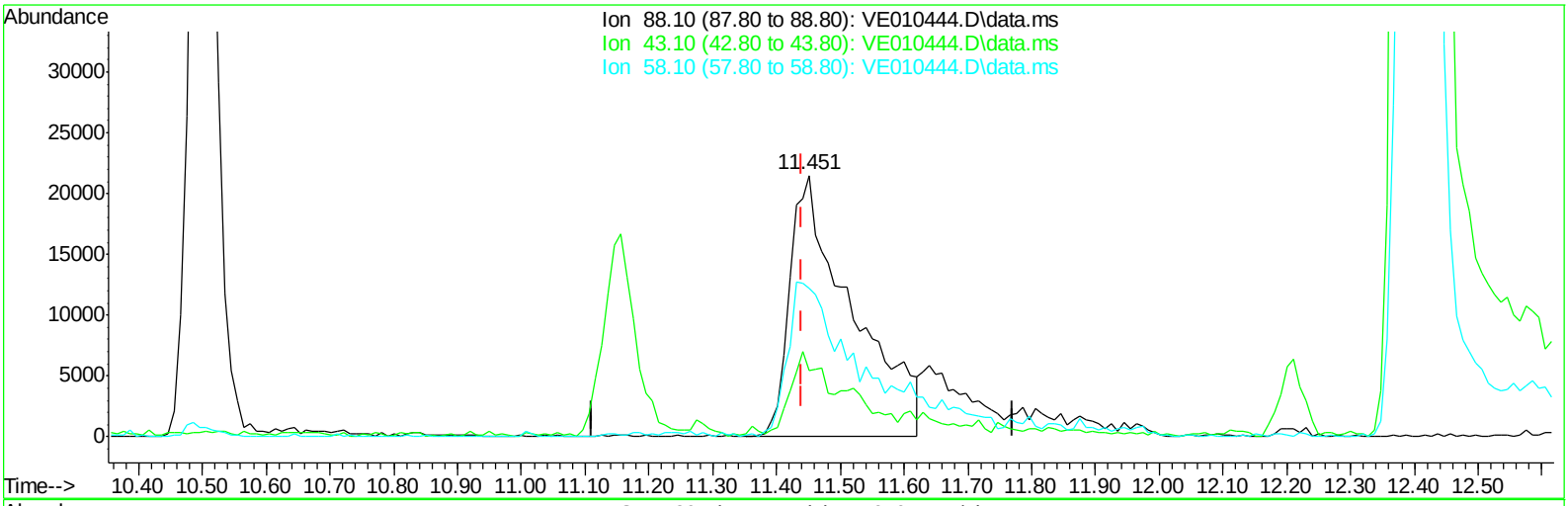
response 148027

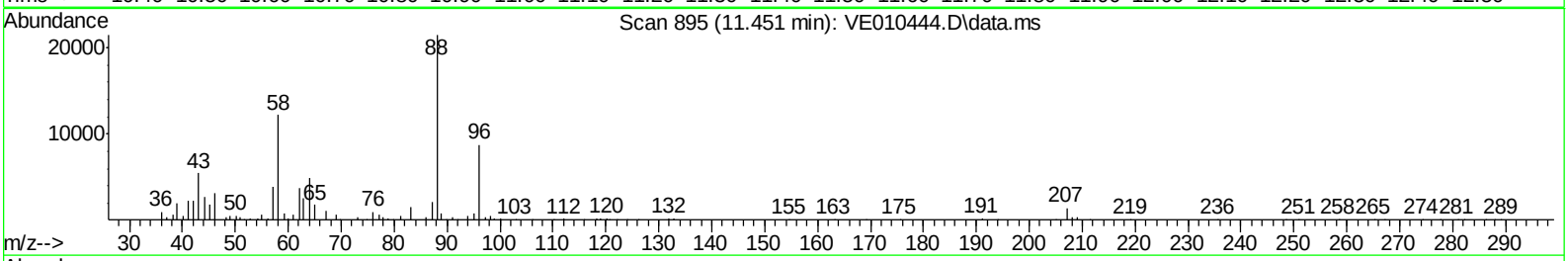
Ion	Exp%	Act%
96.15	100	100
51.25	1.40	2.12#
66.05	1.20	0.84#
0.00	0.00	0.00

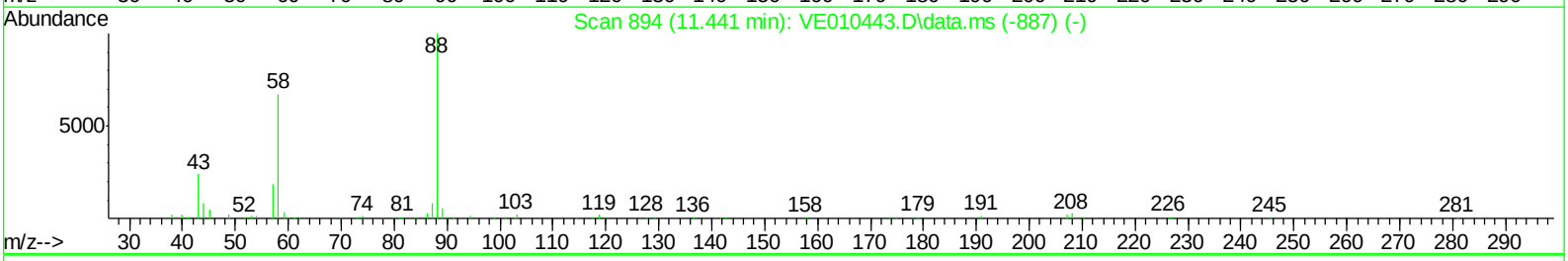
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010444.D
Acq On : 16 Oct 2008 15:06
Operator : SY
Sample : 100 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 16 15:32:51 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration







TIC: VE010444.D\data.ms

(29) 1,4-Dioxane (T)

11.451min (+0.011) 1835.70 ug/L

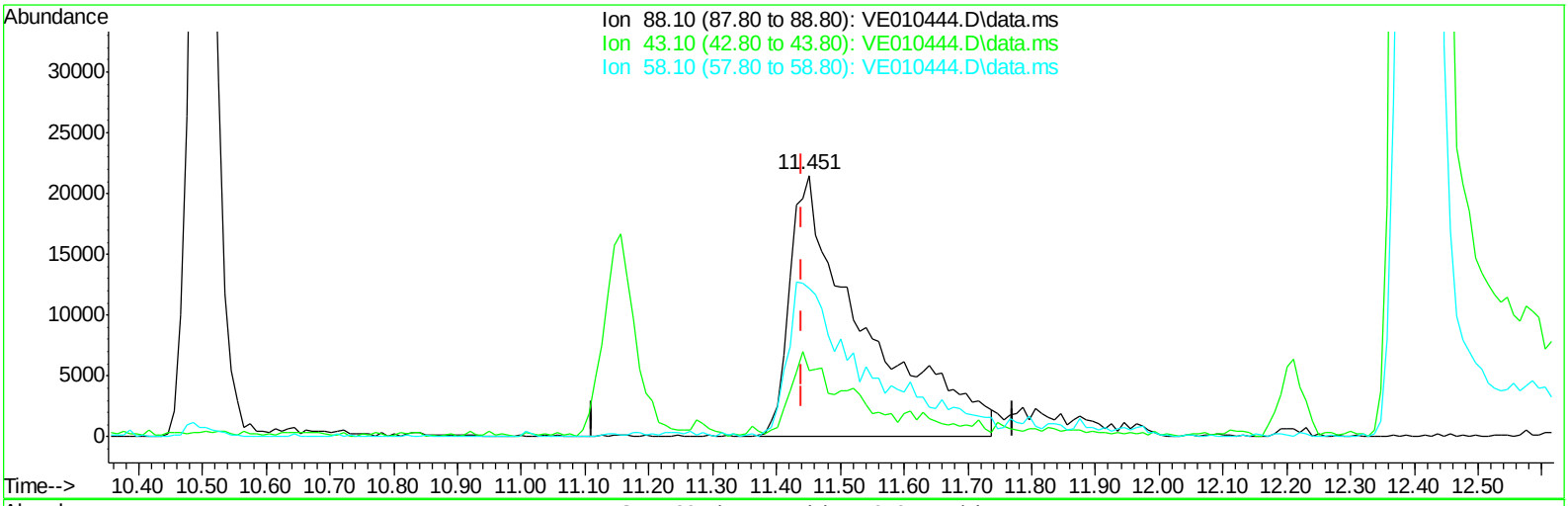
response 144469

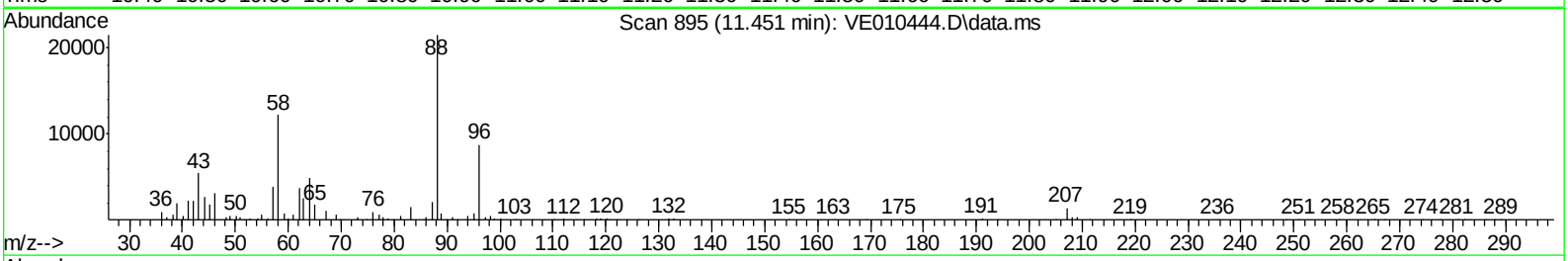
Ion	Exp%	Act%
88.10	100	100
43.10	26.50	16.44#
58.10	56.00	59.24
0.00	0.00	0.00

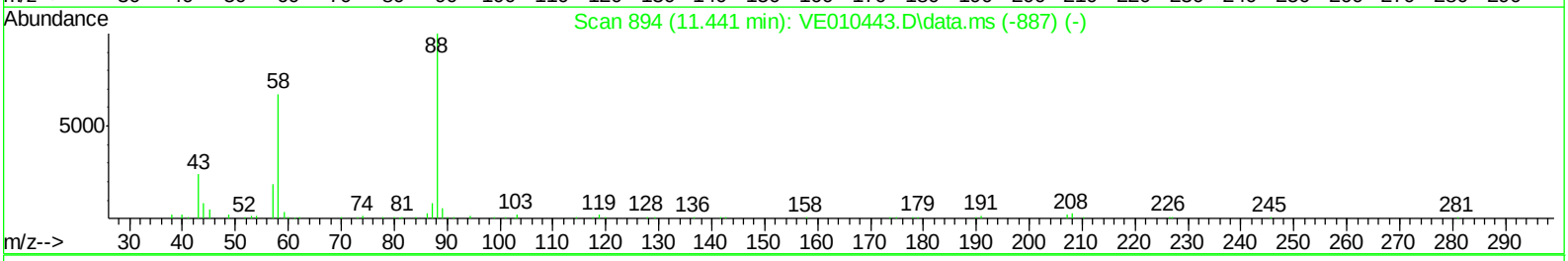
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010444.D
Acq On : 16 Oct 2008 15:06
Operator : SY
Sample : 100 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 16 15:32:51 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration







TIC: VE010444.D\data.ms

(29) 1,4-Dioxane (T)

11.451min (+0.011) 2186.89 ug/L m

response 172107

Ion	Exp%	Act%
88.10	100	100
43.10	26.50	13.80#
58.10	56.00	49.73
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010444.D
Acq On : 16 Oct 2008 15:06
Operator : SY
Sample : 100 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 16 15:34:35 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	10.505	114	1106854	50.00	ug/L	0.00
30) Chlorobenzene-d5	14.920	117	1186362	50.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	18.723	152	610858	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	4.288	65	483085	120.09	ug/L	0.00
Spiked Amount 50.000			Recovery = 240.18%			
6) Chloroethane-d5	5.046	69	240166	92.75	ug/L	0.00
Spiked Amount 50.000			Recovery = 185.50%			
10) 1,1-Dichloroethene-d2	6.327	63	1085062	96.10	ug/L	0.00
Spiked Amount 50.000			Recovery = 192.20%			
20) 2-Butanone-d5	8.742	46	729581	192.99	ug/L	0.00
Spiked Amount 100.000			Recovery = 192.99%			
21) Chloroform-d	9.234	84	1486158	98.41	ug/L	0.00
Spiked Amount 50.000			Recovery = 196.82%			
24) 1,2-Dichloroethane-d4	9.993	65	1012245	103.19	ug/L	0.00
Spiked Amount 50.000			Recovery = 206.38%			
27) 1,4-Dioxane-d8	11.363	96	148027m	2341.42	ug/L	-0.02
Spiked Amount 1250.000			Recovery = 187.31%			
31) Benzene-d6	9.993	84	2441228	90.88	ug/L	0.00
Spiked Amount 50.000			Recovery = 181.76%			
36) 1,2-Dichloropropane-d6	11.146	67	872324	86.92	ug/L	0.00
Spiked Amount 50.000			Recovery = 173.84%			
38) trans-1,3-Dichloroprop...	13.028	79	336254	99.78	ug/L	0.00
Spiked Amount 50.000			Recovery = 199.56%			
39) Toluene-d8	12.644	98	2645061	97.52	ug/L	0.00
Spiked Amount 50.000			Recovery = 195.04%			
41) 2-Hexanone-d5	13.560	63	668671	186.89	ug/L	0.00
Spiked Amount 100.000			Recovery = 186.89%			
50) 1,1,2,2-Tetrachloroeth...	16.960	84	1392888	88.87	ug/L	0.01
Spiked Amount 50.000			Recovery = 177.74%			
62) 1,2-Dichlorobenzene-d4	19.413	152	1172423	96.45	ug/L	0.01
Spiked Amount 50.000			Recovery = 192.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.657	85	854265	82.12	ug/L	96
3) Chloromethane	4.081	50	626907	88.98	ug/L	98
5) Vinyl chloride	4.298	62	530470	84.18	ug/L	90
7) Bromomethane	4.948	94	185971	57.35	ug/L	84
8) Chloroethane	5.096	64	190216	78.30	ug/L	99
9) Trichlorofluoromethane	5.529	101	803893	97.30	ug/L #	59
11) 1,1,2-Trichlorotrifluo...	6.278	101	473783	86.72	ug/L	98
12) 1,1-Dichloroethene	6.337	96	399292	86.64	ug/L #	67
13) Acetone	6.426	43	381318	193.24	ug/L	90
14) Carbon disulfide	6.761	76	1551925	87.98	ug/L	99
15) Methyl Acetate	6.850	43	499300	82.90	ug/L	98
16) Methylene chloride	7.086	84	759724	87.99	ug/L	97
17) Methyl tert-butyl Ether	7.352	73	1806800	89.59	ug/L	99
18) trans-1,2-Dichloroethene	7.421	96	734452	94.46	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010444.D
Acq On : 16 Oct 2008 15:06
Operator : SY
Sample : 100 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 16 15:34:35 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration

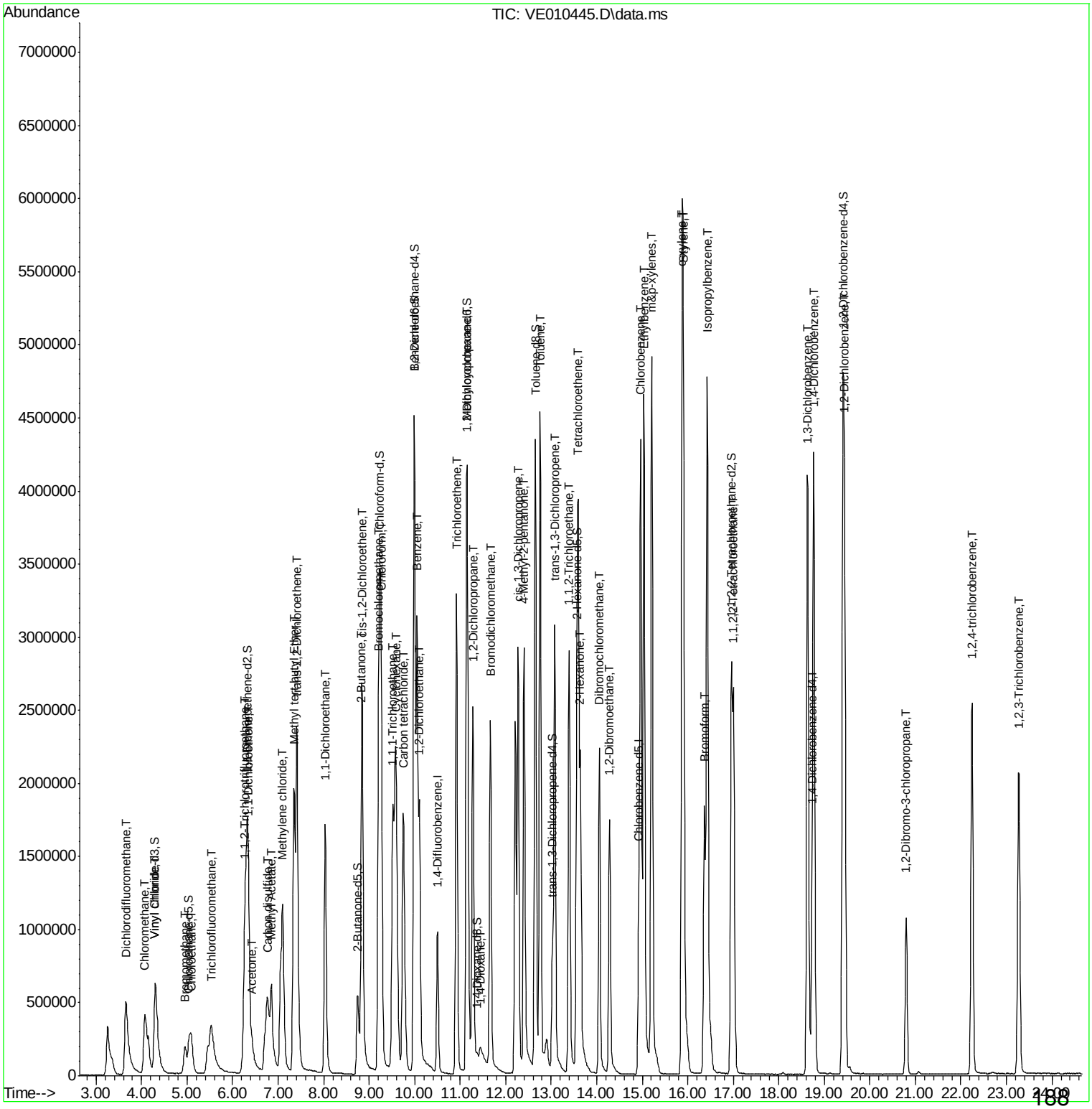
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
19)	1,1-Dichloroethane	8.032	63	1307658	92.71 ug/L	98
22)	cis-1,2-Dichloroethene	8.850	96	792746	95.43 ug/L	97
23)	Bromochloromethane	9.205	128	440040	89.26 ug/L	98
25)	Chloroform	9.264	83	1397016	95.38 ug/L	99
26)	1,2-Dichloroethane	10.101	62	1175622	99.49 ug/L	98
28)	2-Butanone	8.830	43	698335	180.55 ug/L	98
29)	1,4-Dioxane	11.451	88	172107m	2186.89 ug/L	
32)	Cyclohexane	9.589	56	925793	87.60 ug/L	96
33)	Methylcyclohexane	11.156	83	1147988	93.97 ug/L	98
34)	1,1,1-Trichloroethane	9.520	97	1131571	92.94 ug/L	98
35)	Carbon tetrachloride	9.747	117	960987	91.49 ug/L	100
37)	Benzene	10.052	78	2340642	86.84 ug/L	100
40)	Trichloroethene	10.919	95	814849	94.44 ug/L	99
42)	1,2-Dichloropropane	11.274	63	699070	89.68 ug/L	99
43)	Bromodichloromethane	11.668	83	1165485	92.45 ug/L	100
44)	cis-1,3-Dichloropropene	12.269	75	1356332	95.19 ug/L	98
45)	4-Methyl-2-pentanone	12.407	43	1788841	181.11 ug/L	97
46)	Toluene	12.752	91	2996475	94.93 ug/L	97
47)	trans-1,3-Dichloropropene	13.077	75	1378146	97.46 ug/L	99
48)	1,1,2-Trichloroethane	13.393	97	810975	93.09 ug/L	96
49)	Tetrachloroethene	13.590	164	679659	94.91 ug/L	96
51)	2-Hexanone	13.639	43	1236116	164.46 ug/L #	97
52)	Dibromochloromethane	14.053	129	1037101	95.91 ug/L	97
53)	1,2-Dibromoethane	14.279	107	1078476	99.66 ug/L	97
54)	Chlorobenzene	14.969	112	2248279	95.25 ug/L	100
55)	Ethylbenzene	15.038	91	3528627	93.76 ug/L	99
56)	m&p-xylenes	15.206	106	1461125	97.34 ug/L	99
57)	o-xylene	15.876	106	1336258	93.94 ug/L	98
58)	Styrene	15.905	104	2199850	92.15 ug/L	94
59)	Isopropylbenzene	16.428	105	3380232	91.84 ug/L	99
60)	1,1,2,2-Tetrachloroethane	16.999	83	1262535	85.82 ug/L	98
63)	Bromoform	16.368	173	701257	90.62 ug/L	99
64)	1,3-Dichlorobenzene	18.635	146	1827655	95.59 ug/L	98
65)	1,4-Dichlorobenzene	18.773	146	1853113	96.70 ug/L	98
66)	1,2-Dichlorobenzene	19.443	146	1630187	94.02 ug/L	98
67)	1,2-Dibromo-3-chloropr...	20.793	75	250720	91.97 ug/L	95
68)	1,2,4-trichlorobenzene	22.241	180	934612	72.89 ug/L	99
69)	1,2,3-Trichlorobenzene	23.266	180	830512	68.14 ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010445.D
Acq On : 16 Oct 2008 15:40
Operator : SY
Sample : 200 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 6 Sample Multiplier: 1

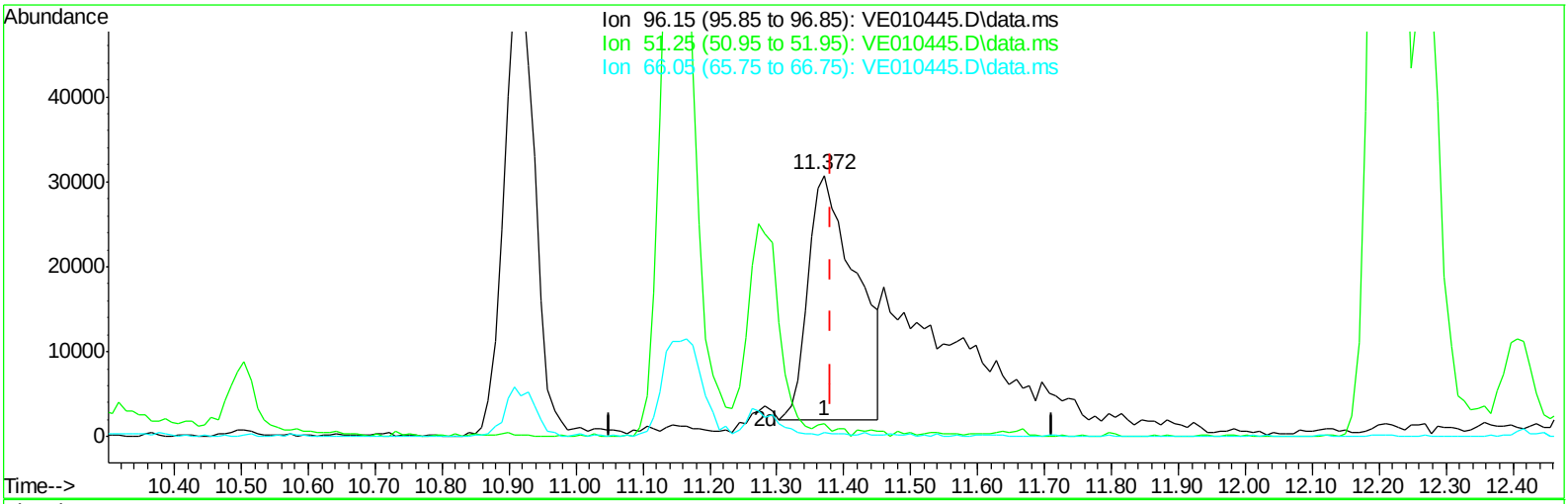
Quant Time: Oct 16 16:10:33 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration

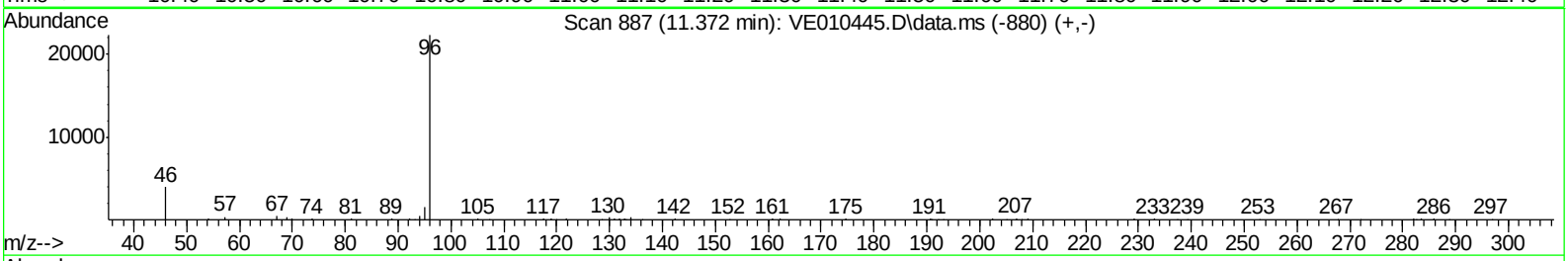


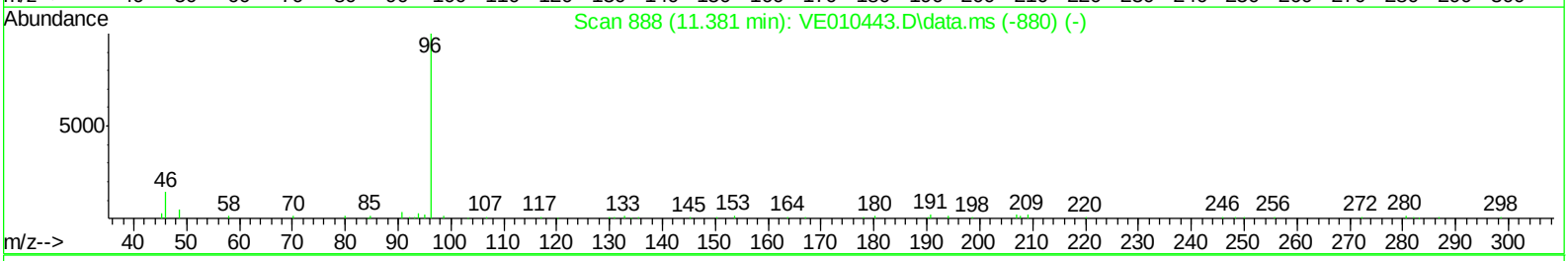
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010445.D
Acq On : 16 Oct 2008 15:40
Operator : SY
Sample : 200 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 16 16:09:36 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration







TIC: VE010445.D\data.ms

(27) 1,4-Dioxane-d8 (S)

11.372min (-0.010) 2078.91 ug/L

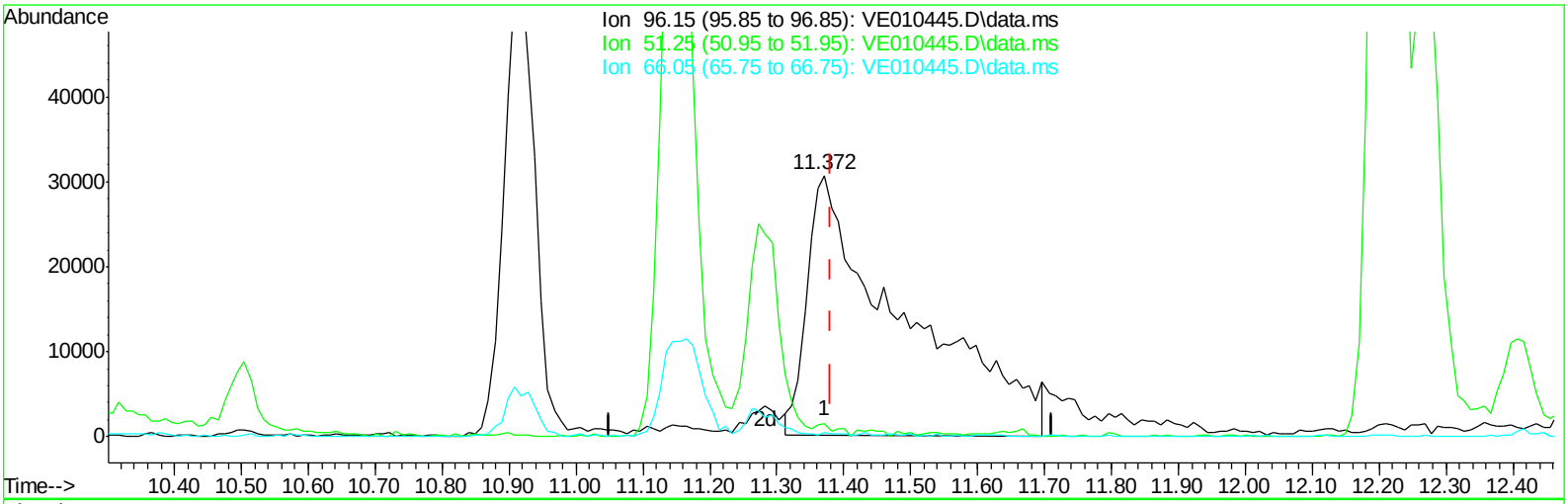
response 143137

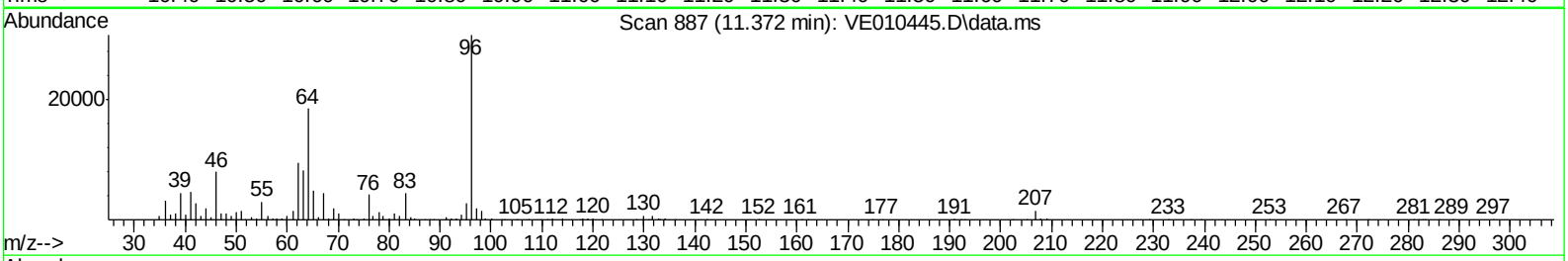
Ion	Exp%	Act%
96.15	100	100
51.25	1.40	0.00#
66.05	1.20	0.00#
0.00	0.00	0.00

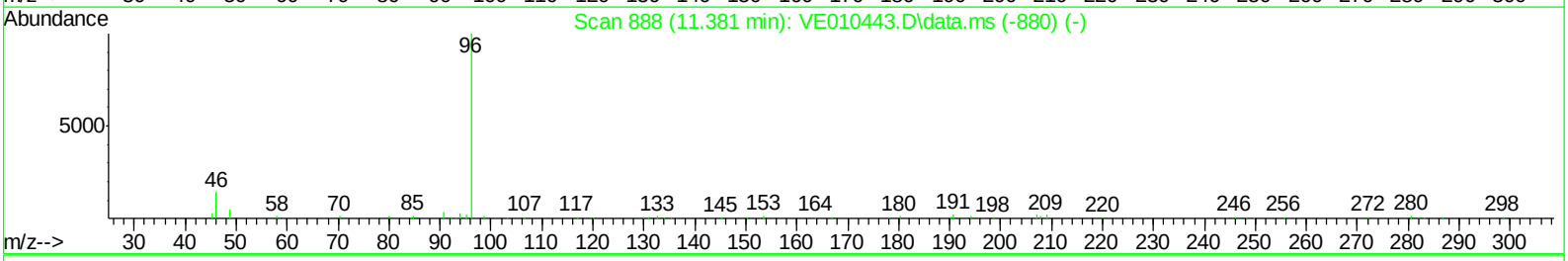
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010445.D
Acq On : 16 Oct 2008 15:40
Operator : SY
Sample : 200 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 16 16:09:36 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration







TIC: VE010445.D\data.ms

(27) 1,4-Dioxane-d8 (S)

11.372min (-0.010) 4468.17 ug/L m

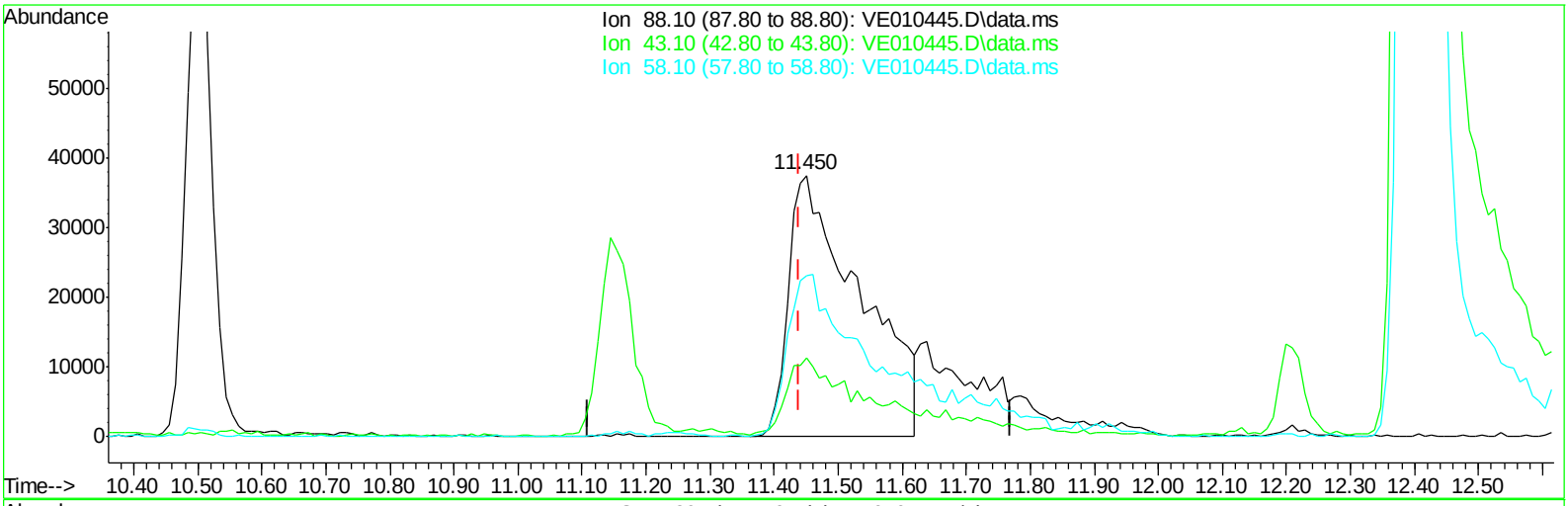
response 307642

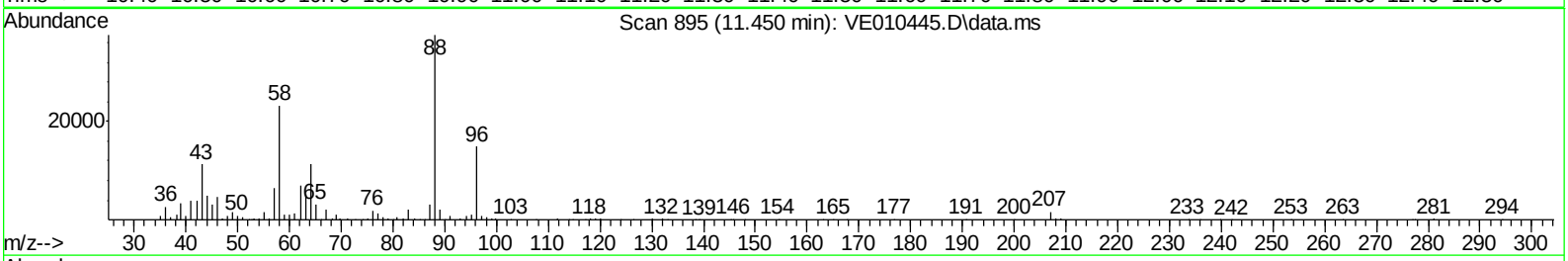
Ion	Exp%	Act%
96.15	100	100
51.25	1.40	4.83#
66.05	1.20	1.44#
0.00	0.00	0.00

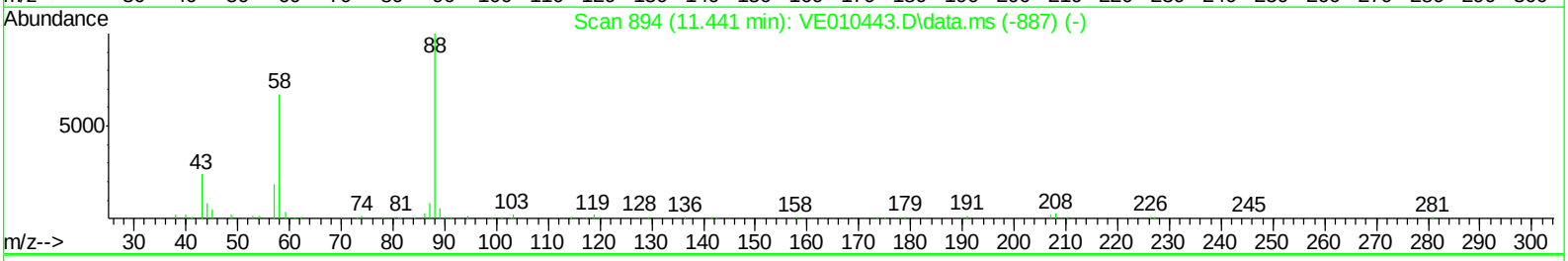
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010445.D
Acq On : 16 Oct 2008 15:40
Operator : SY
Sample : 200 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 16 16:09:36 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration







TIC: VE010445.D\data.ms

(29) 1,4-Dioxane (T)

11.450min (+0.010) 3401.93 ug/L

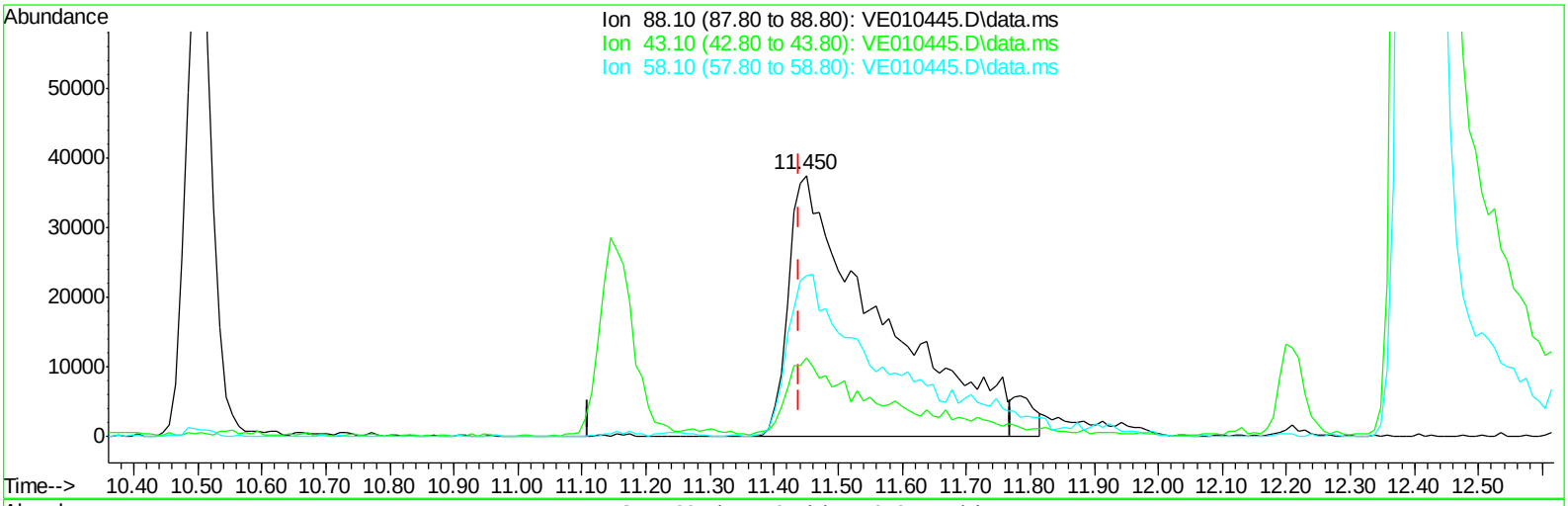
response 291577

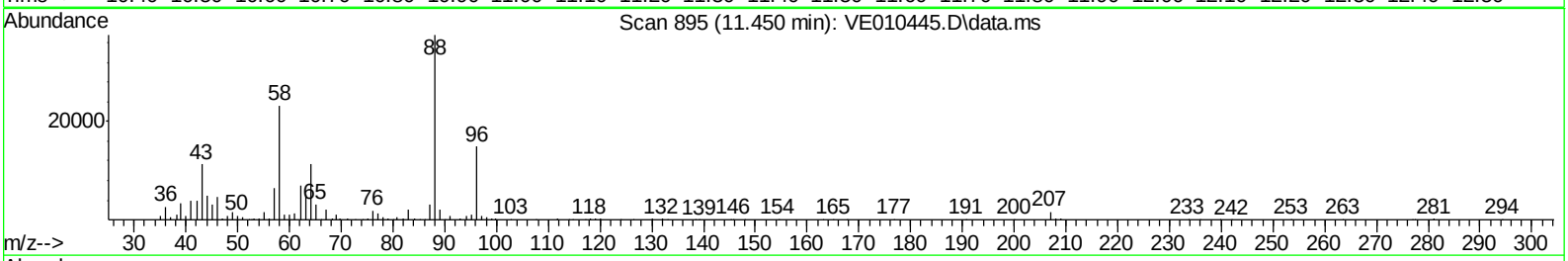
Ion	Exp%	Act%
88.10	100	100
43.10	26.50	25.24
58.10	56.00	69.49
0.00	0.00	0.00

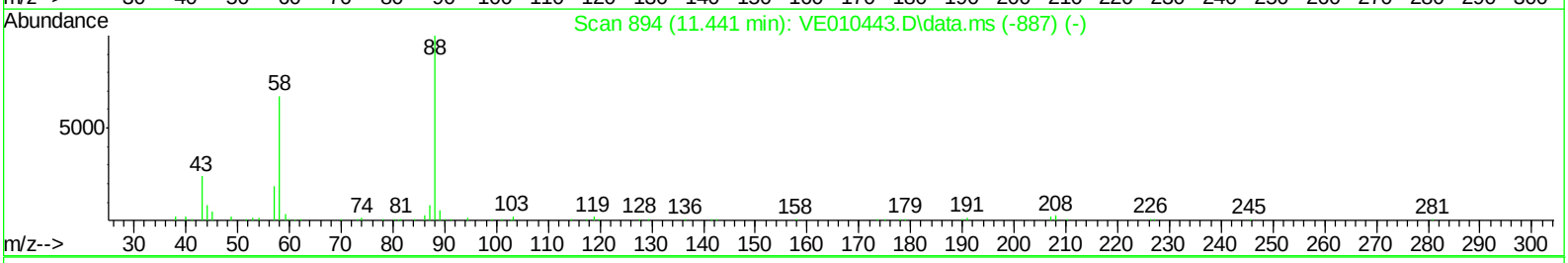
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010445.D
Acq On : 16 Oct 2008 15:40
Operator : SY
Sample : 200 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 16 16:09:36 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration







TIC: VE010445.D\data.ms

(29) 1,4-Dioxane (T)

11.450min (+0.010) 4478.72 ug/L m

response 383868

Ion	Exp%	Act%
88.10	100	100
43.10	26.50	19.17
58.10	56.00	52.78
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010445.D
Acq On : 16 Oct 2008 15:40
Operator : SY
Sample : 200 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 16 16:10:33 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	10.504	114	1205441	50.00	ug/L	0.00
30) Chlorobenzene-d5	14.919	117	1180560	50.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	18.732	152	604787	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	4.297	65	990796	226.16	ug/L	0.00
Spiked Amount 50.000			Recovery	=	452.32%	
6) Chloroethane-d5	5.036	69	396626	140.64	ug/L	-0.02
Spiked Amount 50.000			Recovery	=	281.28%	
10) 1,1-Dichloroethene-d2	6.326	63	1916809	155.88	ug/L	0.00
Spiked Amount 50.000			Recovery	=	311.76%	
20) 2-Butanone-d5	8.741	46	1540543	374.19	ug/L	0.00
Spiked Amount 100.000			Recovery	=	374.19%	
21) Chloroform-d	9.233	84	2689544	163.53	ug/L	0.00
Spiked Amount 50.000			Recovery	=	327.06%	
24) 1,2-Dichloroethane-d4	9.992	65	1845502	172.74	ug/L	0.00
Spiked Amount 50.000			Recovery	=	345.48%	
27) 1,4-Dioxane-d8	11.372	96	307642m	4468.17	ug/L	0.00
Spiked Amount 1250.000			Recovery	=	357.45%	
31) Benzene-d6	9.992	84	4174786	156.18	ug/L	0.00
Spiked Amount 50.000			Recovery	=	312.36%	
36) 1,2-Dichloropropane-d6	11.145	67	1506855	150.89	ug/L	0.00
Spiked Amount 50.000			Recovery	=	301.78%	
38) trans-1,3-Dichloroprop...	13.027	79	713429	212.74	ug/L	0.00
Spiked Amount 50.000			Recovery	=	425.48%	
39) Toluene-d8	12.653	98	4770591	176.75	ug/L	0.00
Spiked Amount 50.000			Recovery	=	353.50%	
41) 2-Hexanone-d5	13.559	63	1249744	351.02	ug/L	0.00
Spiked Amount 100.000			Recovery	=	351.02%	
50) 1,1,2,2-Tetrachloroeth...	16.959	84	2532951	162.41	ug/L	0.00
Spiked Amount 50.000			Recovery	=	324.82%	
62) 1,2-Dichlorobenzene-d4	19.412	152	2095047	174.09	ug/L	0.00
Spiked Amount 50.000			Recovery	=	348.18%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.656	85	1664625	146.93	ug/L	97
3) Chloromethane	4.070	50	1314646	171.34	ug/L	97
5) Vinyl chloride	4.297	62	1121715	163.44	ug/L	95
7) Bromomethane	4.957	94	320178	90.66	ug/L	90
8) Chloroethane	5.095	64	326535	123.42	ug/L	98
9) Trichlorofluoromethane	5.528	101	1364353	151.62	ug/L #	55
11) 1,1,2-Trichlorotrifluo...	6.267	101	828664	139.28	ug/L	97
12) 1,1-Dichloroethene	6.346	96	696774	138.83	ug/L	83
13) Acetone	6.425	43	775870	361.04	ug/L	92
14) Carbon disulfide	6.760	76	3296470	171.60	ug/L	97
15) Methyl Acetate	6.849	43	1046721	159.57	ug/L	97
16) Methylene chloride	7.095	84	1448839	154.09	ug/L	95
17) Methyl tert-butyl Ether	7.351	73	3815134	173.71	ug/L	100
18) trans-1,2-Dichloroethene	7.420	96	1429643	168.83	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010445.D
Acq On : 16 Oct 2008 15:40
Operator : SY
Sample : 200 PPB ICC
Misc : 5ML, MSVOAE
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 16 16:10:33 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 15:07:12 2008
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
19)	1,1-Dichloroethane	8.031	63	2609644	169.89 ug/L	98
22)	cis-1,2-Dichloroethene	8.839	96	1524541	168.51 ug/L #	98
23)	Bromochloromethane	9.204	128	876086	163.17 ug/L	92
25)	Chloroform	9.263	83	2469226	154.80 ug/L	98
26)	1,2-Dichloroethane	10.100	62	2152076	167.23 ug/L	96
28)	2-Butanone	8.829	43	1449505	344.10 ug/L	99
29)	1,4-Dioxane	11.450	88	383868m	4478.72 ug/L	
32)	Cyclohexane	9.588	56	1768921	168.21 ug/L	95
33)	Methylcyclohexane	11.155	83	2066697	170.01 ug/L	98
34)	1,1,1-Trichloroethane	9.519	97	2272220	187.54 ug/L	97
35)	Carbon tetrachloride	9.746	117	2006945	192.02 ug/L	99
37)	Benzene	10.051	78	3856318	143.77 ug/L	100
40)	Trichloroethene	10.918	95	1577898	183.77 ug/L	98
42)	1,2-Dichloropropane	11.283	63	1382863	178.26 ug/L	99
43)	Bromodichloromethane	11.667	83	2302008	183.50 ug/L	98
44)	cis-1,3-Dichloropropene	12.268	75	2544625	179.47 ug/L	98
45)	4-Methyl-2-pentanone	12.406	43	3435084	349.49 ug/L	95
46)	Toluene	12.751	91	5212689	165.95 ug/L	99
47)	trans-1,3-Dichloropropene	13.076	75	2622644	186.37 ug/L	99
48)	1,1,2-Trichloroethane	13.392	97	1558621	179.79 ug/L	95
49)	Tetrachloroethene	13.589	164	1279611	179.56 ug/L	96
51)	2-Hexanone	13.638	43	2346866	313.77 ug/L	98
52)	Dibromochloromethane	14.062	129	2066059	192.00 ug/L	96
53)	1,2-Dibromoethane	14.278	107	2085620	193.68 ug/L	98
54)	Chlorobenzene	14.968	112	4043002	172.13 ug/L	99
55)	Ethylbenzene	15.037	91	5567518	148.66 ug/L	97
56)	m&p-xylenes	15.205	106	2584194	173.00 ug/L	99
57)	o-xylene	15.875	106	2268594	160.26 ug/L	99
58)	Styrene	15.904	104	3318387	139.69 ug/L	89
59)	Isopropylbenzene	16.427	105	5773700	157.64 ug/L	99
60)	1,1,2,2-Tetrachloroethane	16.998	83	2159843	147.53 ug/L	98
63)	Bromoform	16.367	173	1464914	191.21 ug/L	100
64)	1,3-Dichlorobenzene	18.634	146	3438336	181.64 ug/L	99
65)	1,4-Dichlorobenzene	18.772	146	3281821	172.97 ug/L	97
66)	1,2-Dichlorobenzene	19.442	146	2627356	153.05 ug/L	98
67)	1,2-Dibromo-3-chloropr...	20.792	75	495189	183.48 ug/L	98
68)	1,2,4-trichlorobenzene	22.250	180	1707120	134.48 ug/L	99
69)	1,2,3-Trichlorobenzene	23.275	180	1494106	123.81 ug/L	97

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

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAI Calibration Date(s): 10/19/2008 10/19/2008

Heated Purge: (Y/N) Y Calibration Time(s): 12:10 13:49

Purge Volume: 10 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 60 (m)

LAB FILE ID: RRF2.5 = VI022298.D RRF5 = VI022299.D

RRF25 = VI022300.D RRF50 = VI022301.D RRF100 = VI022302.D

COMPOUND	RRF2.5	RRF5	RRF25	RRF50	RRF100	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	0.507	0.370	0.423	0.453	0.581	0.467	17.3
Chloromethane	0.369	0.287	0.288	0.349	0.427	0.344	17.2
Vinyl Chloride	0.419	0.278	0.315	0.349	0.391	0.350	16.1
Bromomethane	0.217	0.178	0.137	0.131	0.127	0.158	24.4
Chloroethane	0.057	0.070	0.048	0.045	0.045	0.053	20.2
Trichlorofluoromethane	0.372	0.323	0.276	0.231	0.206	0.282	23.9
1,1-Dichloroethene	0.163	0.147	0.141	0.130	0.109	0.138	14.5
1,1,2-Trichloro-1,2,2-trifluoroethane	0.196	0.198	0.178	0.148	0.128	0.170	18.1
Acetone	0.074	0.051	0.053	0.043	0.044	0.053	23.9
Carbon disulfide	0.582	0.520	0.475	0.427	0.385	0.478	16.2
Methyl acetate	0.119	0.094	0.103	0.078	0.080	0.095	18.0
Methylene chloride	0.263	0.181	0.142	0.117	0.115	0.164	37.4
trans-1,2-Dichloroethene	0.185	0.157	0.165	0.131	0.126	0.153	16.0
Methyl tert-Butyl ether	0.642	0.559	0.561	0.451	0.419	0.526	17.2
1,1-Dichloroethane	0.458	0.478	0.489	0.405	0.400	0.446	9.2
cis-1,2-Dichloroethene	0.283	0.304	0.298	0.305	0.292	0.297	3.0
2-Butanone	0.136	0.101	0.110	0.093	0.079	0.104	20.6
Bromochloromethane	0.176	0.161	0.186	0.203	0.209	0.187	10.4
Chloroform	0.827	0.809	0.778	0.662	0.645	0.744	11.4
1,1,1-Trichloroethane	0.658	0.610	0.626	0.526	0.536	0.591	9.8
Cyclohexane	0.331	0.316	0.268	0.220	0.227	0.272	18.5
Carbon Tetrachloride	0.681	0.613	0.615	0.593	0.637	0.628	5.4
Benzene	1.197	1.021	0.955	0.841	0.856	0.974	14.9
1,2-Dichloroethane	0.584	0.558	0.613	0.499	0.425	0.536	14.0
1,4-Dioxane	0.005	0.003	0.004	0.003	0.003	0.003	29.0
Trichloroethene	0.744	0.509	0.358	0.323	0.368	0.460	37.8
Methylcyclohexane	0.603	0.520	0.431	0.379	0.409	0.468	19.6

Report 1,4 -Dioxane for Low-Medium VOA analysis only

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAI Calibration Date(s): 10/19/2008 10/19/2008

Heated Purge: (Y/N) Y Calibration Time(s): 12:10 13:49

Purge Volume: 10 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 60 (m)

LAB FILE ID: RRF2.5 = VI022298.D RRF5 = VI022299.D

RRF25 = VI022300.D RRF50 = VI022301.D RRF100 = VI022302.D

COMPOUND	RRF2.5	RRF5	RRF25	RRF50	RRF100	$\overline{RRF}$	%RSD
1,2-Dichloropropane	0.297	0.286	0.257	0.229	0.234	0.261	11.6
Bromodichloromethane	0.591	0.648	0.593	0.548	0.524	0.581	8.2
cis-1,3-Dichloropropene	0.637	0.659	0.605	0.593	0.609	0.621	4.3
4-Methyl-2-pentanone	0.342	0.310	0.348	0.286	0.303	0.318	8.3
Toluene	1.331	1.251	1.238	1.045	0.960	1.165	13.4
trans-1,3-Dichloropropene	0.659	0.643	0.699	0.601	0.527	0.626	10.4
1,1,2-Trichloroethane	0.324	0.310	0.306	0.271	0.224	0.287	14.0
Tetrachloroethene	0.286	0.269	0.270	0.261	0.256	0.269	4.2
2-Hexanone	0.319	0.244	0.277	0.212	0.212	0.253	18.1
Dibromochloromethane	0.476	0.437	0.508	0.519	0.521	0.492	7.3
1,2-Dibromoethane	0.423	0.362	0.417	0.417	0.426	0.409	6.4
Chlorobenzene	0.902	0.912	0.929	0.854	0.766	0.872	7.6
Ethylbenzene	1.929	1.754	1.691	1.610	1.571	1.711	8.2
o-Xylene	0.613	0.572	0.601	0.596	0.556	0.588	3.9
m,p-Xylene	0.603	0.548	0.577	0.489	0.392	0.522	16.1
Styrene	1.015	1.034	1.041	0.920	0.731	0.948	13.8
Bromoform	0.500	0.502	0.582	0.540	0.431	0.511	10.9
Isopropylbenzene	1.856	1.704	1.777	1.630	1.160	1.626	16.8
1,1,2,2-Tetrachloroethane	0.524	0.468	0.529	0.462	0.355	0.468	15.0
1,3-Dichlorobenzene	1.642	1.357	1.524	1.480	1.521	1.505	6.8
1,4-Dichlorobenzene	1.568	1.355	1.470	1.431	1.384	1.442	5.8
1,2-Dichlorobenzene	1.484	1.265	1.327	1.323	1.364	1.353	6.0
1,2-Dibromo-3-chloropropane	0.202	0.151	0.228	0.199	0.216	0.199	14.8
1,2,4-Trichlorobenzene	0.869	0.729	0.804	0.845	1.045	0.858	13.7
1,2,3-Trichlorobenzene	0.742	0.573	0.641	0.684	0.834	0.695	14.3

Report 1,4 -Dioxane for Low-Medium VOA analysis only

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAI Calibration Date(s): 10/19/2008 10/19/2008

Heated Purge: (Y/N) Y Calibration Time(s): 12:10 13:49

Purge Volume: 10 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 60 (m)

LAB FILE ID: RRF2.5 = VI022298.D RRF5 = VI022299.D

RRF25 = VI022300.D RRF50 = VI022301.D RRF100 = VI022302.D

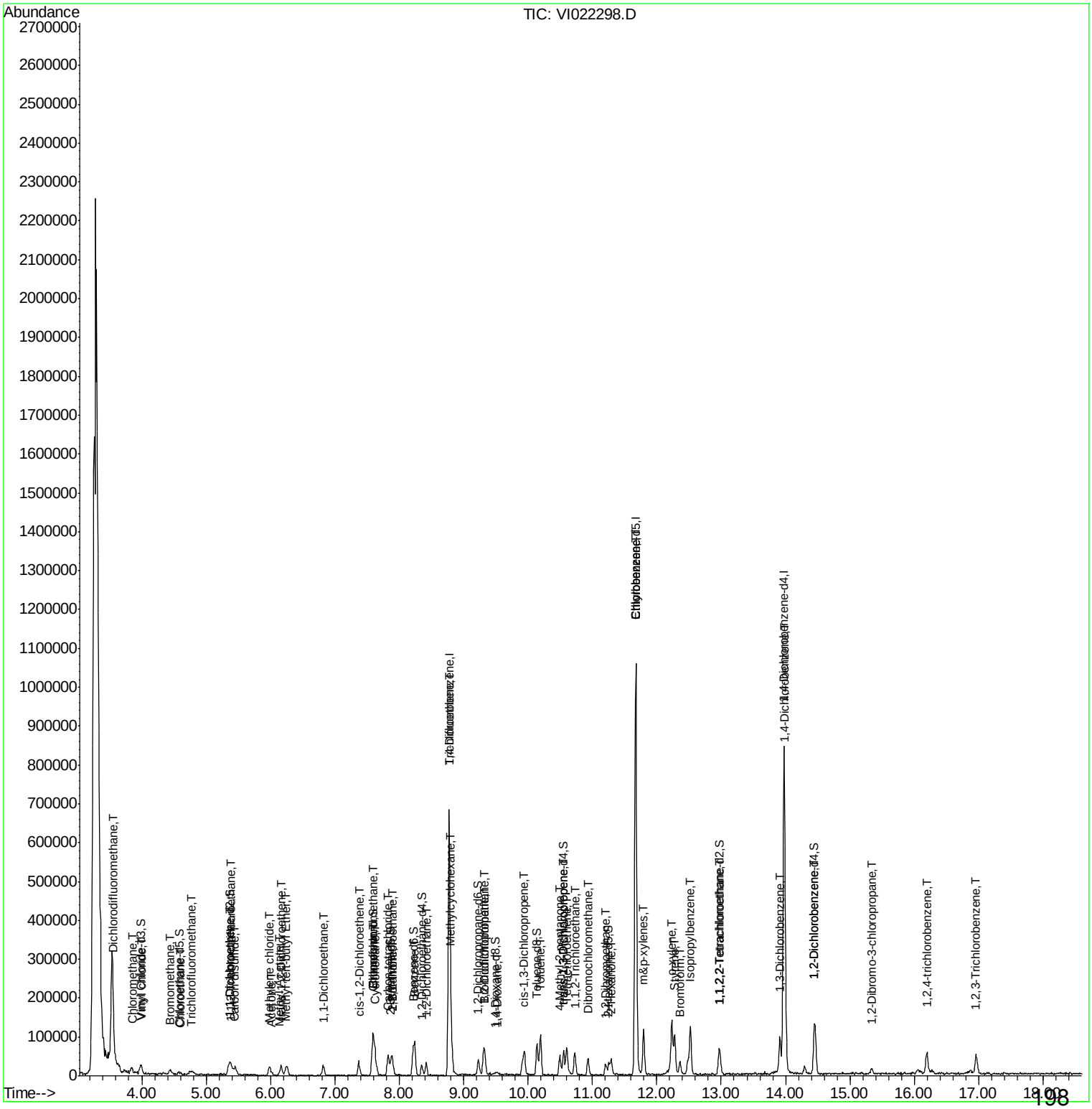
COMPOUND	RRF2.5	RRF5	RRF25	RRF50	RRF100	$\overline{RRF}$	% RSD
Vinyl Chloride-d3	0.277	0.261	0.294	0.338	0.352	0.304	12.8
Chloroethane-d5	0.099	0.066	0.073	0.059	0.057	0.071	23.5
1,1-Dichloroethene-d2	0.382	0.353	0.369	0.324	0.288	0.343	11.0
2-Butanone-d5	0.114	0.108	0.121	0.105	0.092	0.108	10.1
Chloroform-d	0.864	1.033	0.974	0.862	0.870	0.921	8.5
1,2-Dichloroethane-d4	0.421	0.532	0.555	0.504	0.405	0.483	13.8
Benzene-d6	1.013	1.102	1.120	1.018	1.099	1.070	4.8
1,2-Dichloropropane-d6	0.314	0.345	0.363	0.336	0.355	0.343	5.6
Toluene-d8	0.959	1.113	1.118	0.990	1.037	1.043	6.9
trans-1,3-Dichloropropene-d4	0.122	0.154	0.170	0.154	0.140	0.148	12.2
2-Hexanone-d5	0.121	0.114	0.142	0.125	0.105	0.121	11.5
1,4-Dioxane-d8	0.004	0.003	0.003	0.003	0.002	0.003	22.3
1,1,2,2-Tetrachloroethane-d2	0.446	0.492	0.606	0.513	0.417	0.495	14.7
1,2-Dichlorobenzene-d4	0.869	0.826	0.991	0.980	1.045	0.942	9.7

Report 1,4 -Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

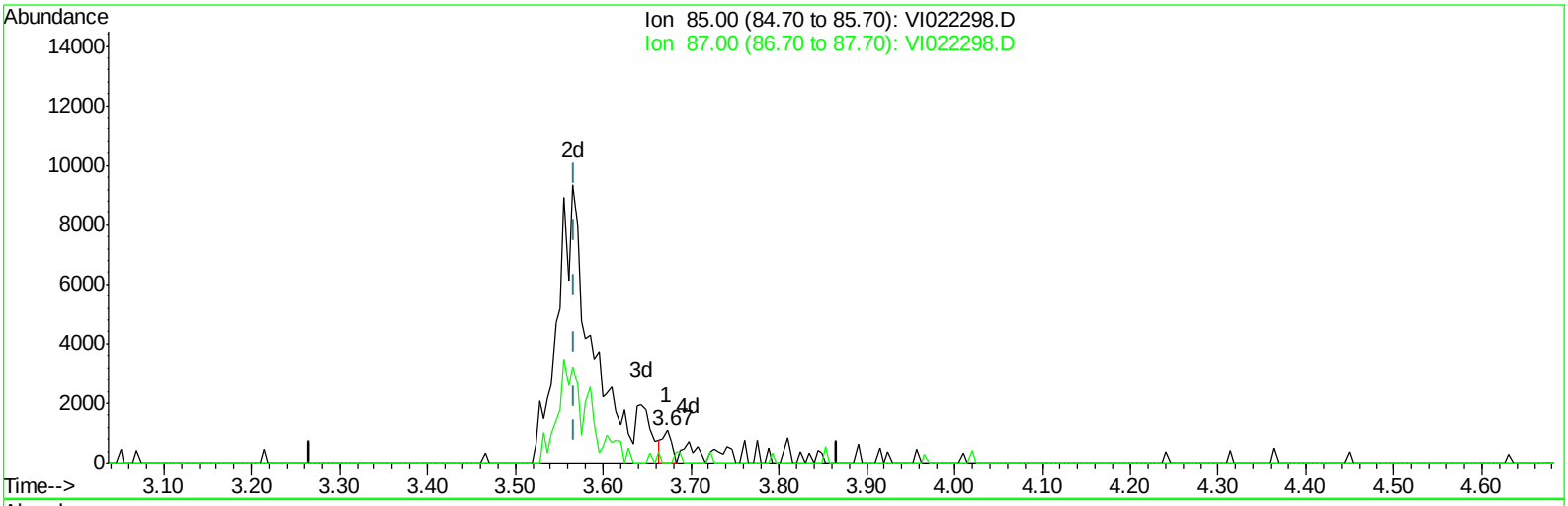
Quant Time: Oct 20 10:20:09 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

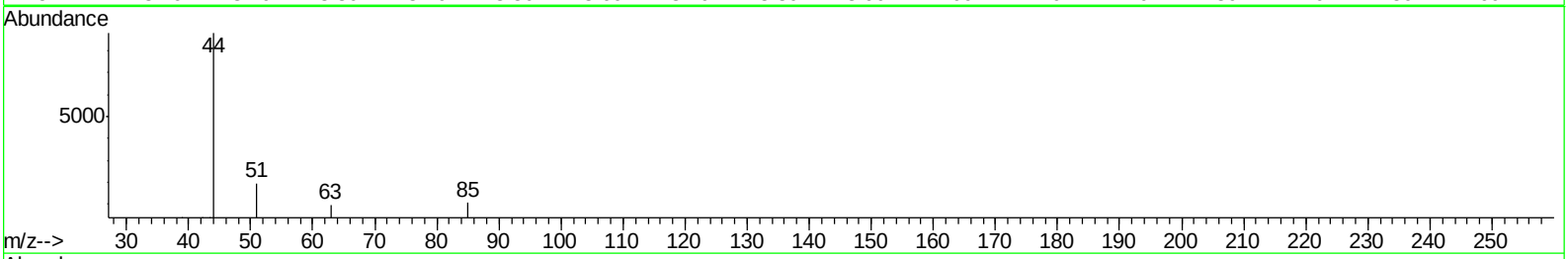


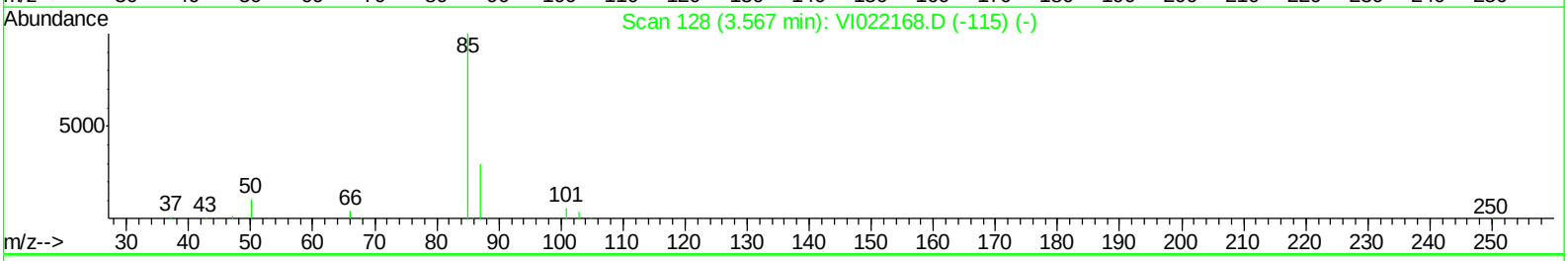
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(2) Dichlorodifluoromethane (T)

3.673min (+0.106) 0.16ug/L

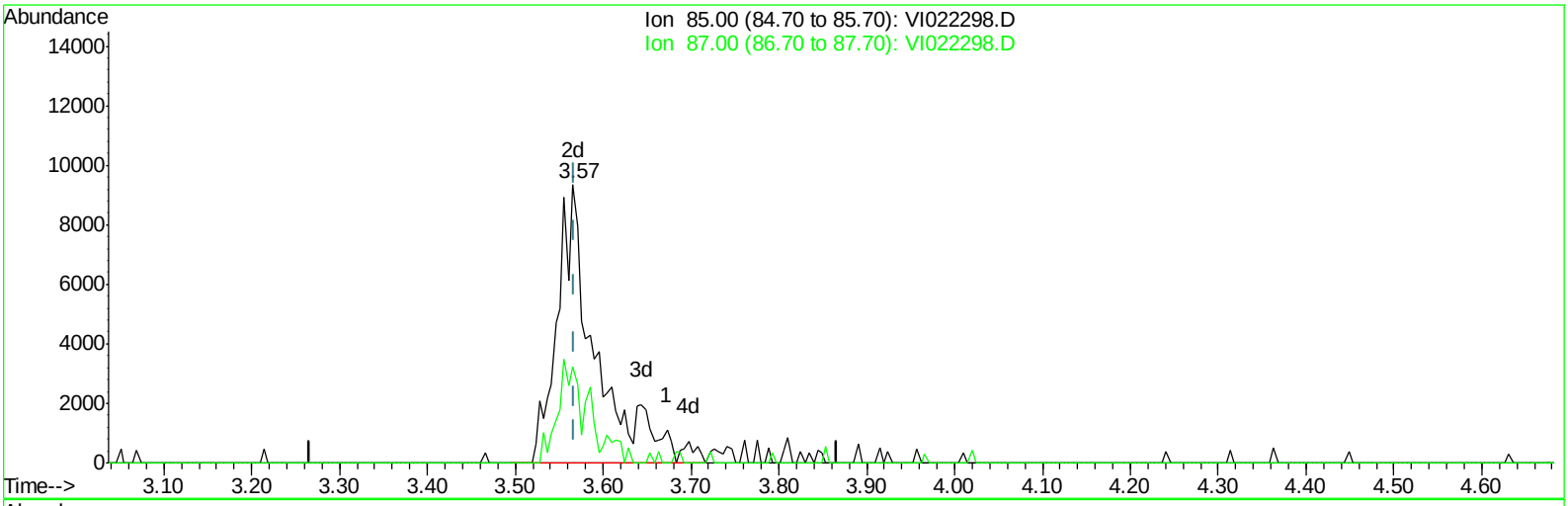
response 764

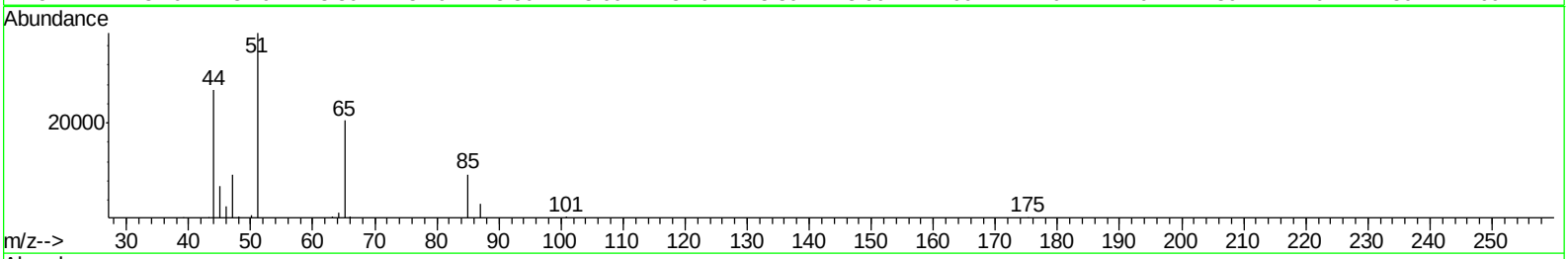
Ion	Exp%	Act%
85.00	100	100
87.00	30.30	27.88
0.00	0.00	0.00
0.00	0.00	0.00

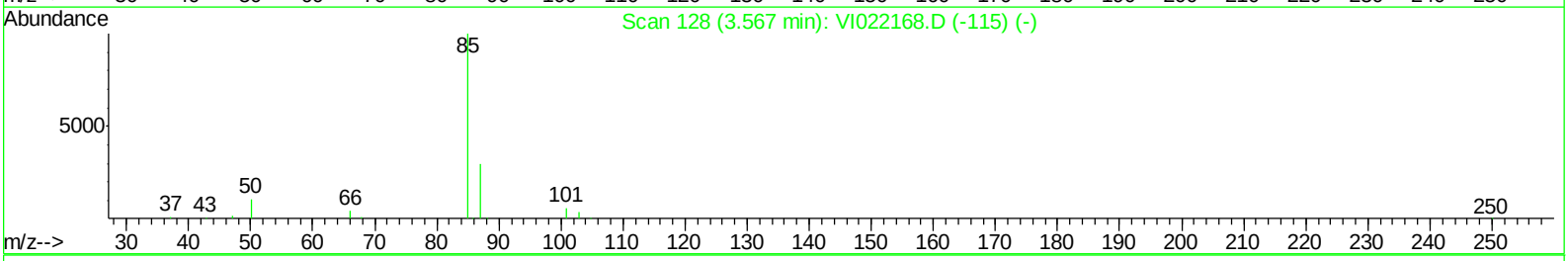
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(2) Dichlorodifluoromethane (T)

3.566min (-0.002) 5.87ug/L m

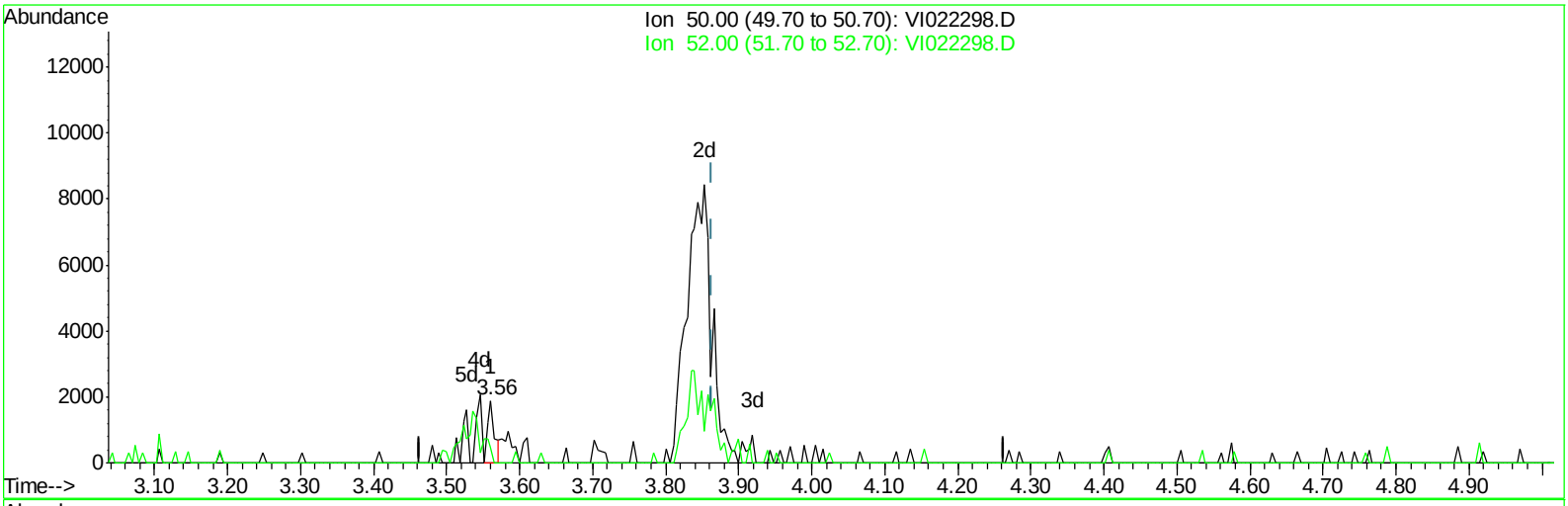
response 28704

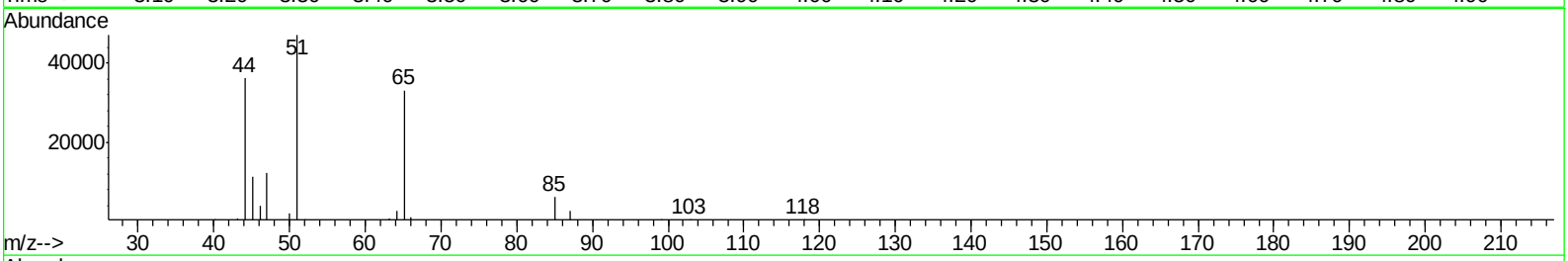
Ion	Exp%	Act%
85.00	100	100
87.00	30.30	0.74#
0.00	0.00	0.00
0.00	0.00	0.00

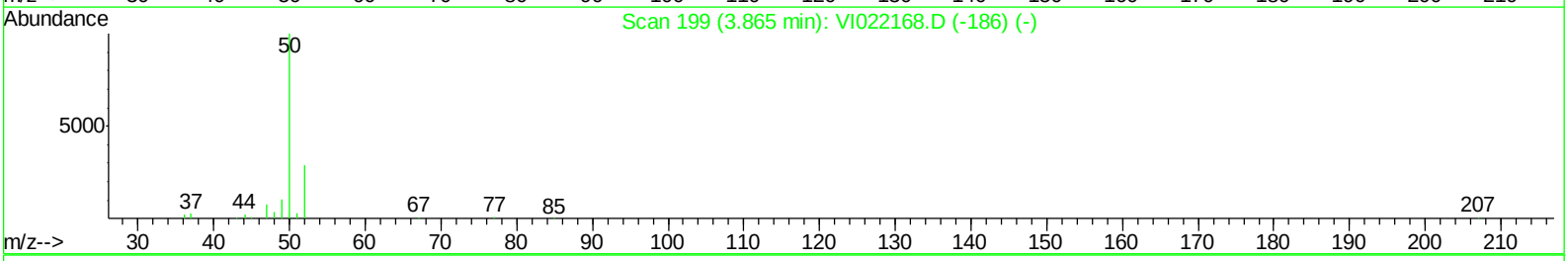
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(3) Chloromethane (T)

3.561min (-0.304) 0.26ug/L

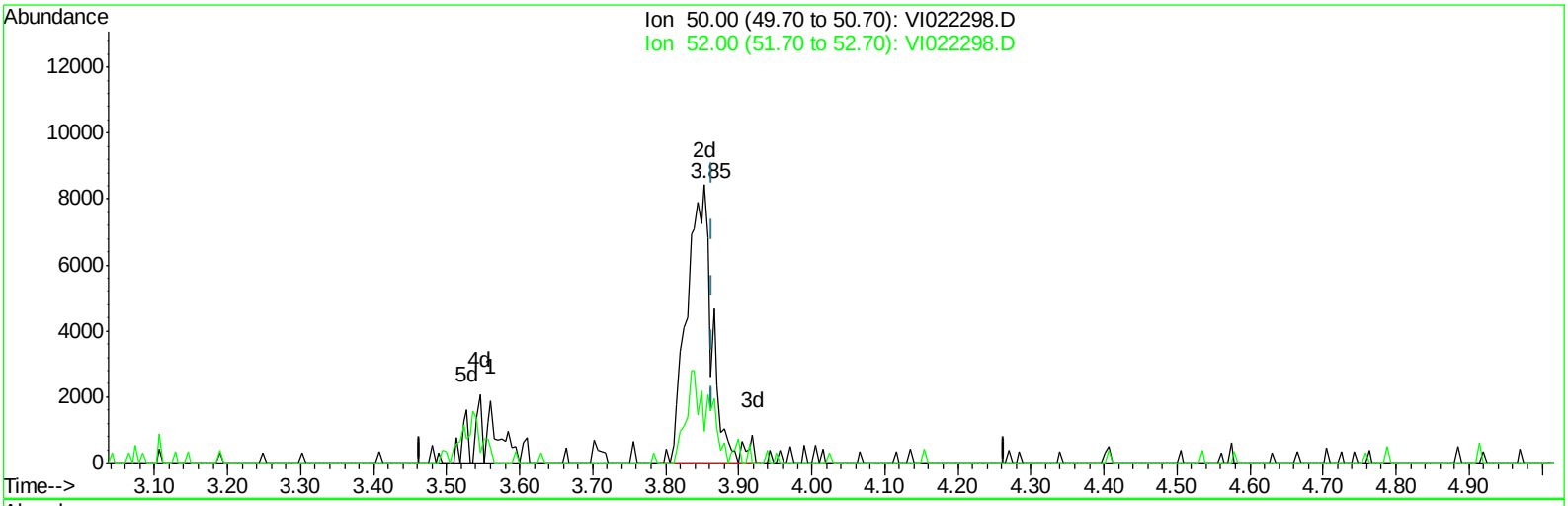
response 1324

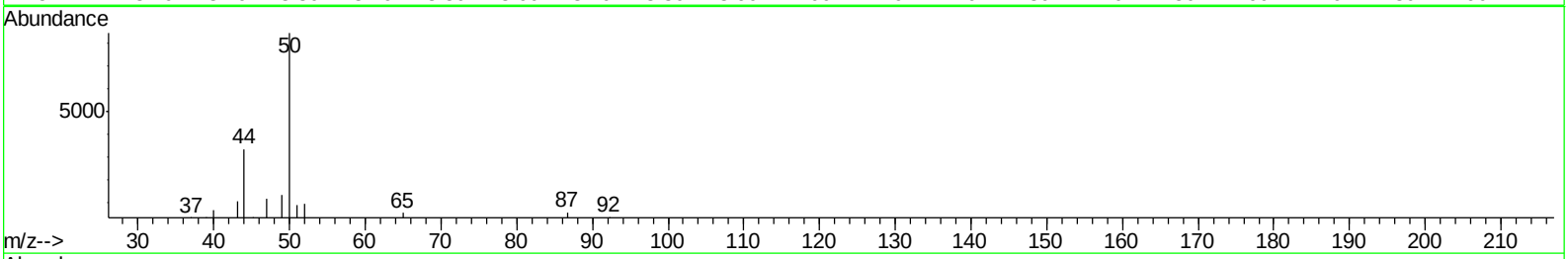
Ion	Exp%	Act%
50.00	100	100
52.00	28.80	23.89
0.00	0.00	0.00
0.00	0.00	0.00

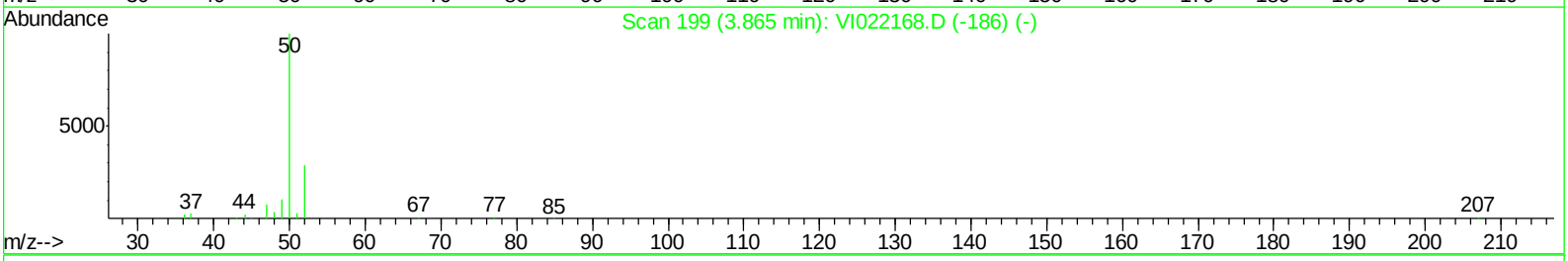
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(3) Chloromethane (T)

3.853min (-0.011) 4.09ug/L m

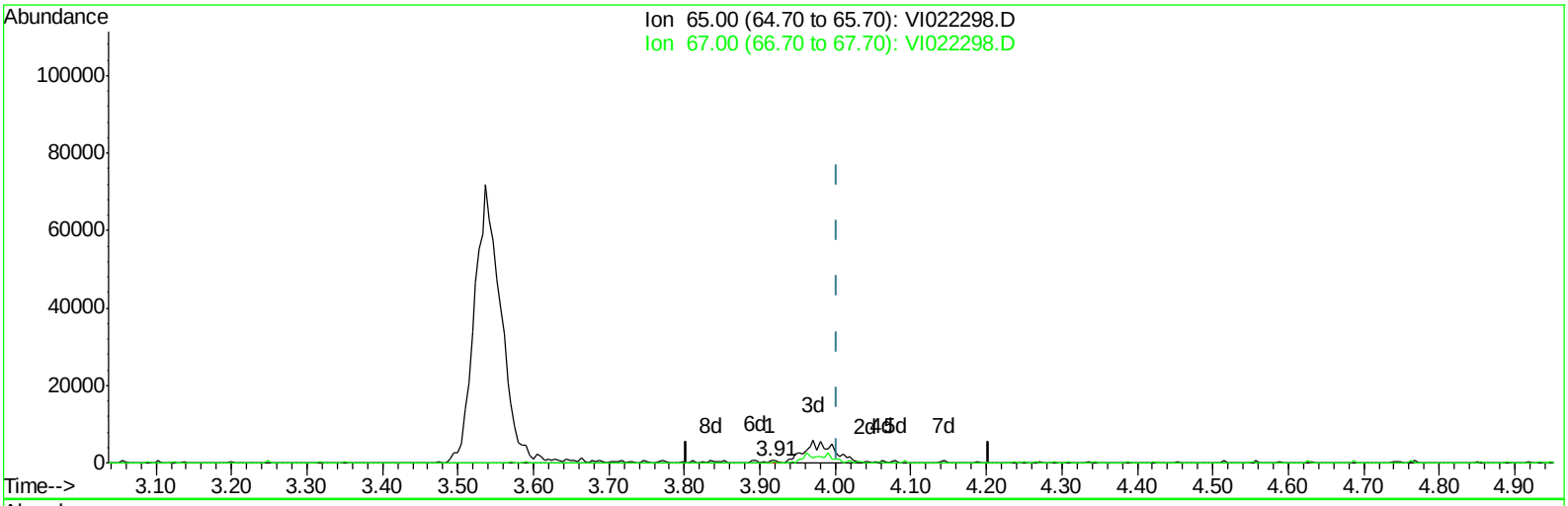
response 20916

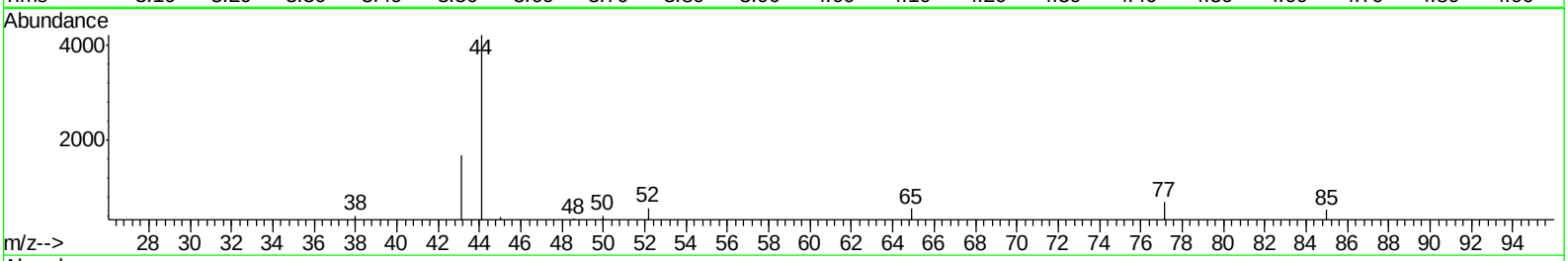
Ion	Exp%	Act%
50.00	100	100
52.00	28.80	11.45#
0.00	0.00	0.00
0.00	0.00	0.00

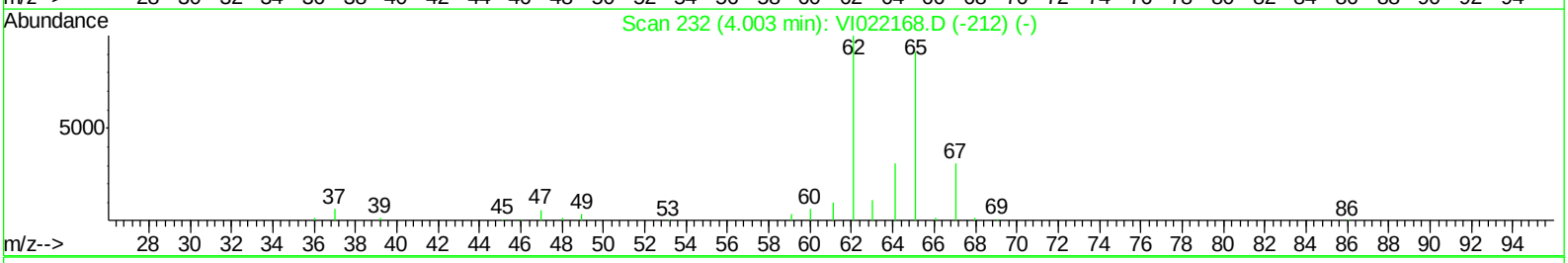
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(4) Vinyl Chloride-d3 (S)

3.914min (-0.089) 0.11ug/L

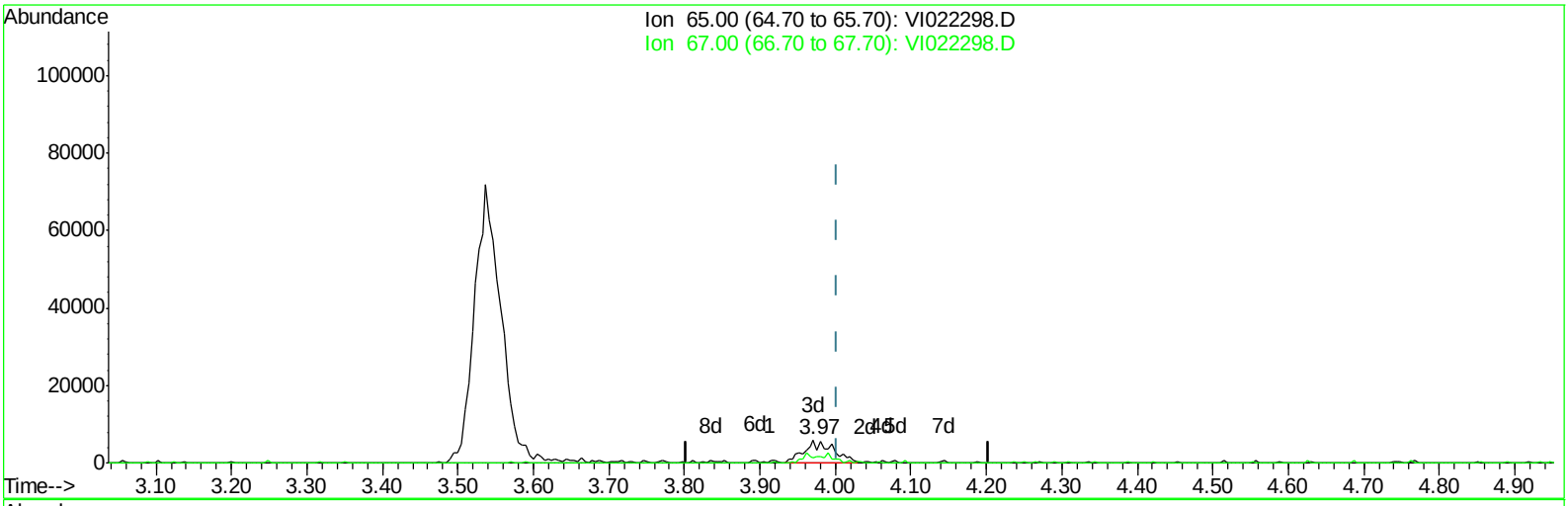
response 421

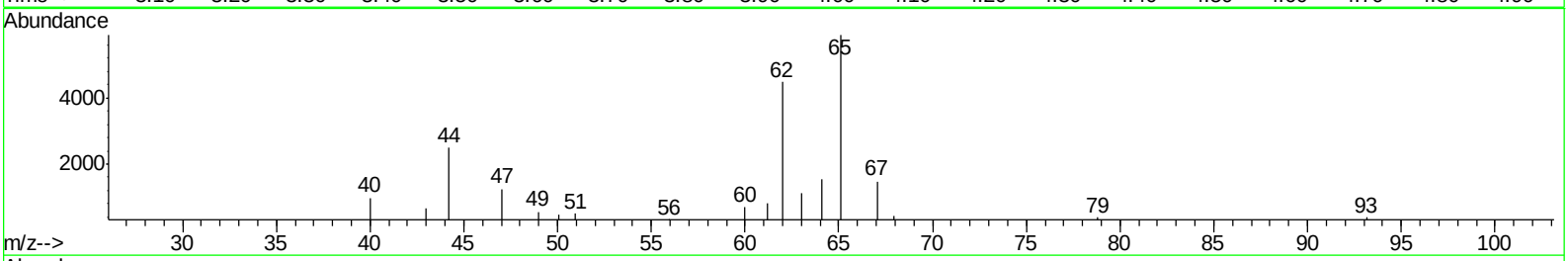
Ion	Exp%	Act%
65.00	100	100
67.00	32.80	23.99
0.00	0.00	0.00
0.00	0.00	0.00

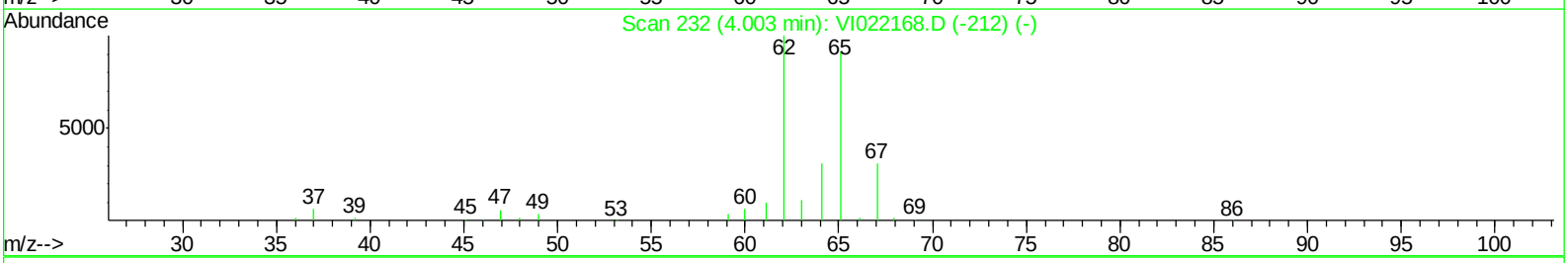
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(4) Vinyl Chloride-d3 (S)

3.971min (-0.033) 3.98ug/L m

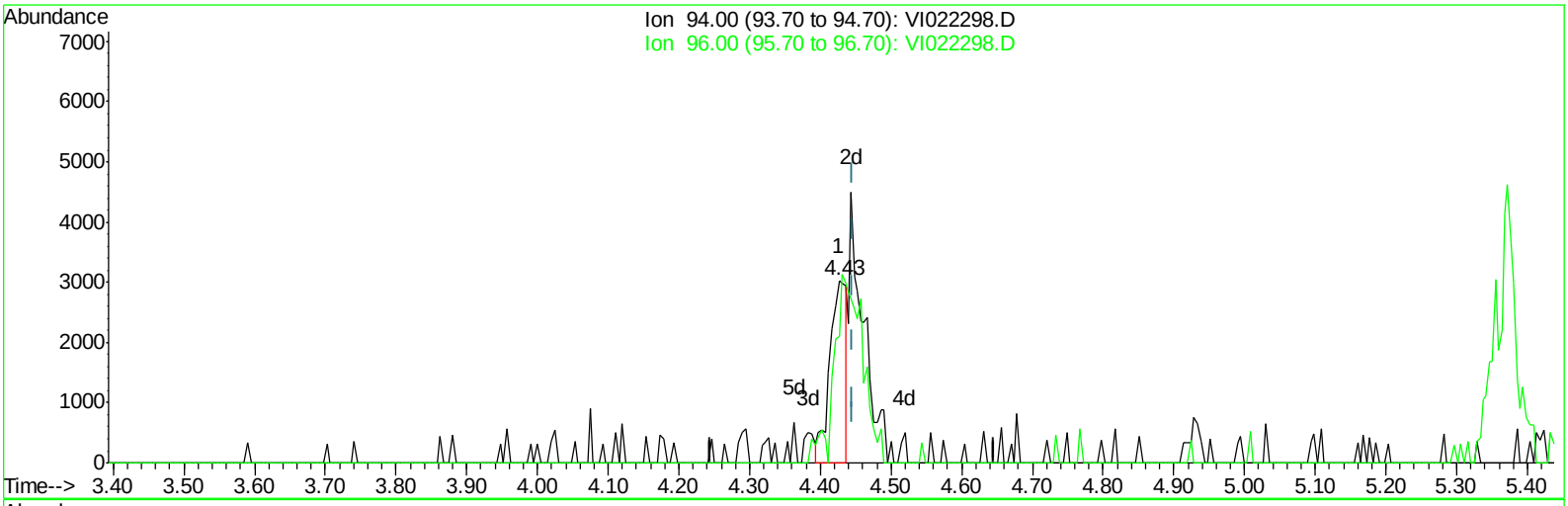
response 15683

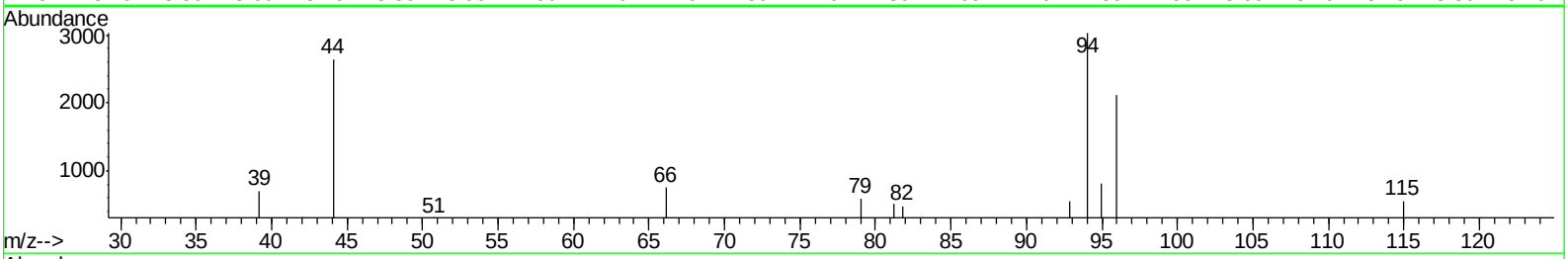
Ion	Exp%	Act%
65.00	100	100
67.00	32.80	0.64#
0.00	0.00	0.00
0.00	0.00	0.00

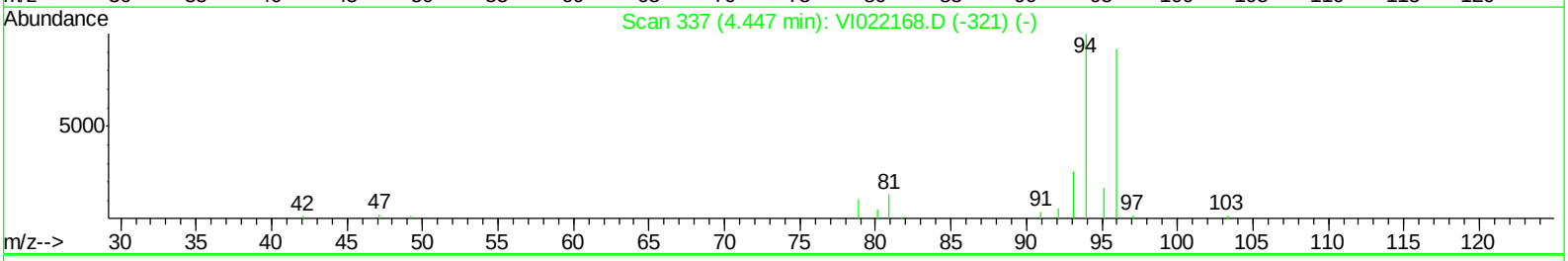
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(6) Bromomethane (T)

4.426min (-0.020) 2.77ug/L

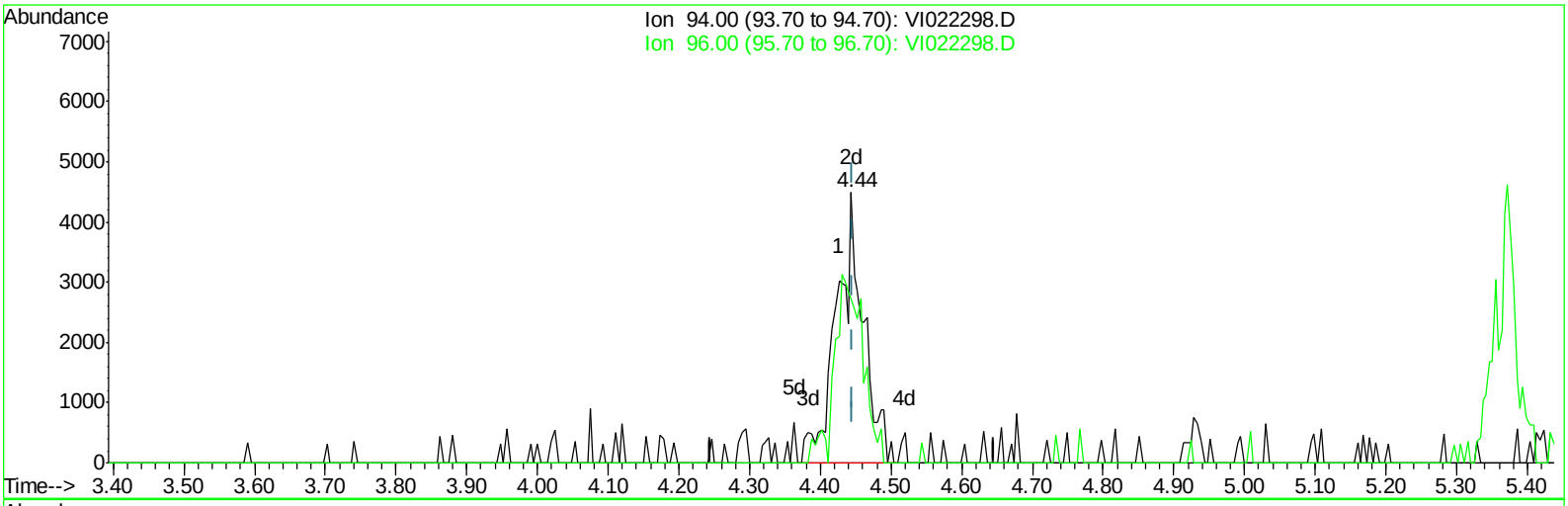
response 4833

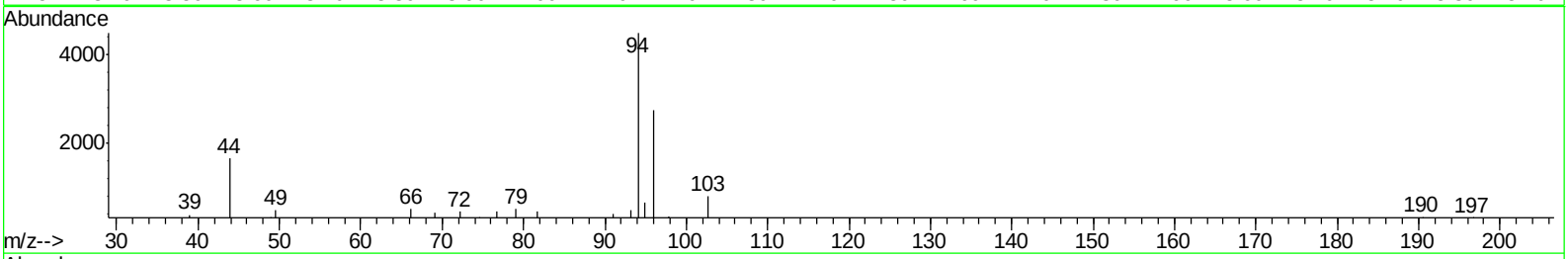
Ion	Exp%	Act%
94.00	100	100
96.00	91.90	69.55
0.00	0.00	0.00
0.00	0.00	0.00

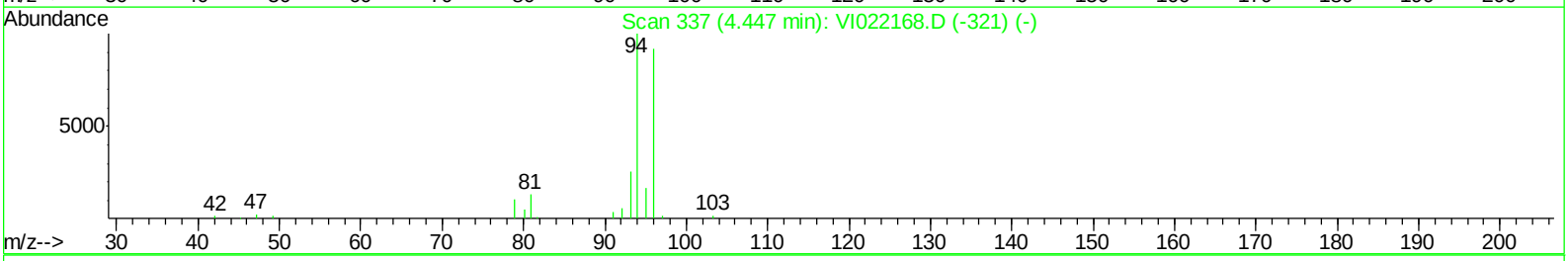
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(6) Bromomethane (T)

4.444min (-0.002) 7.02ug/L m

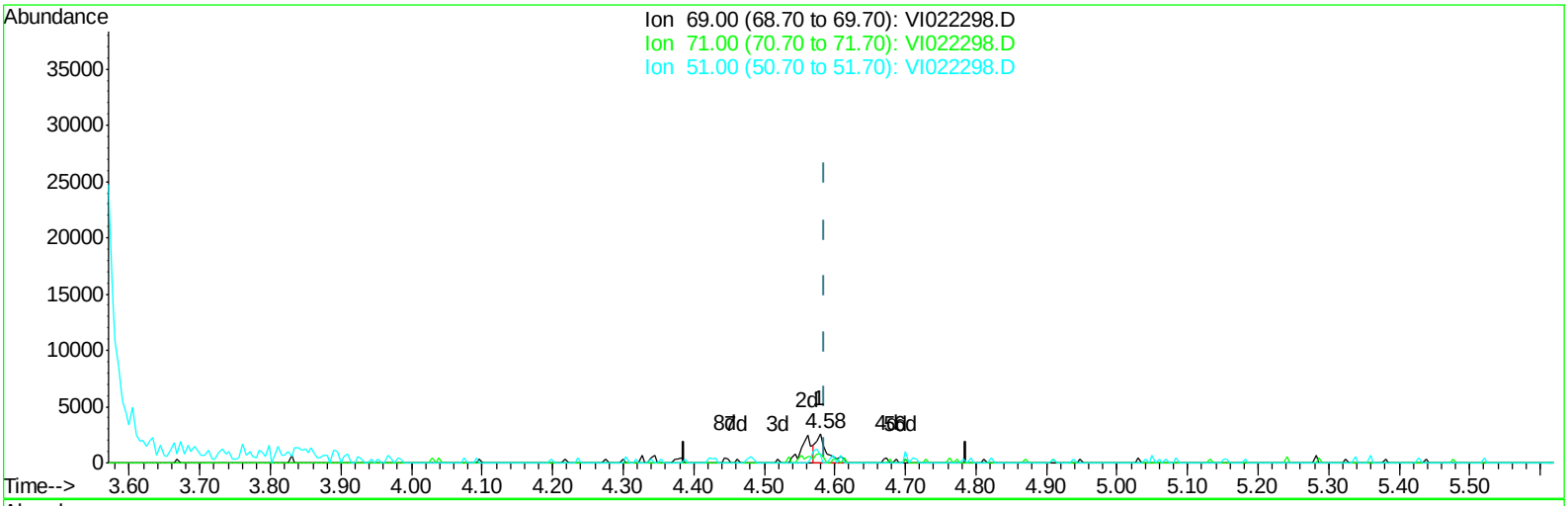
response 12264

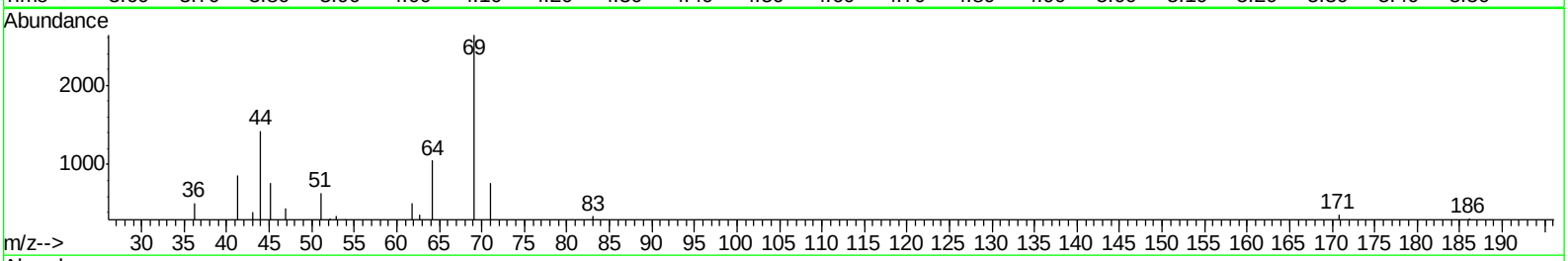
Ion	Exp%	Act%
94.00	100	100
96.00	91.90	60.93#
0.00	0.00	0.00
0.00	0.00	0.00

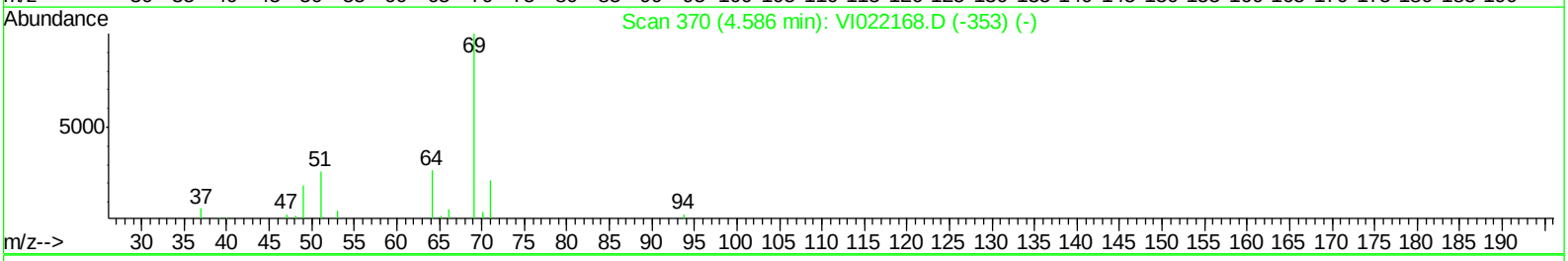
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(7) Chloroethane-d5 (S)

4.579min (-0.007) 2.55ug/L

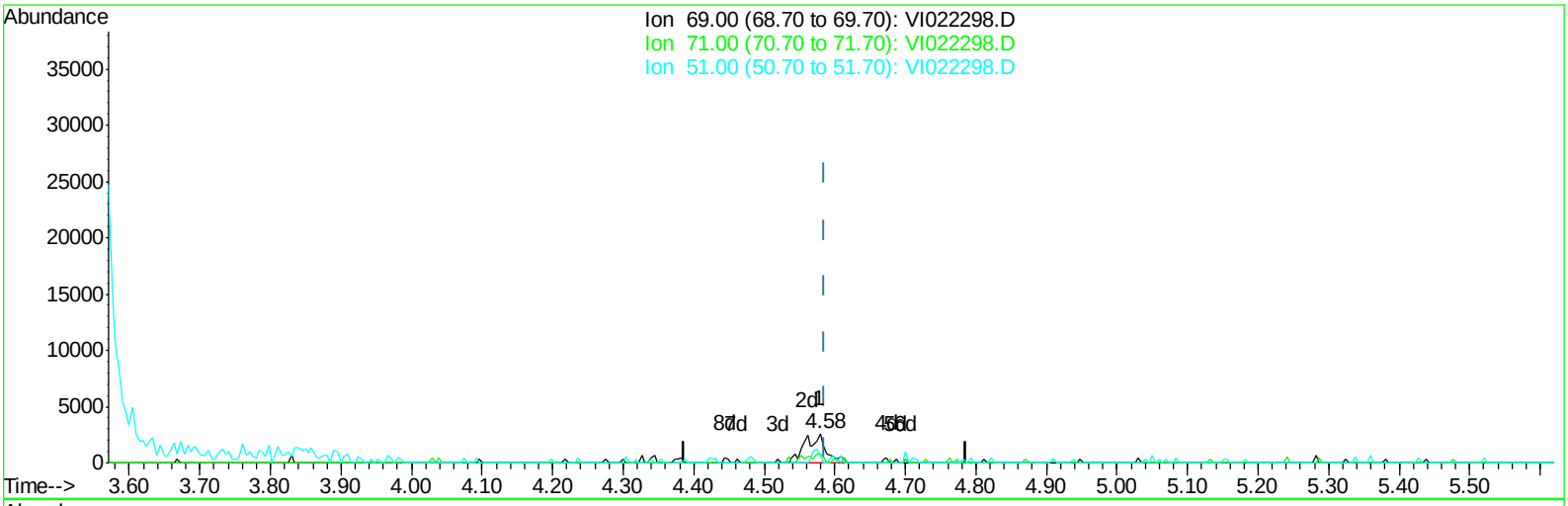
response 2700

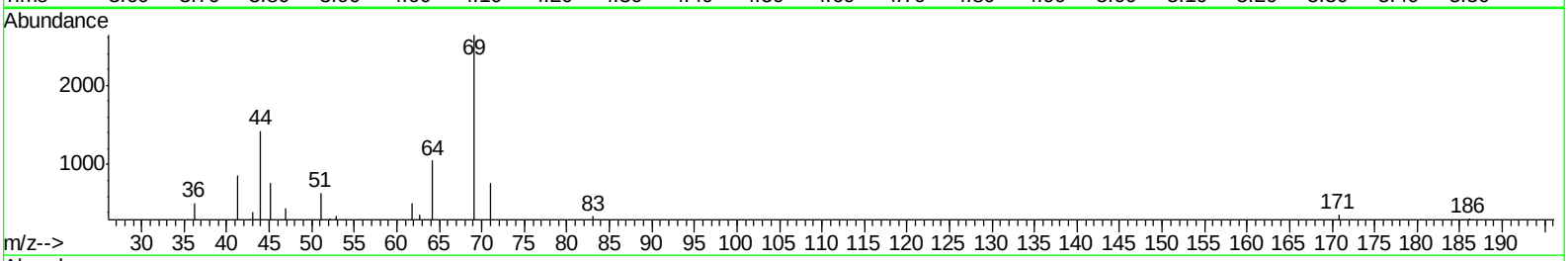
Ion	Exp%	Act%
69.00	100	100
71.00	12.00	22.52#
51.00	35.30	33.37
0.00	0.00	0.00

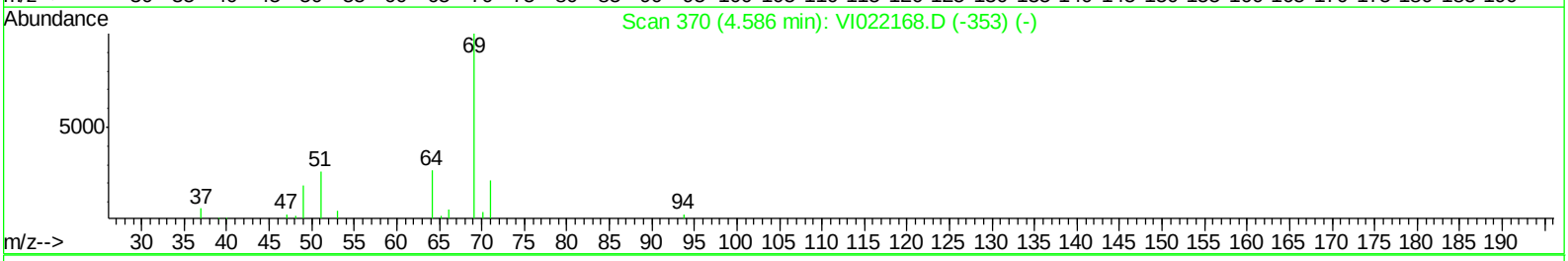
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(7) Chloroethane-d5 (S)

4.579min (-0.007) 5.28ug/L m

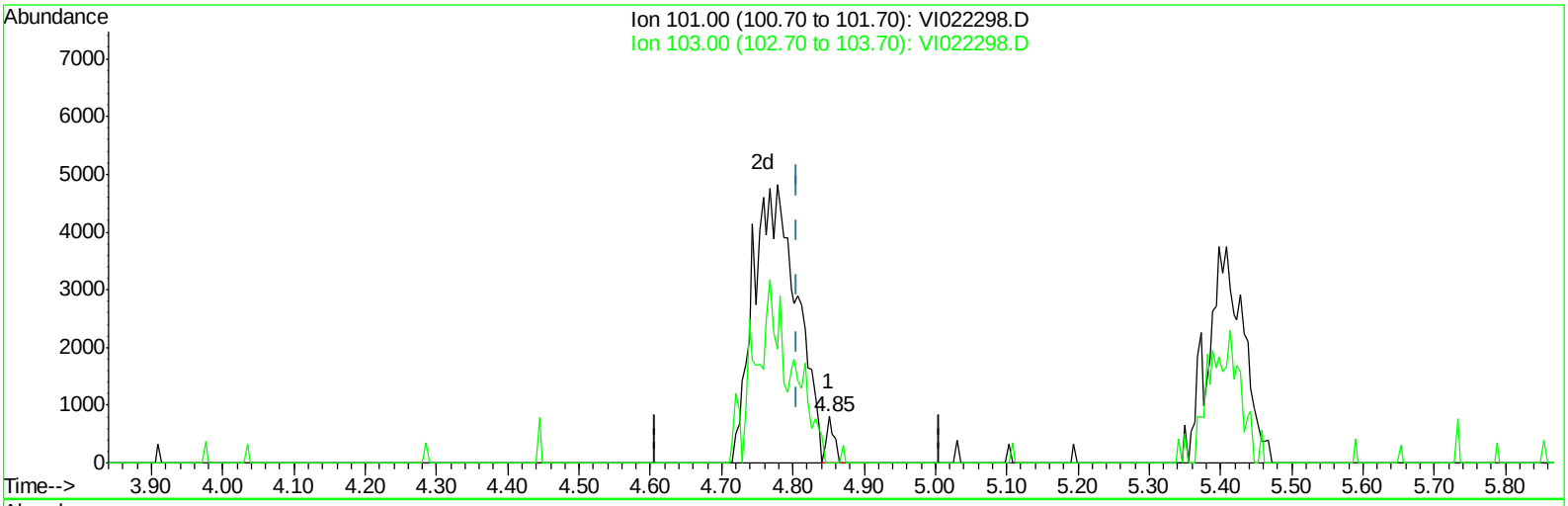
response 5580

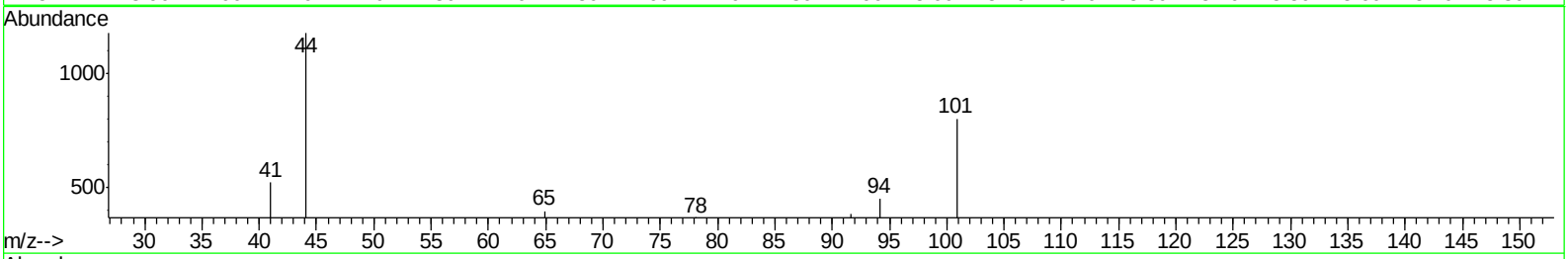
Ion	Exp%	Act%
69.00	100	100
71.00	12.00	10.90
51.00	35.30	16.15#
0.00	0.00	0.00

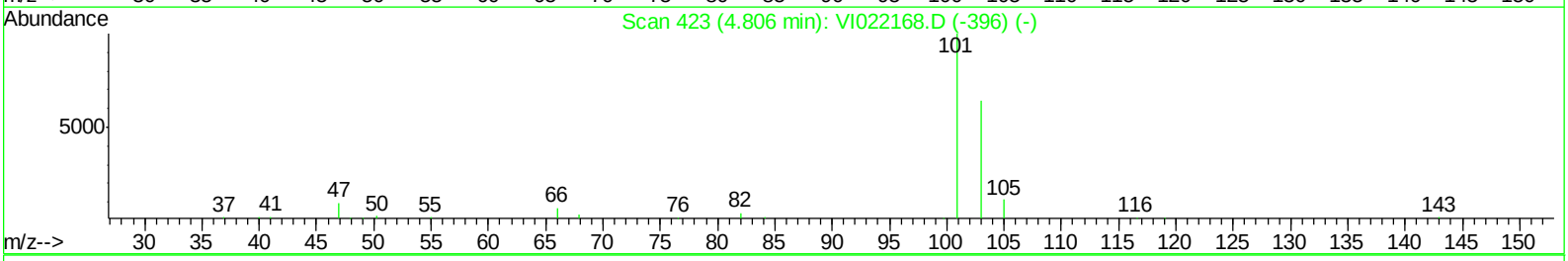
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(9) Trichlorofluoromethane (T)

4.851min (+0.044) 0.20ug/L

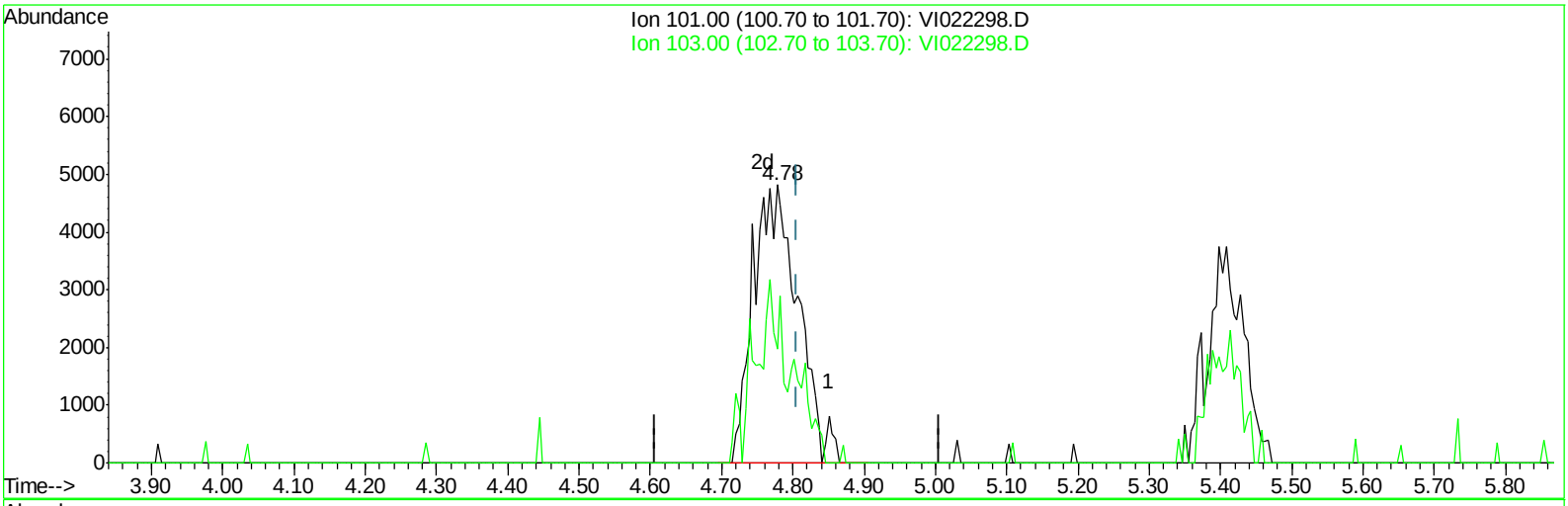
response 598

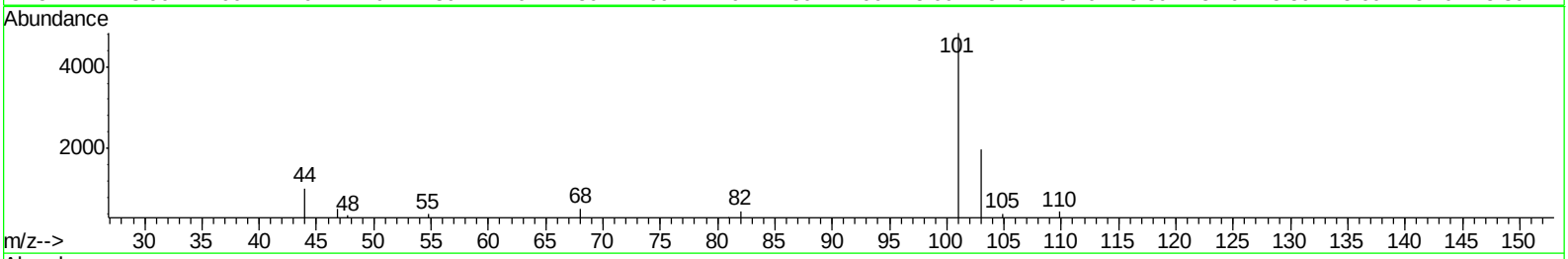
Ion	Exp%	Act%
101.00	100	100
103.00	33.00	553.85#
0.00	0.00	0.00
0.00	0.00	0.00

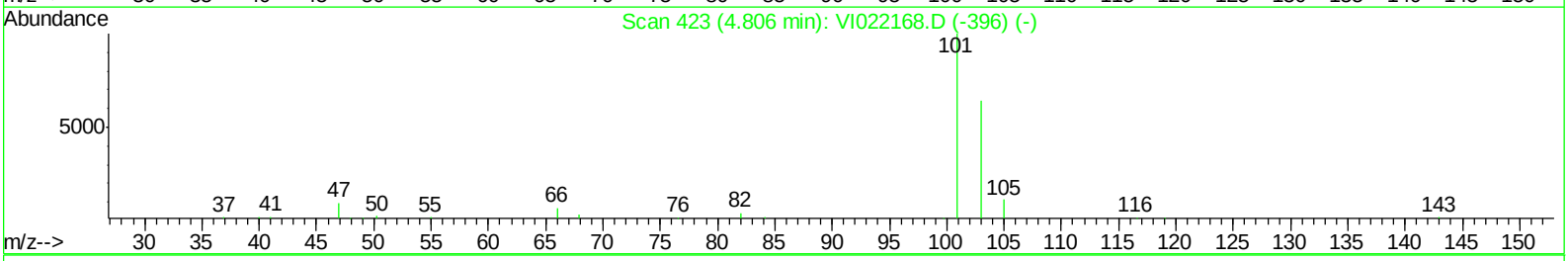
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(9) Trichlorofluoromethane (T)

4.778min (-0.029) 6.99ug/L m

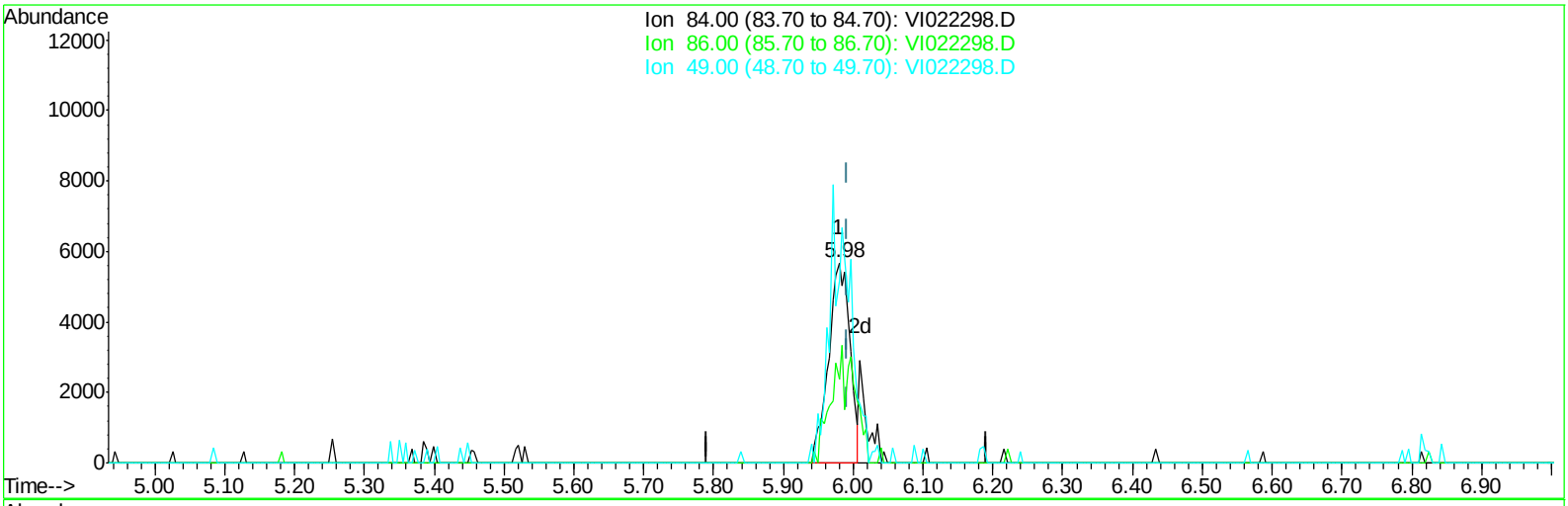
response 21088

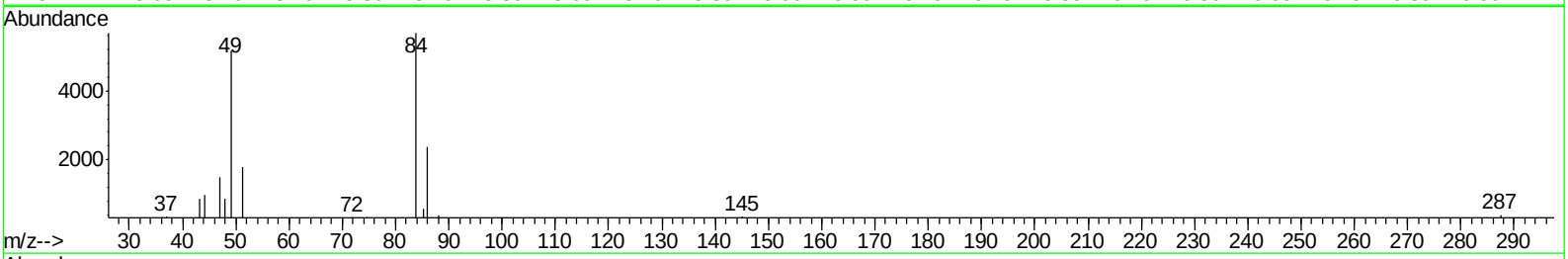
Ion	Exp%	Act%
101.00	100	100
103.00	33.00	15.71#
0.00	0.00	0.00
0.00	0.00	0.00

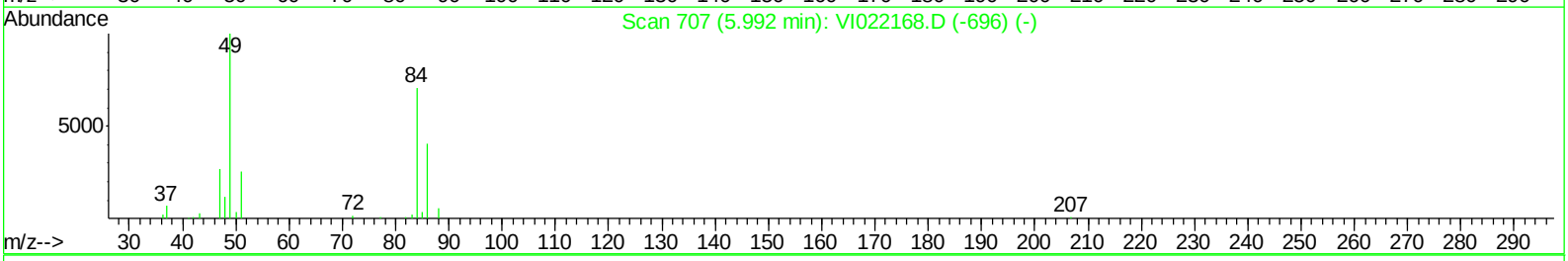
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(14) Methylene chloride (T)

5.980min (-0.012) 6.43ug/L

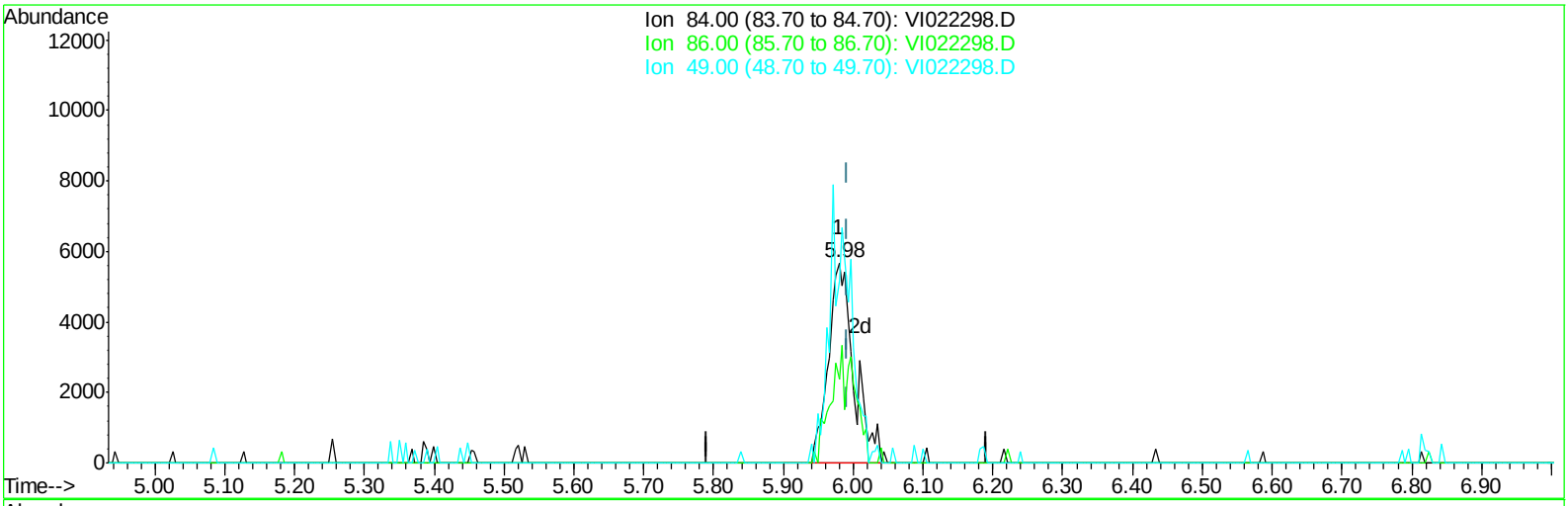
response 12164

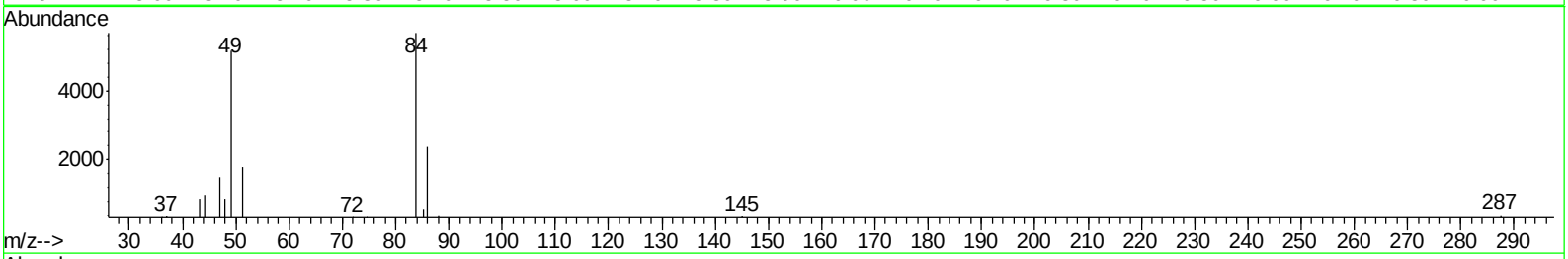
Ion	Exp%	Act%
84.00	100	100
86.00	57.70	41.88
49.00	143.60	91.17#
0.00	0.00	0.00

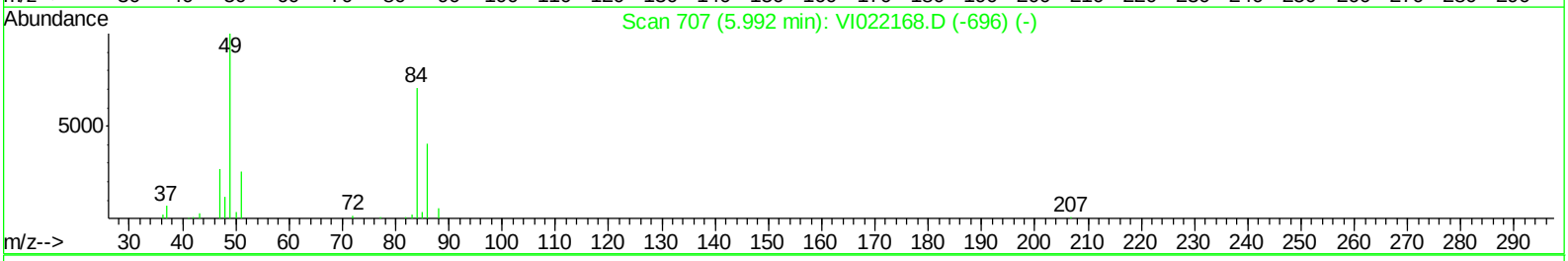
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(14) Methylene chloride (T)

5.980min (-0.012) 7.86ug/L m

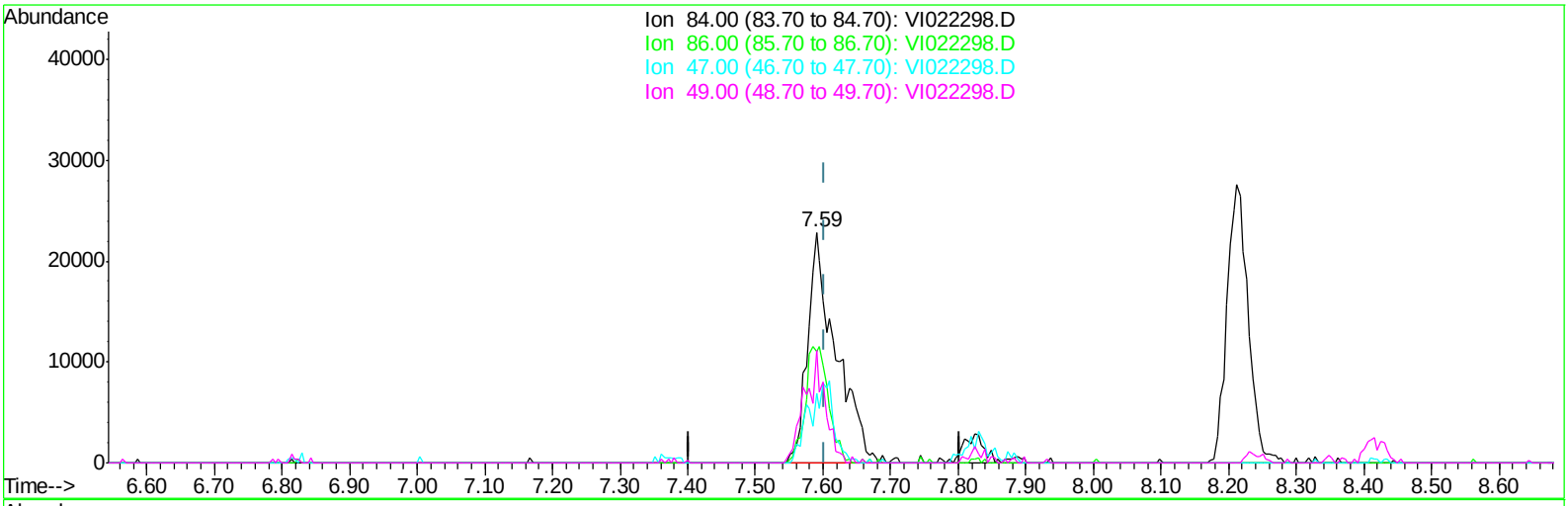
response 14868

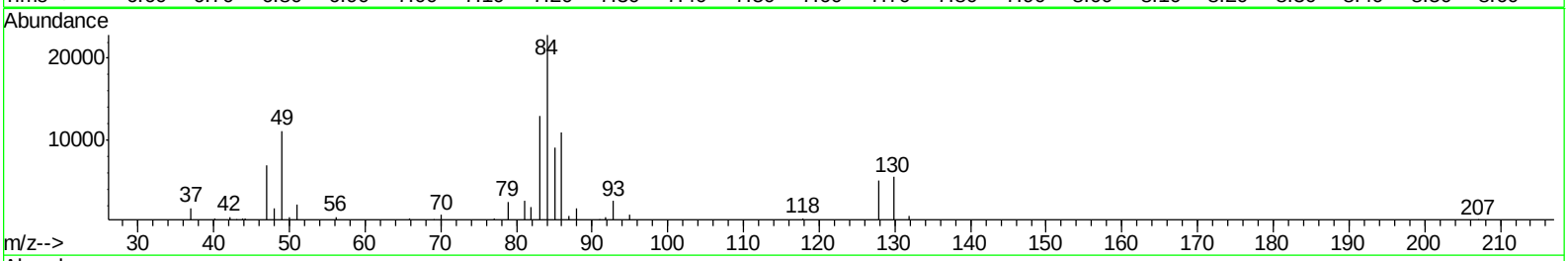
Ion	Exp%	Act%
84.00	100	100
86.00	57.70	41.88
49.00	143.60	91.17#
0.00	0.00	0.00

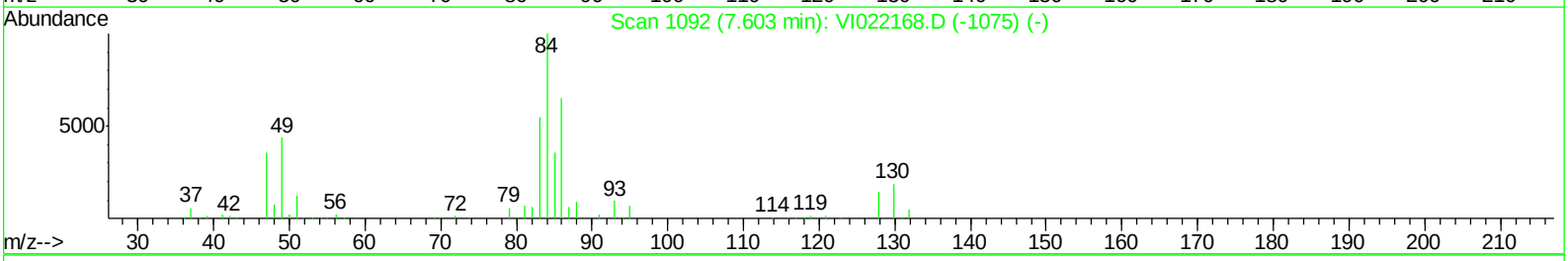
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(22) Chloroform-d (S)

7.590min (-0.012) 6.37ug/L

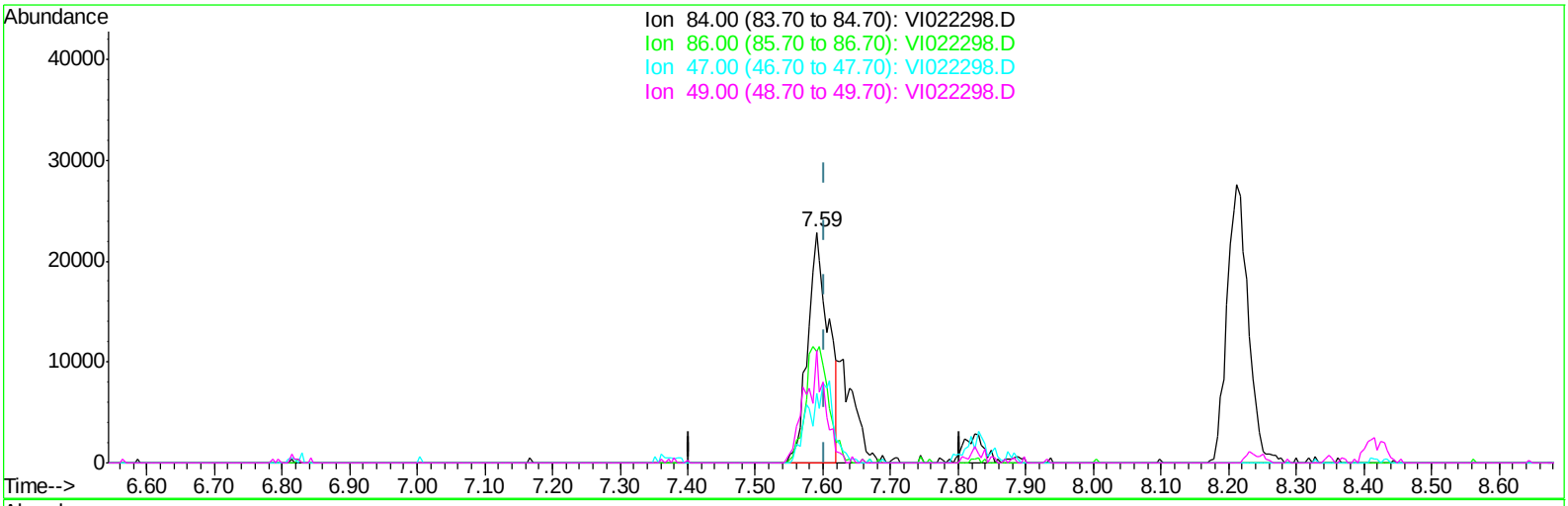
response 65838

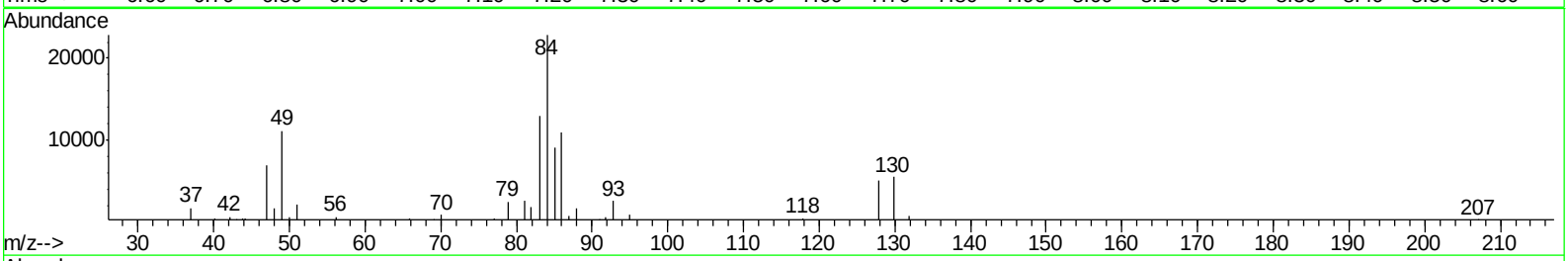
Ion	Exp%	Act%
84.00	100	100
86.00	55.90	41.47
47.00	40.10	21.14#
49.00	52.50	35.30#

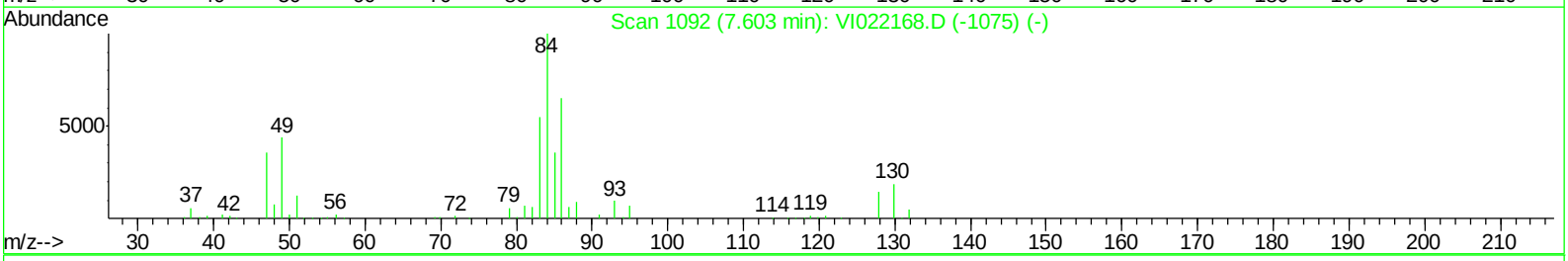
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(22) Chloroform-d (S)

7.590min (-0.012) 4.74ug/L m

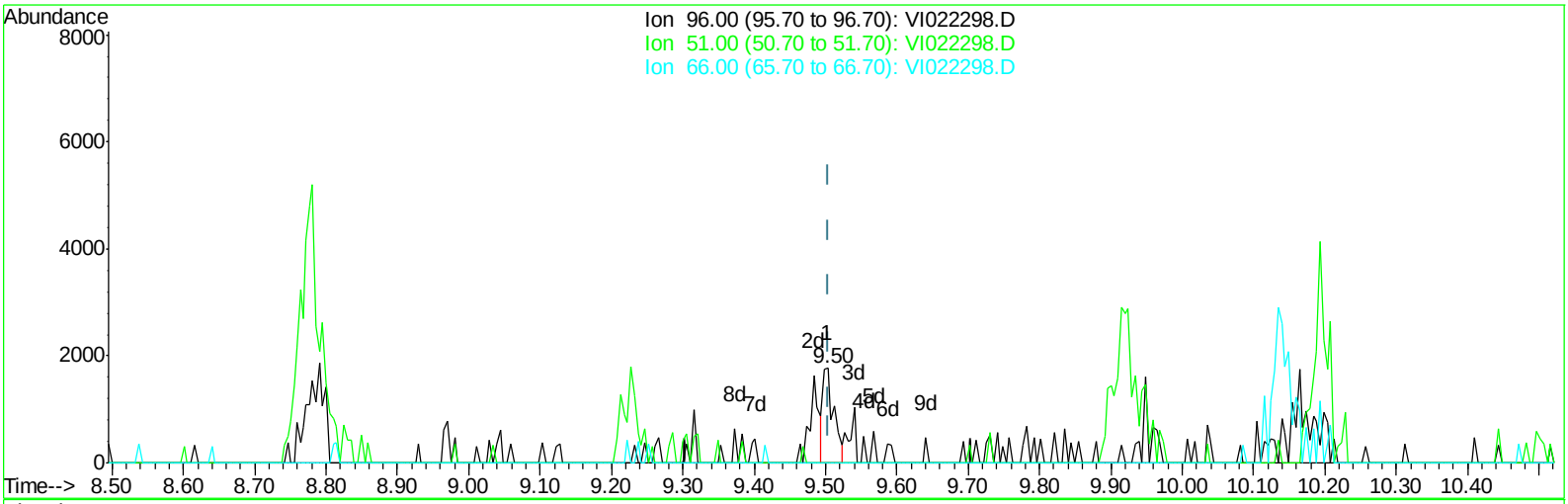
response 48936

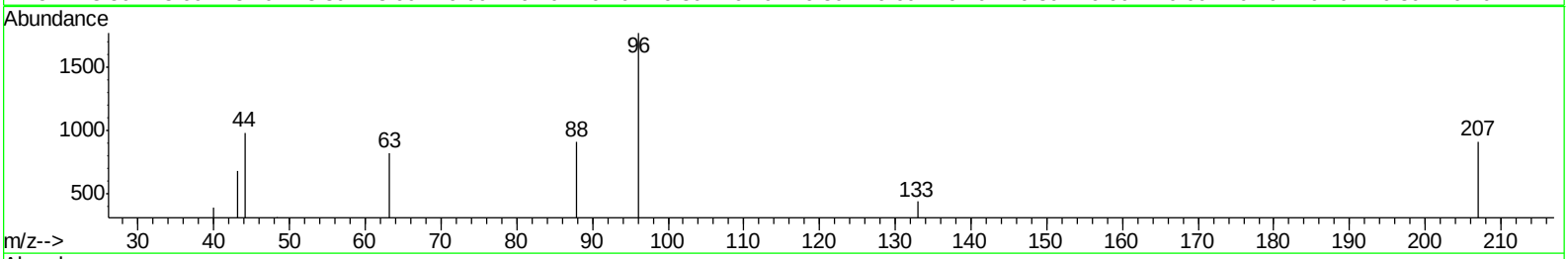
Ion	Exp%	Act%
84.00	100	100
86.00	55.90	55.79
47.00	40.10	28.44
49.00	52.50	47.49

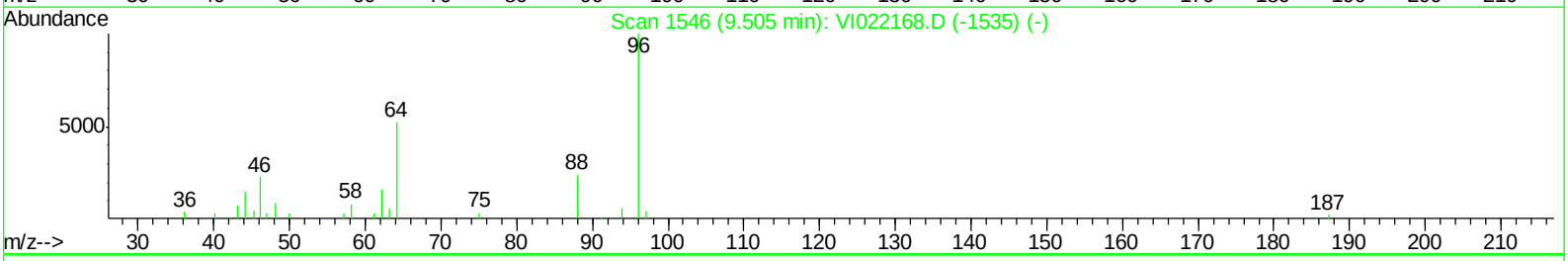
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(28) 1,4-Dioxane-d8 (S)

9.503min (-0.002) 51.07ug/L

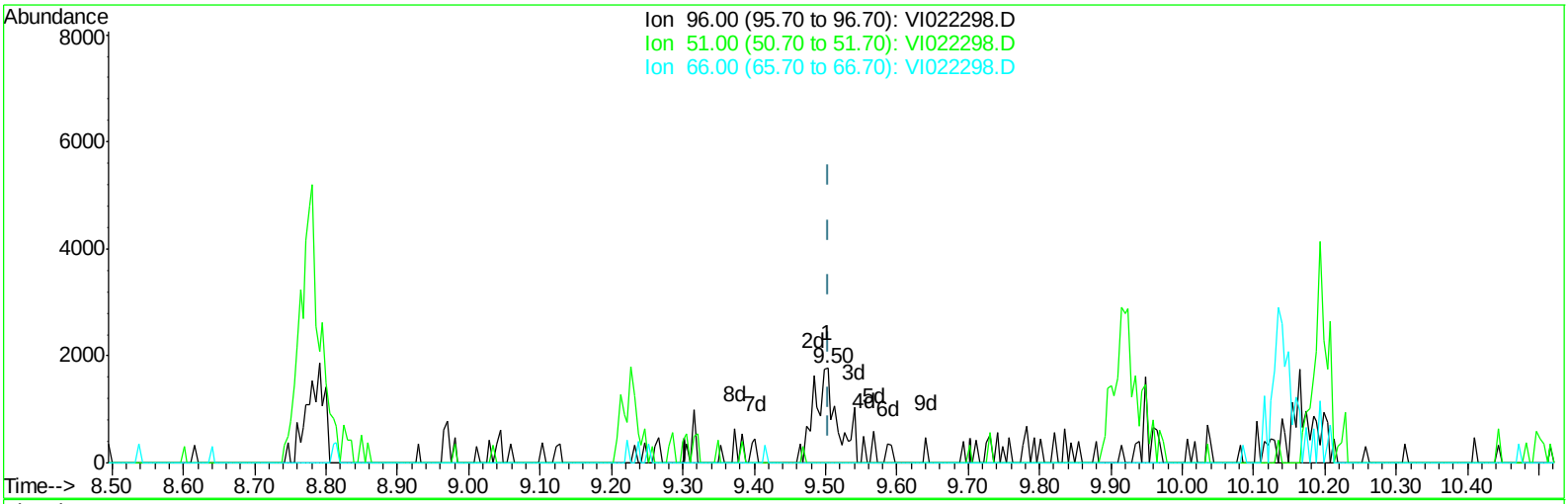
response 1839

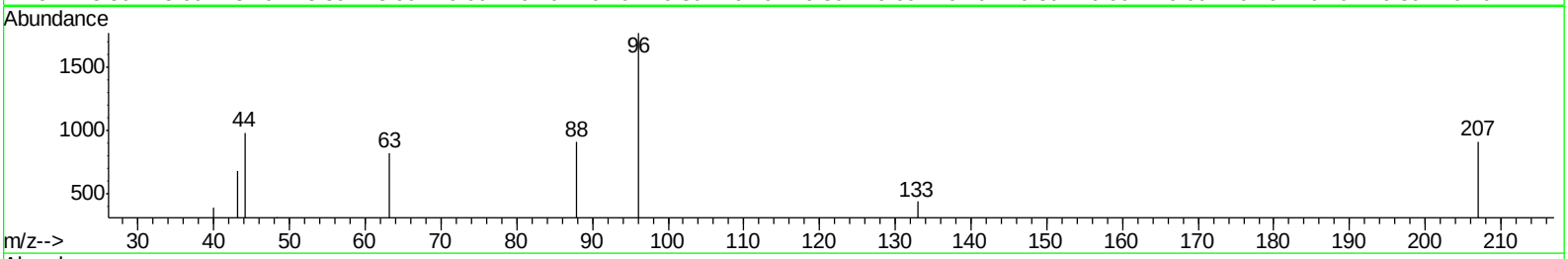
Ion	Exp%	Act%
96.00	100	100
51.00	0.00	0.00
66.00	0.00	0.00
0.00	0.00	0.00

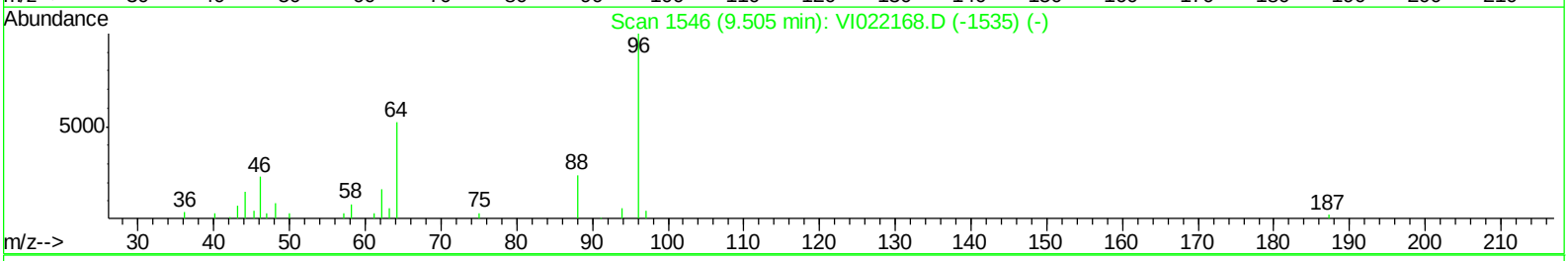
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(28) 1,4-Dioxane-d8 (S)

9.503min (-0.002) 124.77ug/L m

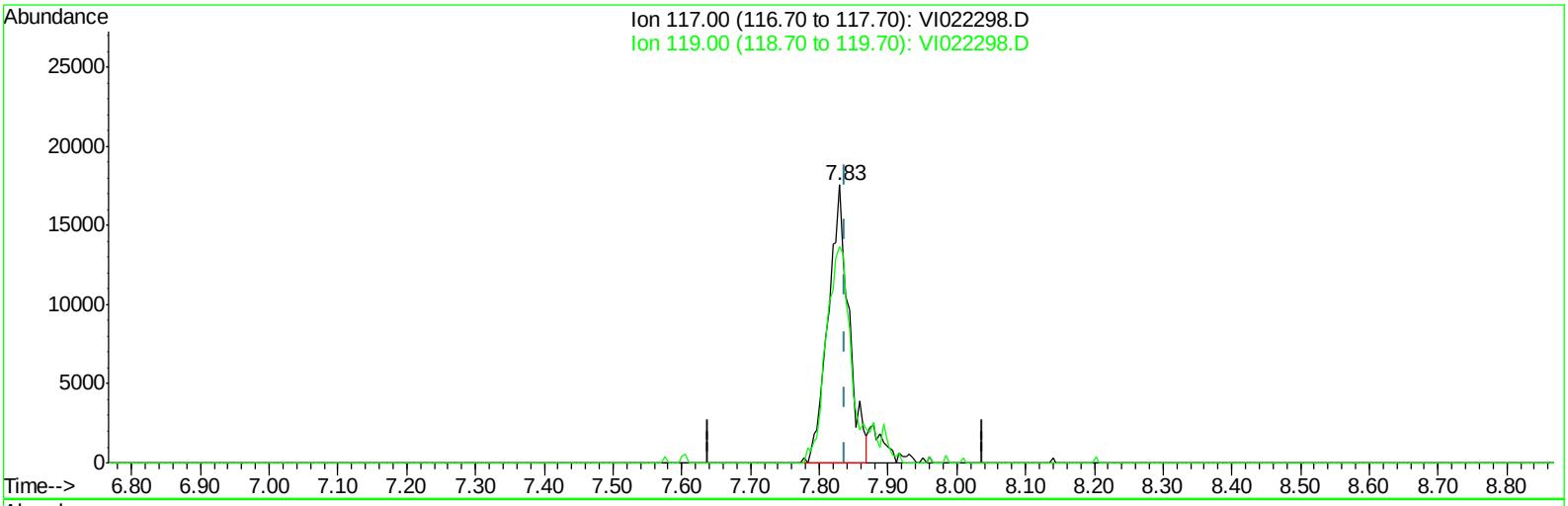
response 4493

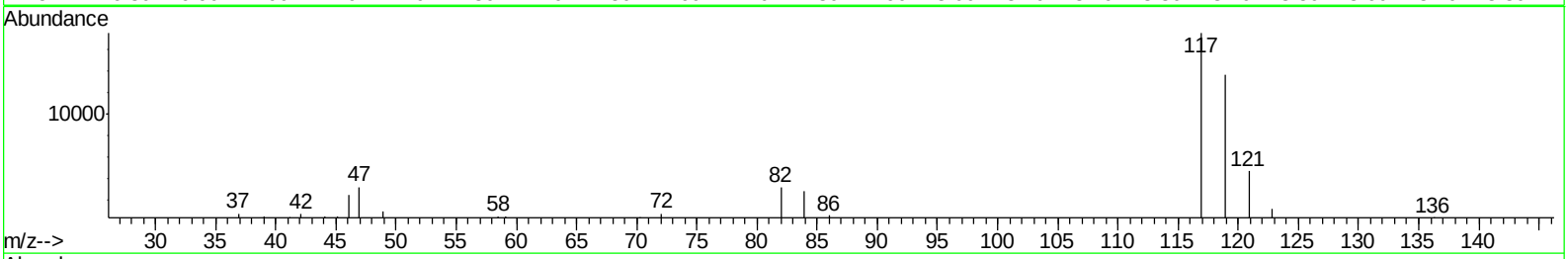
Ion	Exp%	Act%
96.00	100	100
51.00	0.00	0.00
66.00	0.00	0.00
0.00	0.00	0.00

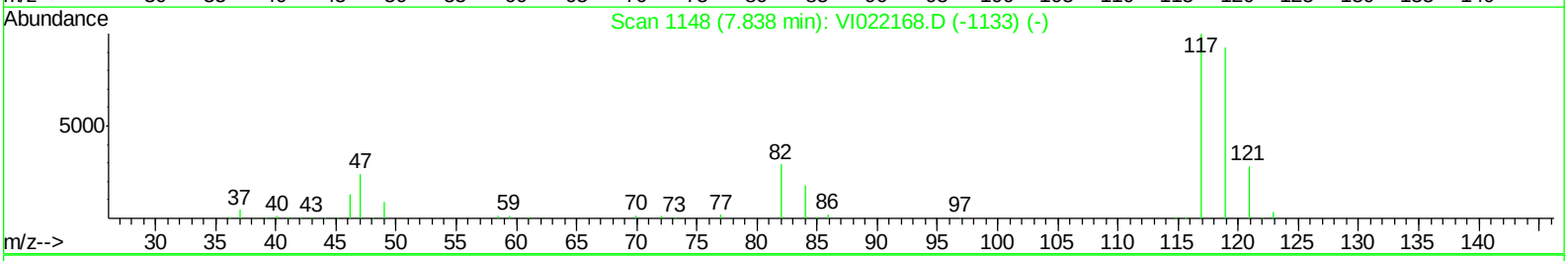
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(32) Carbon tetrachloride (T)

7.829min (-0.009) 4.97ug/L

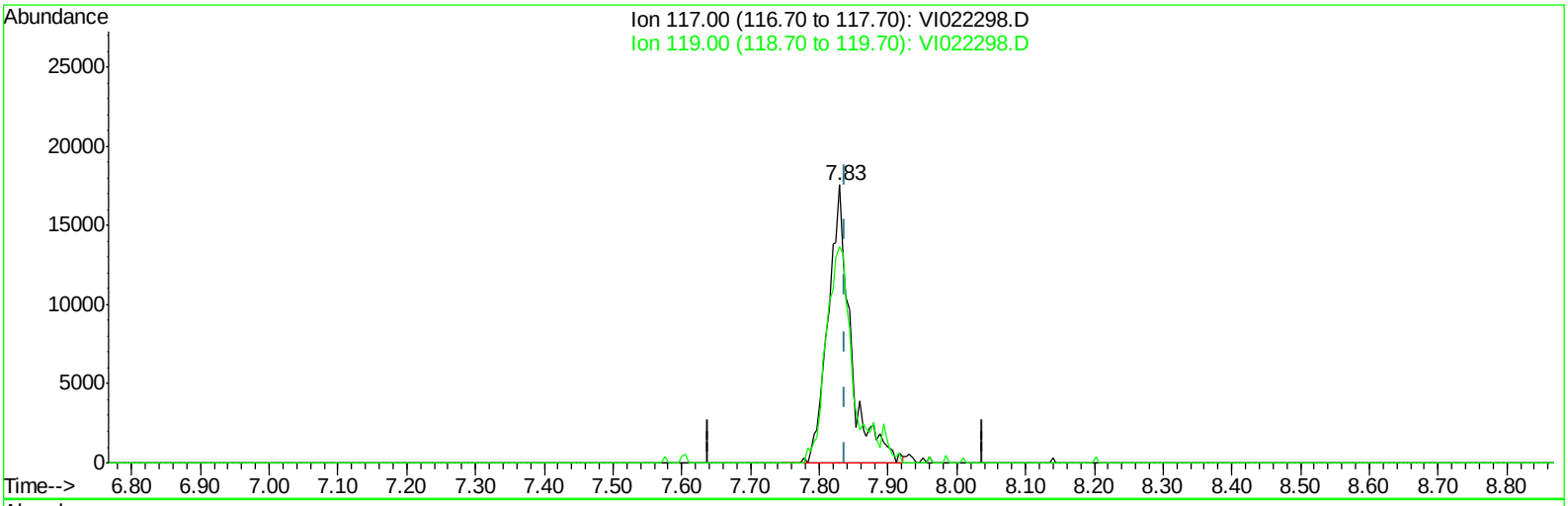
response 36302

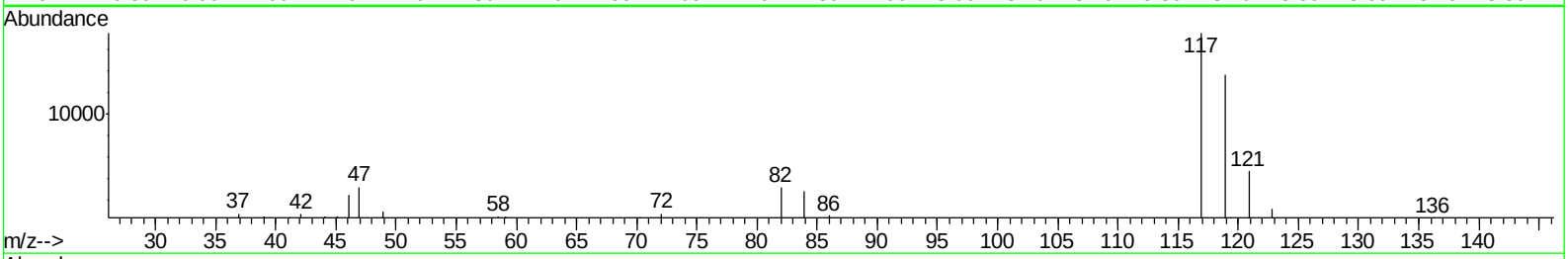
Ion	Exp%	Act%
117.00	100	100
119.00	91.10	98.29
0.00	0.00	0.00
0.00	0.00	0.00

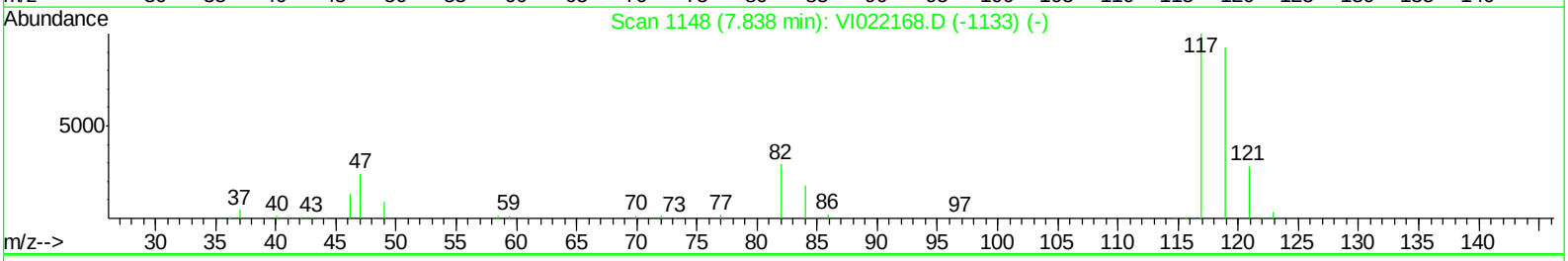
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(32) Carbon tetrachloride (T)

7.829min (-0.009) 5.46ug/L m

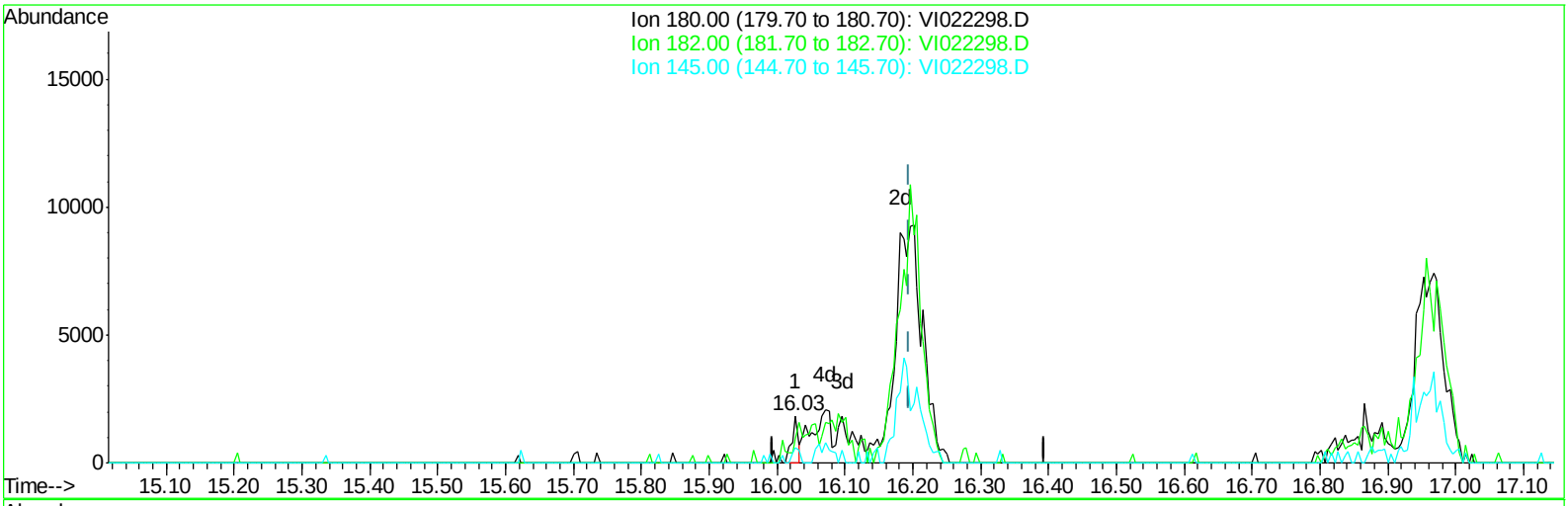
response 39878

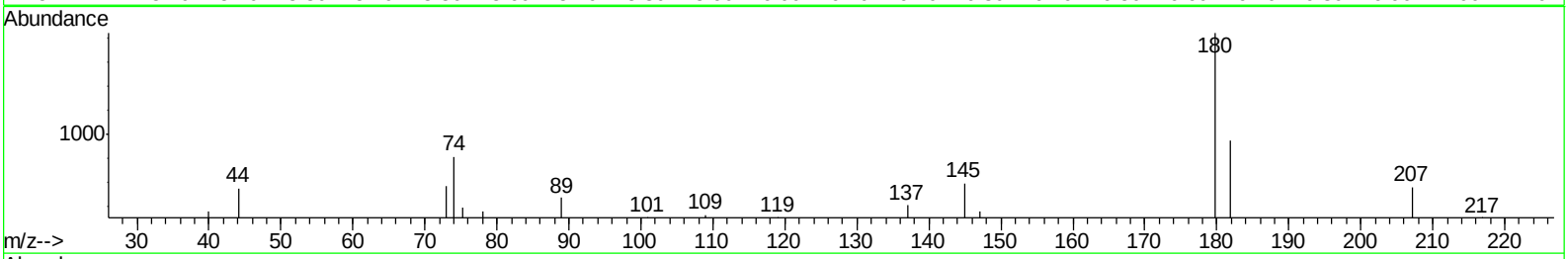
Ion	Exp%	Act%
117.00	100	100
119.00	91.10	89.48
0.00	0.00	0.00
0.00	0.00	0.00

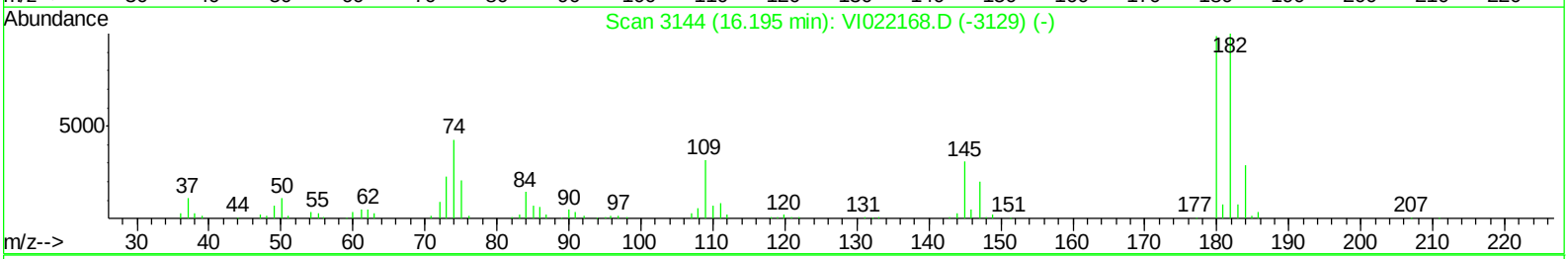
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(68) 1,2,4-trichlorobenzene (T)

16.027min (-0.167) 0.25ug/L

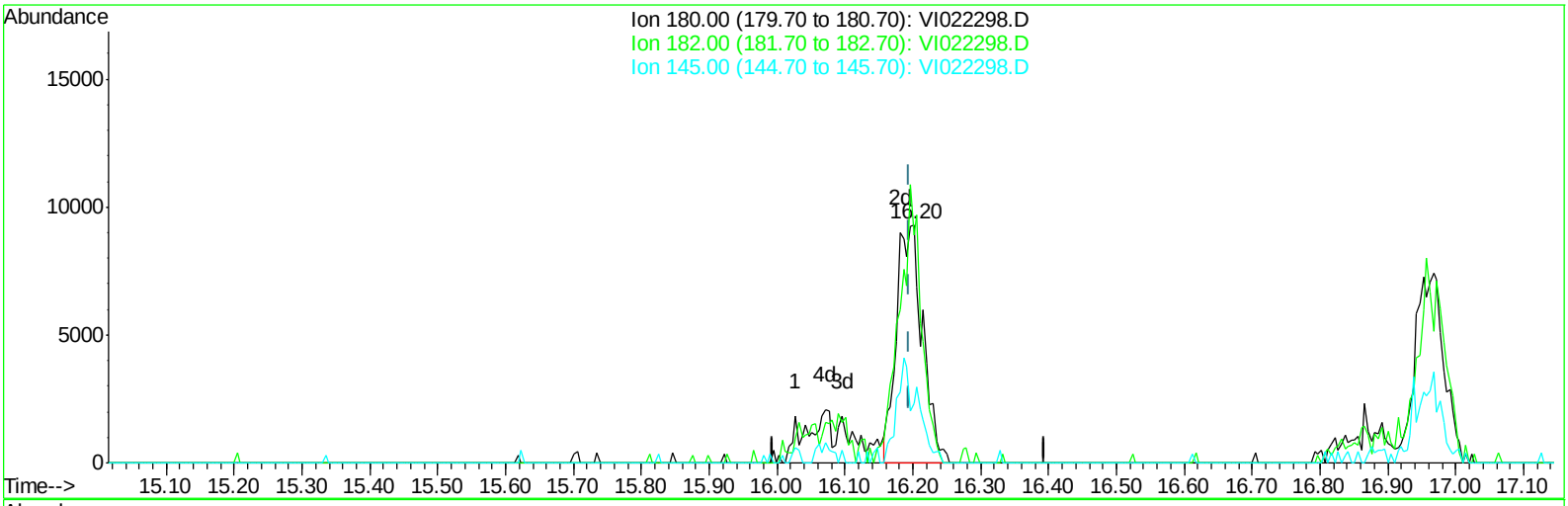
response 1166

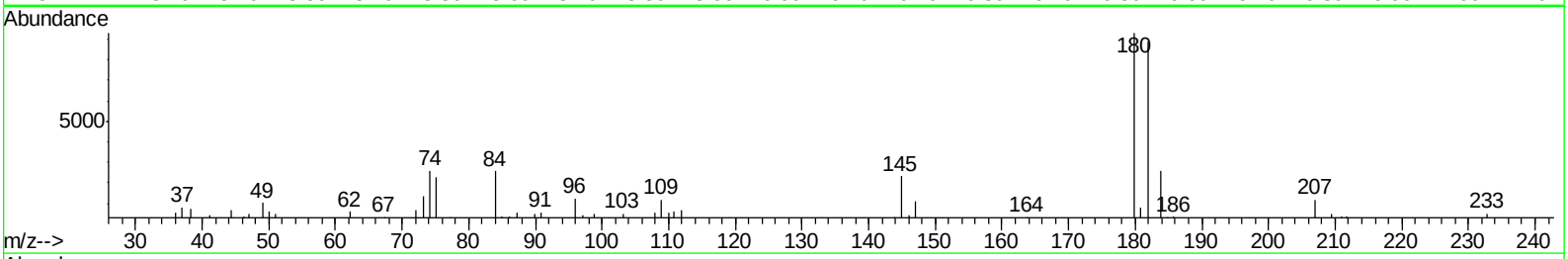
Ion	Exp%	Act%
180.00	100	100
182.00	96.70	83.10
145.00	33.30	36.45
0.00	0.00	0.00

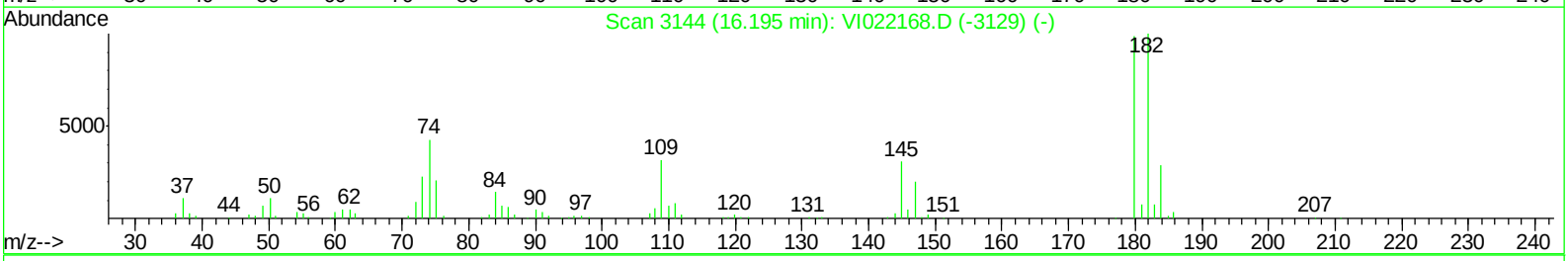
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:08:27 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022298.D

(68) 1,2,4-trichlorobenzene (T)

16.201min (+0.007) 5.27ug/L m

response 24825

Ion	Exp%	Act%
180.00	100	100
182.00	96.70	3.90#
145.00	33.30	1.71#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:20:09 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Difluorobenzene	8.77	114	566295	50.00	ug/L		0.00
30) Chlorobenzene-d5	11.67	117	585666	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	13.98	152	285527	50.00	ug/L		0.00
System Monitoring Compounds							
4) Vinyl Chloride-d3	3.97	65	15683m	3.98	ug/L		-0.03
7) Chloroethane-d5	4.58	69	5580m	5.28	ug/L		0.00
10) 1,1-Dichloroethene-d2	5.36	63	21638	5.26	ug/L		-0.02
22) Chloroform-d	7.59	84	48936m	4.74	ug/L		-0.01
24) 2-Butanone-d5	7.86	46	12893	7.40	ug/L		0.00
26) 1,2-Dichloroethane-d4	8.35	65	23849	4.72	ug/L		-0.02
28) 1,4-Dioxane-d8	9.50	96	4493m	124.77	ug/L		0.00
34) Benzene-d6	8.21	84	59322	3.31	ug/L		0.00
38) 1,2-Dichloropropane-d6	9.23	67	18362	3.36	ug/L		0.00
42) Toluene-d8	10.13	98	56181	3.69	ug/L		-0.02
45) trans-1,3-Dichloropropene-	10.54	79	7150	3.53	ug/L		0.00
51) 2-Hexanone-d5	11.26	63	14157	7.88	ug/L		0.00
59) 1,1,2,2-Tetrachloroethane-	12.96	84	26122	4.00	ug/L		0.00
65) 1,2-Dichlorobenzene-d4	14.45	152	24806	4.57	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.57	85	28704m	5.87	ug/L		
3) Chloromethane	3.85	50	20916m	4.09	ug/L		
5) Vinyl chloride	3.99	62	23722	5.46	ug/L		94
6) Bromomethane	4.44	94	12264m	7.02	ug/L		
8) Chloroethane	4.60	64	3248	4.19	ug/L	#	44
9) Trichlorofluoromethane	4.78	101	21088m	6.99	ug/L		
11) 1,1-Dichloroethene	5.37	96	9217	5.18	ug/L		76
12) 1,1,2-Trichlorotrifluoroet	5.40	101	11119	5.77	ug/L	#	69
13) Carbon disulfide	5.45	76	32948	5.75	ug/L	#	85
14) Methylene chloride	5.98	84	14868m	7.86	ug/L		
15) Acetone	6.01	43	8391	10.35	ug/L		86
16) Methyl Acetate	6.13	43	6751	4.13	ug/L	#	64
17) trans-1,2-Dichloroethene	6.17	96	10471	4.79	ug/L	#	68
18) Methyl tert-butyl Ether	6.24	73	36370	6.03	ug/L	#	90
19) 1,1-Dichloroethane	6.83	63	25935	4.46	ug/L		97
20) cis-1,2-Dichloroethene	7.38	96	16052	4.12	ug/L		89
21) Bromochloromethane	7.59	128	9957	4.84	ug/L		95
23) Chloroform	7.60	83	46856	5.65	ug/L		97
25) 2-Butanone	7.90	43	15436	9.41	ug/L		99
27) 1,2-Dichloroethane	8.42	62	33092	5.95	ug/L	#	94
29) 1,4-Dioxane	9.53	88	5119	135.72	ug/L	#	65
31) Cyclohexane	7.63	56	19387	3.75	ug/L		93
32) Carbon tetrachloride	7.83	117	39878m	5.46	ug/L		
33) 1,1,1-Trichloroethane	7.88	97	38538	5.26	ug/L		97
35) Benzene	8.24	78	70130	4.65	ug/L		100
36) Trichloroethene	8.78	95	43561	6.90	ug/L	#	66
37) Methylcyclohexane	8.81	83	35298	4.77	ug/L		89
39) 1,2-Dichloropropane	9.31	63	17416	4.21	ug/L	#	92
40) Bromodichloromethane	9.33	83	34607	4.77	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022298.D
Acq On : 19 Oct 2008 12:10
Operator : MS
Sample : 2.5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:20:09 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

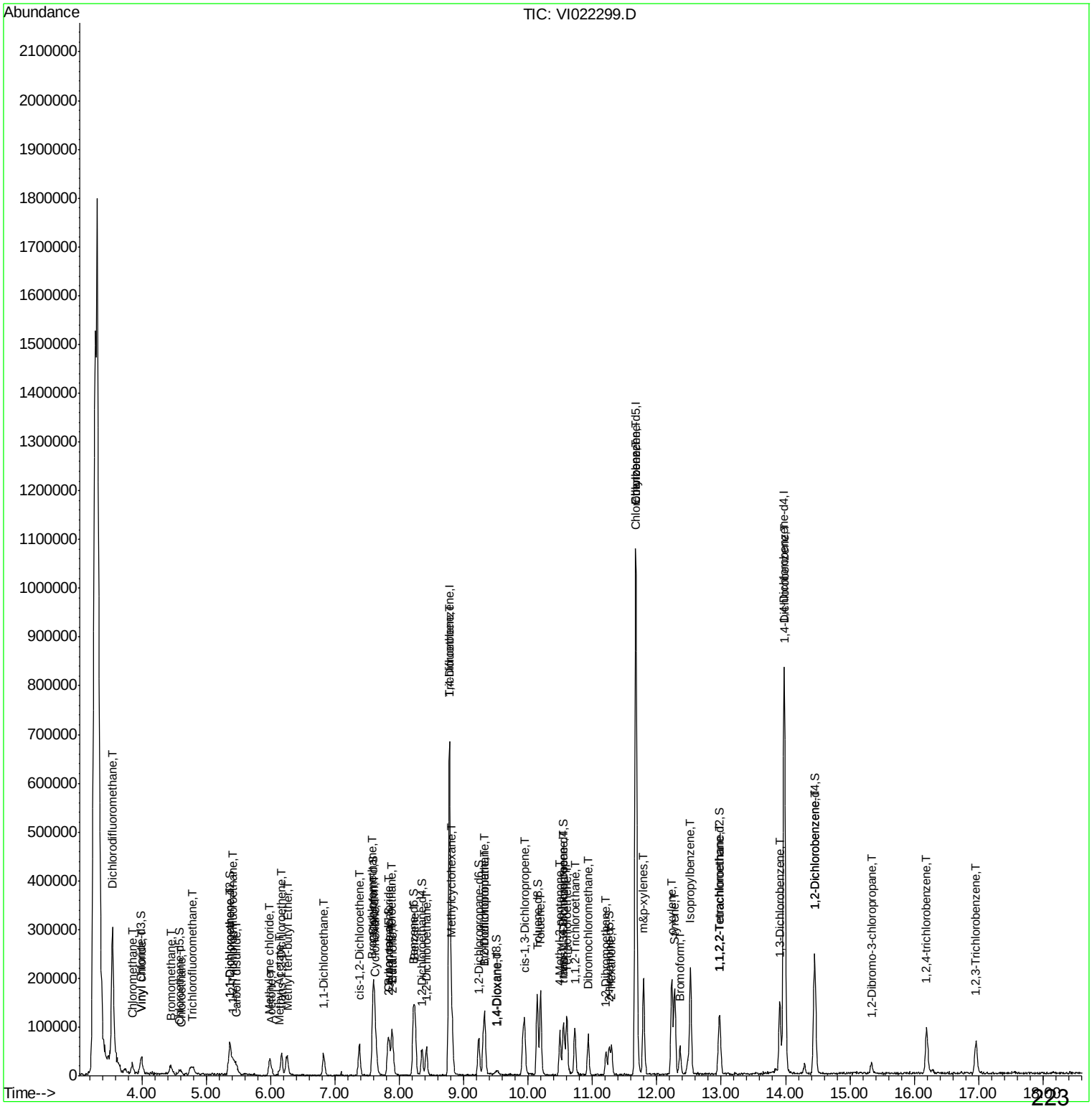
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
41) cis-1,3-Dichloropropene	9.93	75	37296	4.44 ug/L	87
43) Toluene	10.19	91	77956	4.57 ug/L	95
44) 4-Methyl-2-pentanone	10.50	43	40022	7.81 ug/L #	91
46) trans-1,3-Dichloropropene	10.56	75	38586	4.89 ug/L	92
47) Tetrachloroethene	10.60	164	16751	5.43 ug/L #	65
48) 1,1,2-Trichloroethane	10.73	97	18974	4.96 ug/L	87
49) Dibromochloromethane	10.93	129	27880	5.29 ug/L	97
50) 1,2-Dibromoethane	11.21	107	24748	5.22 ug/L #	84
52) 2-Hexanone	11.30	43	37386	9.49 ug/L	94
53) Ethylbenzene	11.66	91	112976	4.97 ug/L	93
54) Chlorobenzene	11.68	112	52815	5.05 ug/L #	79
55) m&p-xylenes	11.80	106	35331	5.27 ug/L	95
56) o-xylene	12.23	106	35899	5.01 ug/L	67
57) Styrene	12.28	104	59455	4.81 ug/L	79
58) Isopropylbenzene	12.52	105	108725	5.59 ug/L	98
60) 1,1,2,2-Tetrachloroethane	12.98	83	30715	5.23 ug/L #	93
62) Bromoform	12.36	173	14271	4.87 ug/L #	90
63) 1,3-Dichlorobenzene	13.92	146	46885	5.56 ug/L	87
64) 1,4-Dichlorobenzene	14.00	146	44758	5.49 ug/L	89
66) 1,2-Dichlorobenzene	14.46	146	42371	5.58 ug/L	95
67) 1,2-Dibromo-3-chloropropan	15.35	75	5777	4.68 ug/L #	75
68) 1,2,4-trichlorobenzene	16.20	180	24825m	5.27 ug/L	
69) 1,2,3-Trichlorobenzene	16.97	180	21194	4.99 ug/L #	56

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

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

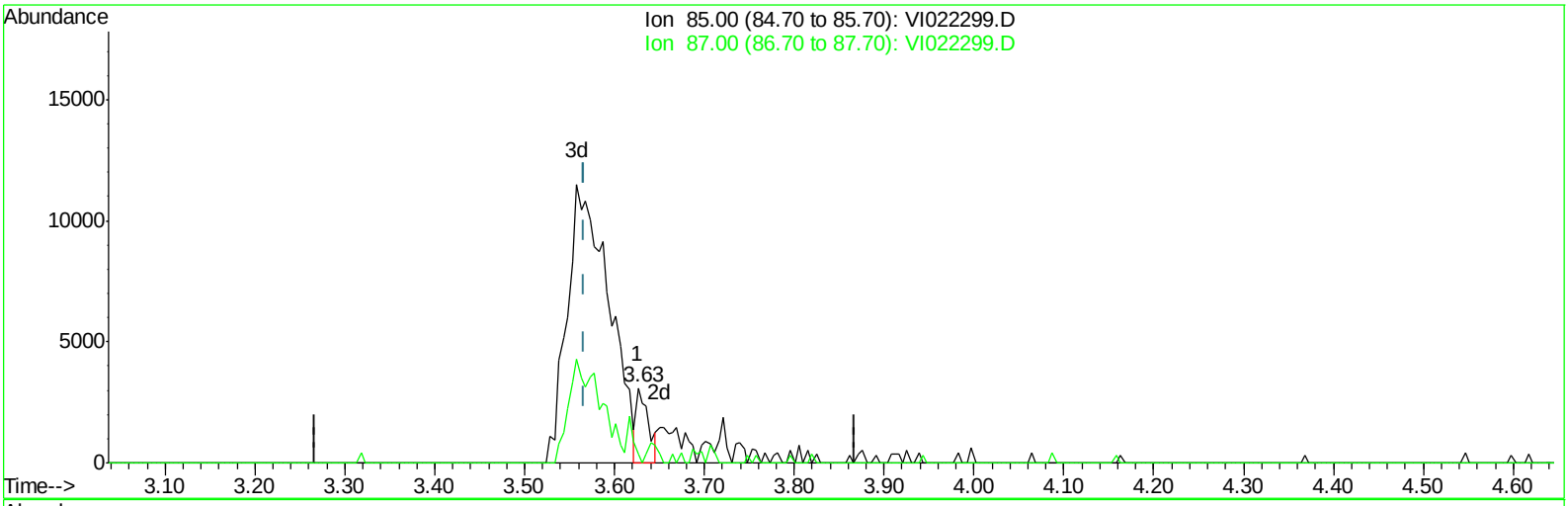
Quant Time: Oct 20 10:16:22 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

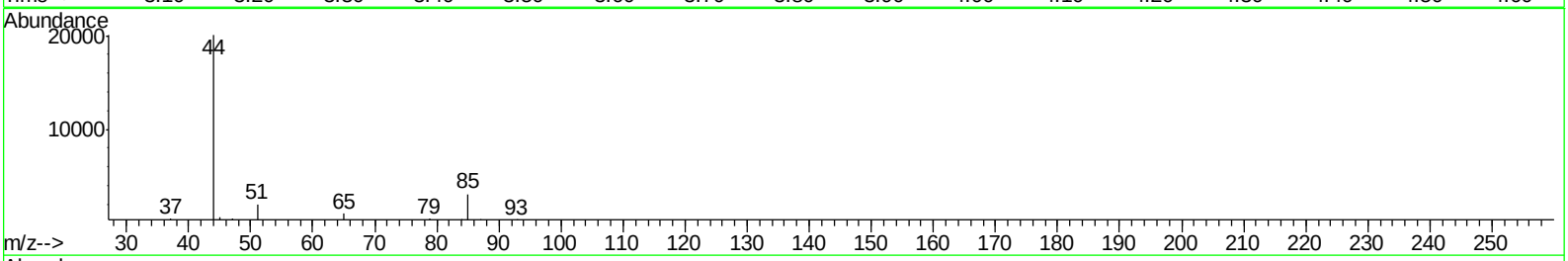


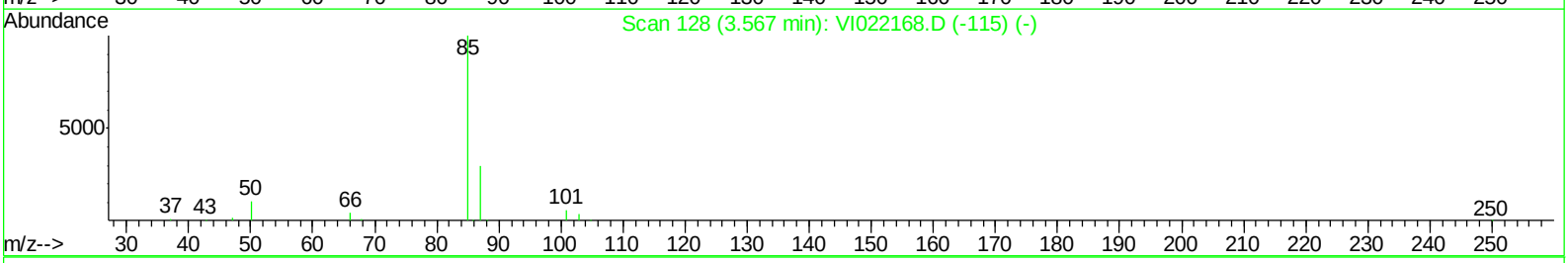
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:13:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022299.D

(2) Dichlorodifluoromethane (T)

3.626min (+0.059) 0.62ug/L

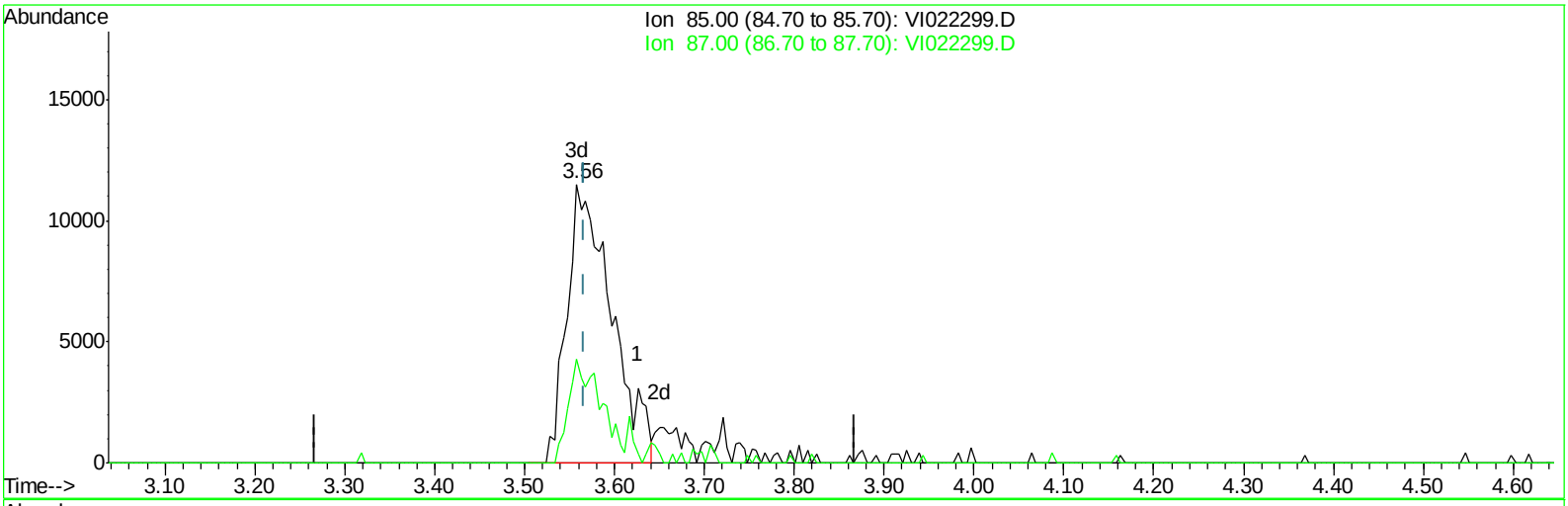
response 2879

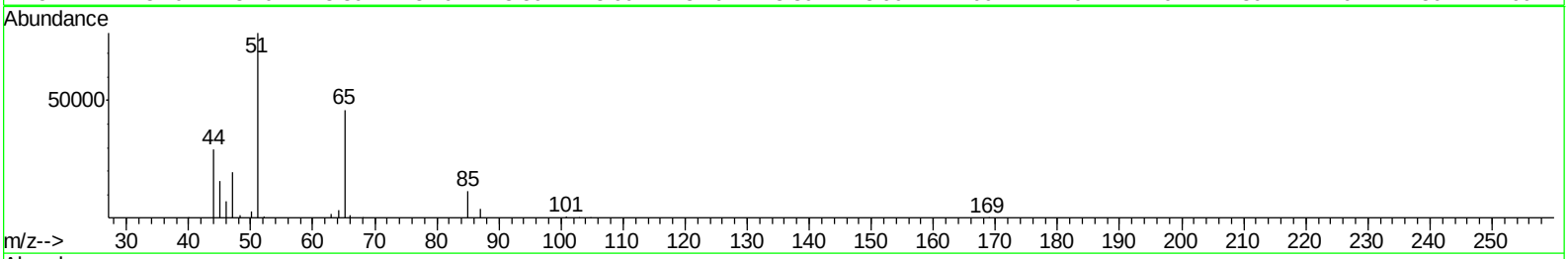
Ion	Exp%	Act%
85.00	100	100
87.00	30.30	32.03
0.00	0.00	0.00
0.00	0.00	0.00

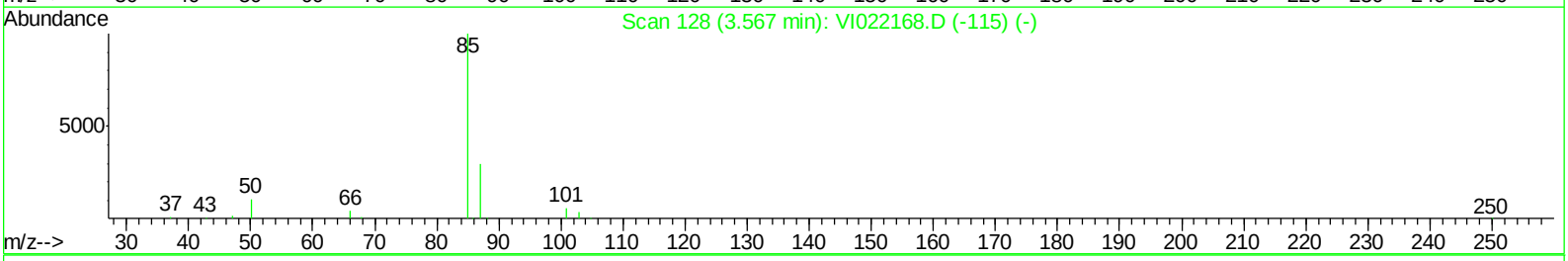
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:13:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022299.D

(2) Dichlorodifluoromethane (T)

3.558min (-0.010) 8.57ug/L m

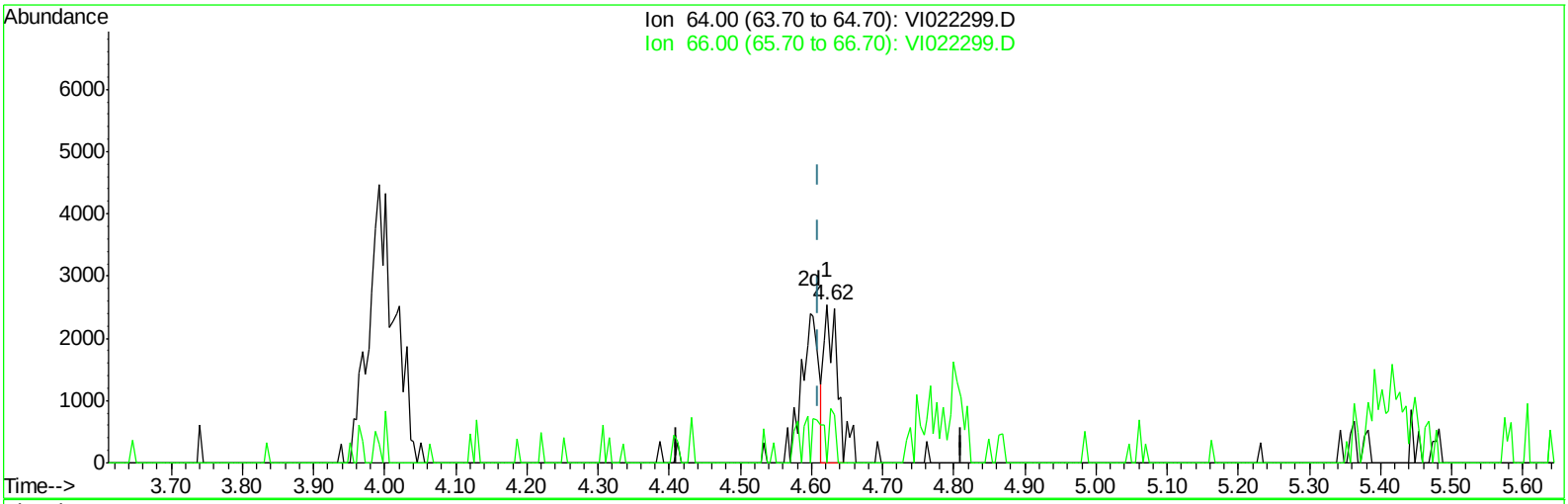
response 39471

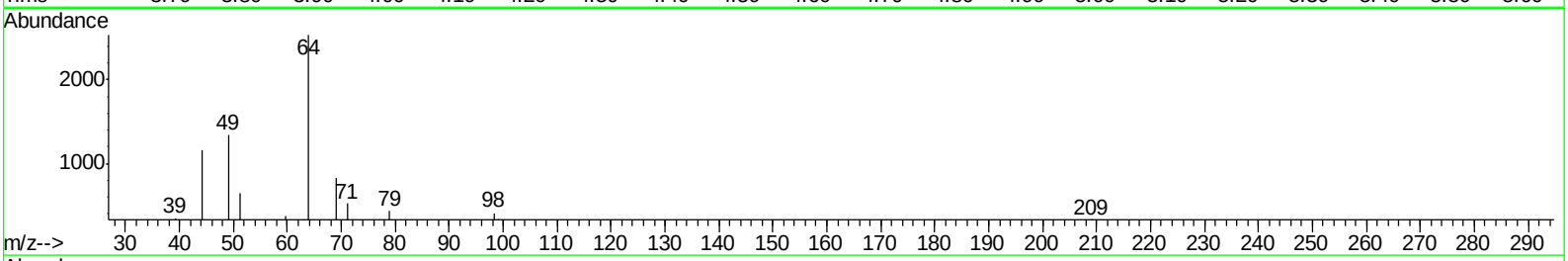
Ion	Exp%	Act%
85.00	100	100
87.00	30.30	2.34#
0.00	0.00	0.00
0.00	0.00	0.00

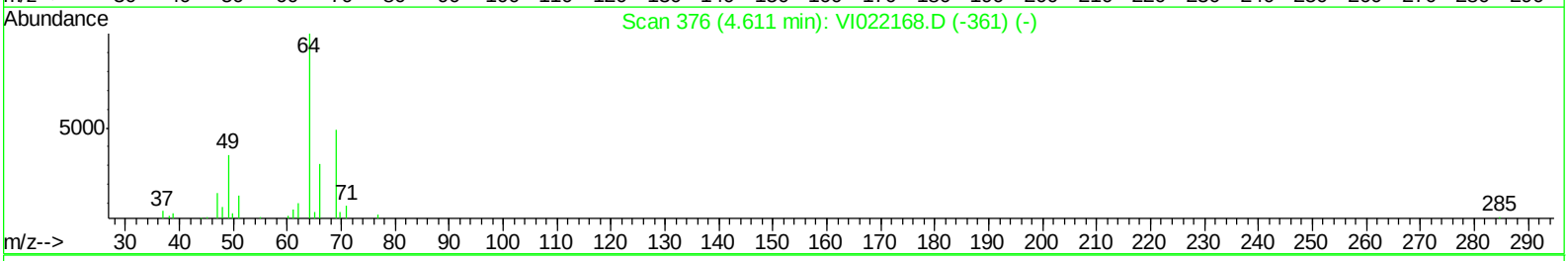
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:13:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022299.D

(8) Chloroethane (T)

4.622min (+0.012) 4.13ug/L

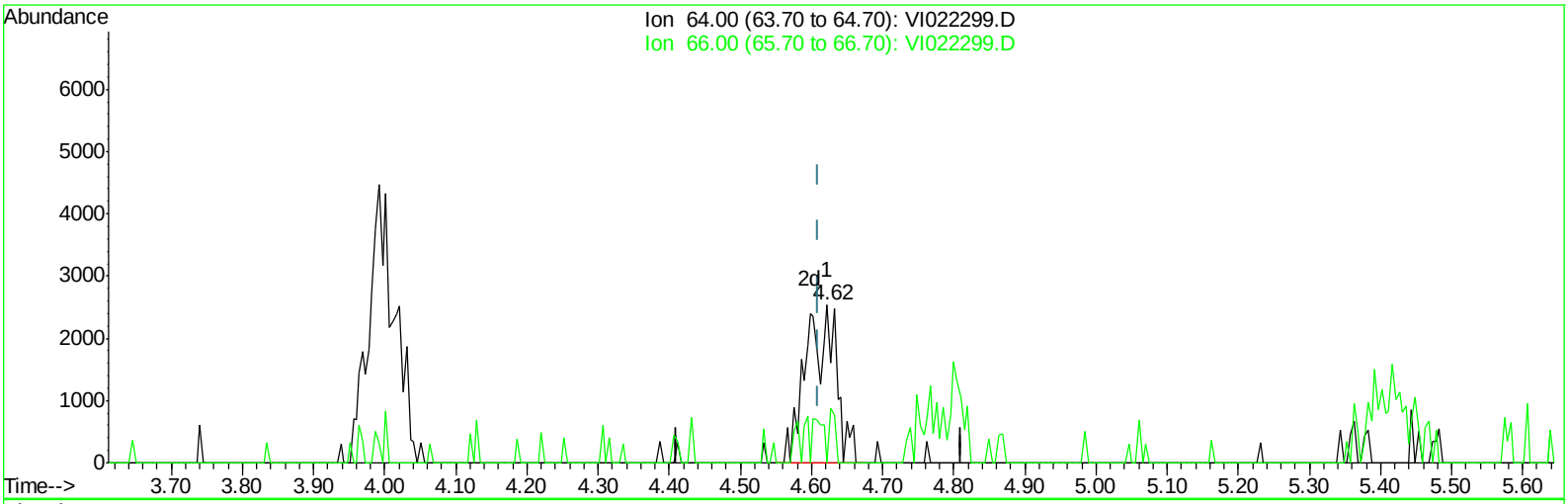
response 3019

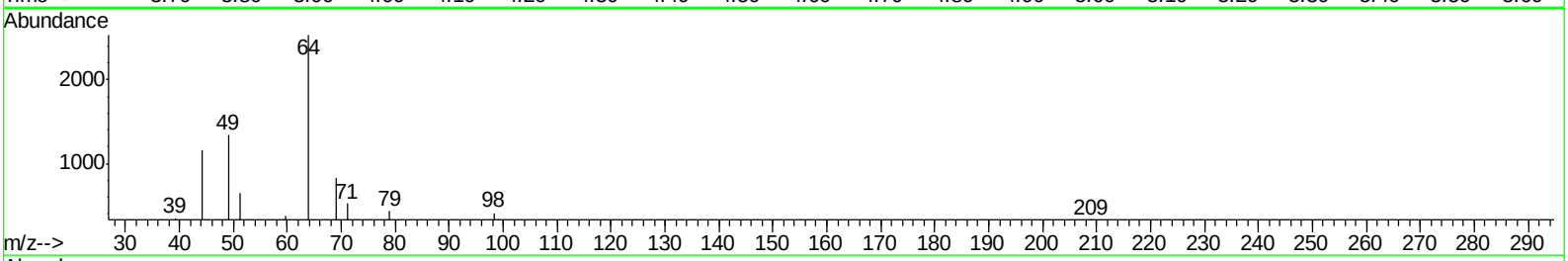
Ion	Exp%	Act%
64.00	100	100
66.00	30.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

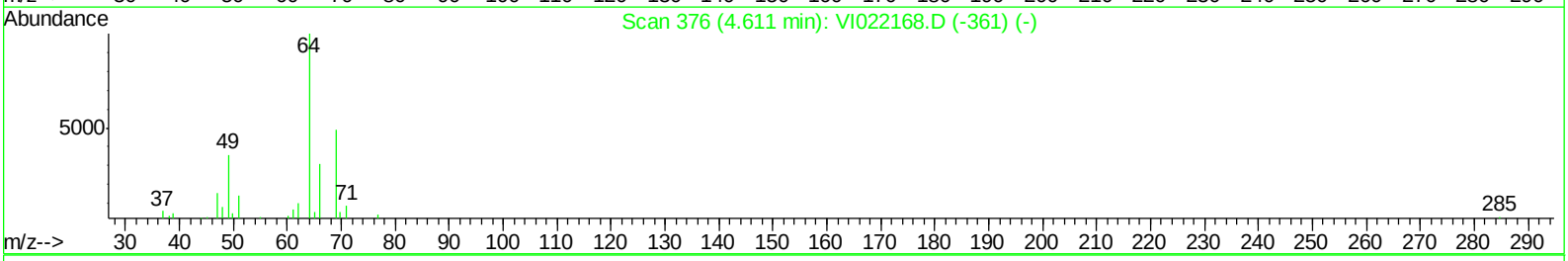
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:13:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022299.D

(8) Chloroethane (T)

4.622min (+0.012) 10.25ug/L m

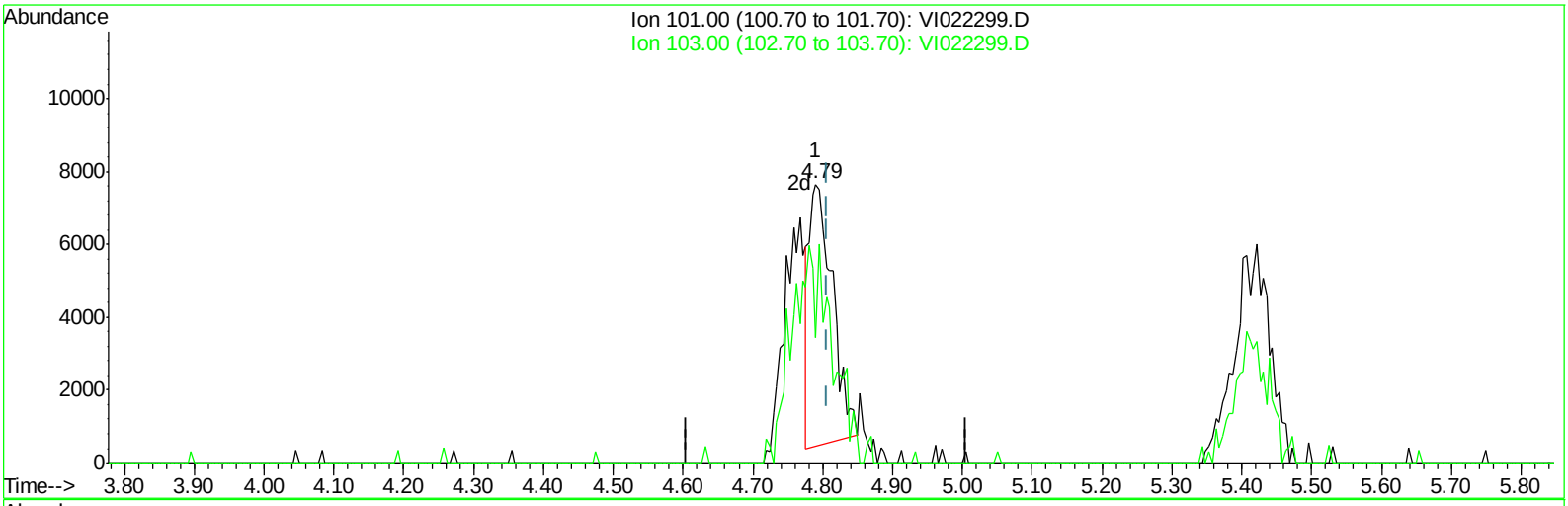
response 7495

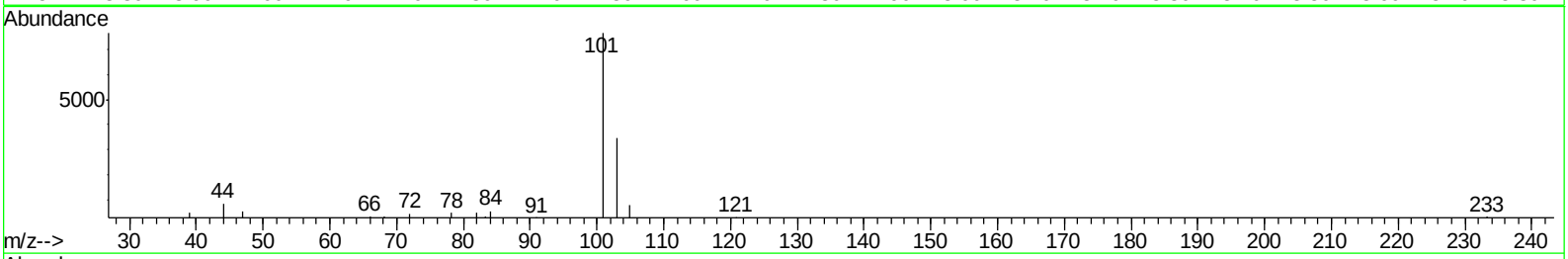
Ion	Exp%	Act%
64.00	100	100
66.00	30.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

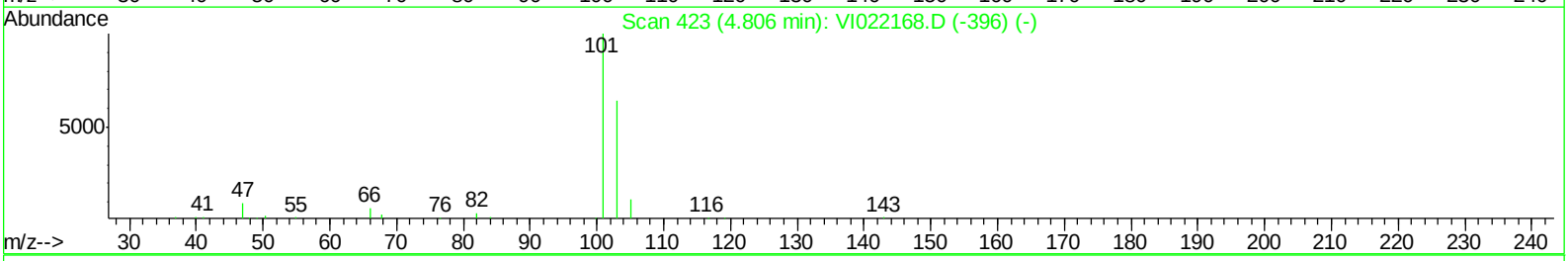
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:13:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022299.D

(9) Trichlorofluoromethane (T)

4.790min (-0.016) 5.74ug/L

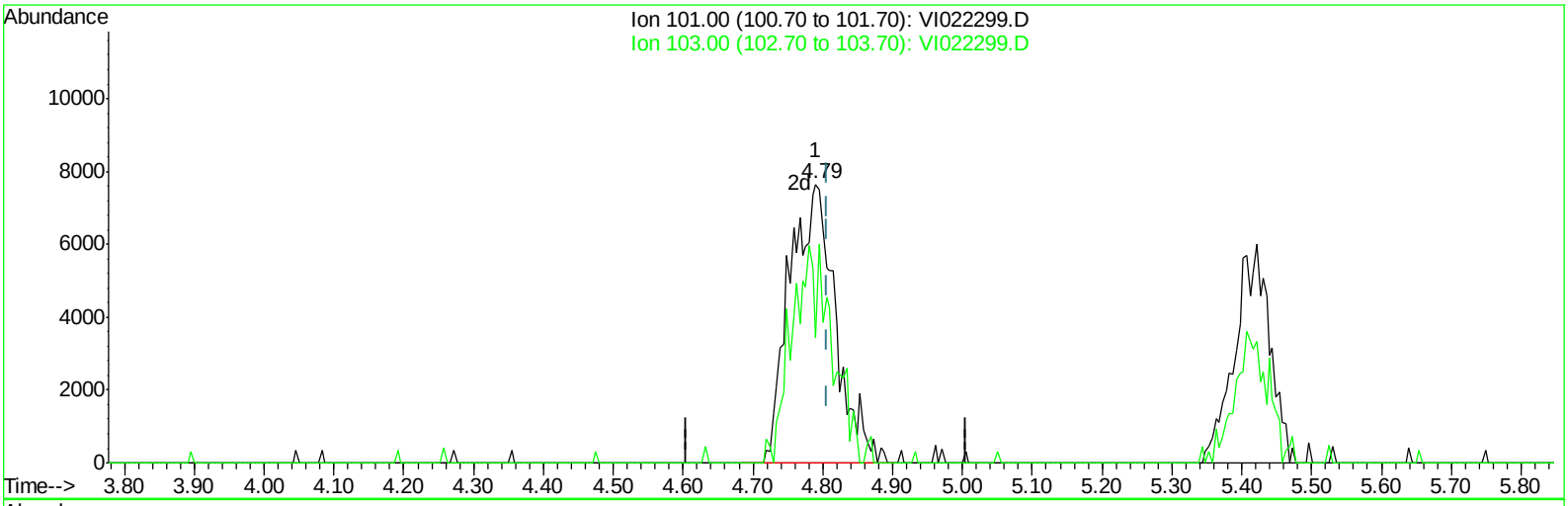
response 16333

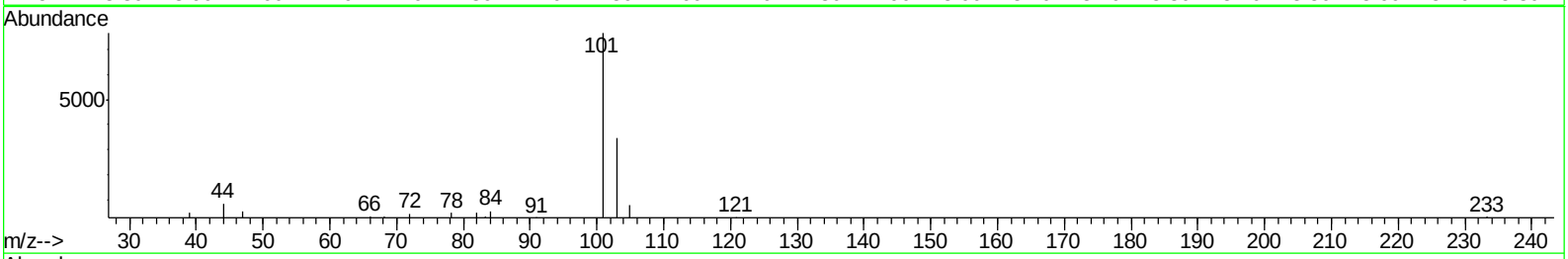
Ion	Exp%	Act%
101.00	100	100
103.00	33.00	16.92#
0.00	0.00	0.00
0.00	0.00	0.00

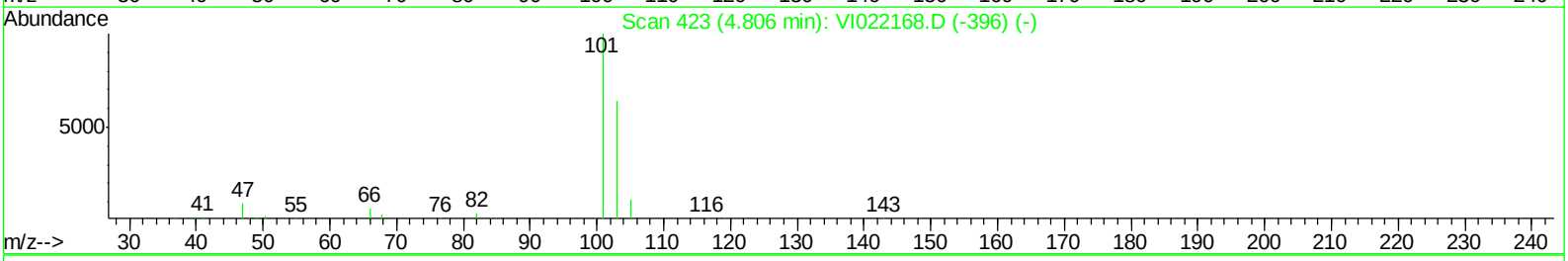
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:13:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022299.D

(9) Trichlorofluoromethane (T)

4.790min (-0.016) 12.12ug/L m

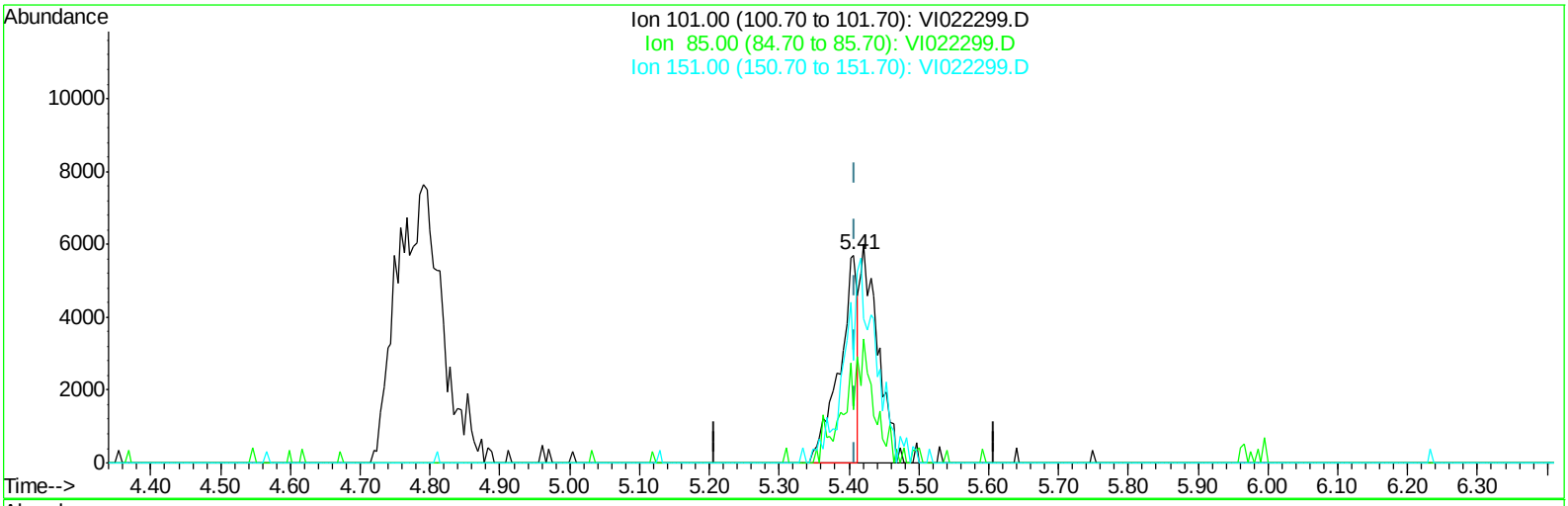
response 34462

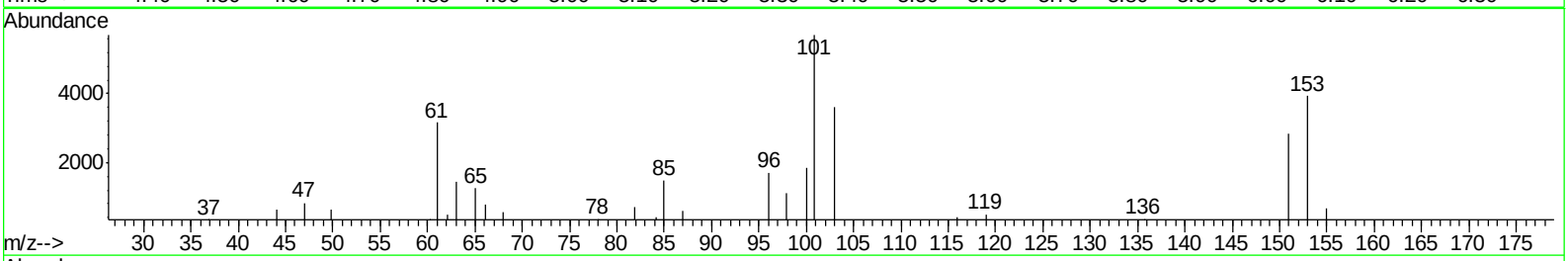
Ion	Exp%	Act%
101.00	100	100
103.00	33.00	8.02#
0.00	0.00	0.00
0.00	0.00	0.00

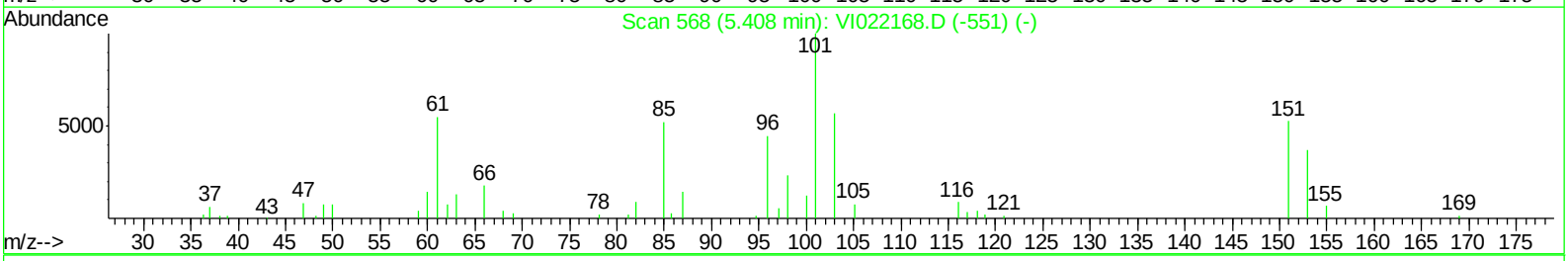
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:13:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022299.D

(12) 1,1,2-Trichlorotrifluoroethane (T)

5.407min (-0.001) 5.69ug/L

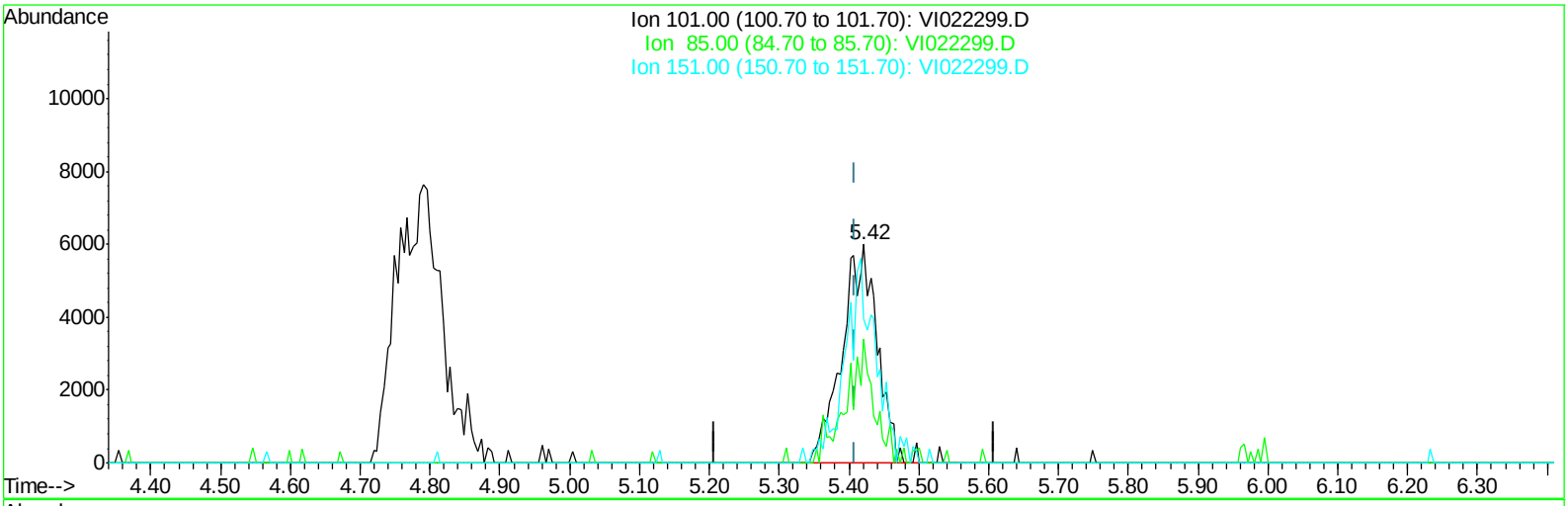
response 10344

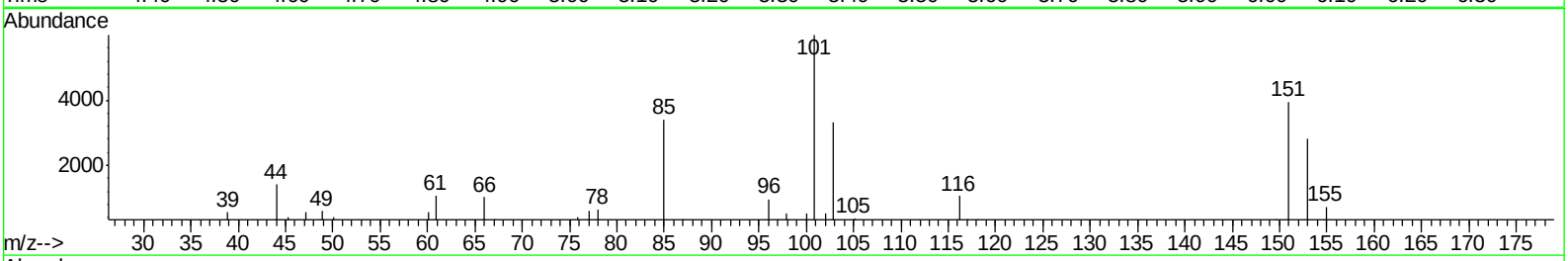
Ion	Exp%	Act%
101.00	100	100
85.00	45.90	81.50#
151.00	68.40	162.93#
0.00	0.00	0.00

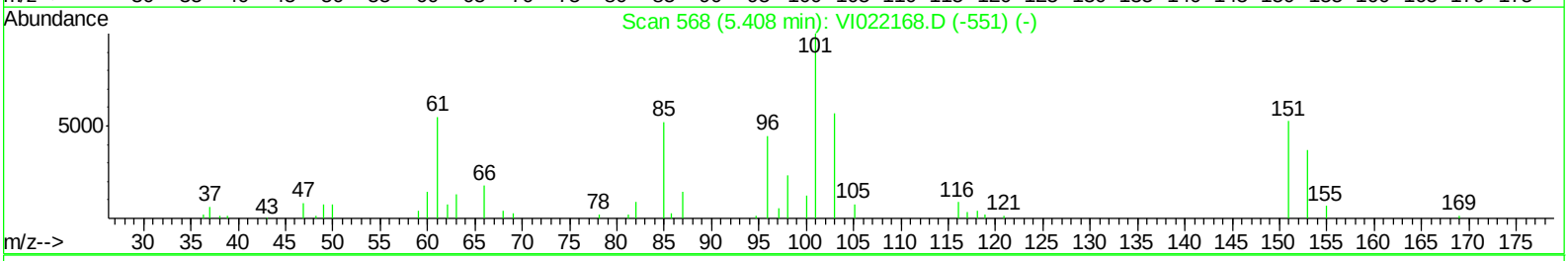
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:13:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022299.D

(12) 1,1,2-Trichlorotrifluoroethane (T)

5.422min (+0.013) 11.63ug/L m

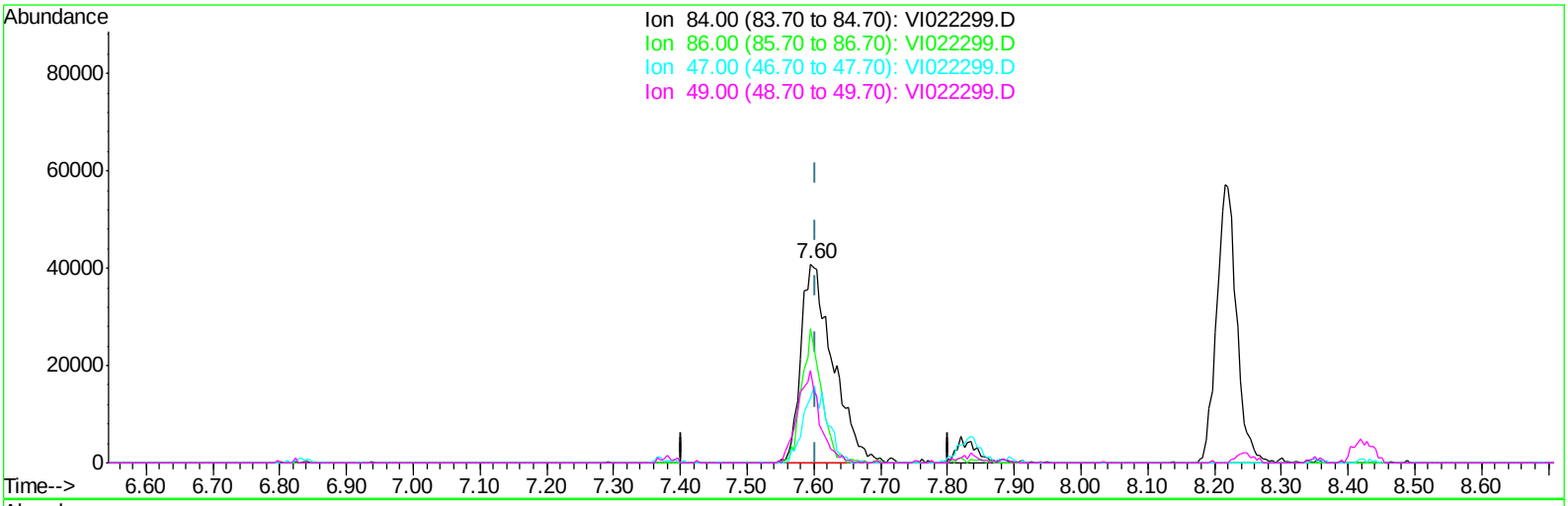
response 21129

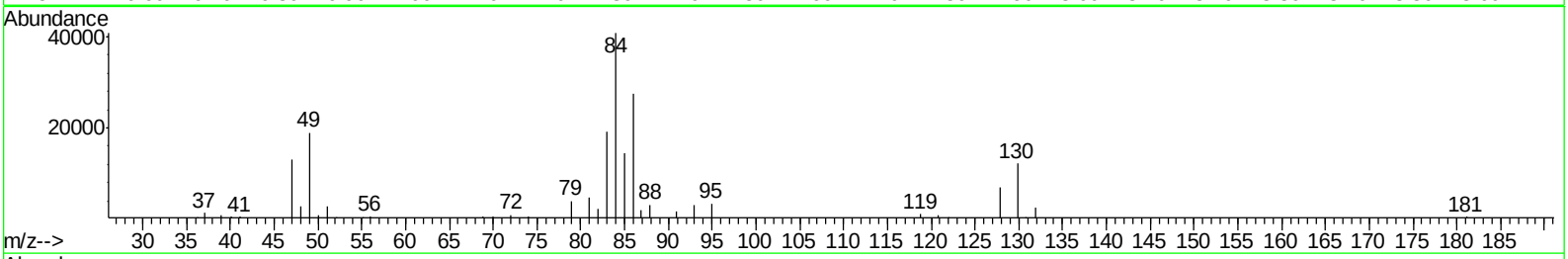
Ion	Exp%	Act%
101.00	100	100
85.00	45.90	39.90
151.00	68.40	79.76
0.00	0.00	0.00

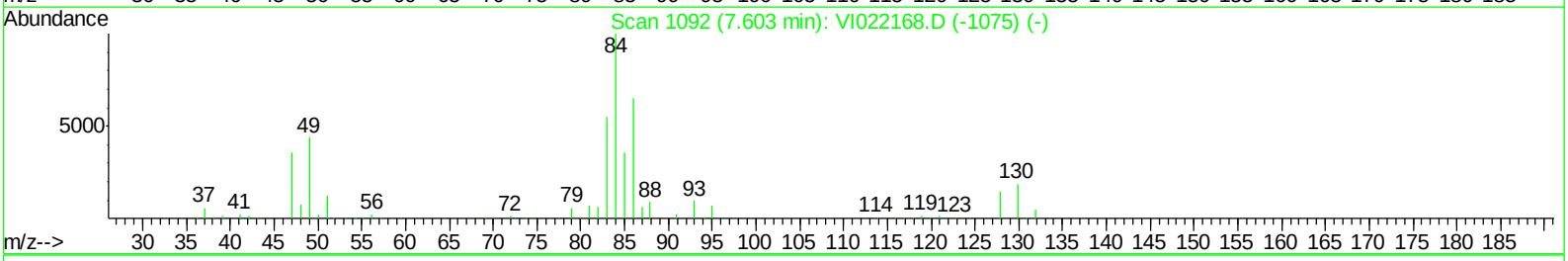
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:13:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022299.D

(22) Chloroform-d (S)

7.595min (-0.008) 14.11ug/L

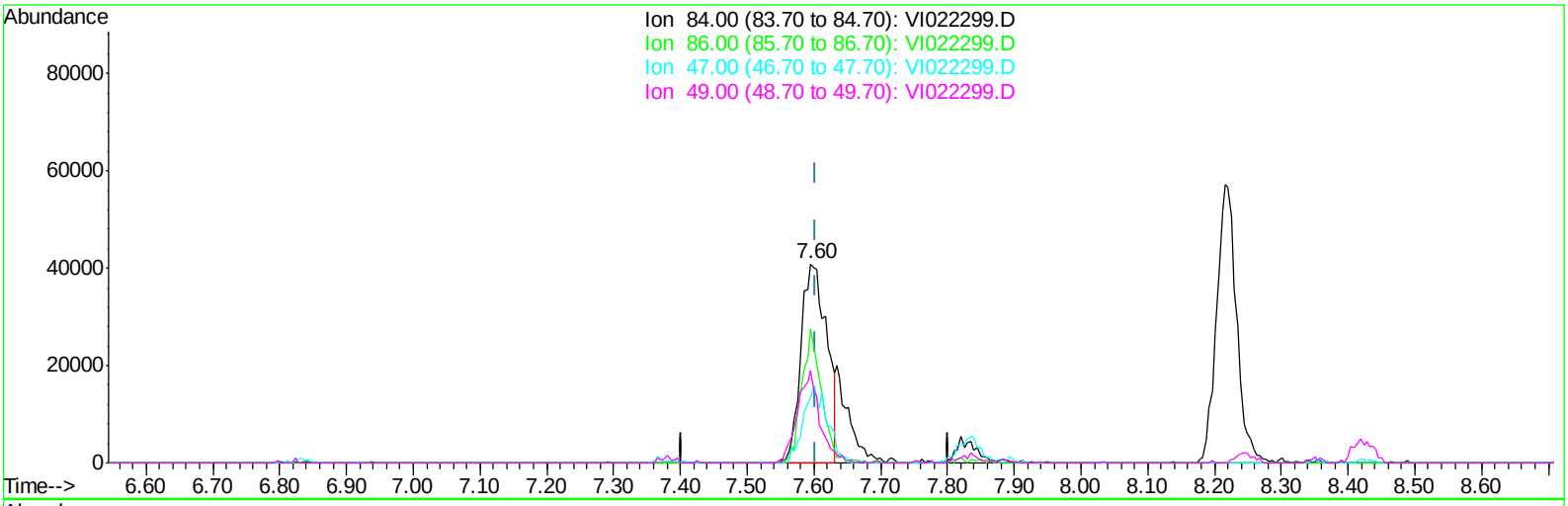
response 137378

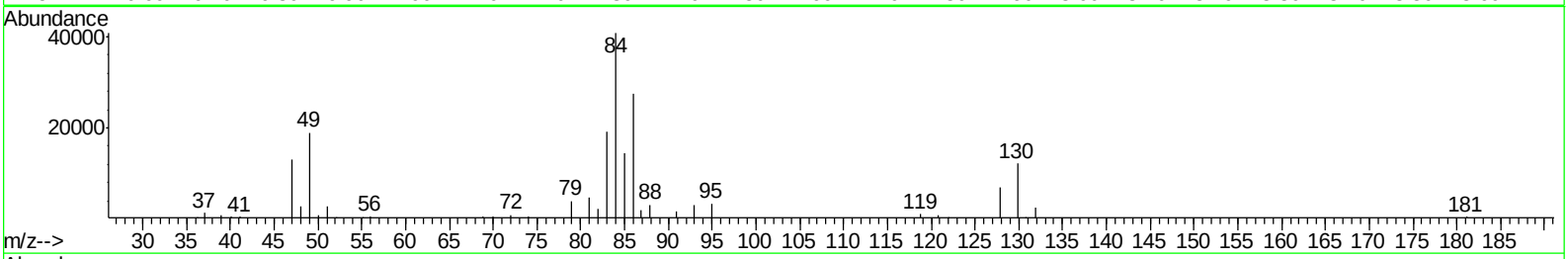
Ion	Exp%	Act%
84.00	100	100
86.00	55.90	40.59
47.00	40.10	28.54
49.00	52.50	32.11#

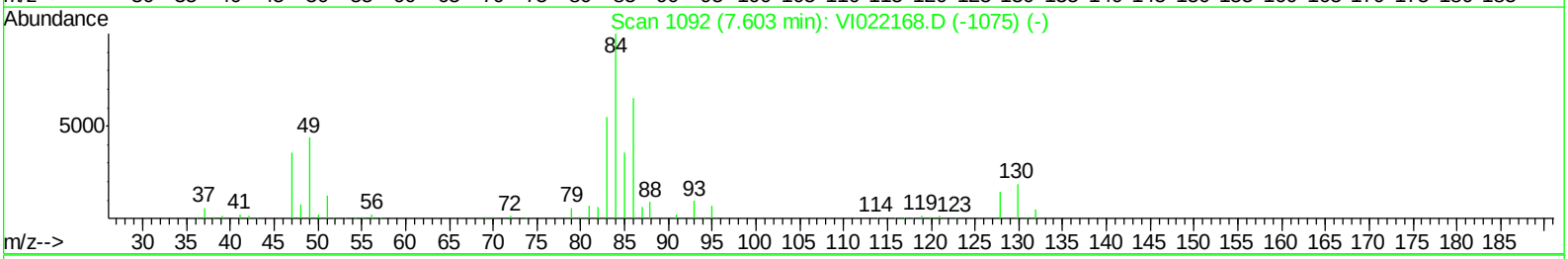
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:13:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022299.D

(22) Chloroform-d (S)

7.595min (-0.008) 11.32ug/L m

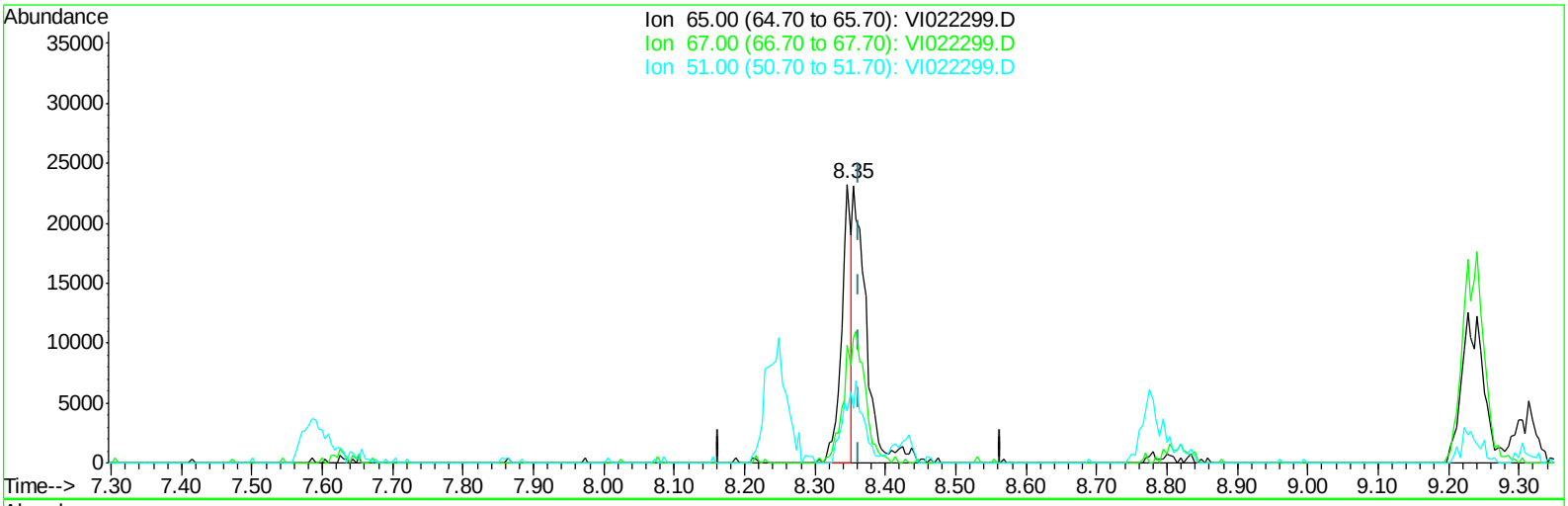
response 110255

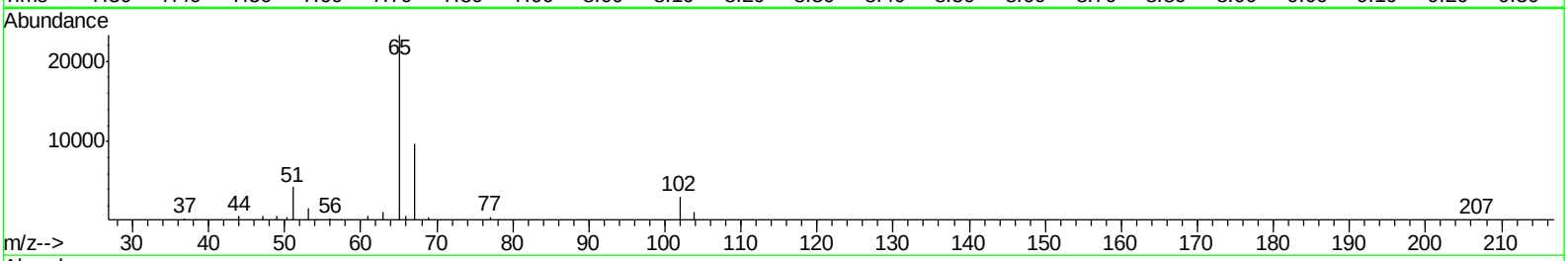
Ion	Exp%	Act%
84.00	100	100
86.00	55.90	50.57
47.00	40.10	35.56
49.00	52.50	40.01

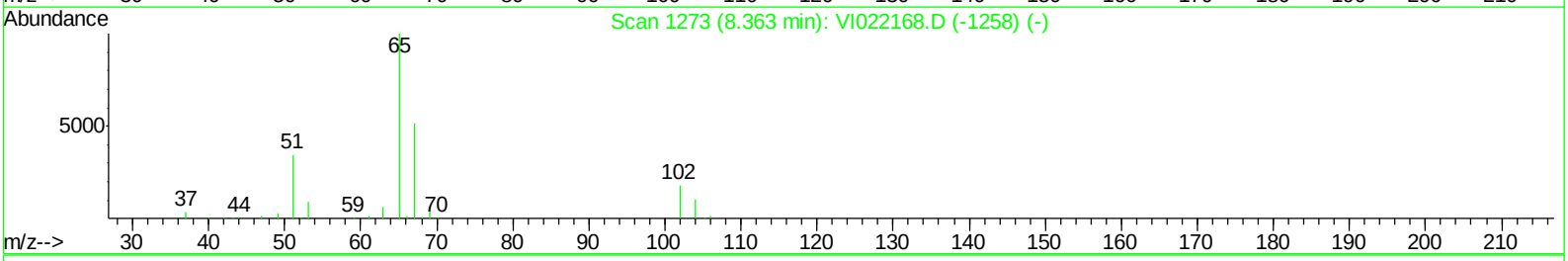
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:13:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022299.D

(26) 1,2-Dichloroethane-d4 (S)

8.346min (-0.017) 4.80ug/L

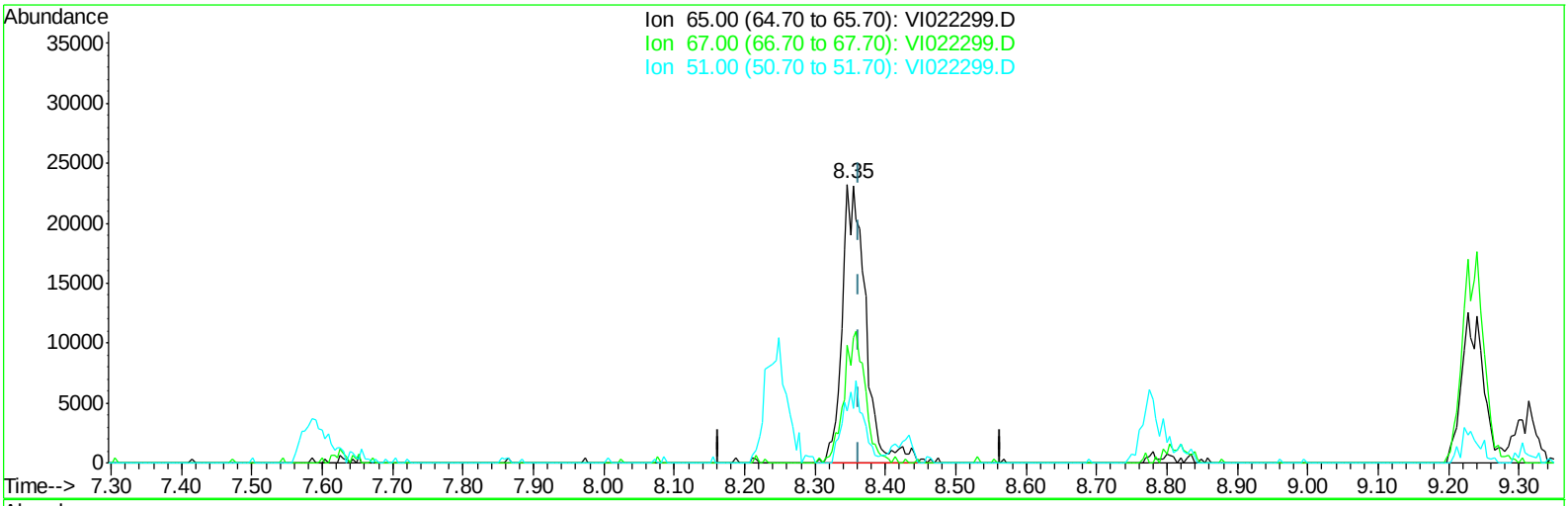
response 22880

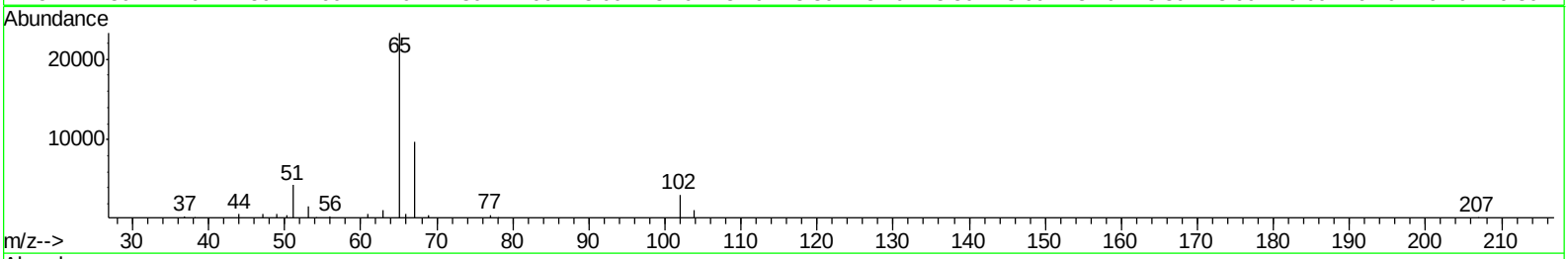
Ion	Exp%	Act%
65.00	100	100
67.00	51.20	105.06#
51.00	34.40	56.51#
0.00	0.00	0.00

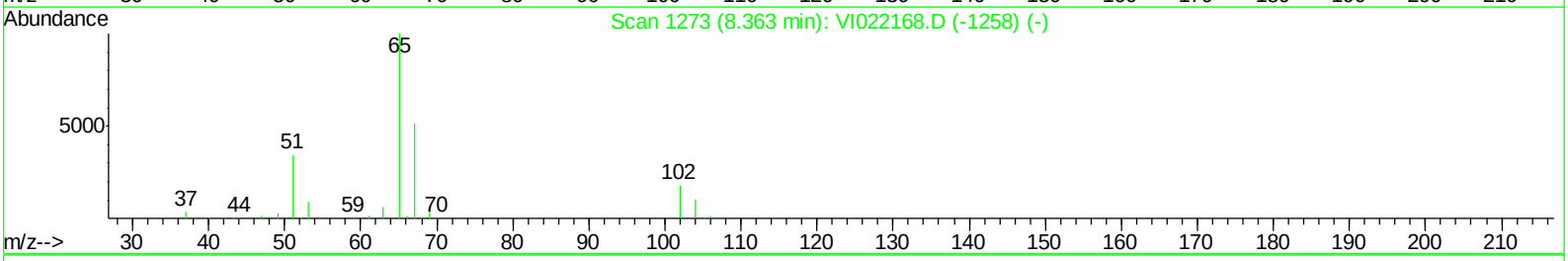
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:13:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022299.D

(26) 1,2-Dichloroethane-d4 (S)

8.346min (-0.017) 11.93ug/L m

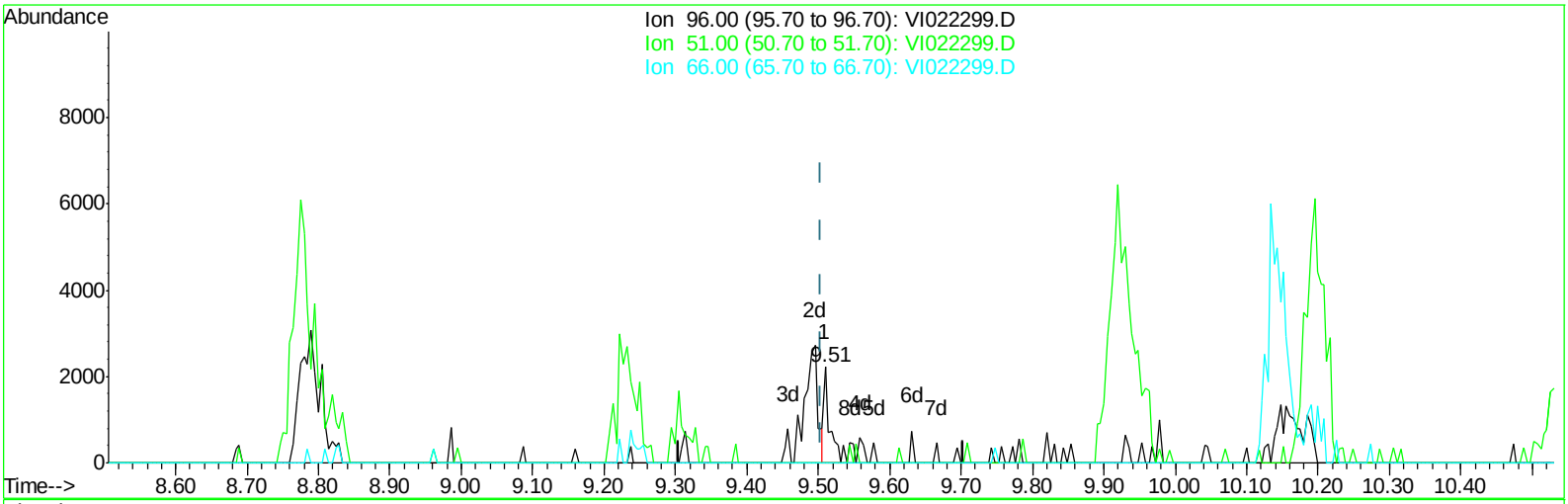
response 56810

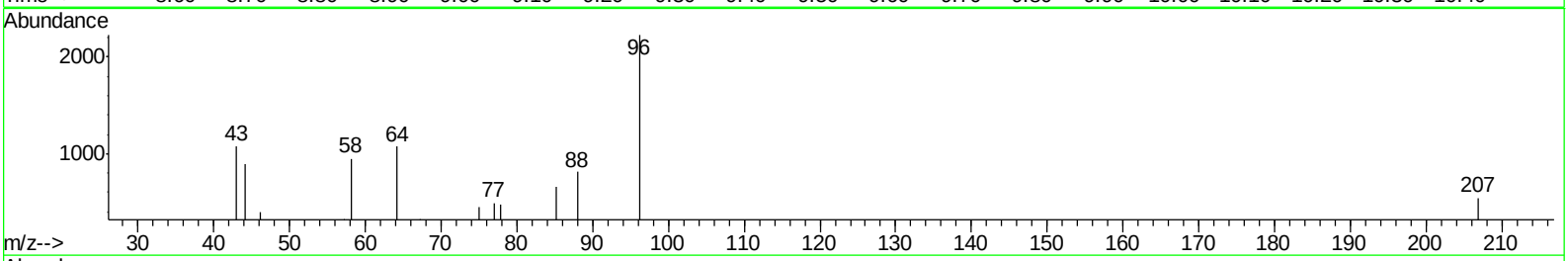
Ion	Exp%	Act%
65.00	100	100
67.00	51.20	42.31
51.00	34.40	22.76#
0.00	0.00	0.00

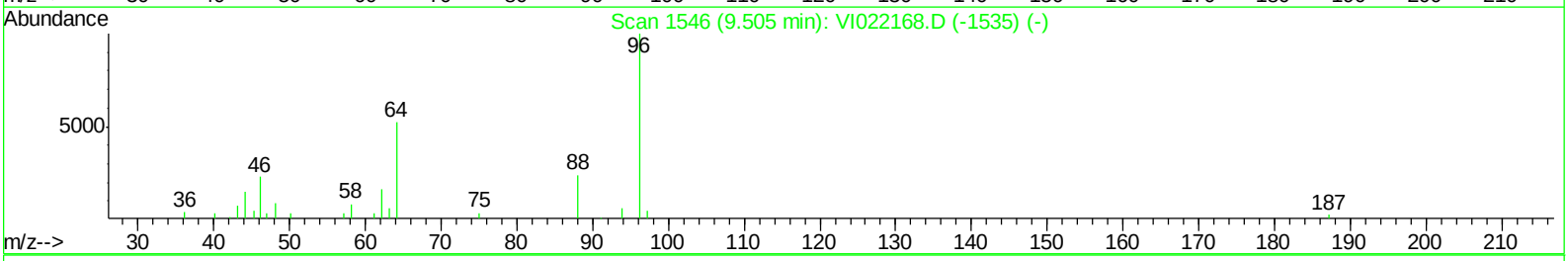
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:13:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022299.D

(28) 1,4-Dioxane-d8 (S)

9.510min (+0.005) 35.16ug/L

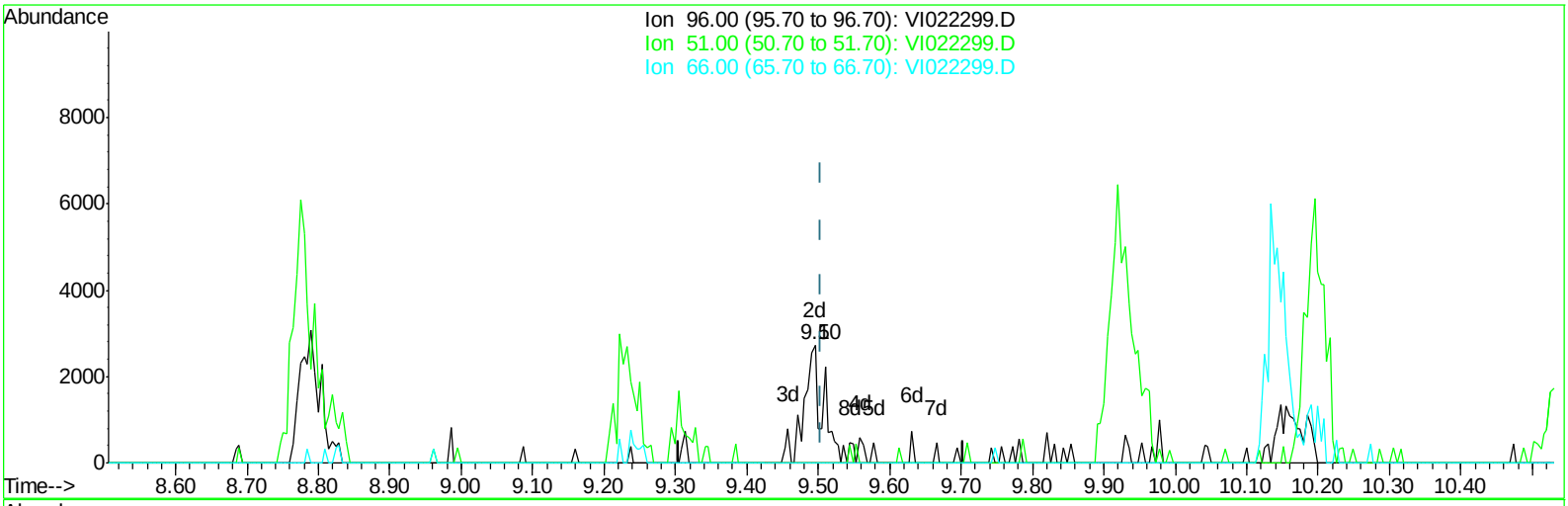
response 1193

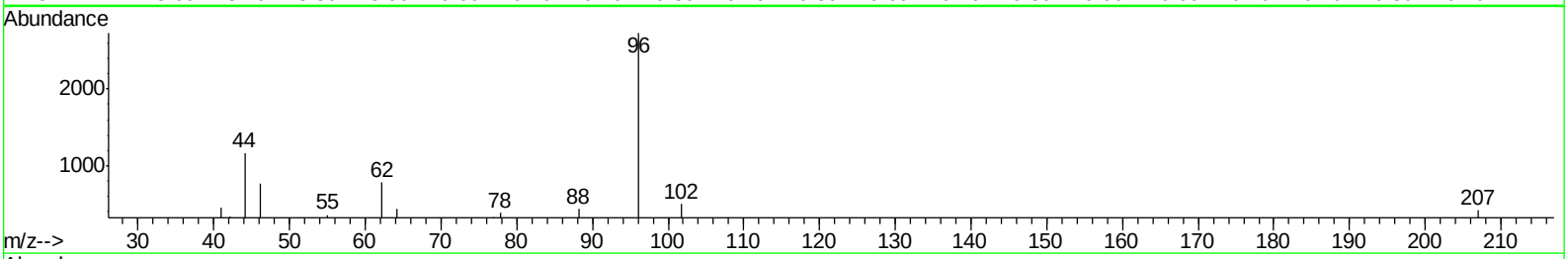
Ion	Exp%	Act%
96.00	100	100
51.00	0.00	0.00
66.00	0.00	0.00
0.00	0.00	0.00

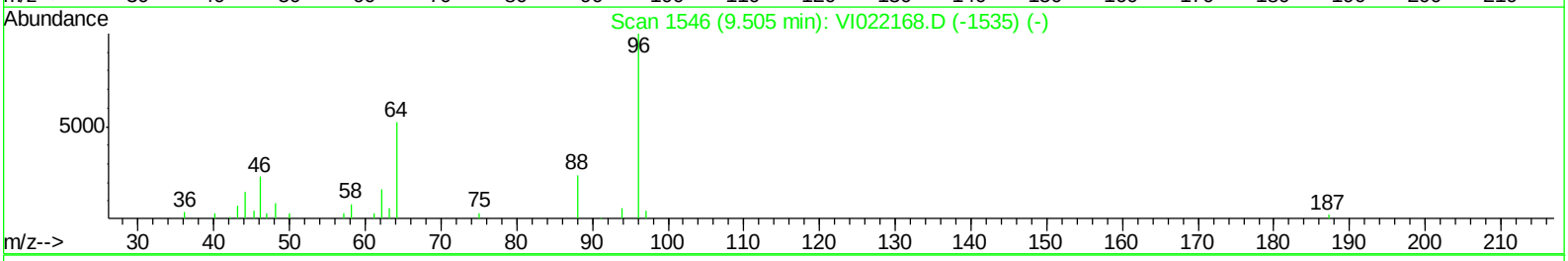
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:13:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022299.D

(28) 1,4-Dioxane-d8 (S)

9.495min (-0.009) 165.99ug/L m

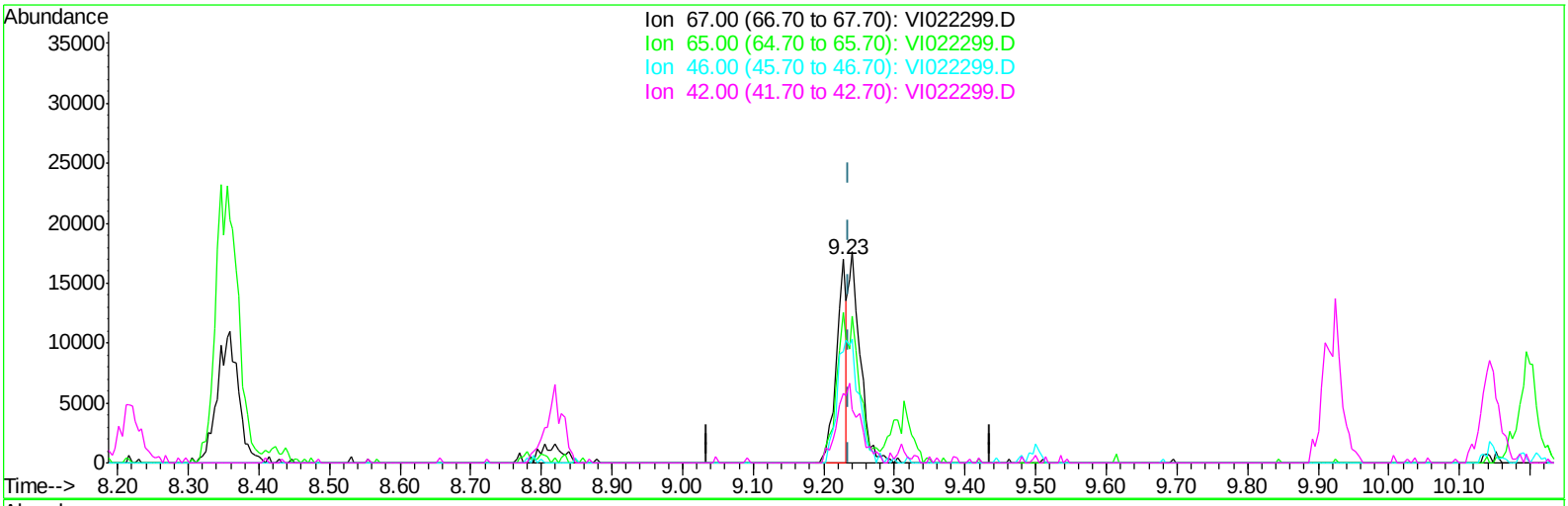
response 5633

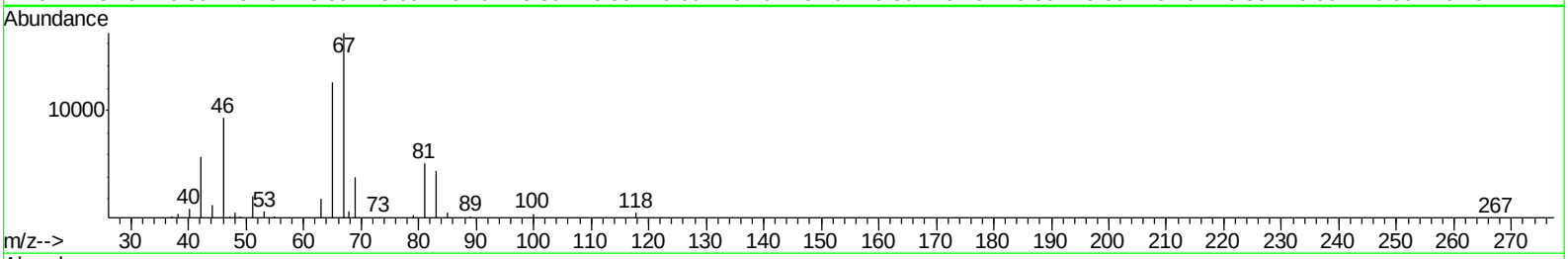
Ion	Exp%	Act%
96.00	100	100
51.00	0.00	0.00
66.00	0.00	0.00
0.00	0.00	0.00

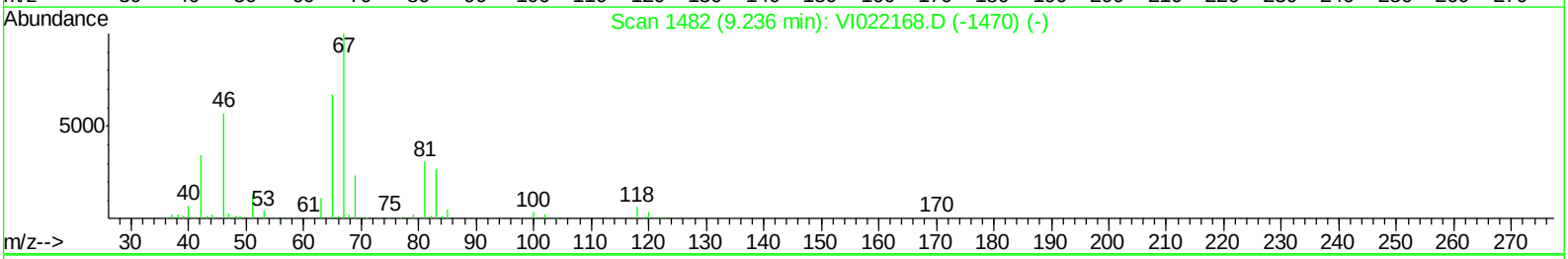
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:13:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022299.D

(38) 1,2-Dichloropropane-d6 (S)

9.227min (-0.009) 3.48ug/L

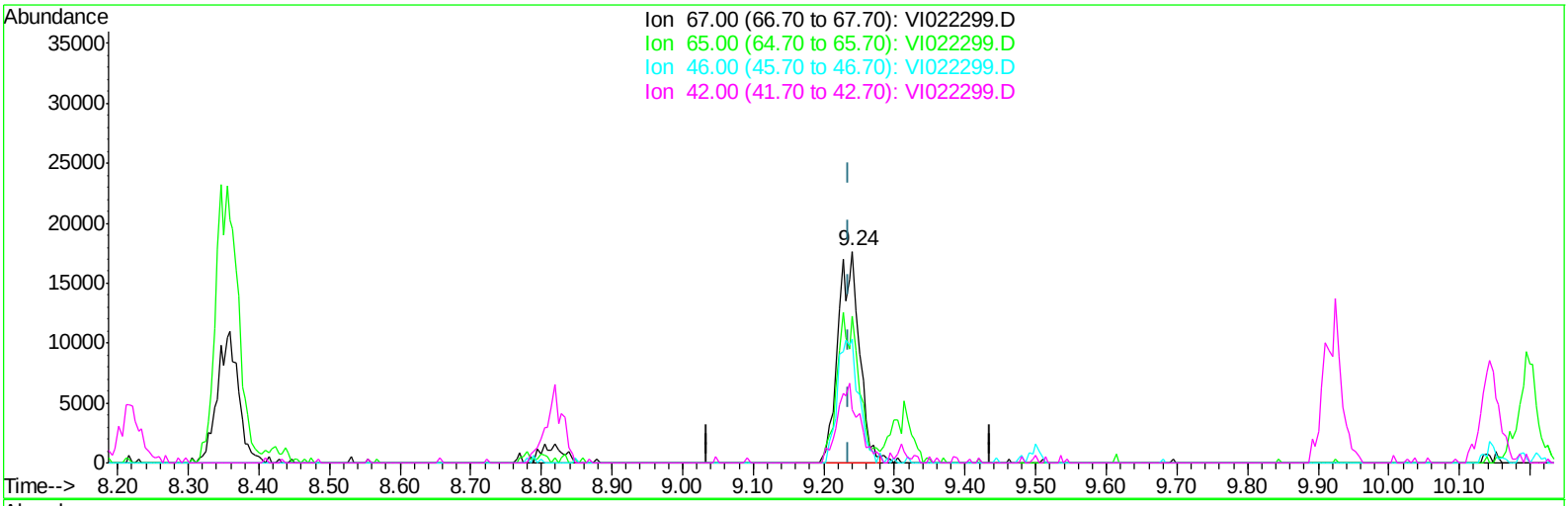
response 17556

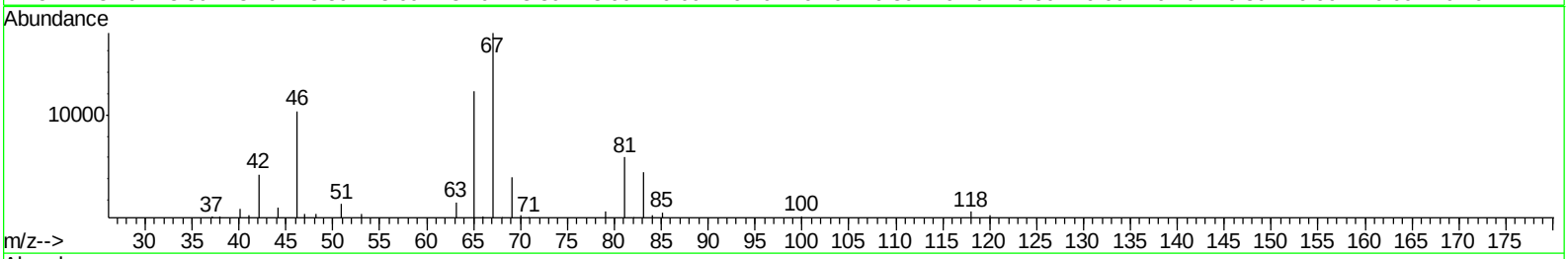
Ion	Exp%	Act%
67.00	100	100
65.00	66.00	156.11#
46.00	66.00	125.70#
42.00	38.70	82.29#

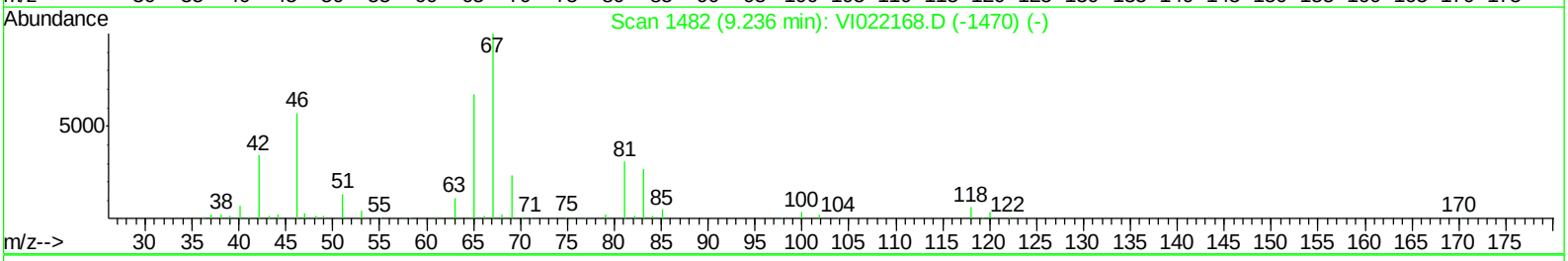
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:13:54 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022299.D

(38) 1,2-Dichloropropane-d6 (S)

9.241min (+0.005) 7.39ug/L m

response 37267

Ion	Exp%	Act%
67.00	100	100
65.00	66.00	73.54
46.00	66.00	59.22
42.00	38.70	38.77

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:16:22 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Difluorobenzene	8.77	114	533652	50.00	ug/L		0.00
30) Chlorobenzene-d5	11.67	117	540558	50.00	ug/L		0.00
61) 1,4-Dichlorobenzene-d4	13.98	152	289919	50.00	ug/L		0.00
System Monitoring Compounds							
4) Vinyl Chloride-d3	3.99	65	27878	7.52	ug/L		-0.02
7) Chloroethane-d5	4.58	69	7089	7.11	ug/L		0.00
10) 1,1-Dichloroethene-d2	5.36	63	37679	9.72	ug/L		-0.02
22) Chloroform-d	7.60	84	110255m	11.32	ug/L		0.00
24) 2-Butanone-d5	7.85	46	23094	14.06	ug/L		0.00
26) 1,2-Dichloroethane-d4	8.35	65	56810m	11.93	ug/L		-0.02
28) 1,4-Dioxane-d8	9.50	96	5633m	165.99	ug/L		0.00
34) Benzene-d6	8.22	84	119175	7.21	ug/L		0.00
38) 1,2-Dichloropropane-d6	9.24	67	37267m	7.39	ug/L		0.00
42) Toluene-d8	10.14	98	120369	8.57	ug/L		0.00
45) trans-1,3-Dichloropropene-	10.54	79	16657	8.90	ug/L		0.00
51) 2-Hexanone-d5	11.26	63	24633	14.86	ug/L		0.00
59) 1,1,2,2-Tetrachloroethane-	12.96	84	53226	8.82	ug/L		0.00
65) 1,2-Dichlorobenzene-d4	14.45	152	47916	8.69	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.56	85	39471m	8.57	ug/L		
3) Chloromethane	3.85	50	30604	6.34	ug/L		100
5) Vinyl chloride	4.00	62	29721	7.25	ug/L		99
6) Bromomethane	4.46	94	19041	11.56	ug/L	#	68
8) Chloroethane	4.62	64	7495m	10.25	ug/L		
9) Trichlorofluoromethane	4.79	101	34462m	12.12	ug/L		
11) 1,1-Dichloroethene	5.36	96	15688	9.35	ug/L		76
12) 1,1,2-Trichlorotrifluoroet	5.42	101	21129m	11.63	ug/L		
13) Carbon disulfide	5.47	76	55536	10.28	ug/L	#	95
14) Methylene chloride	5.99	84	19335	10.84	ug/L	#	69
15) Acetone	6.03	43	10893	14.26	ug/L		89
16) Methyl Acetate	6.13	43	9998	6.49	ug/L		92
17) trans-1,2-Dichloroethene	6.17	96	16711	8.11	ug/L	#	55
18) Methyl tert-butyl Ether	6.26	73	59615	10.49	ug/L	#	64
19) 1,1-Dichloroethane	6.83	63	51058	9.32	ug/L		91
20) cis-1,2-Dichloroethene	7.39	96	32452	8.83	ug/L		69
21) Bromochloromethane	7.58	128	17235	8.88	ug/L	#	62
23) Chloroform	7.62	83	86337	11.04	ug/L		97
25) 2-Butanone	7.91	43	21644	14.00	ug/L		98
27) 1,2-Dichloroethane	8.42	62	59568	11.37	ug/L	#	93
29) 1,4-Dioxane	9.53	88	6338	178.32	ug/L	#	84
31) Cyclohexane	7.64	56	34113	7.14	ug/L	#	66
32) Carbon tetrachloride	7.83	117	66268	9.83	ug/L		99
33) 1,1,1-Trichloroethane	7.88	97	65990	9.76	ug/L		98
35) Benzene	8.24	78	110370	7.93	ug/L		100
36) Trichloroethene	8.78	95	55039	9.45	ug/L	#	69
37) Methylcyclohexane	8.82	83	56167	8.22	ug/L		90
39) 1,2-Dichloropropane	9.31	63	30912	8.09	ug/L	#	96
40) Bromodichloromethane	9.33	83	70083	10.46	ug/L	#	80

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022299.D
Acq On : 19 Oct 2008 12:35
Operator : MS
Sample : 5 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:16:22 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

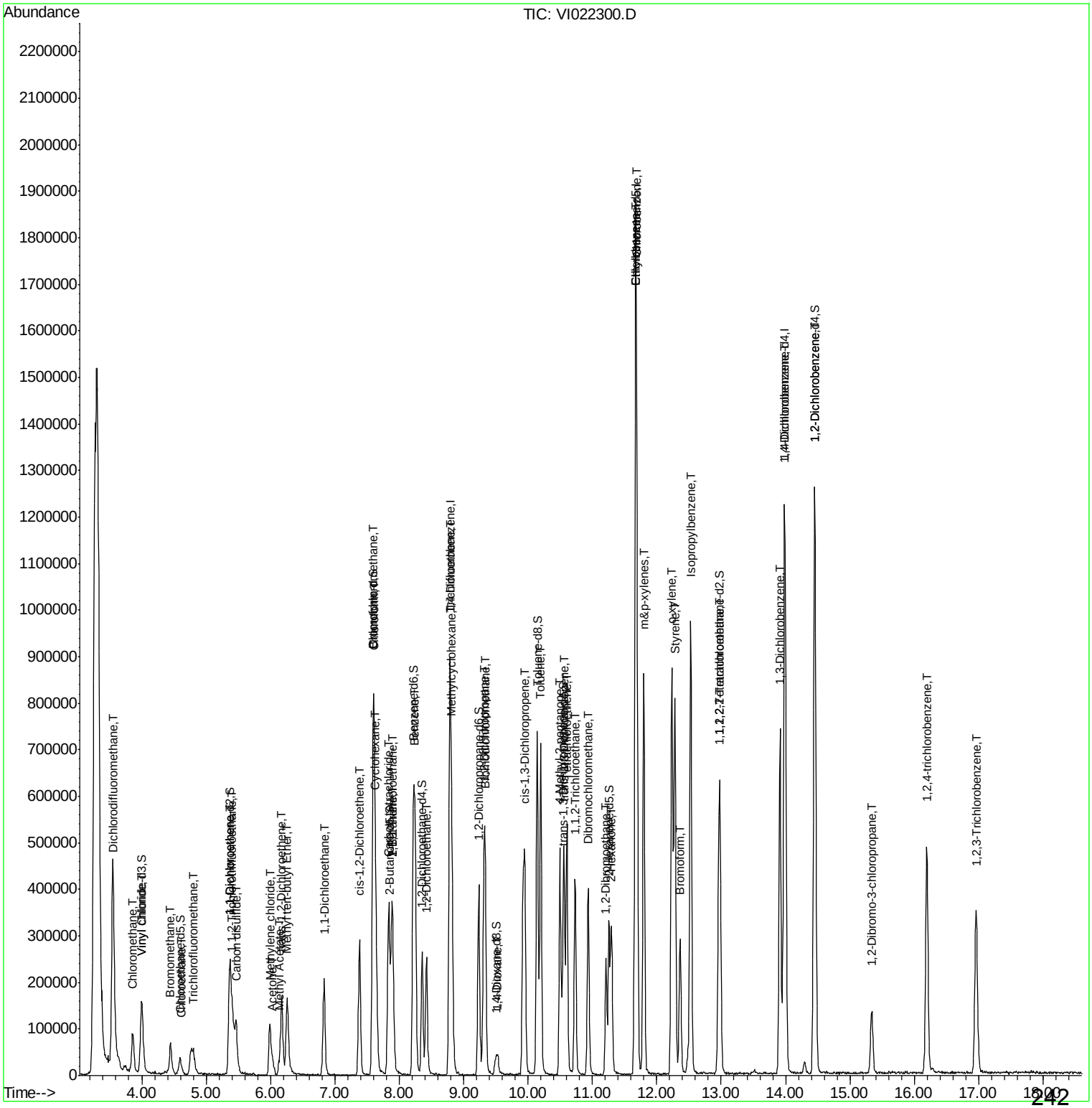
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
41) cis-1,3-Dichloropropene	9.94	75	71209	9.18 ug/L	93
43) Toluene	10.19	91	135247	8.59 ug/L	96
44) 4-Methyl-2-pentanone	10.50	43	66988	14.16 ug/L	97
46) trans-1,3-Dichloropropene	10.56	75	69508	9.54 ug/L	96
47) Tetrachloroethene	10.60	164	29091	10.22 ug/L	89
48) 1,1,2-Trichloroethane	10.72	97	33466	9.48 ug/L	89
49) Dibromochloromethane	10.93	129	47231	9.71 ug/L #	53
50) 1,2-Dibromoethane	11.21	107	39157	8.95 ug/L #	86
52) 2-Hexanone	11.29	43	52693	14.49 ug/L #	49
53) Ethylbenzene	11.66	91	189619	9.04 ug/L	96
54) Chlorobenzene	11.69	112	98575	10.22 ug/L #	85
55) m&p-xylenes	11.80	106	59228	9.57 ug/L	88
56) o-xylene	12.23	106	61863	9.36 ug/L	91
57) Styrene	12.28	104	111740	9.79 ug/L	87
58) Isopropylbenzene	12.53	105	184212	10.27 ug/L	97
60) 1,1,2,2-Tetrachloroethane	12.98	83	50618	9.35 ug/L	87
62) Bromoform	12.37	173	29131	9.79 ug/L #	92
63) 1,3-Dichlorobenzene	13.91	146	78681	9.20 ug/L	86
64) 1,4-Dichlorobenzene	14.00	146	78574	9.50 ug/L	95
66) 1,2-Dichlorobenzene	14.46	146	73325	9.50 ug/L #	92
67) 1,2-Dibromo-3-chloropropan	15.34	75	8762	7.00 ug/L #	52
68) 1,2,4-trichlorobenzene	16.19	180	42259	8.84 ug/L	97
69) 1,2,3-Trichlorobenzene	16.96	180	33236	7.71 ug/L #	90

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

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

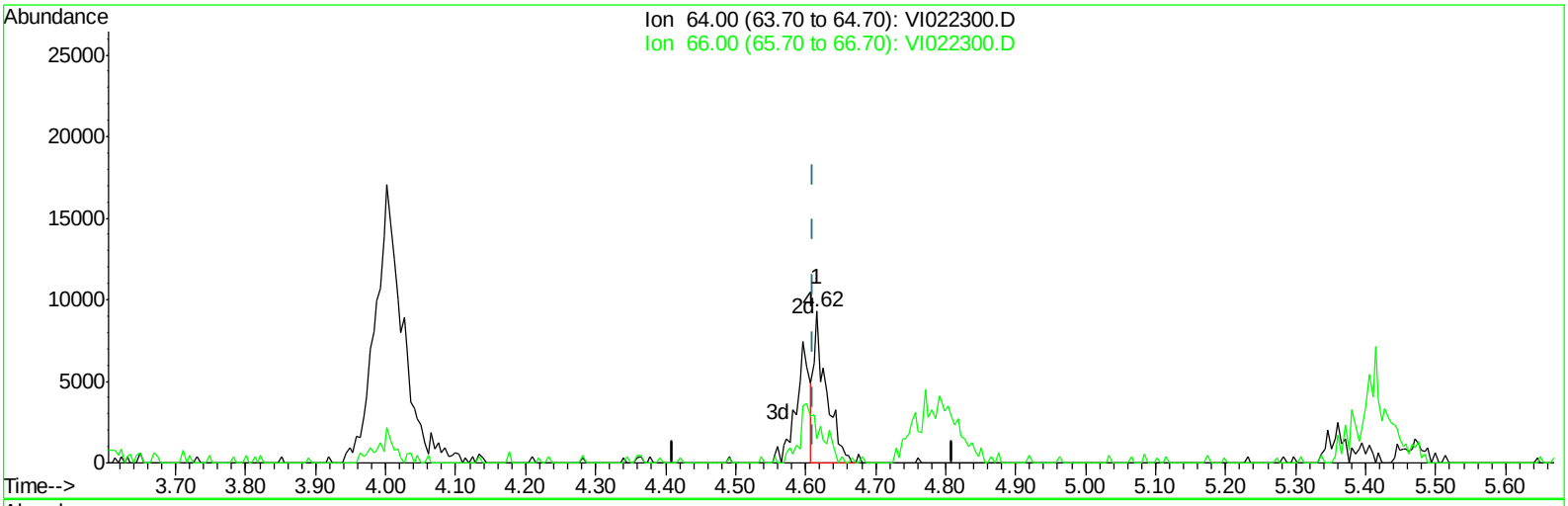
Quant Time: Oct 20 10:13:06 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

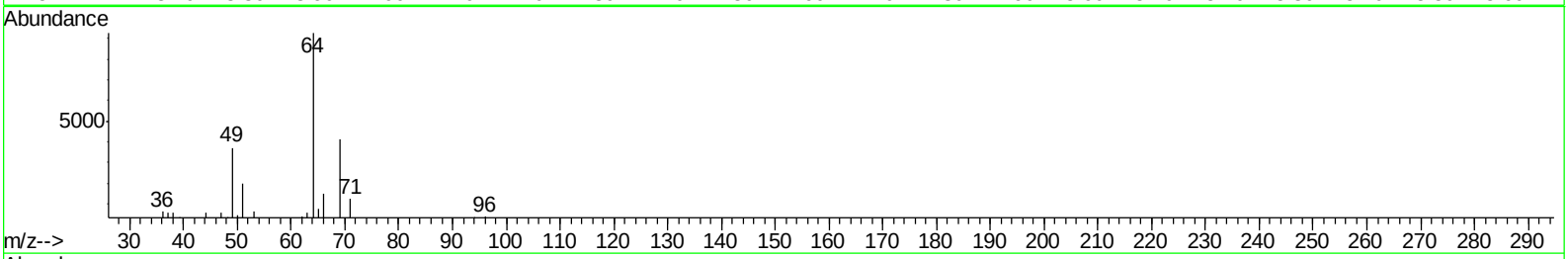


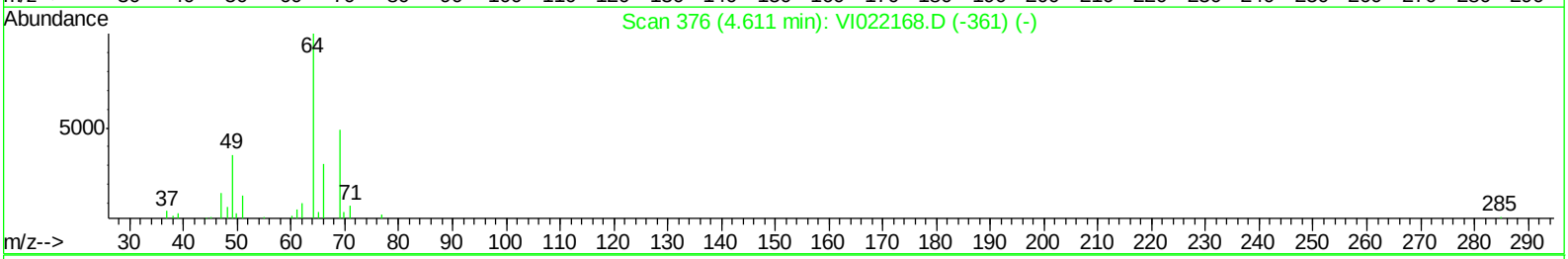
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(8) Chloroethane (T)

4.616min (+0.006) 19.35ug/L

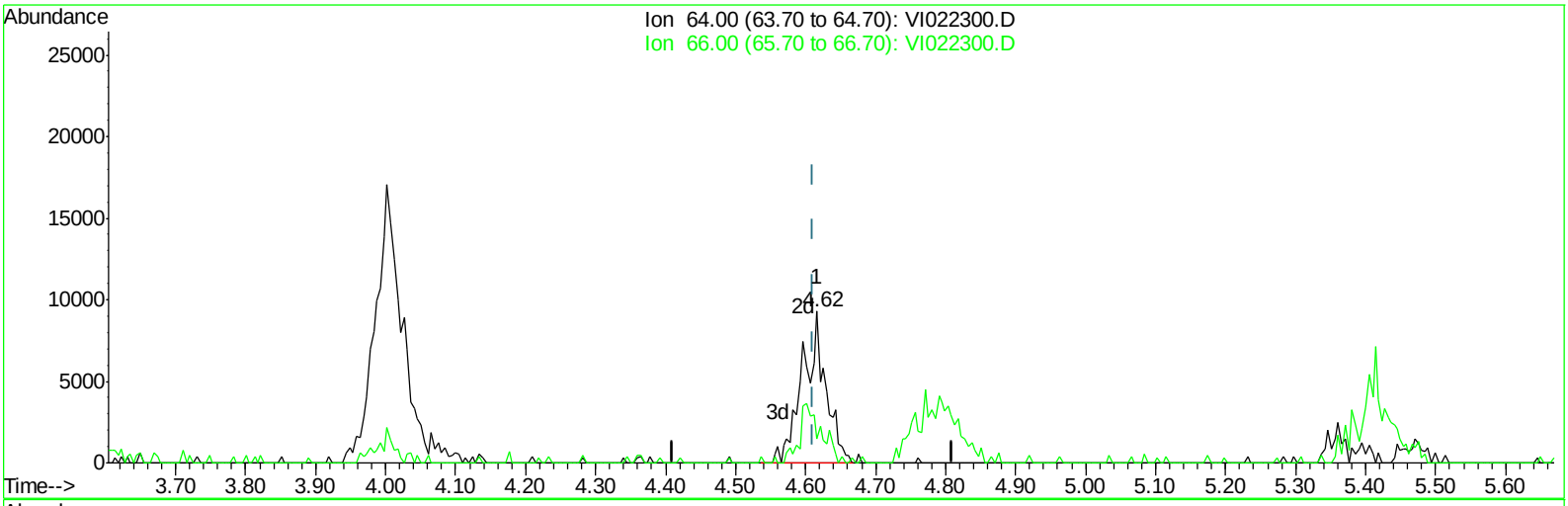
response 11877

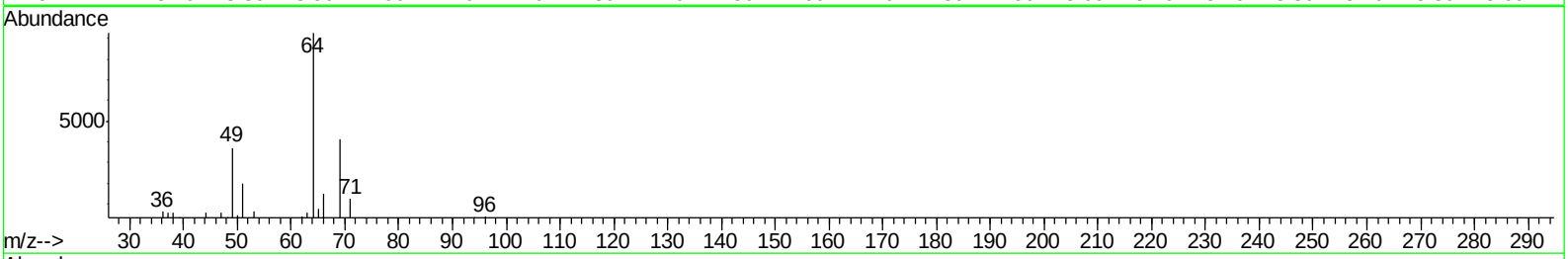
Ion	Exp%	Act%
64.00	100	100
66.00	30.90	16.08#
0.00	0.00	0.00
0.00	0.00	0.00

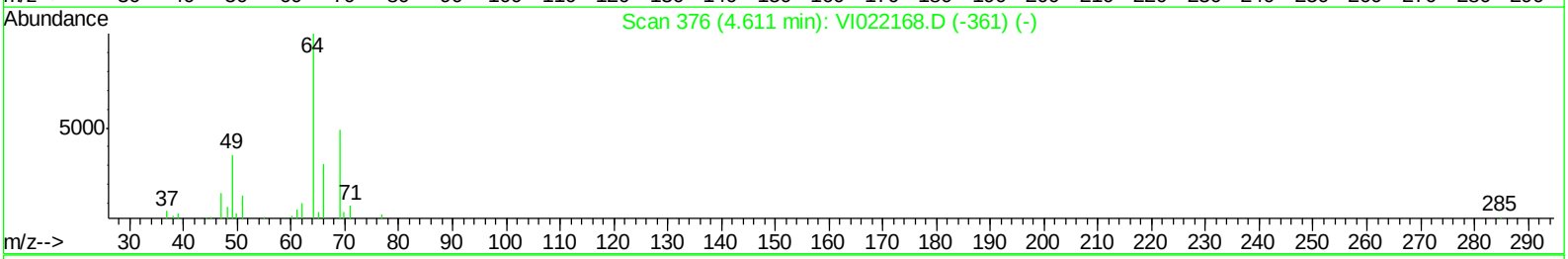
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(8) Chloroethane (T)

4.616min (+0.006) 35.00ug/L m

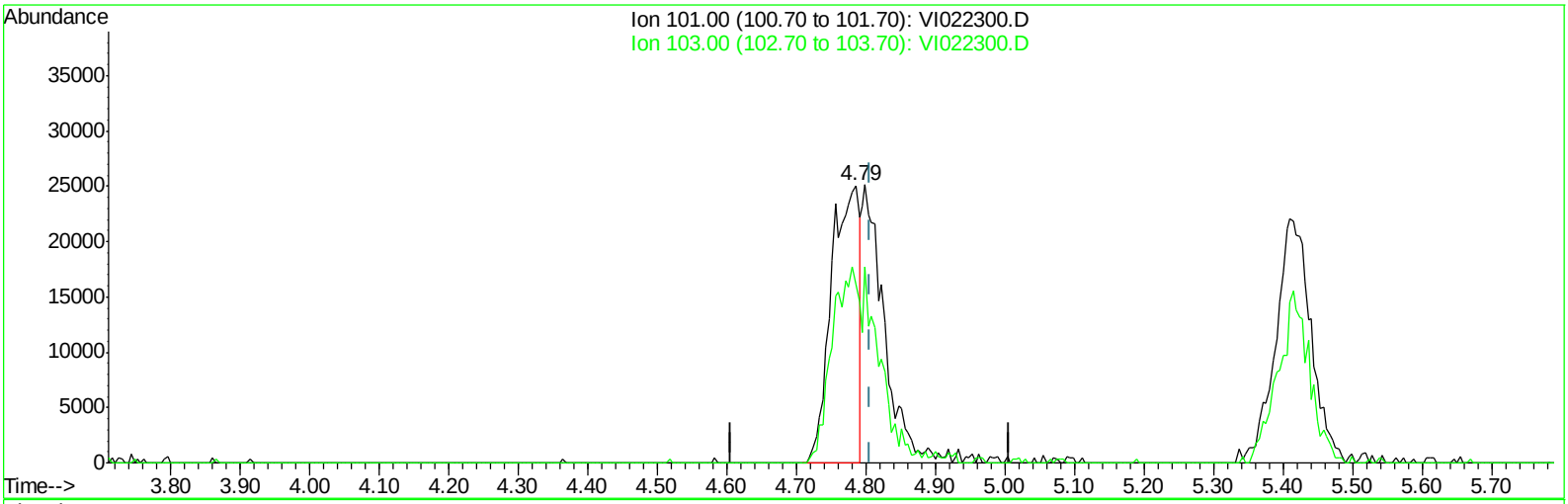
response 21488

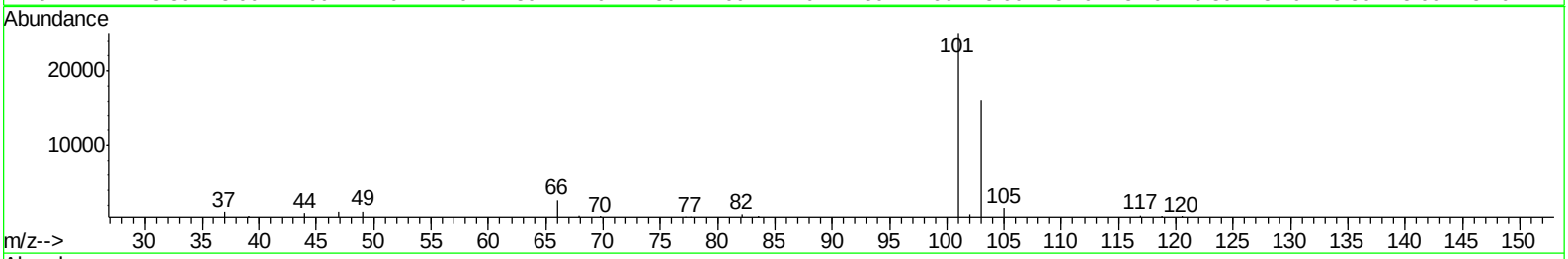
Ion	Exp%	Act%
64.00	100	100
66.00	30.90	16.08#
0.00	0.00	0.00
0.00	0.00	0.00

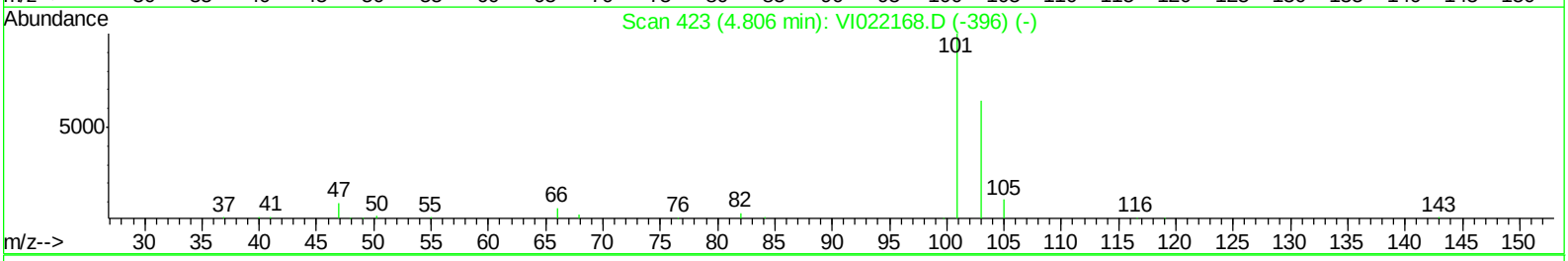
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(9) Trichlorofluoromethane (T)

4.785min (-0.021) 28.48ug/L

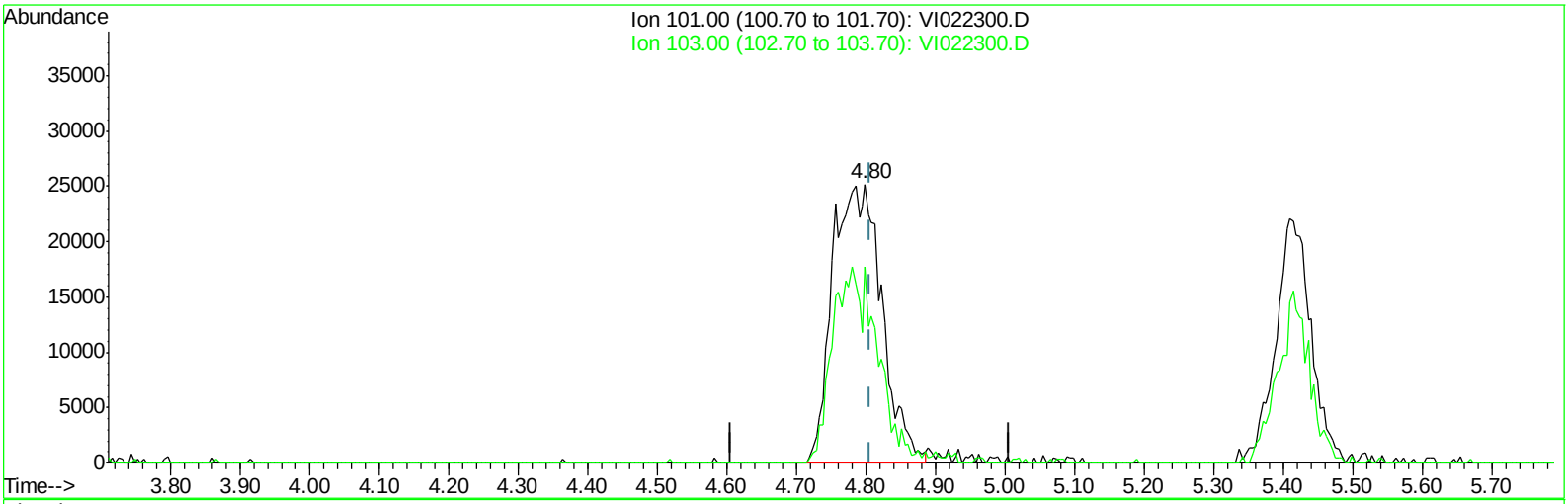
response 68023

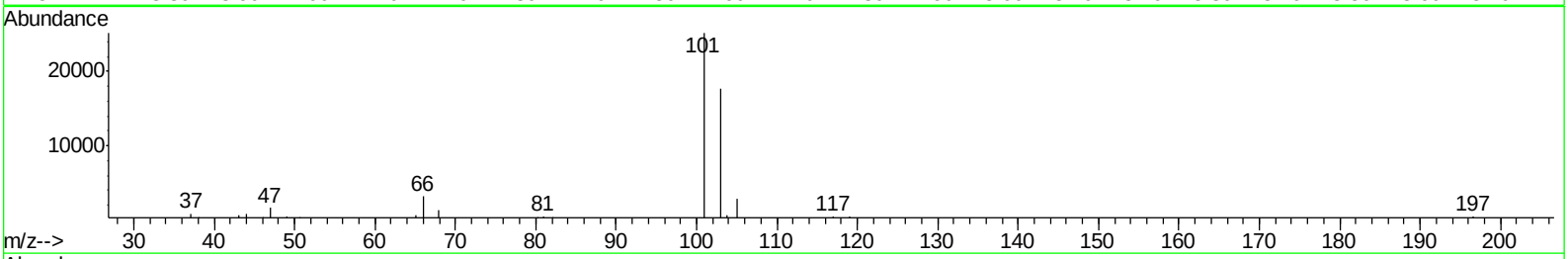
Ion	Exp%	Act%
101.00	100	100
103.00	33.00	72.92#
0.00	0.00	0.00
0.00	0.00	0.00

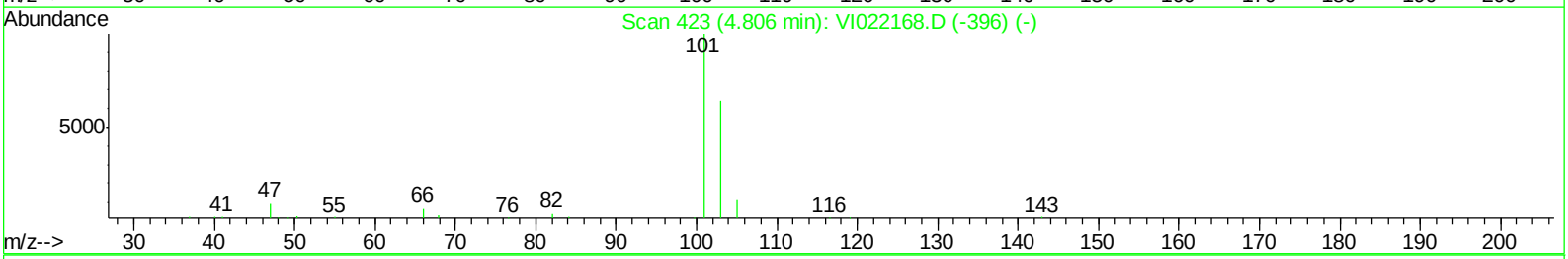
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(9) Trichlorofluoromethane (T)

4.799min (-0.007) 51.72ug/L m

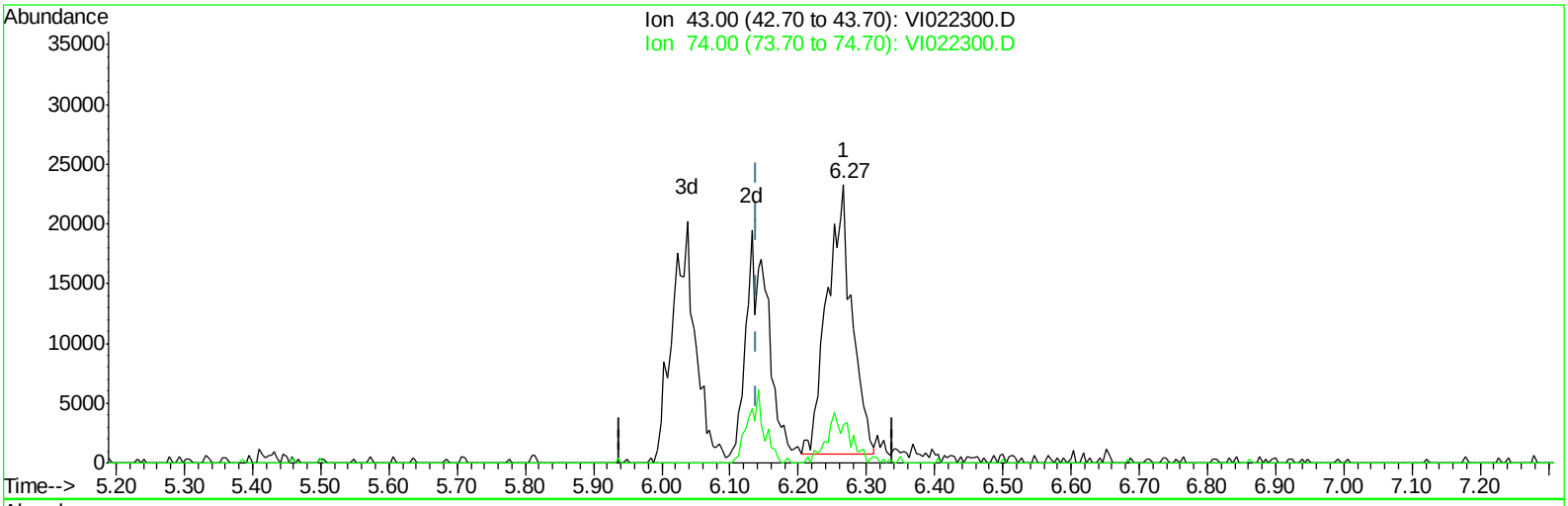
response 123530

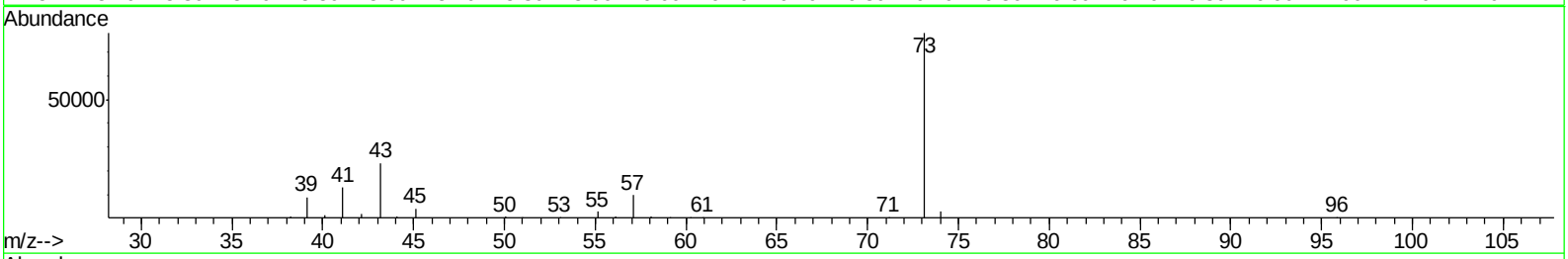
Ion	Exp%	Act%
101.00	100	100
103.00	33.00	40.16#
0.00	0.00	0.00
0.00	0.00	0.00

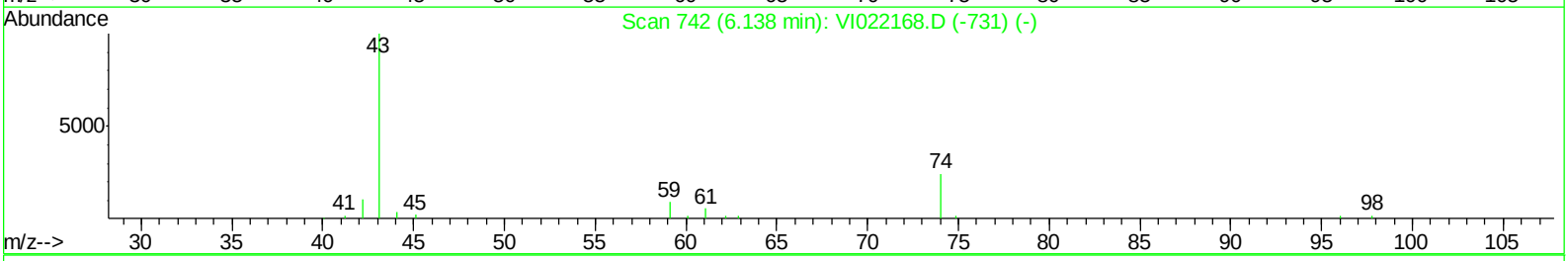
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(16) Methyl Acetate (T)

6.266min (+0.128) 44.63ug/L

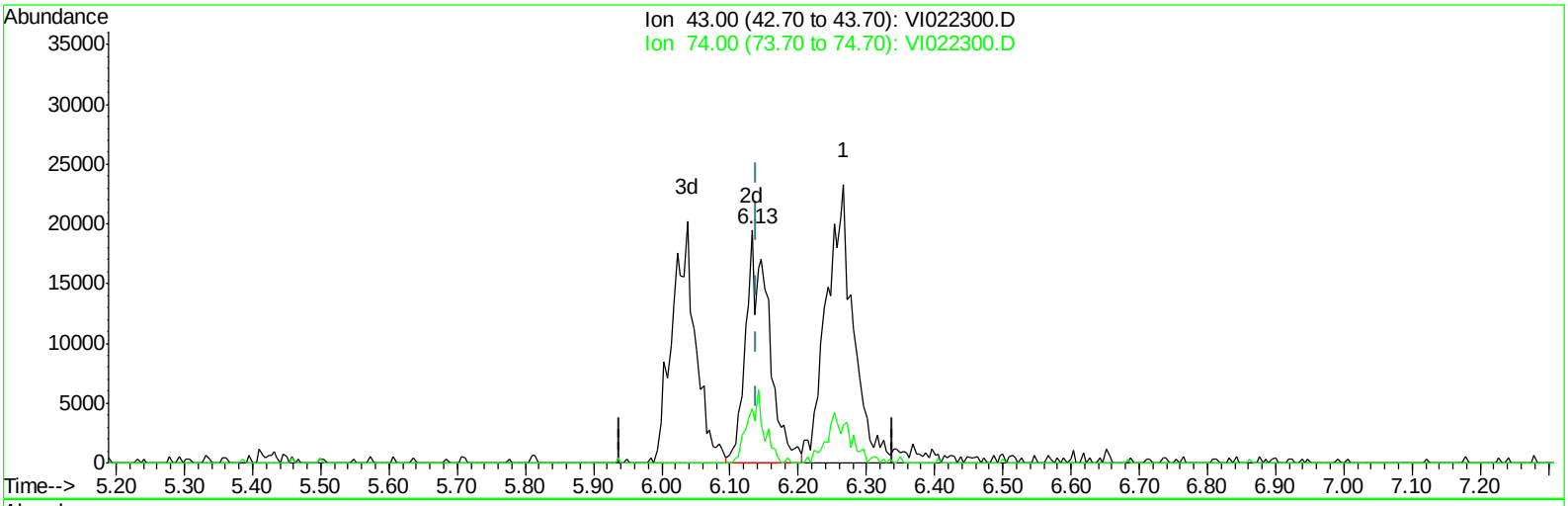
response 57757

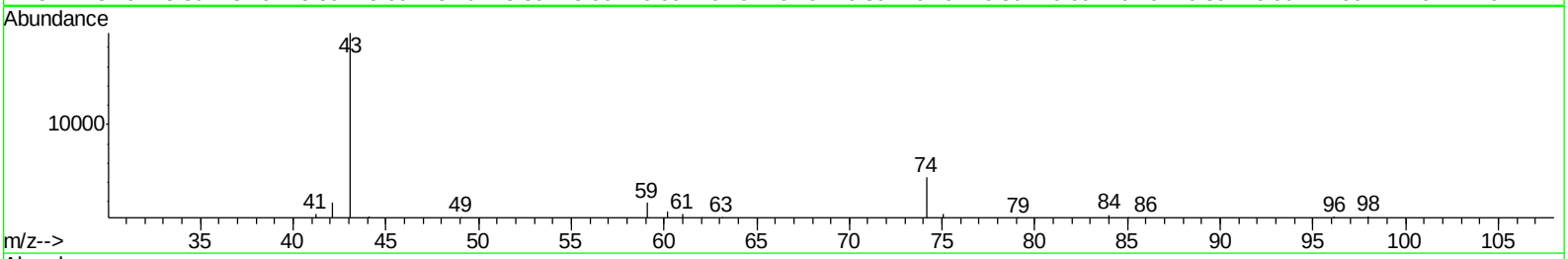
Ion	Exp%	Act%
43.00	100	100
74.00	20.10	16.99
0.00	0.00	0.00
0.00	0.00	0.00

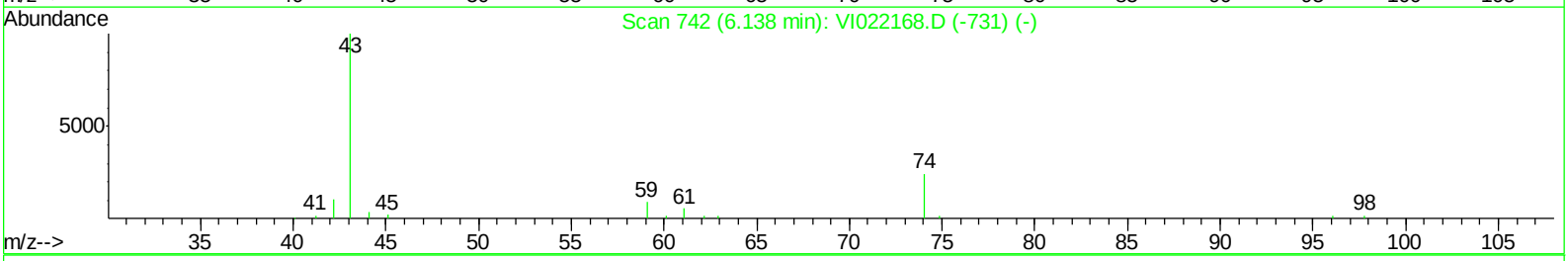
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(16) Methyl Acetate (T)

6.132min (-0.007) 35.79ug/L m

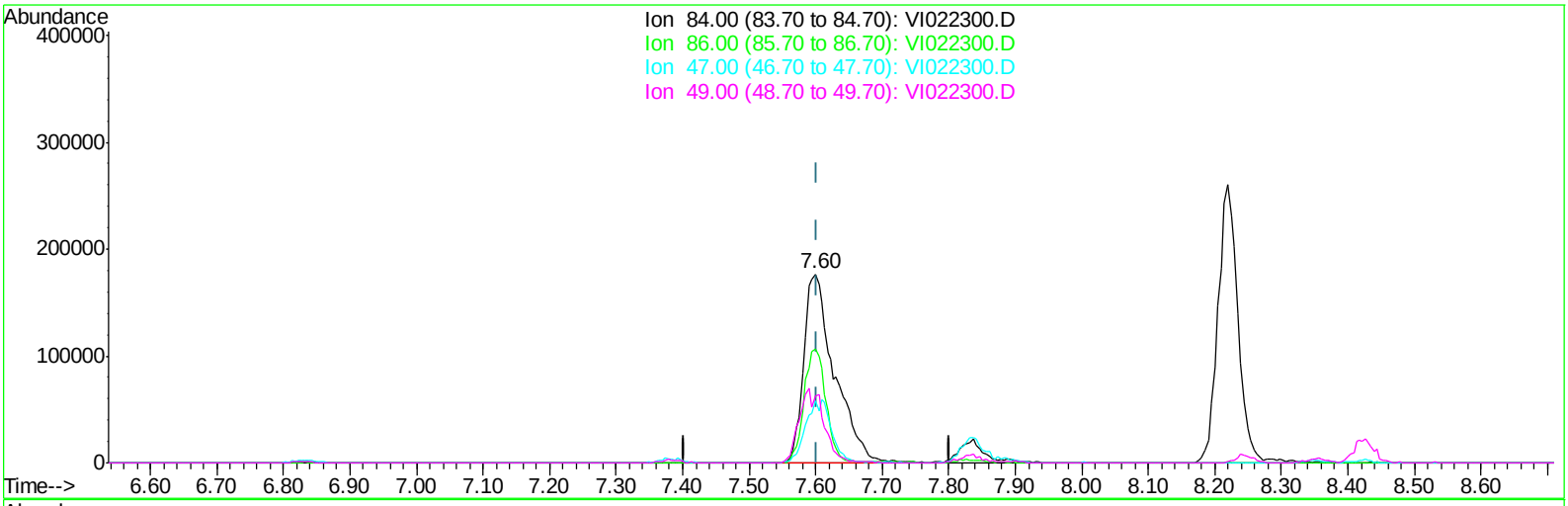
response 46320

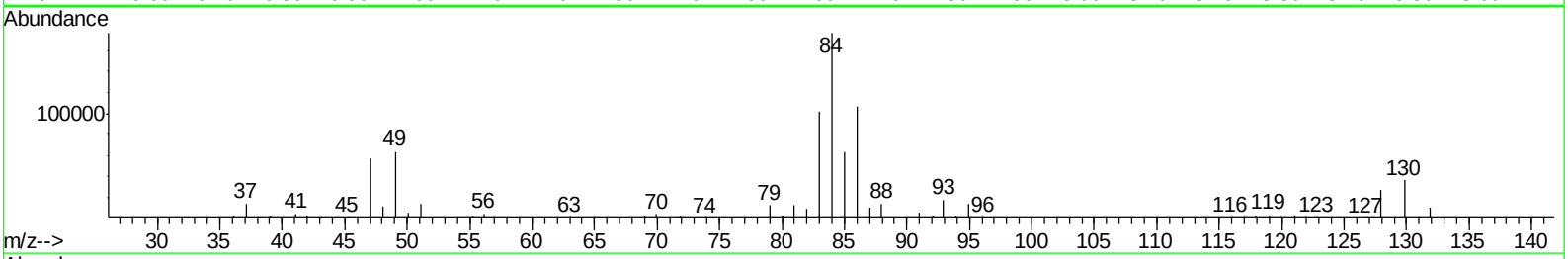
Ion	Exp%	Act%
43.00	100	100
74.00	20.10	21.19
0.00	0.00	0.00
0.00	0.00	0.00

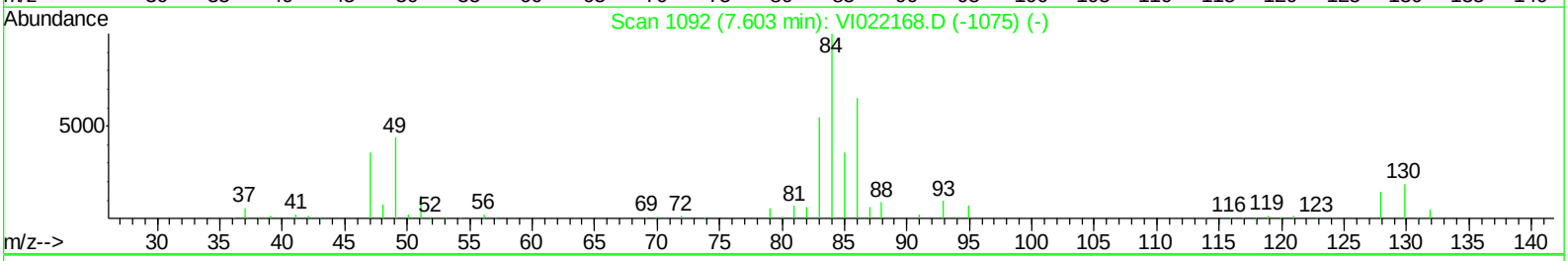
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(22) Chloroform-d (S)

7.600min (-0.003) 70.12ug/L

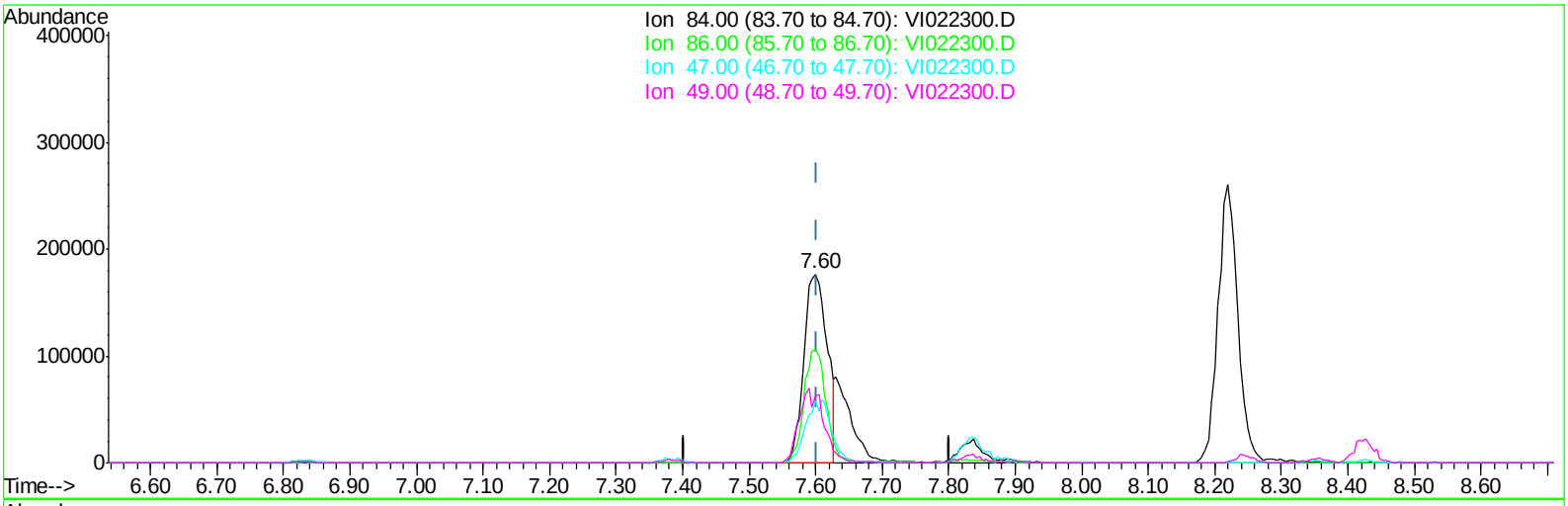
response 573404

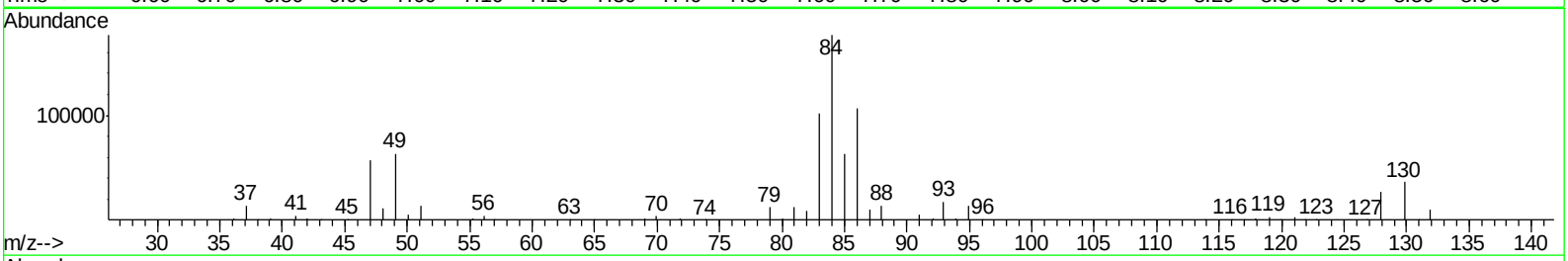
Ion	Exp%	Act%
84.00	100	100
86.00	55.90	43.74
47.00	40.10	27.99#
49.00	52.50	32.14#

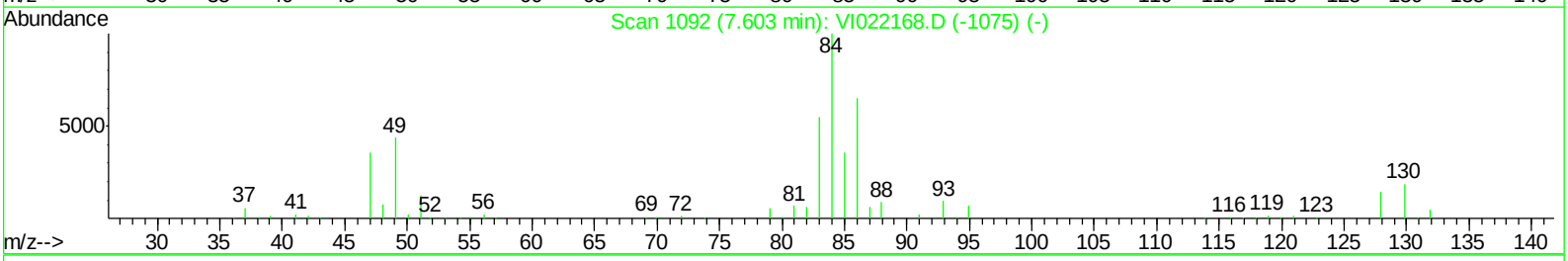
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(22) Chloroform-d (S)

7.600min (-0.003) 53.39ug/L m

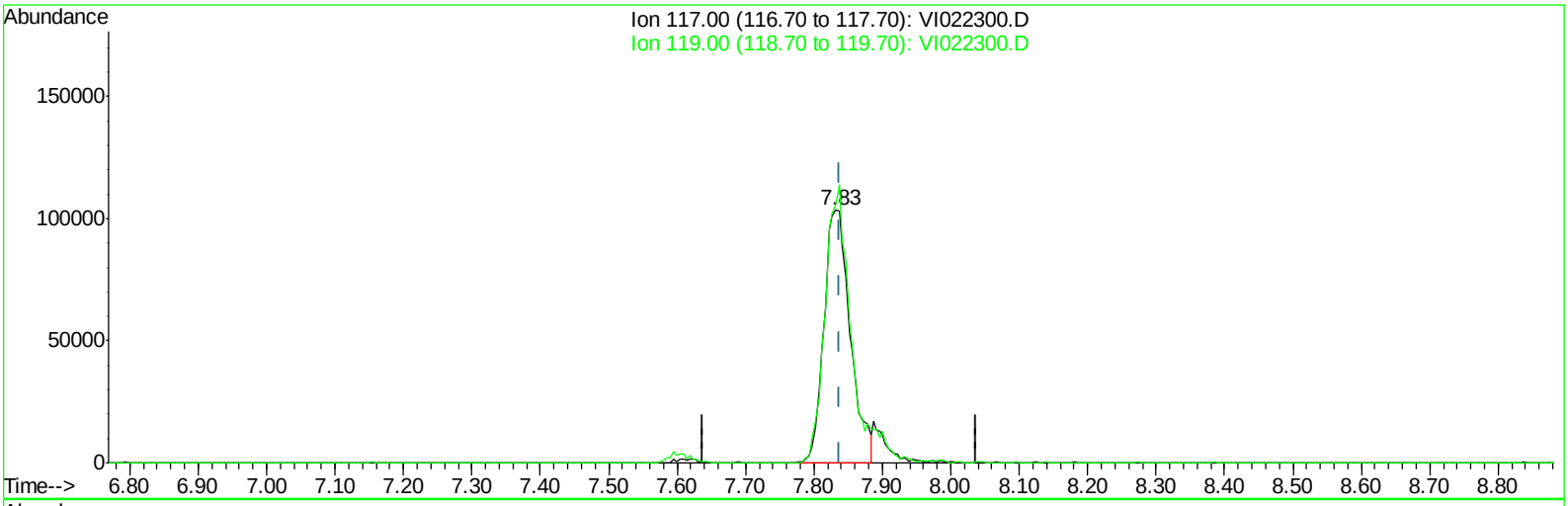
response 436582

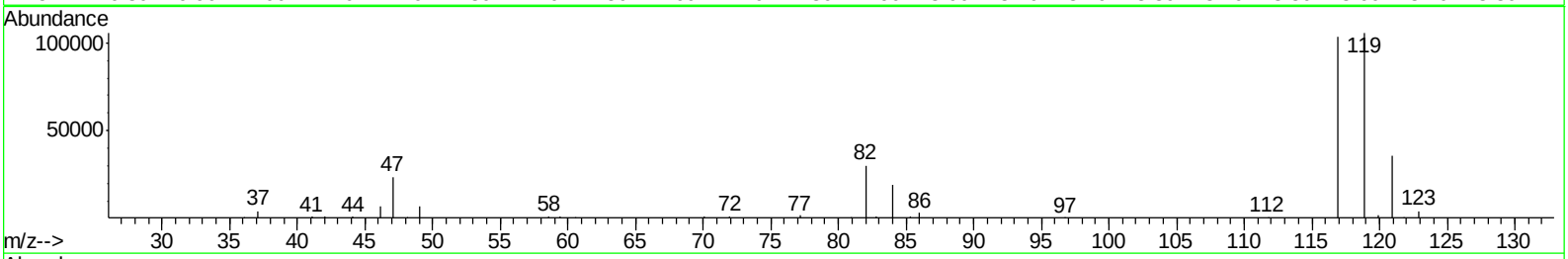
Ion	Exp%	Act%
84.00	100	100
86.00	55.90	57.44
47.00	40.10	36.76
49.00	52.50	42.21

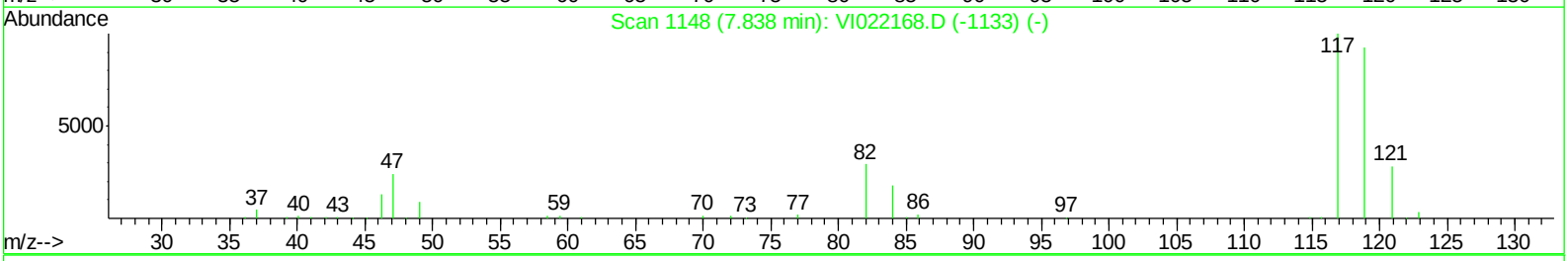
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(32) Carbon tetrachloride (T)

7.832min (-0.007) 46.02ug/L

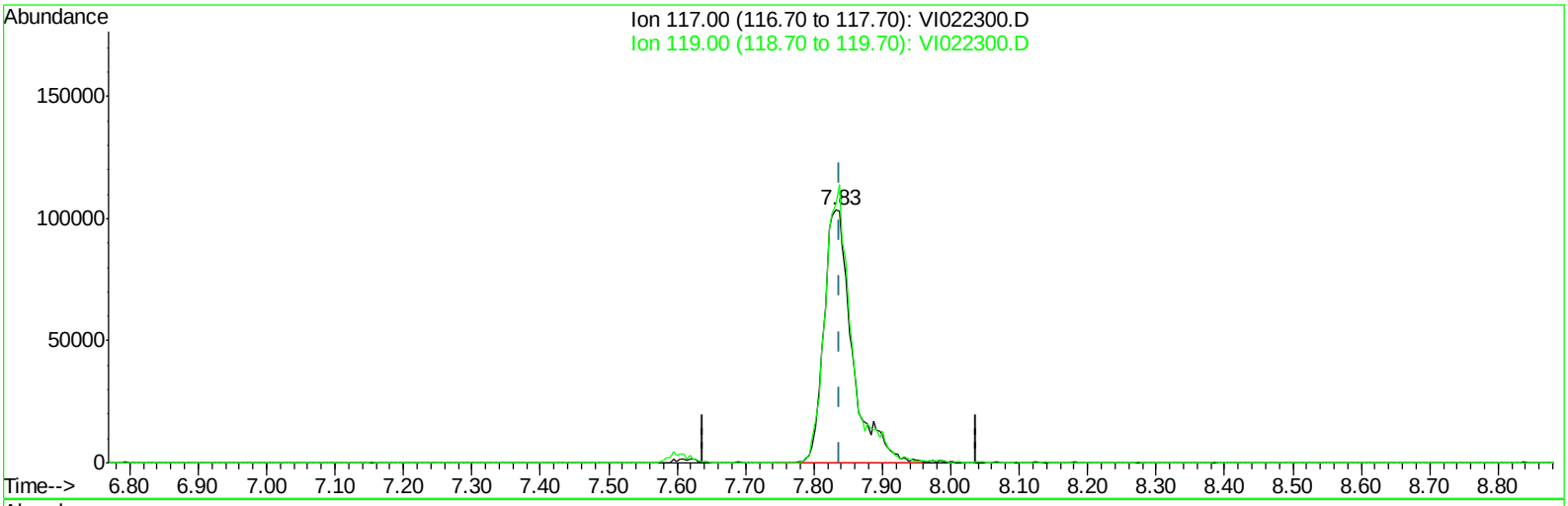
response 272596

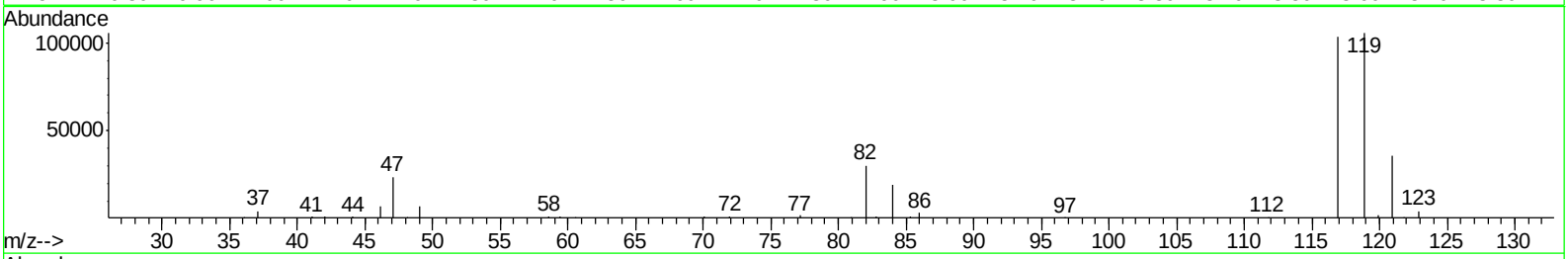
Ion	Exp%	Act%
117.00	100	100
119.00	91.10	108.49
0.00	0.00	0.00
0.00	0.00	0.00

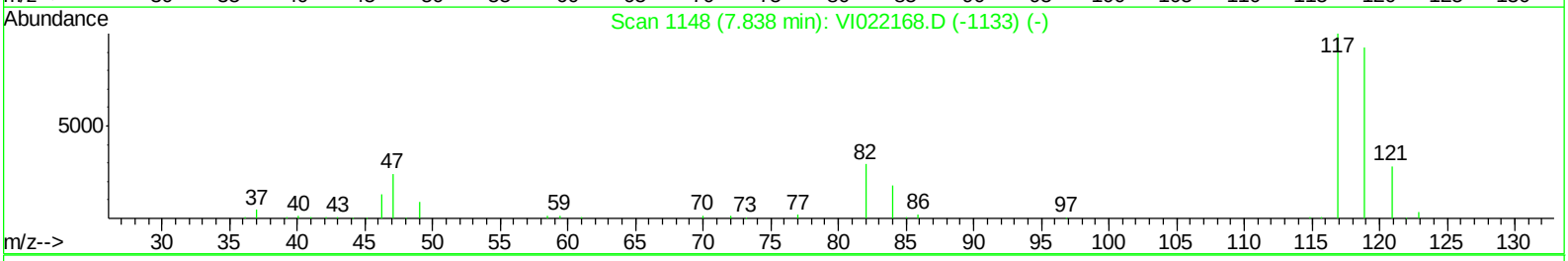
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(32) Carbon tetrachloride (T)

7.832min (-0.007) 49.32ug/L m

response 292135

Ion	Exp%	Act%
117.00	100	100
119.00	91.10	101.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:13:06 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	8.78	114	448130	50.00 ug/L	0.00
30) Chlorobenzene-d5	11.67	117	475104	50.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	13.98	152	274802	50.00 ug/L	0.00
System Monitoring Compounds					
4) Vinyl Chloride-d3	4.00	65	131707	42.28 ug/L	0.00
7) Chloroethane-d5	4.59	69	32922	39.35 ug/L	0.00
10) 1,1-Dichloroethene-d2	5.36	63	165560	50.88 ug/L	-0.02
22) Chloroform-d	7.60	84	436582m	53.39 ug/L	0.00
24) 2-Butanone-d5	7.86	46	108842	78.93 ug/L	0.00
26) 1,2-Dichloroethane-d4	8.36	65	248515	62.14 ug/L	0.00
28) 1,4-Dioxane-d8	9.50	96	30765	1079.59 ug/L	0.00
34) Benzene-d6	8.22	84	531939	36.61 ug/L	0.00
38) 1,2-Dichloropropane-d6	9.24	67	172492	38.91 ug/L	0.00
42) Toluene-d8	10.15	98	531158	43.03 ug/L	0.00
45) trans-1,3-Dichloropropene-	10.54	79	80855	49.15 ug/L	0.00
51) 2-Hexanone-d5	11.26	63	135257	92.84 ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	12.96	84	287943	54.31 ug/L	0.00
65) 1,2-Dichlorobenzene-d4	14.45	152	272293	52.10 ug/L	0.00

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.57	85	189636	49.00 ug/L	93
3) Chloromethane	3.85	50	129038	31.86 ug/L	95
5) Vinyl chloride	4.00	62	141370	41.09 ug/L	93
6) Bromomethane	4.44	94	61511	44.49 ug/L	89
8) Chloroethane	4.62	64	21488m	35.00 ug/L	
9) Trichlorofluoromethane	4.80	101	123530m	51.72 ug/L	
11) 1,1-Dichloroethene	5.37	96	63359	44.97 ug/L	76
12) 1,1,2-Trichlorotrifluoroet	5.41	101	79578	52.15 ug/L #	72
13) Carbon disulfide	5.47	76	212994	46.94 ug/L #	94
14) Methylene chloride	5.99	84	63741	42.57 ug/L	94
15) Acetone	6.04	43	47944	74.73 ug/L	70
16) Methyl Acetate	6.13	43	46320m	35.79 ug/L	
17) trans-1,2-Dichloroethene	6.17	96	74119	42.83 ug/L	78
18) Methyl tert-butyl Ether	6.26	73	251331	52.65 ug/L	96
19) 1,1-Dichloroethane	6.83	63	219004	47.63 ug/L	96
20) cis-1,2-Dichloroethene	7.38	96	133670	43.34 ug/L	91
21) Bromochloromethane	7.59	128	83369	51.16 ug/L	83
23) Chloroform	7.61	83	348593	53.09 ug/L	95
25) 2-Butanone	7.90	43	98207	75.67 ug/L	87
27) 1,2-Dichloroethane	8.42	62	274582	62.40 ug/L	97
29) 1,4-Dioxane	9.53	88	33522	1123.15 ug/L	92
31) Cyclohexane	7.64	56	127500	30.38 ug/L #	45
32) Carbon tetrachloride	7.83	117	292135m	49.32 ug/L	
33) 1,1,1-Trichloroethane	7.88	97	297375	50.05 ug/L	98
35) Benzene	8.24	78	453573	37.06 ug/L	100
36) Trichloroethene	8.79	95	170065	33.22 ug/L	96
37) Methylcyclohexane	8.82	83	204756	34.08 ug/L	97
39) 1,2-Dichloropropane	9.31	63	121998	36.31 ug/L	98
40) Bromodichloromethane	9.34	83	281906	47.89 ug/L	96

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:13:06 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

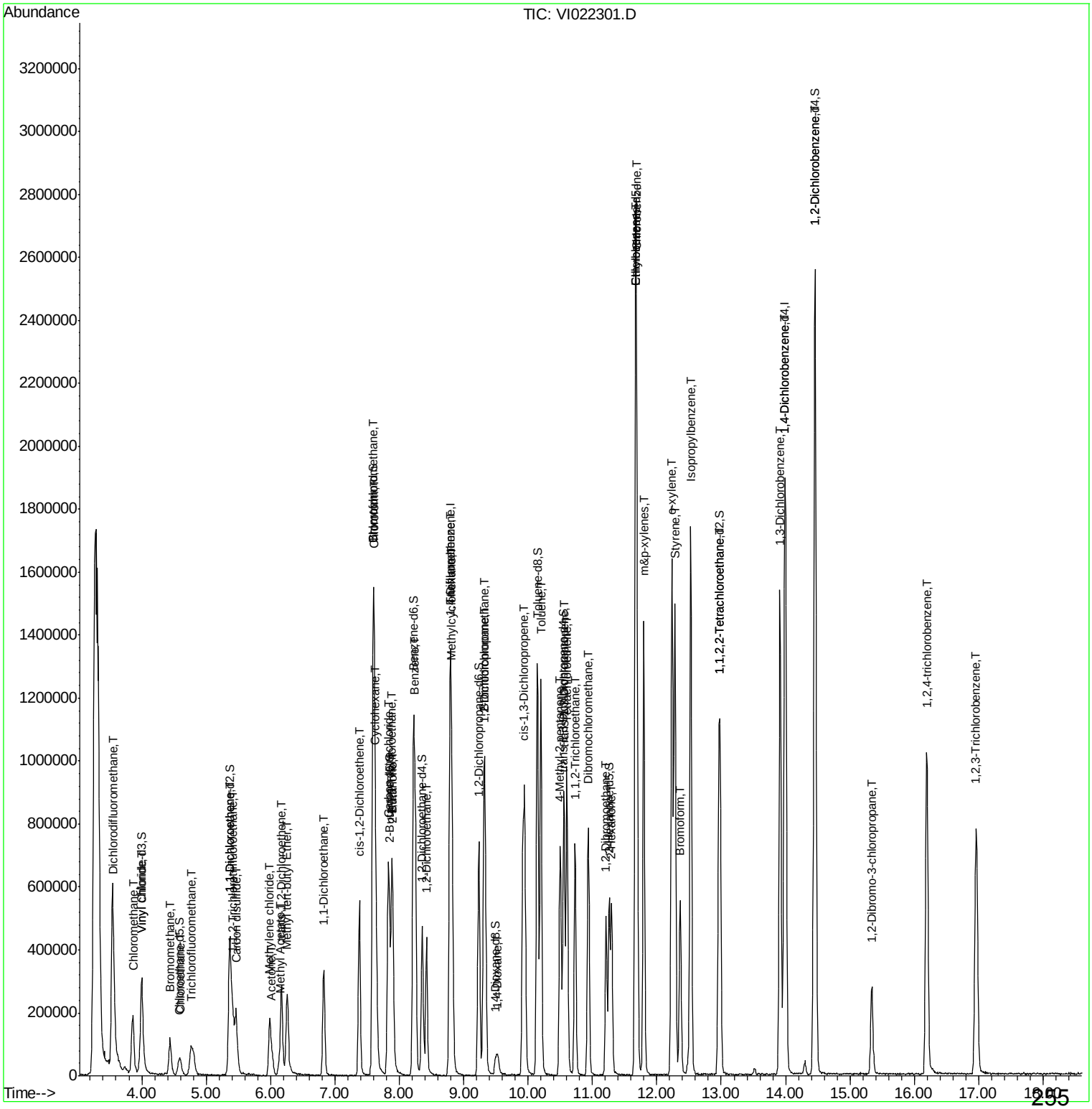
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
41) cis-1,3-Dichloropropene	9.95	75	287553	42.18 ug/L	95
43) Toluene	10.20	91	588118	42.51 ug/L	95
44) 4-Methyl-2-pentanone	10.50	43	330299	79.44 ug/L	96
46) trans-1,3-Dichloropropene	10.56	75	332129	51.88 ug/L	94
47) Tetrachloroethene	10.60	164	128399	51.31 ug/L	88
48) 1,1,2-Trichloroethane	10.73	97	145447	46.88 ug/L	87
49) Dibromochloromethane	10.93	129	241146	56.39 ug/L	98
50) 1,2-Dibromoethane	11.21	107	197942	51.50 ug/L	100
52) 2-Hexanone	11.29	43	263597	82.49 ug/L #	97
53) Ethylbenzene	11.67	91	803325	43.56 ug/L	98
54) Chlorobenzene	11.69	112	441476	52.05 ug/L	94
55) m&p-xylenes	11.80	106	274119	50.38 ug/L	91
56) o-xylene	12.24	106	285576	49.15 ug/L	95
57) Styrene	12.28	104	494602	49.32 ug/L	86
58) Isopropylbenzene	12.52	105	844377	53.55 ug/L	98
60) 1,1,2,2-Tetrachloroethane	12.99	83	251469	52.83 ug/L #	90
62) Bromoform	12.36	173	159816	56.66 ug/L #	97
63) 1,3-Dichlorobenzene	13.91	146	418903	51.65 ug/L	95
64) 1,4-Dichlorobenzene	14.00	146	404002	51.53 ug/L	92
66) 1,2-Dichlorobenzene	14.46	146	364796	49.88 ug/L	94
67) 1,2-Dibromo-3-chloropropan	15.34	75	62786	52.89 ug/L #	79
68) 1,2,4-trichlorobenzene	16.20	180	220821	48.71 ug/L	98
69) 1,2,3-Trichlorobenzene	16.96	180	176196	43.14 ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022301.D
Acq On : 19 Oct 2008 13:24
Operator : MS
Sample : 50 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 6 Sample Multiplier: 1

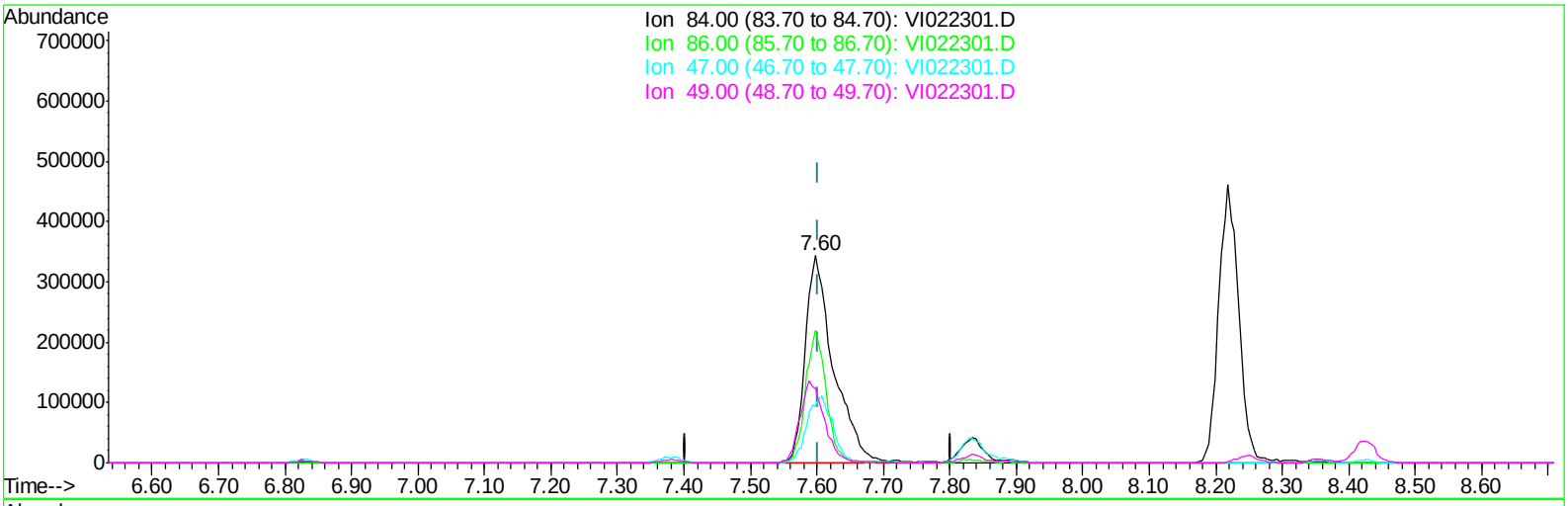
Quant Time: Oct 20 10:29:10 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

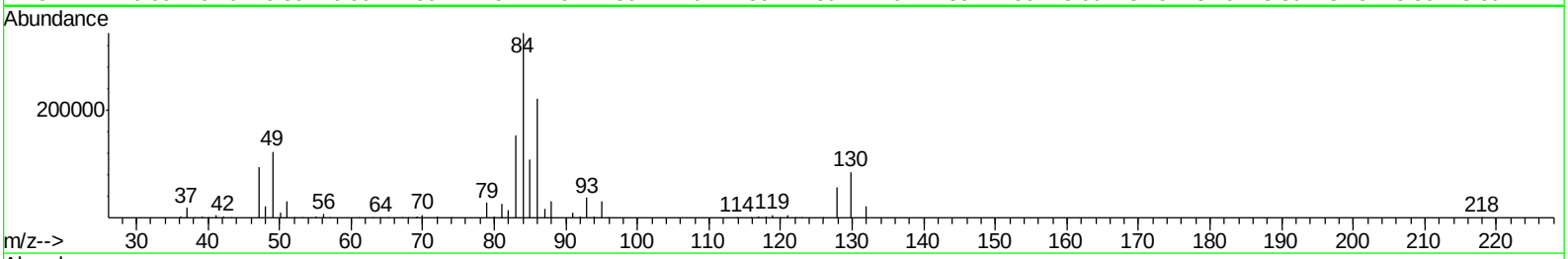


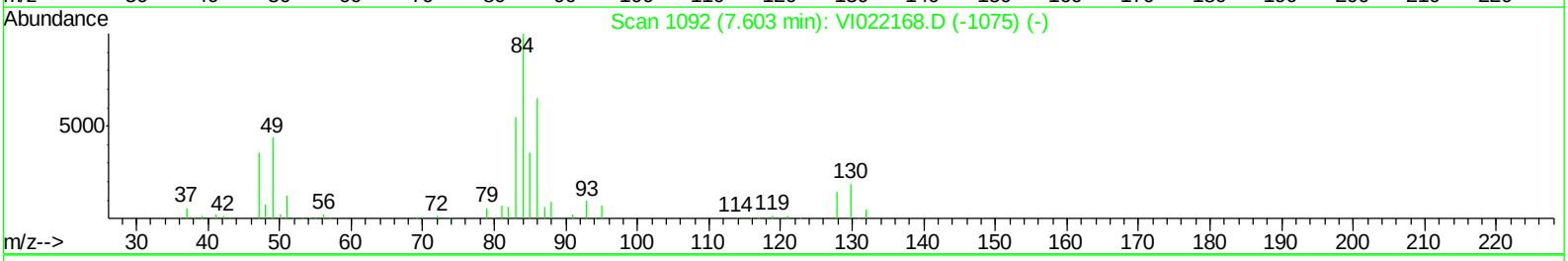
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022301.D
Acq On : 19 Oct 2008 13:24
Operator : MS
Sample : 50 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 10:28:23 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022301.D

(22) Chloroform-d (S)

7.598min (-0.005) 127.36ug/L

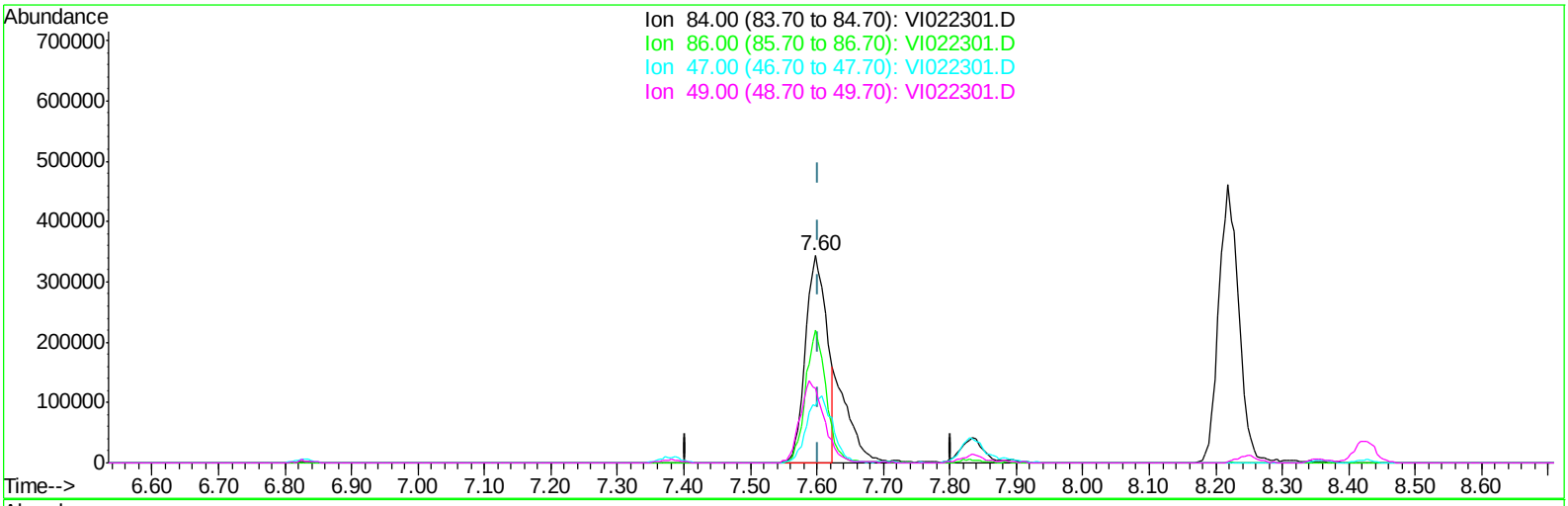
response 1027663

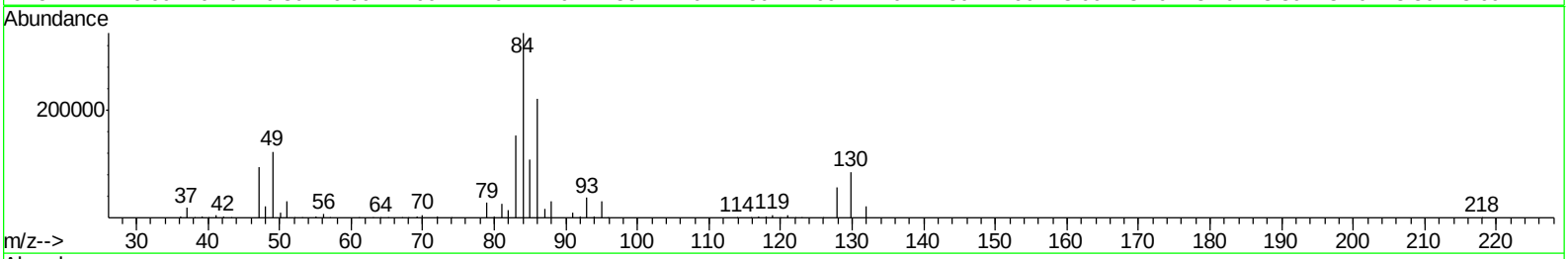
Ion	Exp%	Act%
84.00	100	100
86.00	55.90	47.46
47.00	40.10	28.99
49.00	52.50	34.58#

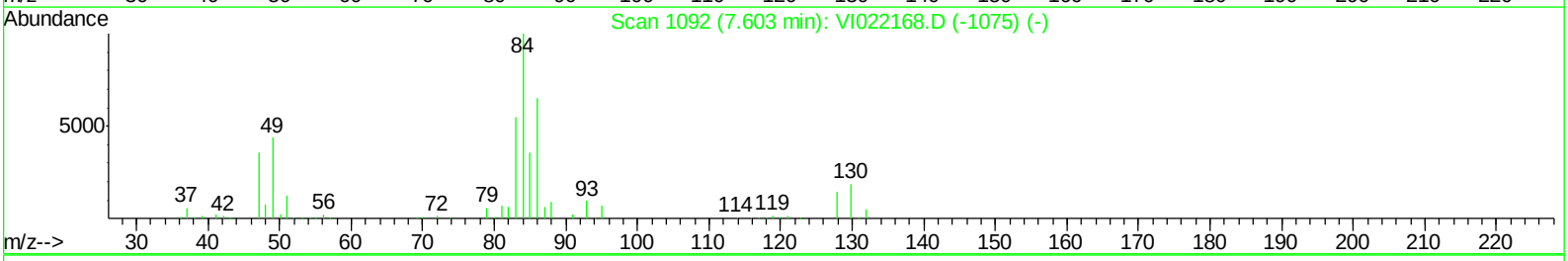
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022301.D
Acq On : 19 Oct 2008 13:24
Operator : MS
Sample : 50 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 10:28:23 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022301.D

(22) Chloroform-d (S)

7.598min (-0.005) 94.48ug/L m

response 762330

Ion	Exp%	Act%
84.00	100	100
86.00	55.90	63.98
47.00	40.10	39.08
49.00	52.50	46.62

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022301.D
Acq On : 19 Oct 2008 13:24
Operator : MS
Sample : 50 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 10:29:10 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	8.78	114	442190	50.00 ug/L	0.00
30) Chlorobenzene-d5	11.67	117	470847	50.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	13.98	152	291223	50.00 ug/L	0.00
System Monitoring Compounds					
4) Vinyl Chloride-d3	4.00	65	298483	97.11 ug/L	0.00
7) Chloroethane-d5	4.58	69	52263	63.30 ug/L	-0.01
10) 1,1-Dichloroethene-d2	5.36	63	286528	89.24 ug/L	-0.02
22) Chloroform-d	7.60	84	762330m	94.48 ug/L	0.00
24) 2-Butanone-d5	7.85	46	185386	136.24 ug/L	0.00
26) 1,2-Dichloroethane-d4	8.35	65	445431	112.87 ug/L	0.00
28) 1,4-Dioxane-d8	9.49	96	47487	1688.78 ug/L	-0.01
34) Benzene-d6	8.22	84	958395	66.55 ug/L	0.00
38) 1,2-Dichloropropane-d6	9.24	67	316701	72.08 ug/L	0.00
42) Toluene-d8	10.15	98	931824	76.16 ug/L	0.00
45) trans-1,3-Dichloropropene-	10.54	79	145416	89.19 ug/L	0.00
51) 2-Hexanone-d5	11.27	63	235352	163.01 ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	12.96	84	482990	91.92 ug/L	0.00
65) 1,2-Dichlorobenzene-d4	14.45	152	570676	103.03 ug/L	0.00

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.57	85	400962	105.00 ug/L	93
3) Chloromethane	3.87	50	308881	77.28 ug/L	84
5) Vinyl chloride	4.00	62	308279	90.81 ug/L	96
6) Bromomethane	4.44	94	116216	85.18 ug/L	83
8) Chloroethane	4.60	64	40032	66.08 ug/L	96
9) Trichlorofluoromethane	4.77	101	204641	86.83 ug/L #	44
11) 1,1-Dichloroethene	5.37	96	115224	82.88 ug/L	94
12) 1,1,2-Trichlorotrifluoroet	5.42	101	130525	86.68 ug/L #	86
13) Carbon disulfide	5.46	76	377306	84.27 ug/L #	95
14) Methylene chloride	5.99	84	103096	69.78 ug/L	91
15) Acetone	6.02	43	75802	119.74 ug/L	97
16) Methyl Acetate	6.14	43	68781	53.86 ug/L	92
17) trans-1,2-Dichloroethene	6.17	96	115744	67.78 ug/L	85
18) Methyl tert-butyl Ether	6.26	73	398819	84.67 ug/L	98
19) 1,1-Dichloroethane	6.82	63	358560	79.03 ug/L	95
20) cis-1,2-Dichloroethene	7.38	96	269811	88.65 ug/L	82
21) Bromochloromethane	7.59	128	179173	111.42 ug/L #	76
23) Chloroform	7.61	83	585716	90.40 ug/L	93
25) 2-Butanone	7.90	43	165140	128.95 ug/L	96
27) 1,2-Dichloroethane	8.42	62	441683	101.73 ug/L	98
29) 1,4-Dioxane	9.52	88	59328	2014.48 ug/L	93
31) Cyclohexane	7.64	56	207151	49.80 ug/L #	25
32) Carbon tetrachloride	7.83	117	558218	95.10 ug/L	89
33) 1,1,1-Trichloroethane	7.89	97	495098	84.09 ug/L	99
35) Benzene	8.25	78	792043	65.29 ug/L	100
36) Trichloroethene	8.80	95	304150	59.95 ug/L #	77
37) Methylcyclohexane	8.82	83	357090	59.98 ug/L	95
39) 1,2-Dichloropropane	9.31	63	215883	64.84 ug/L #	97
40) Bromodichloromethane	9.34	83	515901	88.43 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022301.D
Acq On : 19 Oct 2008 13:24
Operator : MS
Sample : 50 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 10:29:10 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

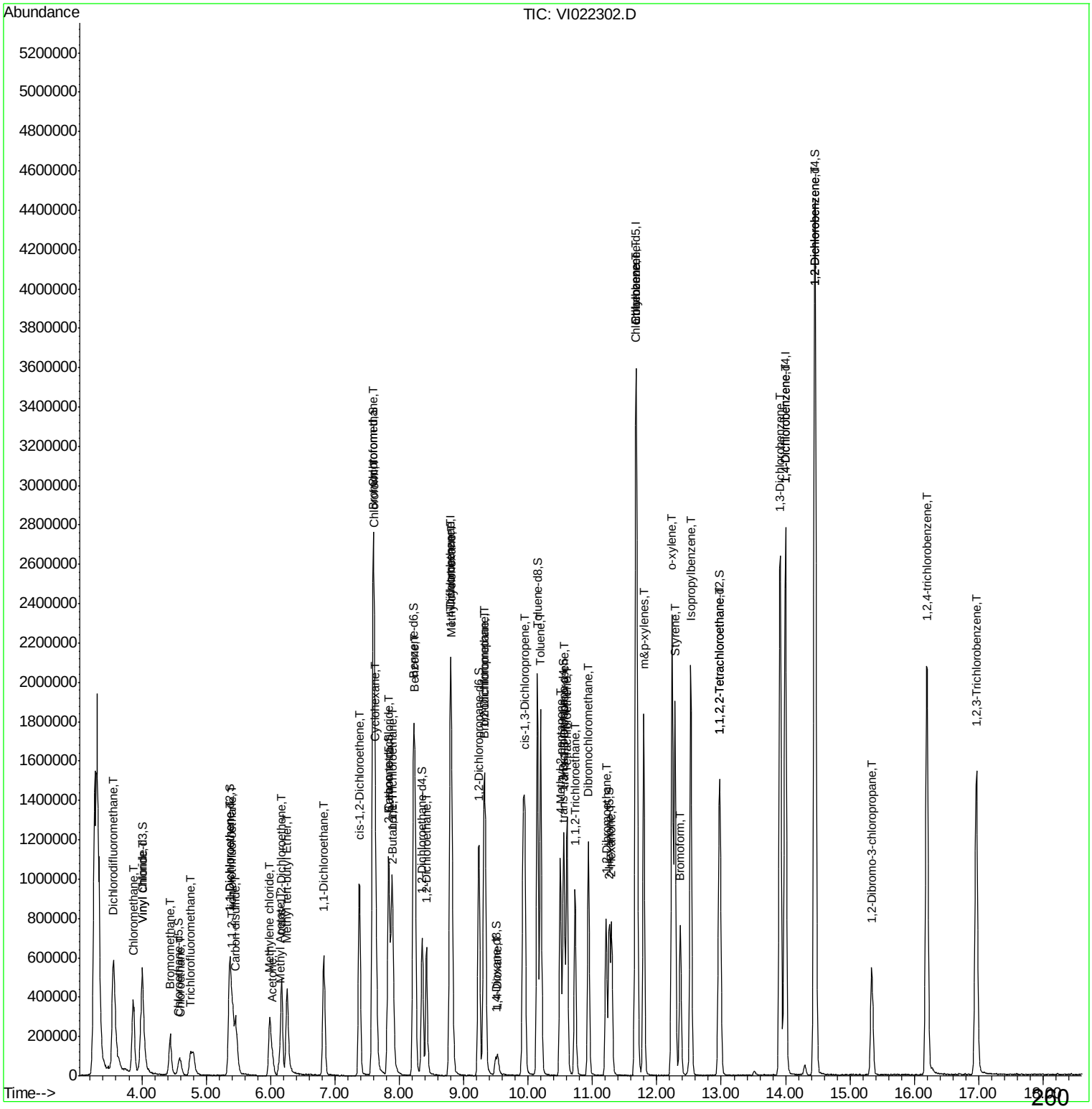
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
41) cis-1,3-Dichloropropene	9.95	75	558888	82.71 ug/L	93
43) Toluene	10.20	91	984090	71.78 ug/L	87
44) 4-Methyl-2-pentanone	10.50	43	538946	130.79 ug/L #	94
46) trans-1,3-Dichloropropene	10.56	75	566248	89.25 ug/L	90
47) Tetrachloroethene	10.60	164	246075	99.22 ug/L	90
48) 1,1,2-Trichloroethane	10.73	97	255507	83.10 ug/L	96
49) Dibromochloromethane	10.93	129	488587	115.28 ug/L	92
50) 1,2-Dibromoethane	11.21	107	392792	103.11 ug/L	87
52) 2-Hexanone	11.29	43	398754	125.91 ug/L #	89
53) Ethylbenzene	11.67	91	1515930	82.95 ug/L	96
54) Chlorobenzene	11.69	112	803907	95.64 ug/L	98
55) m&p-xylenes	11.80	106	460328	85.37 ug/L	80
56) o-xylene	12.23	106	561499	97.52 ug/L	100
57) Styrene	12.28	104	866819	87.22 ug/L	92
58) Isopropylbenzene	12.53	105	1535116	98.23 ug/L	97
60) 1,1,2,2-Tetrachloroethane	12.98	83	434686	92.15 ug/L #	91
62) Bromoform	12.36	173	314634	105.25 ug/L #	97
63) 1,3-Dichlorobenzene	13.91	146	861825	100.27 ug/L	97
64) 1,4-Dichlorobenzene	14.00	146	833588	100.33 ug/L	91
66) 1,2-Dichlorobenzene	14.46	146	770758	99.46 ug/L	96
67) 1,2-Dibromo-3-chloropropan	15.34	75	115919	92.14 ug/L #	65
68) 1,2,4-trichlorobenzene	16.19	180	491978	102.41 ug/L	97
69) 1,2,3-Trichlorobenzene	16.96	180	398622	92.10 ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022302.D
Acq On : 19 Oct 2008 13:49
Operator : MS
Sample : 100 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 7 Sample Multiplier: 1

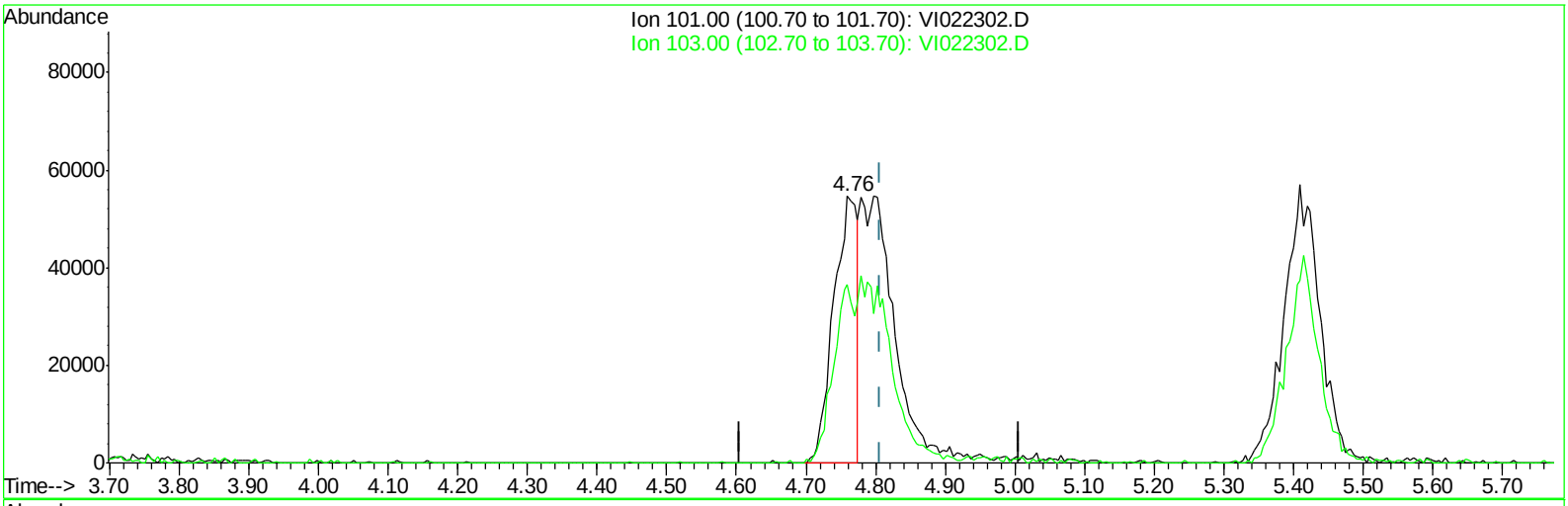
Quant Time: Oct 20 10:31:57 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

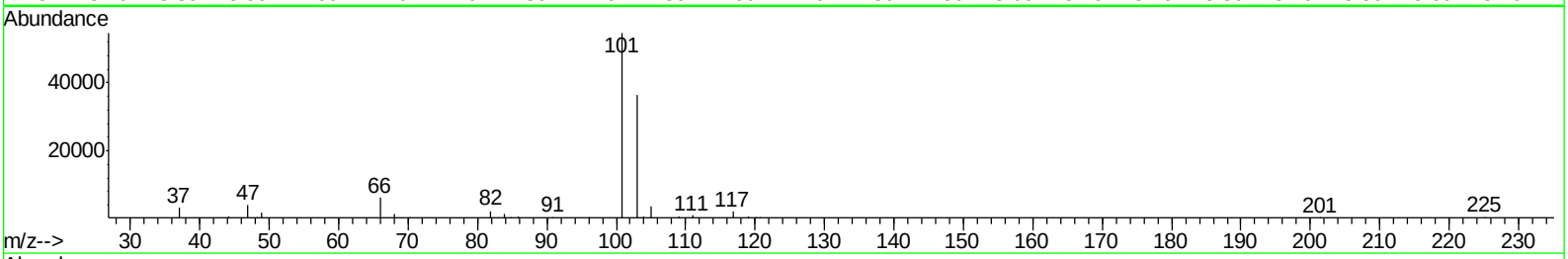


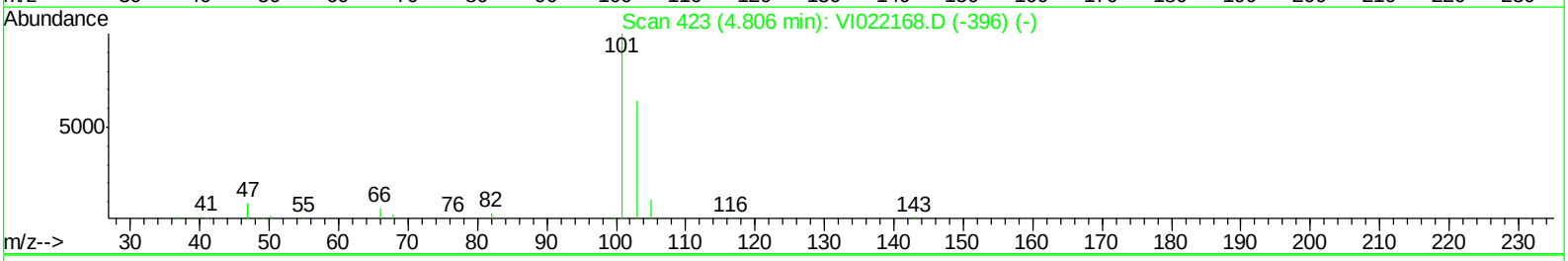
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022302.D
Acq On : 19 Oct 2008 13:49
Operator : MS
Sample : 100 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 10:30:48 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022302.D

(9) Trichlorofluoromethane (T)

4.759min (-0.047) 63.52ug/L

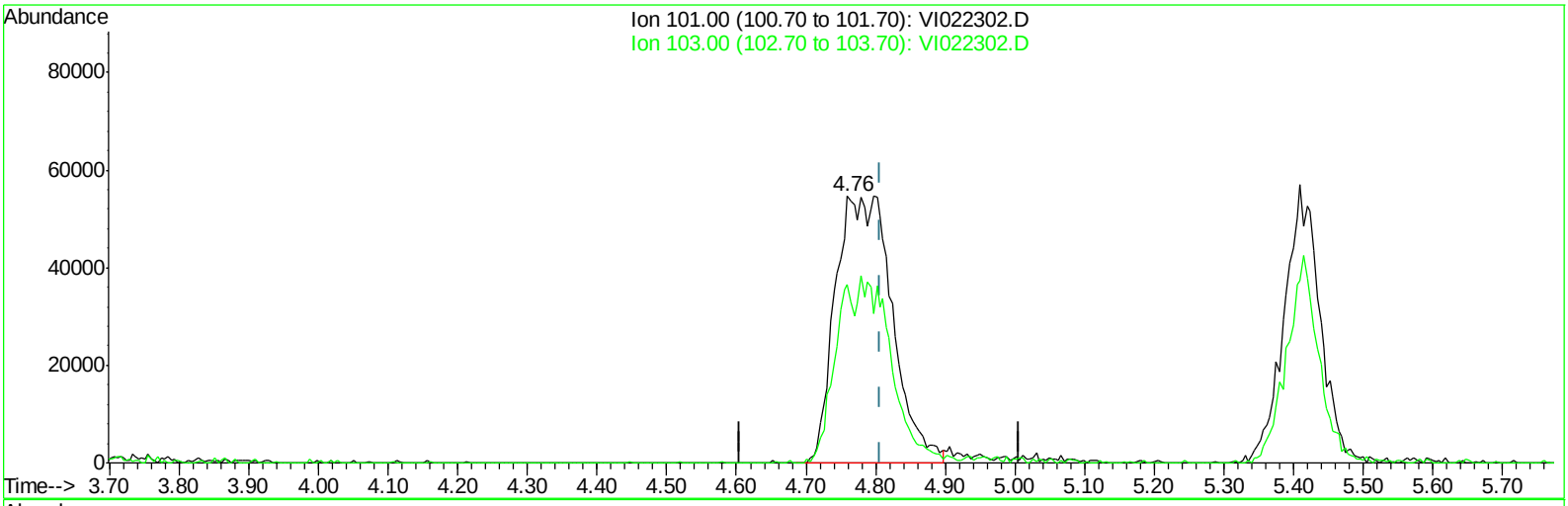
response 129177

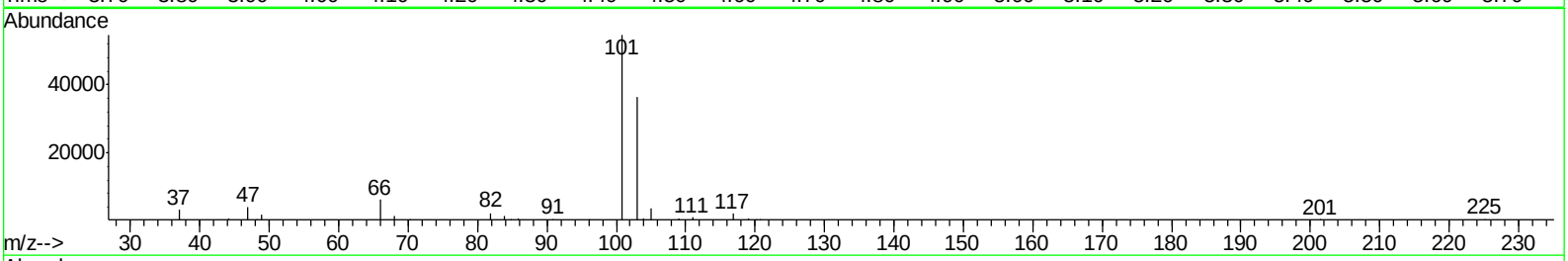
Ion	Exp%	Act%
101.00	100	100
103.00	33.00	58.14#
0.00	0.00	0.00
0.00	0.00	0.00

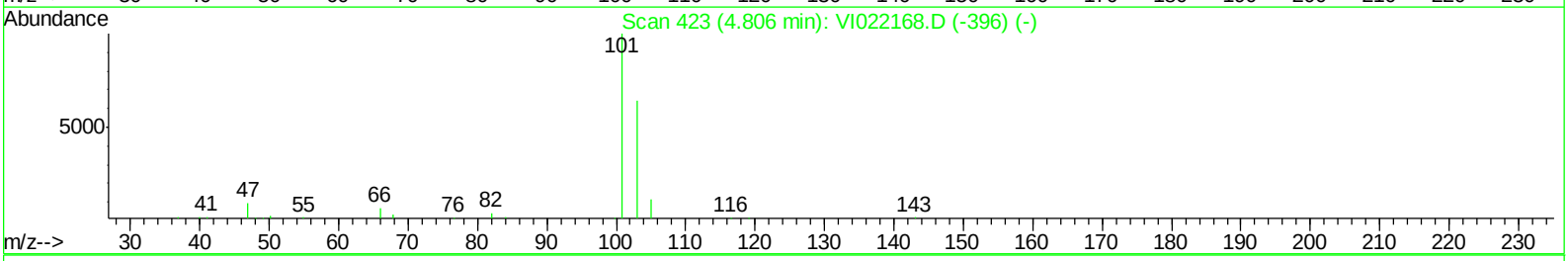
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022302.D
Acq On : 19 Oct 2008 13:49
Operator : MS
Sample : 100 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 10:30:48 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022302.D

(9) Trichlorofluoromethane (T)

4.759min (-0.047) 154.79ug/L m

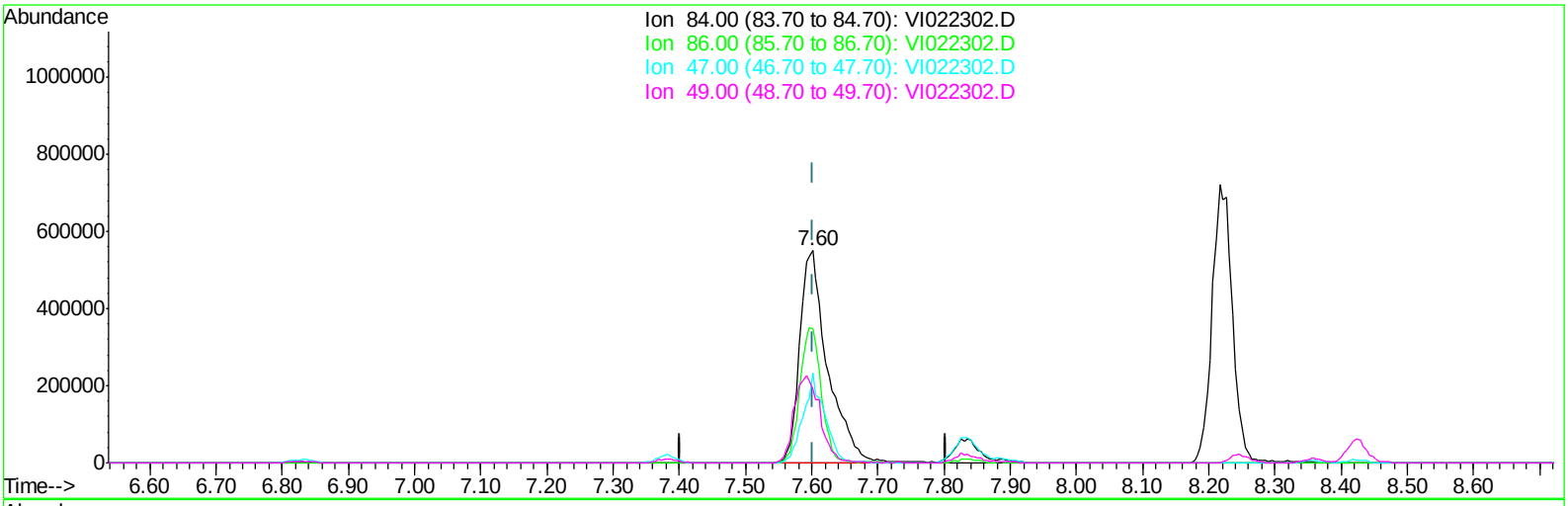
response 314795

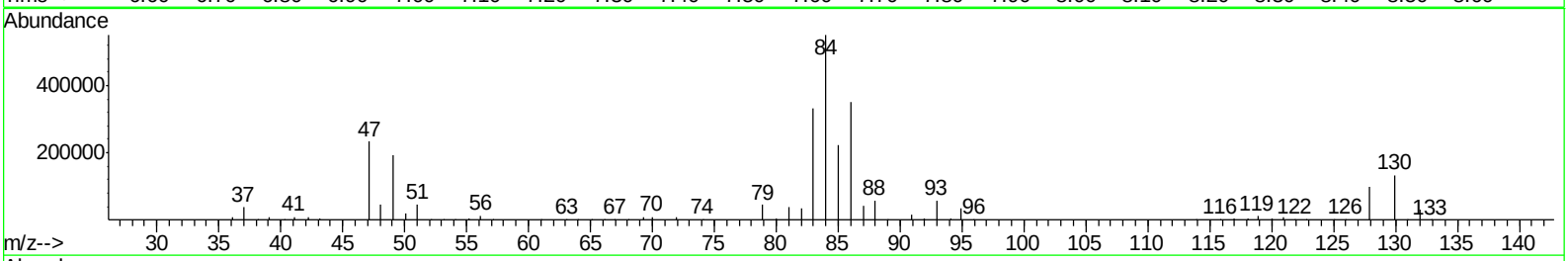
Ion	Exp%	Act%
101.00	100	100
103.00	33.00	23.86#
0.00	0.00	0.00
0.00	0.00	0.00

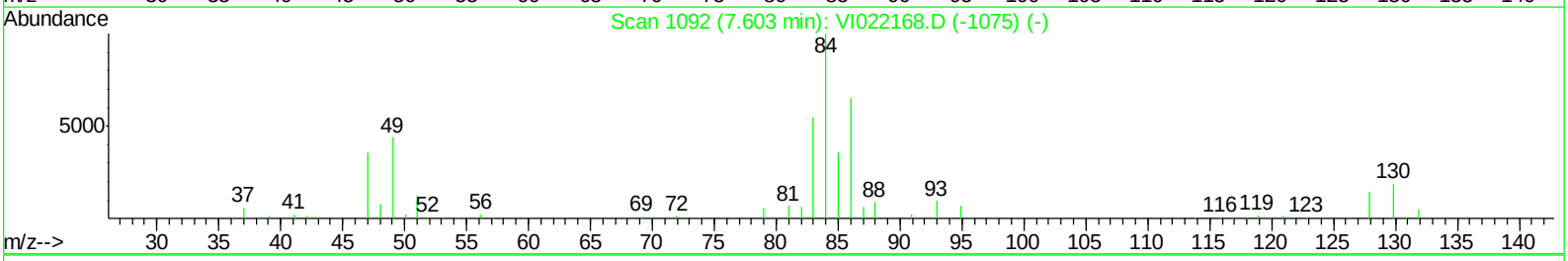
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022302.D
Acq On : 19 Oct 2008 13:49
Operator : MS
Sample : 100 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 10:30:48 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022302.D

(22) Chloroform-d (S)

7.601min (-0.001) 227.98ug/L

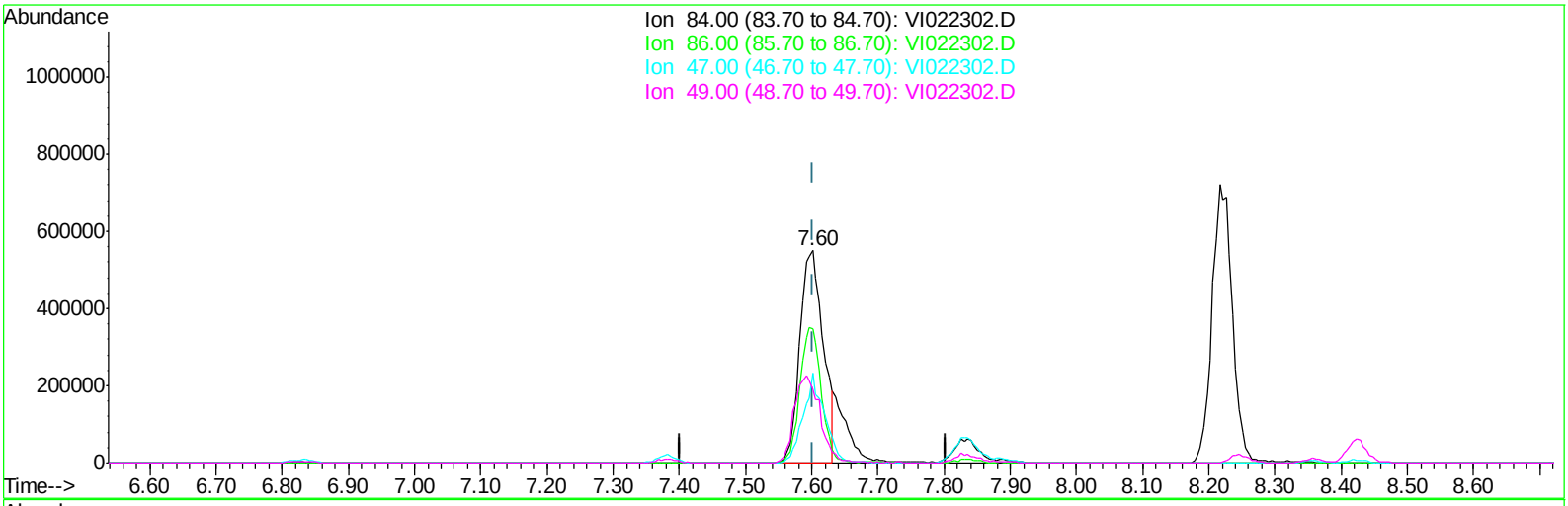
response 1587420

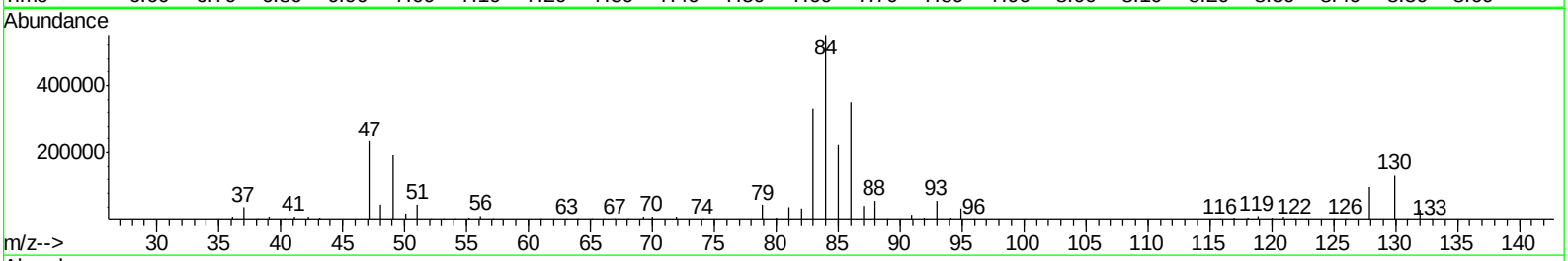
Ion	Exp%	Act%
84.00	100	100
86.00	55.90	49.11
47.00	40.10	32.16
49.00	52.50	37.66

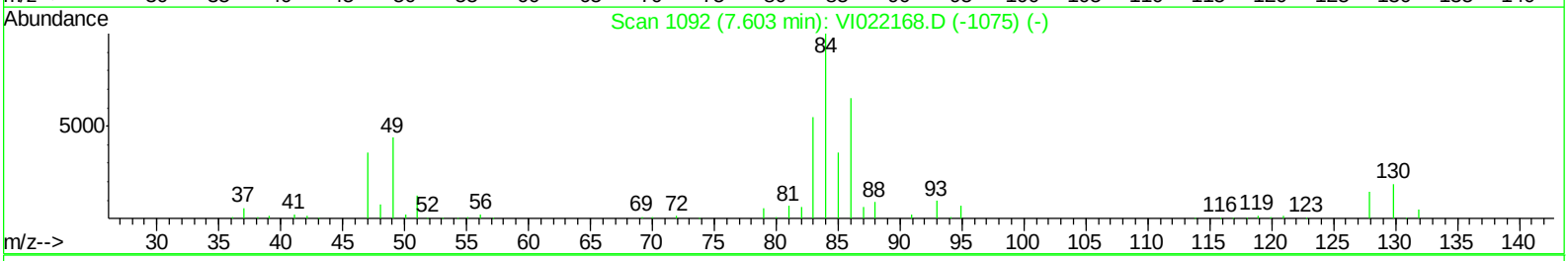
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022302.D
Acq On : 19 Oct 2008 13:49
Operator : MS
Sample : 100 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 10:30:48 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022302.D

(22) Chloroform-d (S)

7.601min (-0.001) 190.63ug/L m

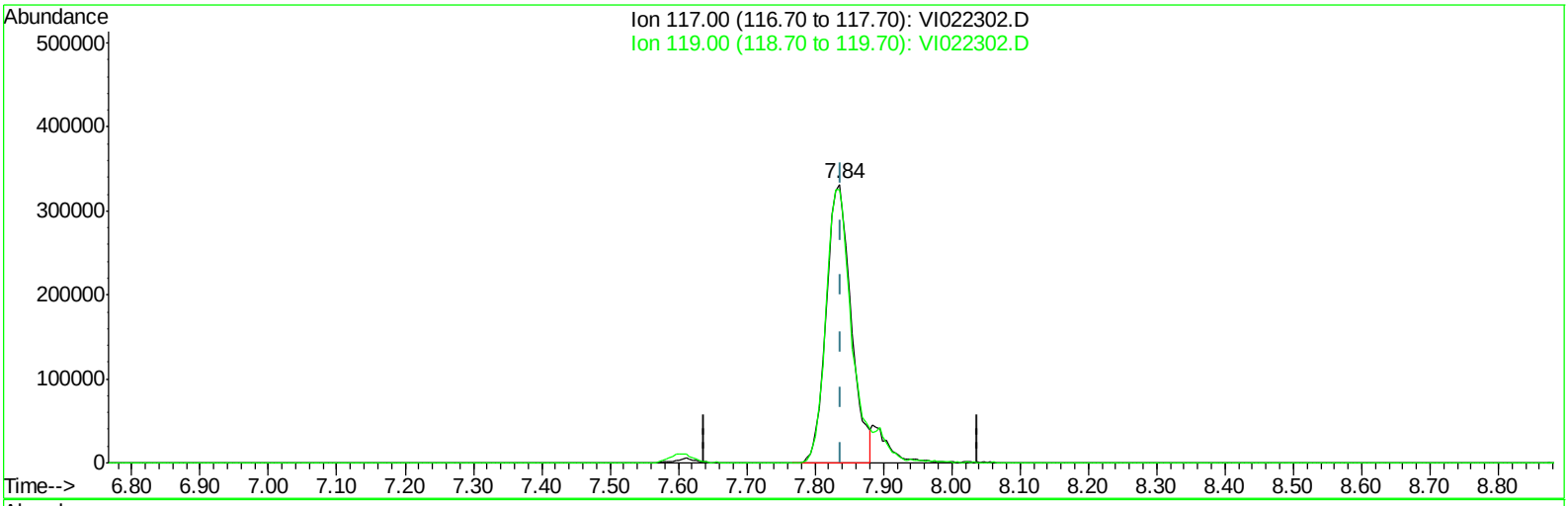
response 1327377

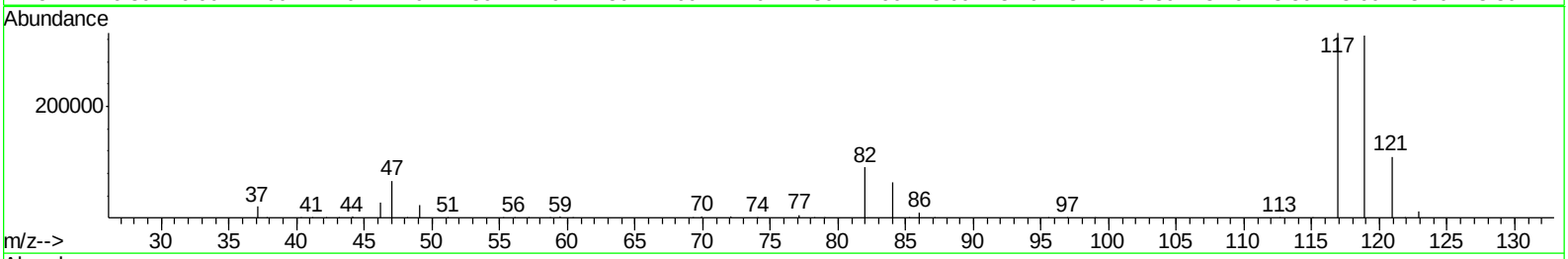
Ion	Exp%	Act%
84.00	100	100
86.00	55.90	58.73
47.00	40.10	38.47
49.00	52.50	45.03

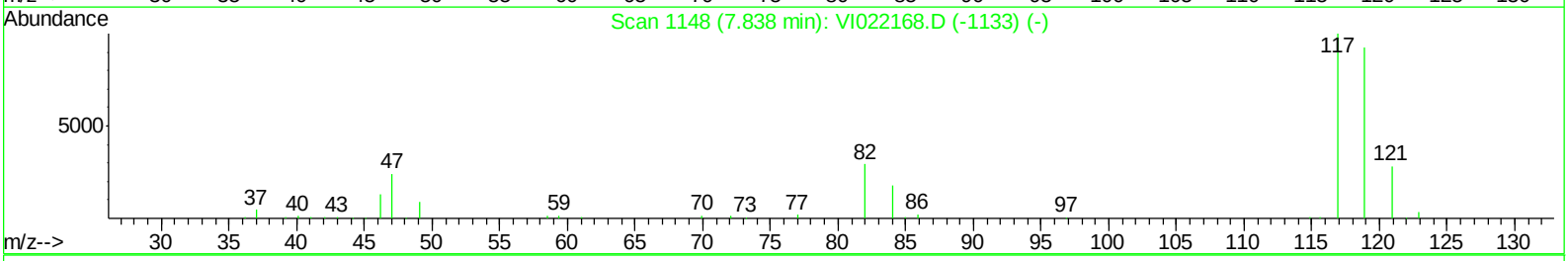
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022302.D
Acq On : 19 Oct 2008 13:49
Operator : MS
Sample : 100 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 10:30:48 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022302.D

(32) Carbon tetrachloride (T)

7.835min (-0.003) 189.89ug/L

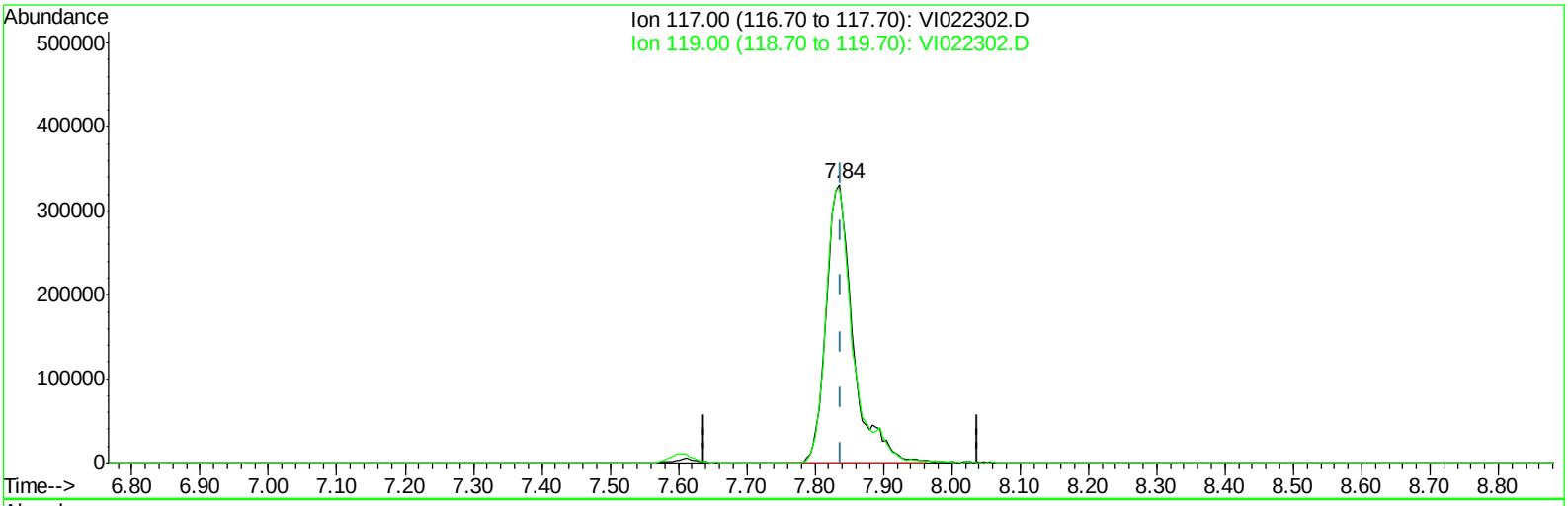
response 807186

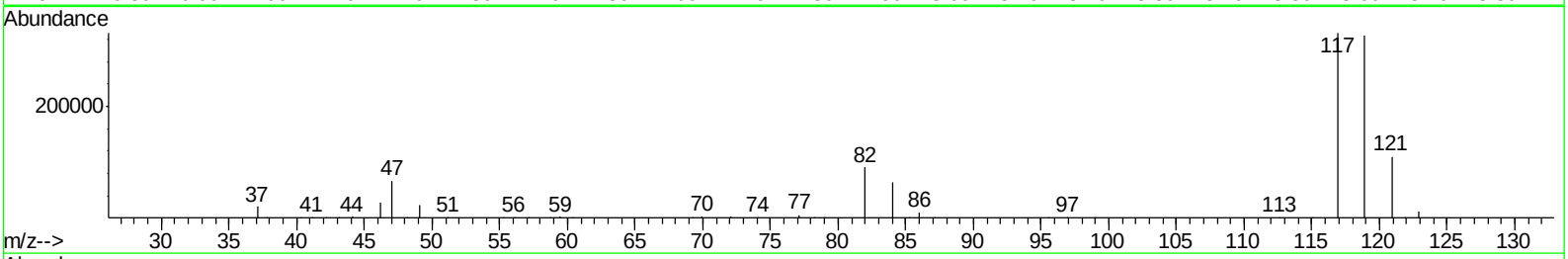
Ion	Exp%	Act%
117.00	100	100
119.00	91.10	107.42
0.00	0.00	0.00
0.00	0.00	0.00

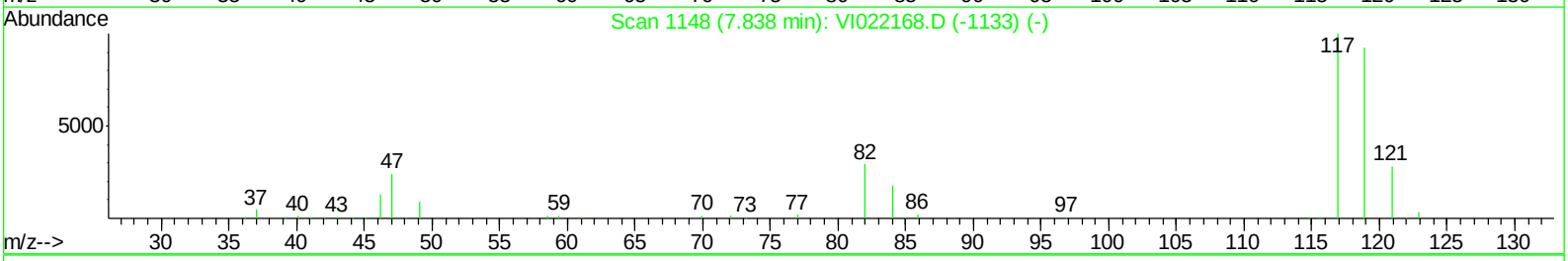
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022302.D
Acq On : 19 Oct 2008 13:49
Operator : MS
Sample : 100 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 10:30:48 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022302.D

(32) Carbon tetrachloride (T)

7.835min (-0.003) 204.46ug/L m

response 869092

Ion	Exp%	Act%
117.00	100	100
119.00	91.10	99.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022302.D
Acq On : 19 Oct 2008 13:49
Operator : MS
Sample : 100 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 10:31:57 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	8.78	114	381591	50.00 ug/L	0.00
30) Chlorobenzene-d5	11.68	117	340968	50.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	13.99	152	242407	50.00 ug/L	0.00
System Monitoring Compounds					
4) Vinyl Chloride-d3	4.00	65	536619	202.32 ug/L	0.00
7) Chloroethane-d5	4.57	69	87510	122.82 ug/L	-0.02
10) 1,1-Dichloroethene-d2	5.36	63	439181	158.50 ug/L	-0.02
22) Chloroform-d	7.60	84	1327377m	190.63 ug/L	0.00
24) 2-Butanone-d5	7.85	46	281617	239.83 ug/L	-0.01
26) 1,2-Dichloroethane-d4	8.36	65	618859	181.72 ug/L	0.00
28) 1,4-Dioxane-d8	9.50	96	71478	2945.65 ug/L	0.00
34) Benzene-d6	8.22	84	1498863	143.72 ug/L	0.00
38) 1,2-Dichloropropane-d6	9.24	67	484530	152.28 ug/L	0.00
42) Toluene-d8	10.15	98	1413838	159.58 ug/L	0.00
45) trans-1,3-Dichloropropene-	10.54	79	190386	161.25 ug/L	0.00
51) 2-Hexanone-d5	11.26	63	286976	274.48 ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	12.97	84	568837	149.50 ug/L	0.00
65) 1,2-Dichlorobenzene-d4	14.45	152	1013691	219.86 ug/L	0.00

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.57	85	887344	269.28 ug/L	97
3) Chloromethane	3.87	50	651827	188.98 ug/L	99
5) Vinyl chloride	4.01	62	596511	203.61 ug/L	97
6) Bromomethane	4.44	94	193469	164.32 ug/L	97
8) Chloroethane	4.61	64	69278	132.52 ug/L	93
9) Trichlorofluoromethane	4.76	101	314795m	154.79 ug/L	
11) 1,1-Dichloroethene	5.37	96	166764	139.00 ug/L	100
12) 1,1,2-Trichlorotrifluoroet	5.41	101	195601	150.53 ug/L	95
13) Carbon disulfide	5.46	76	586924	151.90 ug/L #	95
14) Methylene chloride	5.99	84	176243	138.23 ug/L	89
15) Acetone	6.03	43	133074	243.59 ug/L	96
16) Methyl Acetate	6.14	43	122689	111.33 ug/L	93
17) trans-1,2-Dichloroethene	6.17	96	192140	130.38 ug/L	79
18) Methyl tert-butyl Ether	6.26	73	639511	157.33 ug/L	94
19) 1,1-Dichloroethane	6.83	63	610188	155.84 ug/L #	91
20) cis-1,2-Dichloroethene	7.38	96	446457	169.98 ug/L	87
21) Bromochloromethane	7.59	128	319076	229.94 ug/L #	66
23) Chloroform	7.62	83	983980	175.98 ug/L	95
25) 2-Butanone	7.91	43	240271	217.42 ug/L	100
27) 1,2-Dichloroethane	8.42	62	648166	172.99 ug/L #	95
29) 1,4-Dioxane	9.53	88	85217	3353.05 ug/L	98
31) Cyclohexane	7.64	56	309846	102.87 ug/L #	18
32) Carbon tetrachloride	7.84	117	869092m	204.46 ug/L	
33) 1,1,1-Trichloroethane	7.89	97	730684	171.37 ug/L	96
35) Benzene	8.25	78	1167322	132.88 ug/L	100
36) Trichloroethene	8.80	95	501523	136.51 ug/L #	68
37) Methylcyclohexane	8.82	83	558364	129.51 ug/L	94
39) 1,2-Dichloropropane	9.31	63	319316	132.43 ug/L #	96
40) Bromodichloromethane	9.34	83	714543	169.14 ug/L #	94

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022302.D
Acq On : 19 Oct 2008 13:49
Operator : MS
Sample : 100 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 10:31:57 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
41) cis-1,3-Dichloropropene	9.95	75	830645	169.76 ug/L	97
43) Toluene	10.20	91	1308805	131.83 ug/L	95
44) 4-Methyl-2-pentanone	10.50	43	825171	276.53 ug/L #	96
46) trans-1,3-Dichloropropene	10.56	75	718770	156.45 ug/L	92
47) Tetrachloroethene	10.60	164	348969	194.30 ug/L	81
48) 1,1,2-Trichloroethane	10.73	97	305407	137.17 ug/L	88
49) Dibromochloromethane	10.94	129	710679	231.55 ug/L	86
50) 1,2-Dibromoethane	11.21	107	580719	210.51 ug/L	89
52) 2-Hexanone	11.30	43	578982	252.45 ug/L #	94
53) Ethylbenzene	11.67	91	2142922	161.93 ug/L	96
54) Chlorobenzene	11.69	112	1044055	171.53 ug/L	99
55) m&p-xylenes	11.80	106	534711	136.94 ug/L	76
56) o-xylene	12.24	106	758954	182.02 ug/L	95
57) Styrene	12.28	104	996340	138.43 ug/L	91
58) Isopropylbenzene	12.53	105	1582212	139.81 ug/L	94
60) 1,1,2,2-Tetrachloroethane	12.99	83	484455	141.82 ug/L #	97
62) Bromoform	12.37	173	417644	167.84 ug/L #	97
63) 1,3-Dichlorobenzene	13.92	146	1475263	206.21 ug/L	88
64) 1,4-Dichlorobenzene	14.00	146	1341953	194.03 ug/L	93
66) 1,2-Dichlorobenzene	14.46	146	1322857	205.07 ug/L	92
67) 1,2-Dibromo-3-chloropropan	15.34	75	209228	199.79 ug/L #	66
68) 1,2,4-trichlorobenzene	16.19	180	1013128	253.37 ug/L	99
69) 1,2,3-Trichlorobenzene	16.97	180	809113	224.58 ug/L	99

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

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAE Calibration Date: 10/17/2008 Time: 10:42

Lab File ID: VE010472.D Init. Calib. Date(s): 10/16/2008 10/16/2008

EPA Sample No. (VSTD#####): VSTD050 Init. Calib. Time(s): 13:58 18:14

Heated Purge: (Y/N) N GC Column: ZB-624 ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 5 (mL)

COMPOUND	RRF	RRF25	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.379	0.409	0.010	7.9	40.0
Chloromethane	0.291	0.289	0.010	-0.7	40.0
Vinyl Chloride	0.240	0.258	0.100	7.5	25.0
Bromomethane	0.086	0.087	0.100	1.2	25.0
Chloroethane	0.103	0.102	0.010	-1.0	40.0
Trichlorofluoromethane	0.371	0.467	0.010	25.9	40.0
1,1-Dichloroethene	0.195	0.227	0.100	16.4	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.232	0.268	0.010	15.5	40.0
Acetone	0.092	0.097	0.010	5.4	40.0
Carbon disulfide	0.741	0.802	0.010	8.2	40.0
Methyl acetate	0.239	0.235	0.010	-1.7	40.0
Methylene chloride	0.380	0.394	0.010	3.7	40.0
trans-1,2-Dichloroethene	0.344	0.353	0.010	2.6	40.0
Methyl tert-Butyl ether	0.770	0.824	0.010	7.0	40.0
1,1-Dichloroethane	0.584	0.598	0.200	2.4	25.0
cis-1,2-Dichloroethene	0.357	0.372	0.010	4.2	40.0
2-Butanone	0.155	0.139	0.010	-10.3	40.0
Bromochloromethane	0.204	0.219	0.050	7.4	25.0
Chloroform	0.660	0.695	0.200	5.3	25.0
1,1,1-Trichloroethane	0.485	0.517	0.100	6.6	25.0
Cyclohexane	0.383	0.396	0.010	3.4	40.0
Carbon Tetrachloride	0.402	0.462	0.100	14.9	25.0
Benzene	1.047	1.073	0.400	2.5	25.0
1,2-Dichloroethane	0.531	0.585	0.100	10.2	25.0
1,4-Dioxane	0.004	0.004	0.005	0.0	50.0
Trichloroethene	0.345	0.355	0.300	2.9	25.0
Methylcyclohexane	0.510	0.526	0.010	3.1	40.0

Report 1,4 -Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAE Calibration Date: 10/17/2008 Time: 10:42

Lab File ID: VE010472.D Init. Calib. Date(s): 10/16/2008 10/16/2008

EPA Sample No. (VSTD#####): VSTD050 Init. Calib. Time(s): 13:58 18:14

Heated Purge: (Y/N) N GC Column: ZB-624 ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 5 (mL)

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX%D
1,2-Dichloropropane	0.307	0.291	0.010	-5.2	40.0
Bromodichloromethane	0.491	0.513	0.200	4.5	25.0
cis-1,3-Dichloropropene	0.565	0.580	0.200	2.7	25.0
4-Methyl-2-pentanone	0.378	0.329	0.010	-13.0	40.0
Toluene	1.311	1.366	0.400	4.2	25.0
trans-1,3-Dichloropropene	0.563	0.592	0.100	5.2	25.0
1,1,2-Trichloroethane	0.362	0.360	0.100	-0.6	25.0
Tetrachloroethene	0.296	0.333	0.100	12.5	25.0
2-Hexanone	0.286	0.251	0.010	-12.2	40.0
Dibromochloromethane	0.401	0.435	0.100	8.5	25.0
1,2-Dibromoethane	0.453	0.449	0.010	-0.9	40.0
Chlorobenzene	0.989	1.040	0.500	5.2	25.0
Ethylbenzene	1.562	1.705	0.100	9.2	25.0
o-Xylene	0.581	0.645	0.300	11.0	25.0
m,p-Xylene	0.622	0.684	0.300	10.0	25.0
Styrene	1.008	1.088	0.300	7.9	25.0
Bromoform	0.496	0.468	0.050	-5.6	25.0
Isopropylbenzene	1.516	1.656	0.010	9.2	40.0
1,1,2,2-Tetrachloroethane	0.596	0.559	0.300	-6.2	25.0
1,3-Dichlorobenzene	1.506	1.520	0.600	0.9	25.0
1,4-Dichlorobenzene	1.538	1.554	0.500	1.0	25.0
1,2-Dichlorobenzene	1.394	1.423	0.400	2.1	25.0
1,2-Dibromo-3-chloropropane	0.194	0.159	0.010	-18.0	40.0
1,2,4-Trichlorobenzene	0.761	0.732	0.200	-3.8	25.0
1,2,3-Trichlorobenzene	0.668	0.604	0.200	-9.6	25.0

Report 1,4 -Dioxane for Low-Medium VOA analysis only

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAE Calibration Date: 10/17/2008 Time: 10:42

Lab File ID: VE010472.D Init. Calib. Date(s): 10/16/2008 10/16/2008

EPA Sample No. (VSTD#####): VSTD050 Init. Calib. Time(s): 13:58 18:14

Heated Purge: (Y/N) N GC Column: ZB-624 ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 5 (mL)

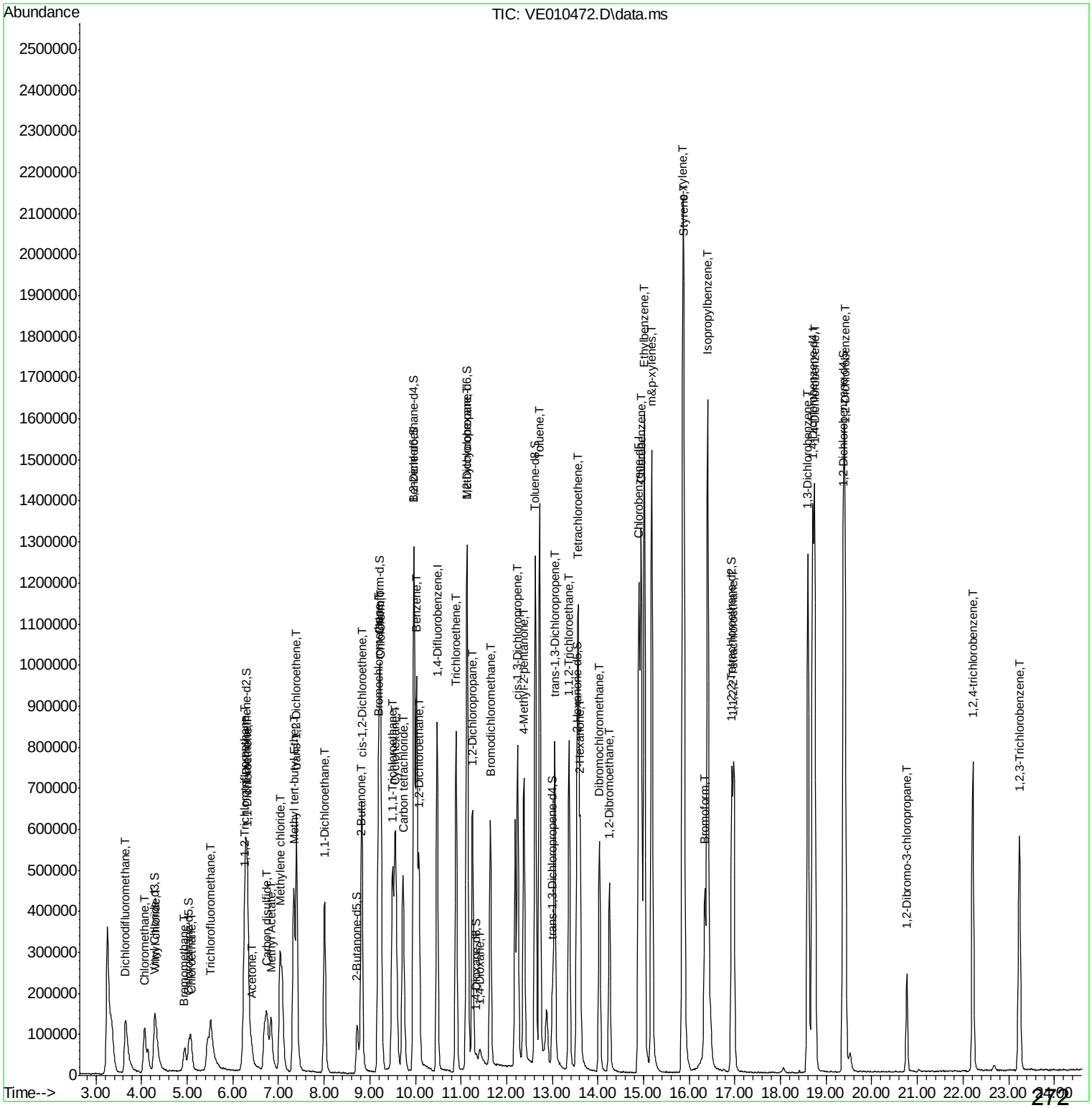
COMPOUND	RRF	RRF25	MIN RRF	%D	MAX%D
Vinyl Chloride-d3	0.216	0.204	0.010	-5.6	25.0
Chloroethane-d5	0.130	0.121	0.010	-6.9	40.0
1,1-Dichloroethene-d2	0.526	0.557	0.010	5.9	25.0
2-Butanone-d5	0.154	0.139	0.010	-9.7	40.0
Chloroform-d	0.717	0.744	0.010	3.8	25.0
1,2-Dichloroethane-d4	0.473	0.500	0.010	5.7	25.0
Benzene-d6	1.076	1.058	0.010	-1.7	25.0
1,2-Dichloropropane-d6	0.401	0.388	0.010	-3.2	40.0
Toluene-d8	1.151	1.166	0.010	1.3	25.0
trans-1,3-Dichloropropene-d4	0.142	0.137	0.010	-3.5	25.0
2-Hexanone-d5	0.137	0.118	0.010	-13.9	40.0
1,4-Dioxane-d8	0.004	0.004	0.005	0.0	50.0
1,1,2,2-Tetrachloroethane-d2	0.647	0.581	0.010	-10.2	25.0
1,2-Dichlorobenzene-d4	0.970	0.969	0.010	-0.1	25.0

Report 1,4 -Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010472.D
Acq On : 17 Oct 2008 10:42
Operator : SY
Sample : 50 PPB CCC
Misc : 5ML, MSVOAE
ALS Vial : 2 Sample Multiplier: 1

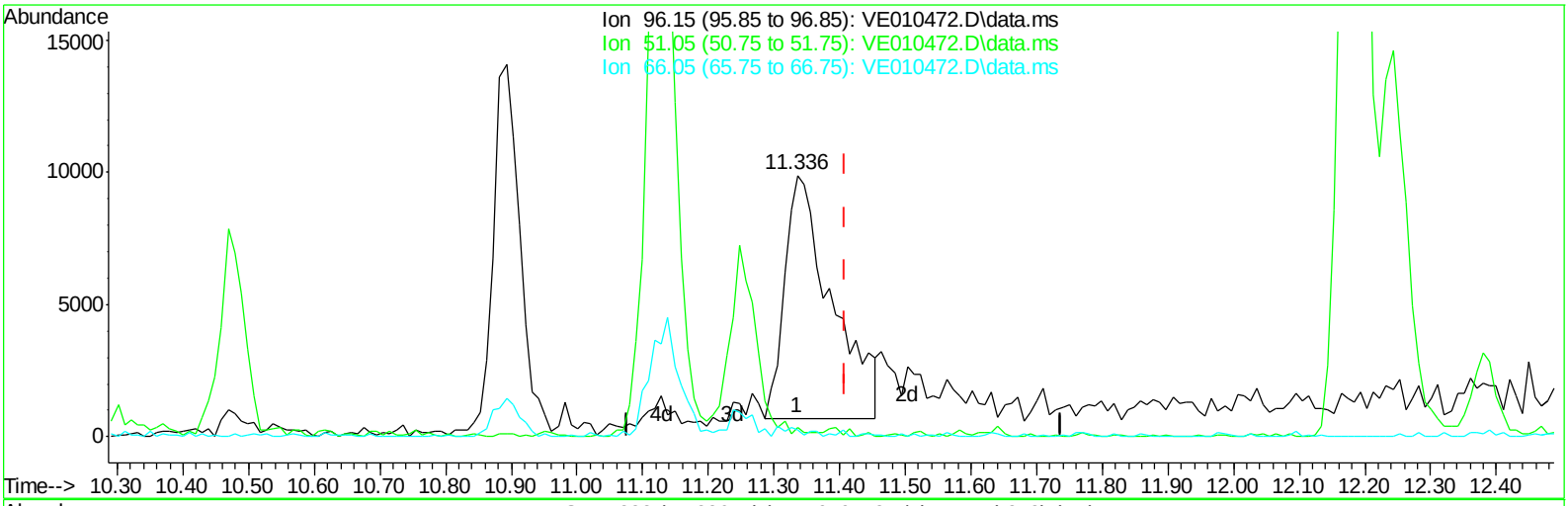
Quant Time: Oct 17 11:52:19 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration

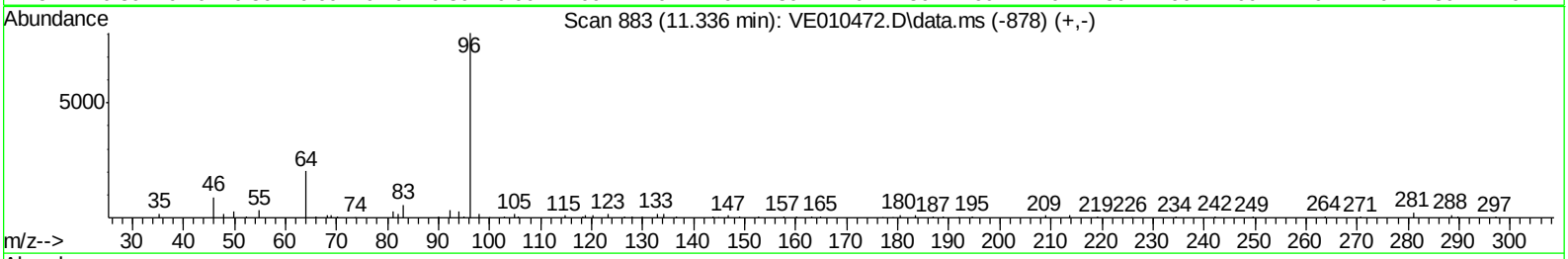


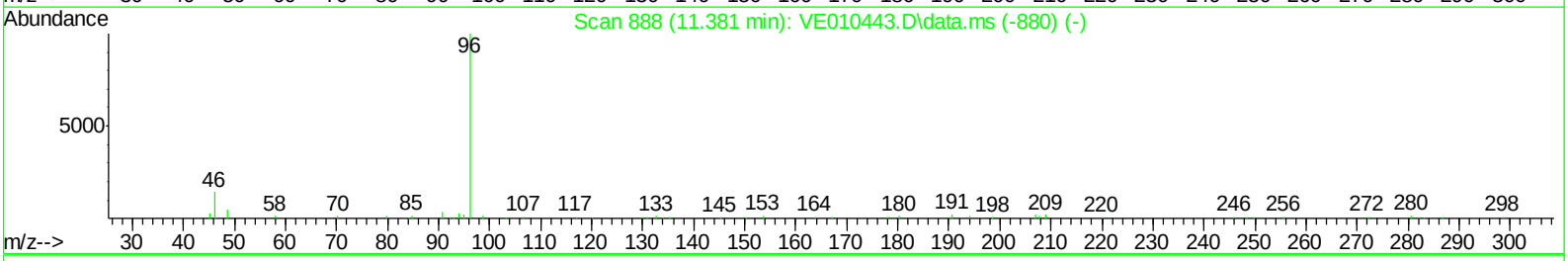
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010472.D
Acq On : 17 Oct 2008 10:42
Operator : SY
Sample : 50 PPB CCC
Misc : 5ML, MSVOAE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 17 11:12:42 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration







TIC: VE010472.D\data.ms

(27) 1,4-Dioxane-d8 (S)

11.336min (-0.072) 555.76 ug/L

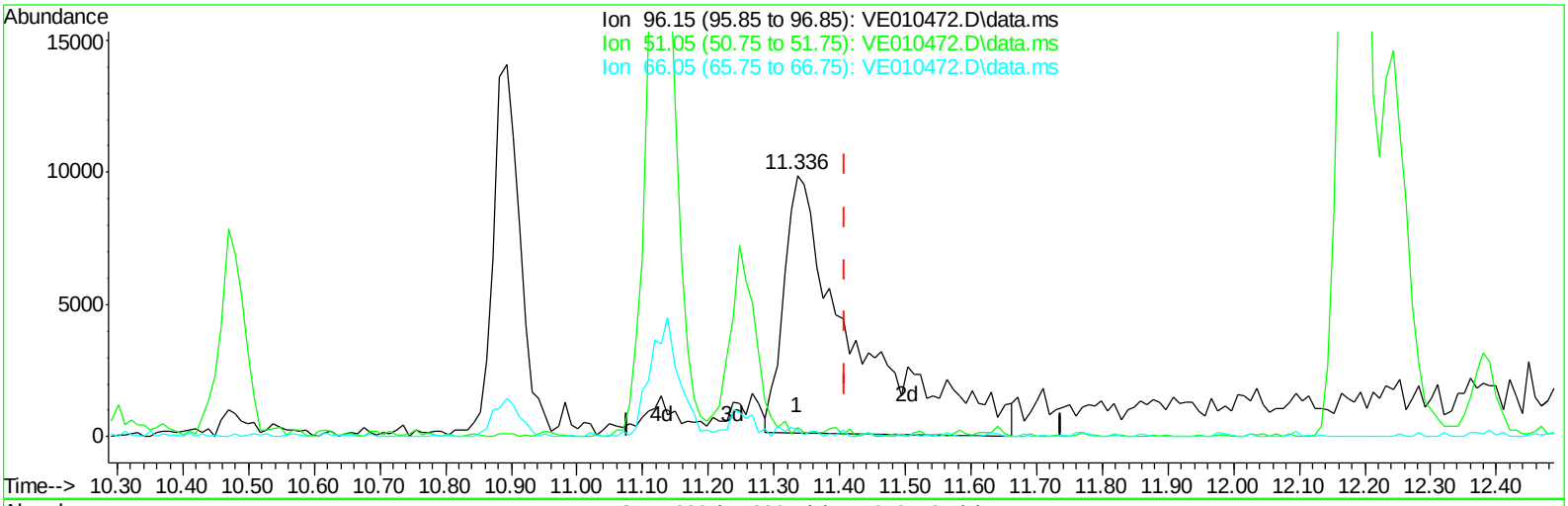
response 45853

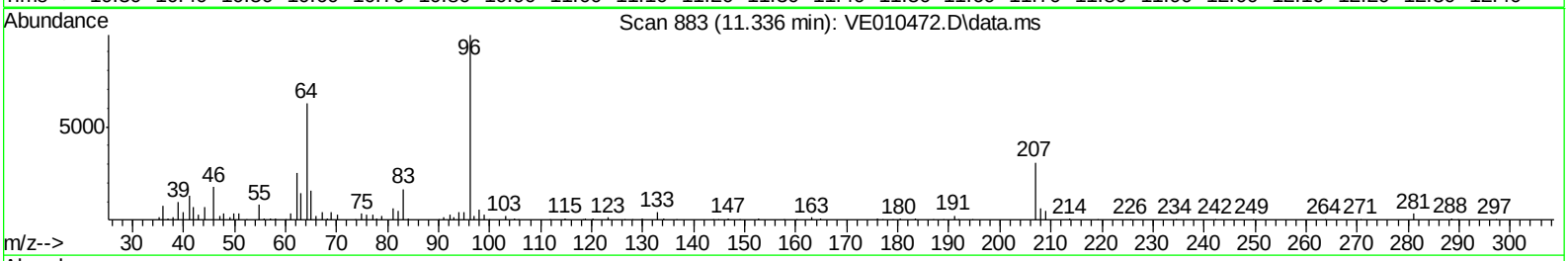
Ion	Exp%	Act%
96.15	100	100
51.05	4.50	0.00#
66.05	1.70	0.91#
0.00	0.00	0.00

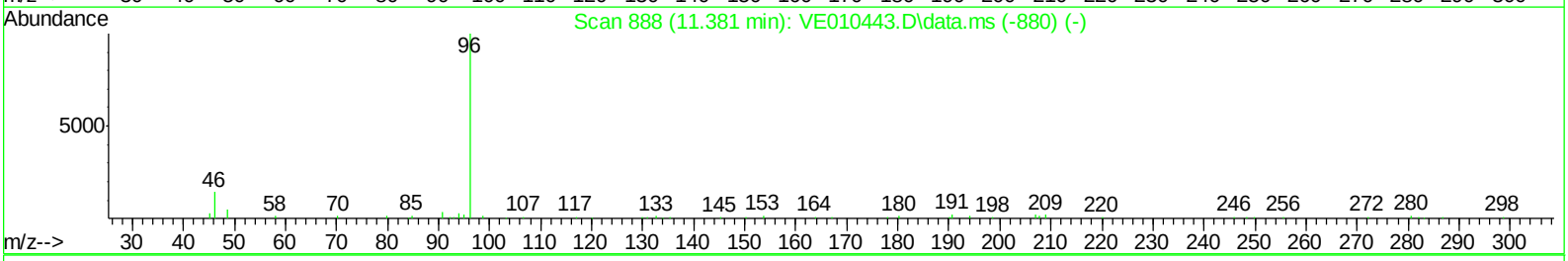
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010472.D
Acq On : 17 Oct 2008 10:42
Operator : SY
Sample : 50 PPB CCC
Misc : 5ML, MSVOAE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 17 11:12:42 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration







TIC: VE010472.D\data.ms

(27) 1,4-Dioxane-d8 (S)

11.336min (-0.072) 888.20 ug/L m

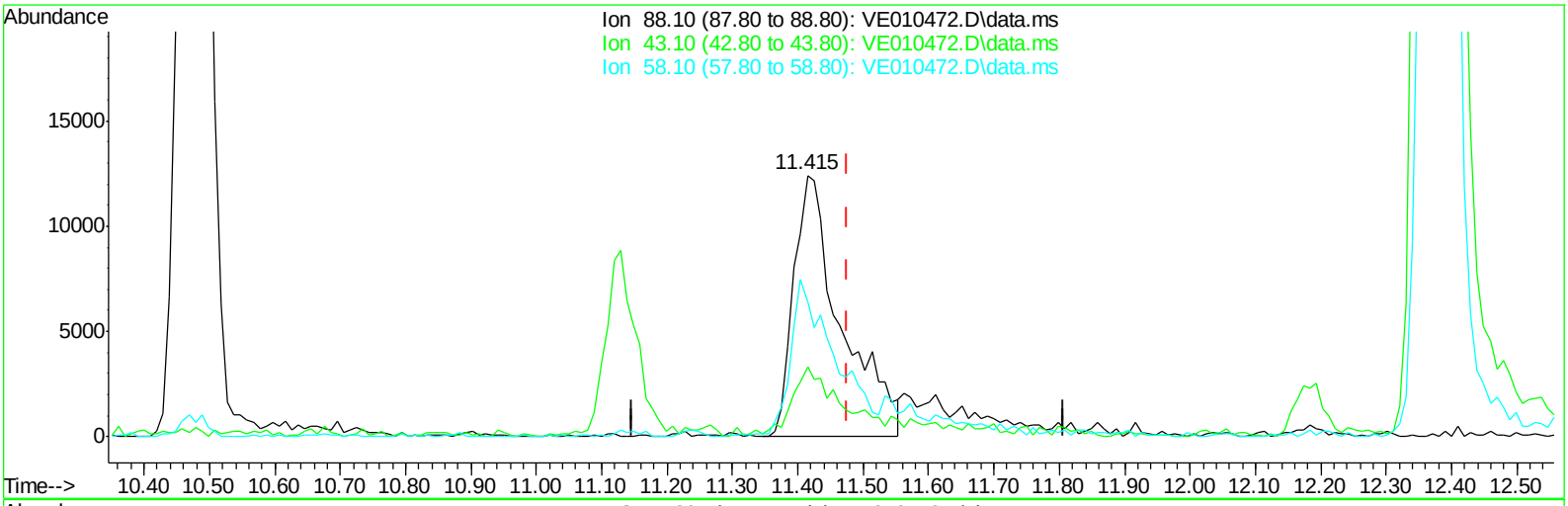
response 73281

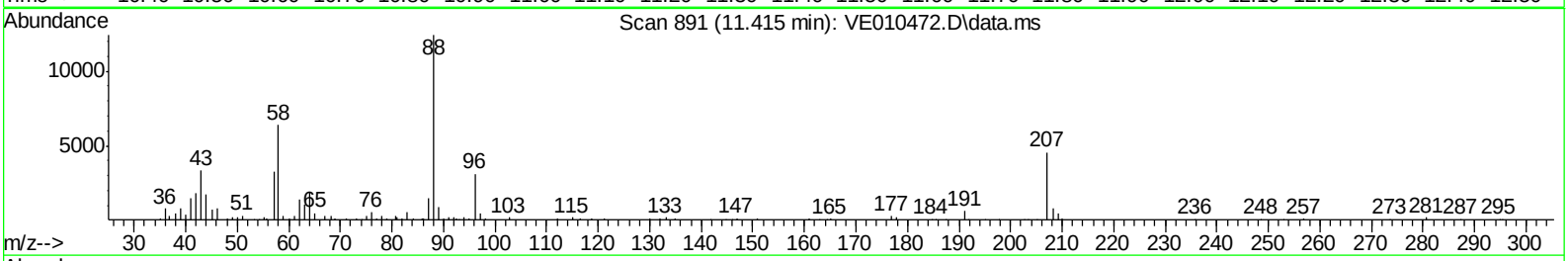
Ion	Exp%	Act%
96.15	100	100
51.05	4.50	3.65#
66.05	1.70	2.71#
0.00	0.00	0.00

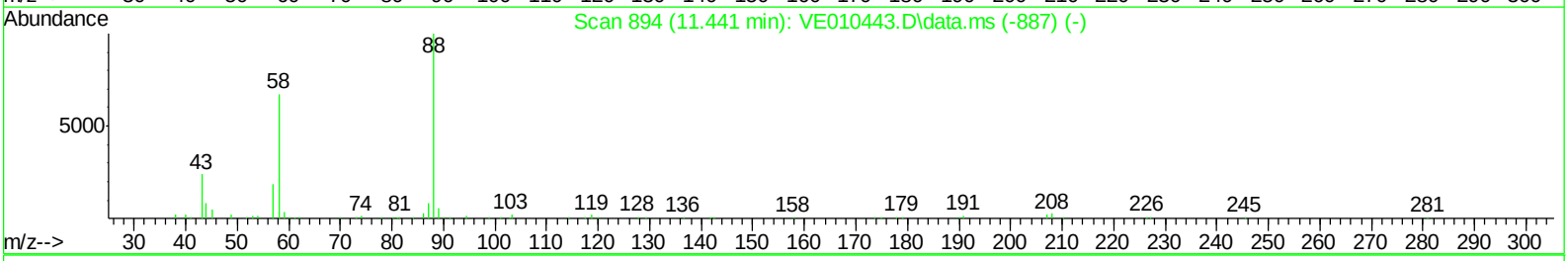
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010472.D
Acq On : 17 Oct 2008 10:42
Operator : SY
Sample : 50 PPB CCC
Misc : 5ML, MSVOAE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 17 11:12:42 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration







TIC: VE010472.D\data.ms

(29) 1,4-Dioxane (T)

11.415min (-0.062) 742.88 ug/L

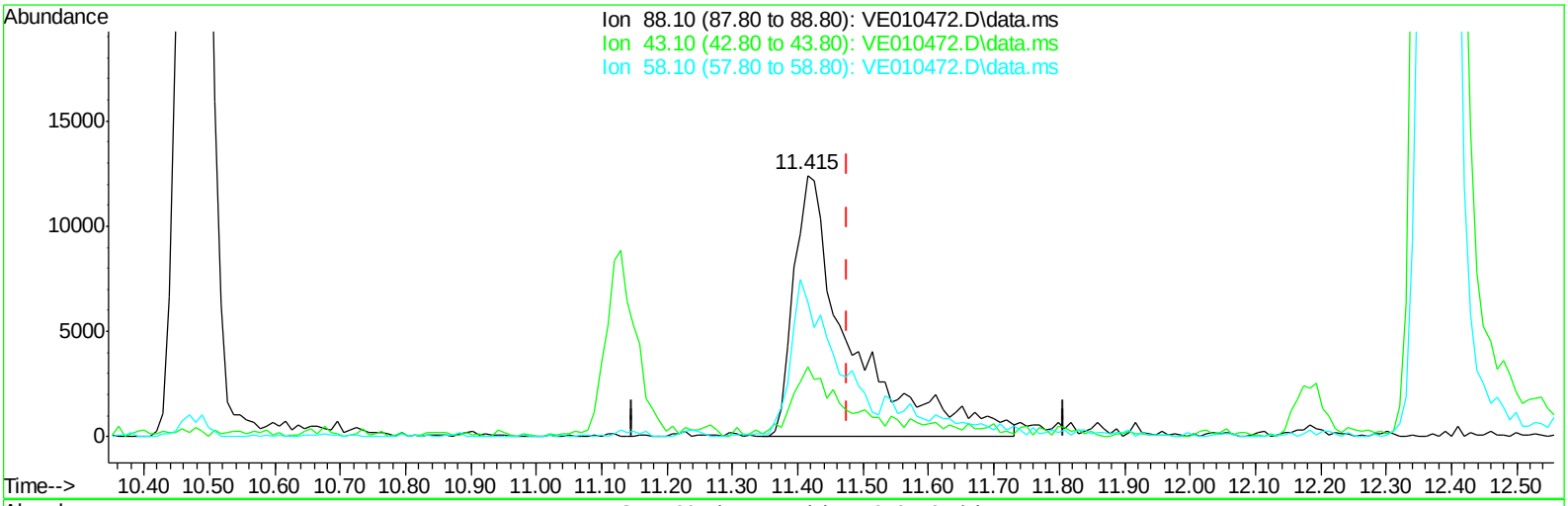
response 62033

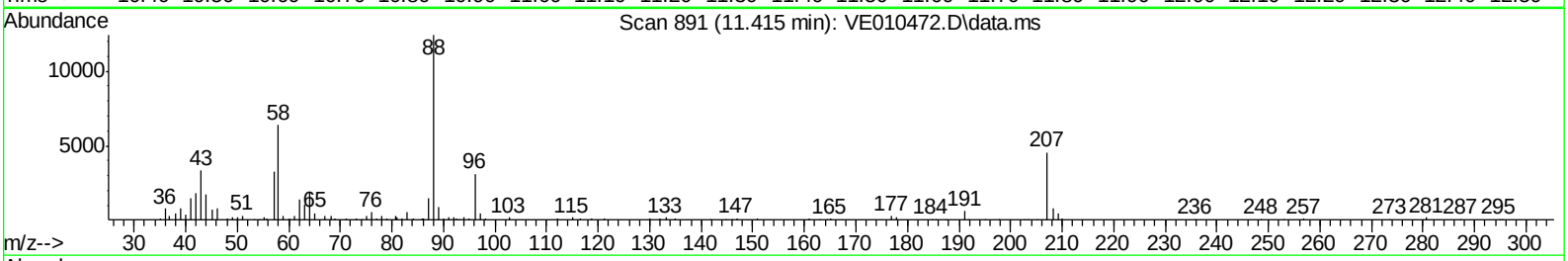
Ion	Exp%	Act%
88.10	100	100
43.10	18.90	21.64
58.10	51.30	54.24
0.00	0.00	0.00

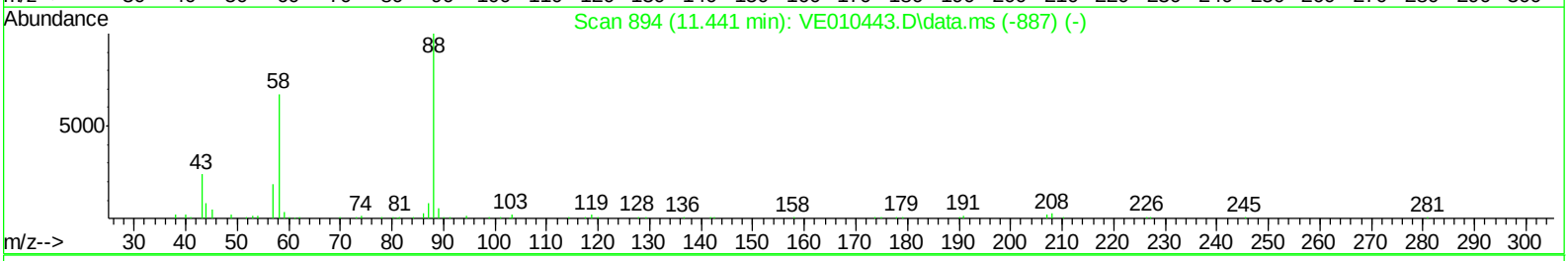
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010472.D
Acq On : 17 Oct 2008 10:42
Operator : SY
Sample : 50 PPB CCC
Misc : 5ML, MSVOAE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 17 11:12:42 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration







TIC: VE010472.D\data.ms

(29) 1,4-Dioxane (T)

11.415min (-0.062) 899.73 ug/L m

response 75130

Ion	Exp%	Act%
88.10	100	100
43.10	18.90	17.87
58.10	51.30	44.79
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010472.D
Acq On : 17 Oct 2008 10:42
Operator : SY
Sample : 50 PPB CCC
Misc : 5ML, MSVOAE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 17 11:52:19 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	10.478	114	1029292	50.00	ug/L	-0.06
30) Chlorobenzene-d5	14.893	117	1122049	50.00	ug/L	-0.06
61) 1,4-Dichlorobenzene-d4	18.706	152	653066	50.00	ug/L	-0.06
System Monitoring Compounds						
4) Vinyl Chloride-d3	4.280	65	209558	47.13	ug/L	-0.04
Spiked Amount 50.000			Recovery	=	94.26%	
6) Chloroethane-d5	5.029	69	124829	46.49	ug/L	-0.05
Spiked Amount 50.000			Recovery	=	92.98%	
10) 1,1-Dichloroethene-d2	6.291	63	573537	52.96	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	105.92%	
20) 2-Butanone-d5	8.715	46	286476	90.41	ug/L	-0.07
Spiked Amount 100.000			Recovery	=	90.41%	
21) Chloroform-d	9.207	84	765596	51.88	ug/L	-0.07
Spiked Amount 50.000			Recovery	=	103.76%	
24) 1,2-Dichloroethane-d4	9.966	65	514927	52.86	ug/L	-0.07
Spiked Amount 50.000			Recovery	=	105.72%	
27) 1,4-Dioxane-d8	11.336	96	73281m	888.20	ug/L	-0.07
Spiked Amount 1250.000			Recovery	=	71.06%	
31) Benzene-d6	9.966	84	1187633	49.20	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	98.40%	
36) 1,2-Dichloropropane-d6	11.129	67	435556	48.36	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	96.72%	
38) trans-1,3-Dichloroprop...	13.001	79	154251	48.55	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	97.10%	
39) Toluene-d8	12.627	98	1307759	50.63	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	101.26%	
41) 2-Hexanone-d5	13.533	63	265343	86.57	ug/L	-0.07
Spiked Amount 100.000			Recovery	=	86.57%	
50) 1,1,2,2-Tetrachloroeth...	16.933	84	652330	44.92	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	89.84%	
62) 1,2-Dichlorobenzene-d4	19.376	152	632696	49.92	ug/L	-0.07
Spiked Amount 50.000			Recovery	=	99.84%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.650	85	420545	53.93	ug/L	97
3) Chloromethane	4.054	50	297729	49.65	ug/L	92
5) Vinyl chloride	4.300	62	265287	53.66	ug/L	92
7) Bromomethane	4.931	94	89077	50.19	ug/L	94
8) Chloroethane	5.088	64	105454	49.59	ug/L	94
9) Trichlorofluoromethane	5.522	101	481065	62.95	ug/L #	100
11) 1,1,2-Trichlorotrifluo...	6.251	101	275373	57.77	ug/L	97
12) 1,1-Dichloroethene	6.320	96	233301	58.03	ug/L	93
13) Acetone	6.409	43	200043	105.77	ug/L	92
14) Carbon disulfide	6.734	76	825390	54.11	ug/L	98
15) Methyl Acetate	6.833	43	241886	49.12	ug/L	97
16) Methylene chloride	7.039	84	405548	51.88	ug/L	95
17) Methyl tert-butyl Ether	7.335	73	848024	53.49	ug/L	99
18) trans-1,2-Dichloroethene	7.394	96	363729	51.30	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010472.D
Acq On : 17 Oct 2008 10:42
Operator : SY
Sample : 50 PPB CCC
Misc : 5ML, MSVOAE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 17 11:52:19 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
19)	1,1-Dichloroethane	8.015	63	615954	51.27	ug/L		98
22)	cis-1,2-Dichloroethene	8.823	96	382972	52.17	ug/L		100
23)	Bromochloromethane	9.188	128	225224	53.60	ug/L		97
25)	Chloroform	9.237	83	715603	52.65	ug/L		93
26)	1,2-Dichloroethane	10.074	62	601902	55.10	ug/L		99
28)	2-Butanone	8.803	43	287064	90.14	ug/L		95
29)	1,4-Dioxane	11.415	88	75130m	899.73	ug/L		
32)	Cyclohexane	9.562	56	444823	51.82	ug/L		97
33)	Methylcyclohexane	11.129	83	590225	51.60	ug/L		99
34)	1,1,1-Trichloroethane	9.503	97	580044	53.28	ug/L		99
35)	Carbon tetrachloride	9.730	117	518852	57.57	ug/L		100
37)	Benzene	10.025	78	1203850	51.22	ug/L		100
40)	Trichloroethene	10.892	95	398088	51.36	ug/L		95
42)	1,2-Dichloropropane	11.257	63	326590	47.47	ug/L		99
43)	Bromodichloromethane	11.641	83	575754	52.28	ug/L		95
44)	cis-1,3-Dichloropropene	12.242	75	651139	51.37	ug/L		100
45)	4-Methyl-2-pentanone	12.380	43	739326	87.19	ug/L		98
46)	Toluene	12.725	91	1532602	52.10	ug/L		98
47)	trans-1,3-Dichloropropene	13.050	75	664018	52.55	ug/L		100
48)	1,1,2-Trichloroethane	13.366	97	403896	49.76	ug/L		95
49)	Tetrachloroethene	13.563	164	373353	56.20	ug/L		98
51)	2-Hexanone	13.612	43	562802	87.59	ug/L		96
52)	Dibromochloromethane	14.026	129	488345	54.22	ug/L		98
53)	1,2-Dibromoethane	14.252	107	503294	49.51	ug/L	#	99
54)	Chlorobenzene	14.942	112	1167114	52.61	ug/L		100
55)	Ethylbenzene	15.011	91	1913152	54.59	ug/L		98
56)	m&p-xylenes	15.179	106	767021	54.98	ug/L		94
57)	o-xylene	15.859	106	723290	55.48	ug/L		96
58)	Styrene	15.878	104	1220356	53.93	ug/L		98
59)	Isopropylbenzene	16.401	105	1858017	54.62	ug/L		100
60)	1,1,2,2-Tetrachloroethane	16.972	83	626726	46.85	ug/L		98
63)	Bromoform	16.341	173	305662	47.19	ug/L		99
64)	1,3-Dichlorobenzene	18.598	146	992472	50.45	ug/L		97
65)	1,4-Dichlorobenzene	18.746	146	1015149	50.53	ug/L		96
66)	1,2-Dichlorobenzene	19.416	146	929343	51.04	ug/L		96
67)	1,2-Dibromo-3-chloropr...	20.766	75	103774	40.86	ug/L		90
68)	1,2,4-trichlorobenzene	22.214	180	477787	48.04	ug/L		100
69)	1,2,3-Trichlorobenzene	23.239	180	394773	45.26	ug/L		99

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

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAE Calibration Date: 10/17/2008 Time: 17:32

Lab File ID: VE010483.D Init. Calib. Date(s): 10/16/2008 10/16/2008

EPA Sample No. (VSTD#####): VSTD050 Init. Calib. Time(s): 13:58 18:14

Heated Purge: (Y/N) N GC Column: ZB-624 ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 5 (mL)

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.379	0.427	0.010	12.7	50.0
Chloromethane	0.291	0.284	0.010	-2.4	50.0
Vinyl Chloride	0.240	0.248	0.010	3.3	50.0
Bromomethane	0.086	0.089	0.010	3.5	50.0
Chloroethane	0.103	0.105	0.010	1.9	50.0
Trichlorofluoromethane	0.371	0.472	0.010	27.2	50.0
1,1-Dichloroethene	0.195	0.215	0.010	10.3	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.232	0.261	0.010	12.5	50.0
Acetone	0.092	0.094	0.010	2.2	50.0
Carbon disulfide	0.741	0.780	0.010	5.3	50.0
Methyl acetate	0.239	0.223	0.010	-6.7	50.0
Methylene chloride	0.380	0.386	0.010	1.6	50.0
trans-1,2-Dichloroethene	0.344	0.353	0.010	2.6	50.0
Methyl tert-Butyl ether	0.770	0.844	0.010	9.6	50.0
1,1-Dichloroethane	0.584	0.611	0.010	4.6	50.0
cis-1,2-Dichloroethene	0.357	0.364	0.010	2.0	50.0
2-Butanone	0.155	0.129	0.010	-16.8	50.0
Bromochloromethane	0.204	0.216	0.010	5.9	50.0
Chloroform	0.660	0.725	0.010	9.8	50.0
1,1,1-Trichloroethane	0.485	0.543	0.010	12.0	50.0
Cyclohexane	0.383	0.367	0.010	-4.2	50.0
Carbon Tetrachloride	0.402	0.485	0.010	20.6	50.0
Benzene	1.047	1.046	0.010	-0.1	50.0
1,2-Dichloroethane	0.531	0.613	0.010	15.4	50.0
1,4-Dioxane	0.004	0.004	0.005	0.0	50.0
Trichloroethene	0.345	0.353	0.010	2.3	50.0
Methylcyclohexane	0.510	0.498	0.010	-2.4	50.0

Report 1,4 -Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAE Calibration Date: 10/17/2008 Time: 17:32

Lab File ID: VE010483.D Init. Calib. Date(s): 10/16/2008 10/16/2008

EPA Sample No. (VSTD#####): VSTD050 Init. Calib. Time(s): 13:58 18:14

Heated Purge: (Y/N) N GC Column: ZB-624 ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 5 (mL)

COMPOUND	RRF	RRF25	MIN RRF	%D	MAX%D
1,2-Dichloropropane	0.307	0.293	0.010	-4.6	50.0
Bromodichloromethane	0.491	0.529	0.010	7.7	50.0
cis-1,3-Dichloropropene	0.565	0.595	0.010	5.3	50.0
4-Methyl-2-pentanone	0.378	0.326	0.010	-13.8	50.0
Toluene	1.311	1.373	0.010	4.7	50.0
trans-1,3-Dichloropropene	0.563	0.595	0.010	5.7	50.0
1,1,2-Trichloroethane	0.362	0.354	0.010	-2.2	50.0
Tetrachloroethene	0.296	0.339	0.010	14.5	50.0
2-Hexanone	0.286	0.252	0.010	-11.9	50.0
Dibromochloromethane	0.401	0.448	0.010	11.7	50.0
1,2-Dibromoethane	0.453	0.450	0.010	-0.7	50.0
Chlorobenzene	0.989	1.063	0.010	7.5	50.0
Ethylbenzene	1.562	1.702	0.010	9.0	50.0
o-Xylene	0.581	0.647	0.010	11.4	50.0
m,p-Xylene	0.622	0.679	0.010	9.2	50.0
Styrene	1.008	1.110	0.010	10.1	50.0
Bromoform	0.496	0.502	0.010	1.2	50.0
Isopropylbenzene	1.516	1.670	0.010	10.2	50.0
1,1,2,2-Tetrachloroethane	0.596	0.550	0.010	-7.7	50.0
1,3-Dichlorobenzene	1.506	1.544	0.010	2.5	50.0
1,4-Dichlorobenzene	1.538	1.614	0.010	4.9	50.0
1,2-Dichlorobenzene	1.394	1.457	0.010	4.5	50.0
1,2-Dibromo-3-chloropropane	0.194	0.179	0.010	-7.7	50.0
1,2,4-Trichlorobenzene	0.761	0.800	0.010	5.1	50.0
1,2,3-Trichlorobenzene	0.668	0.657	0.010	-1.6	50.0

Report 1,4 -Dioxane for Low-Medium VOA analysis only

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAE Calibration Date: 10/17/2008 Time: 17:32

Lab File ID: VE010483.D Init. Calib. Date(s): 10/16/2008 10/16/2008

EPA Sample No. (VSTD#####): VSTD050 Init. Calib. Time(s): 13:58 18:14

Heated Purge: (Y/N) N GC Column: ZB-624 ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 5 (mL)

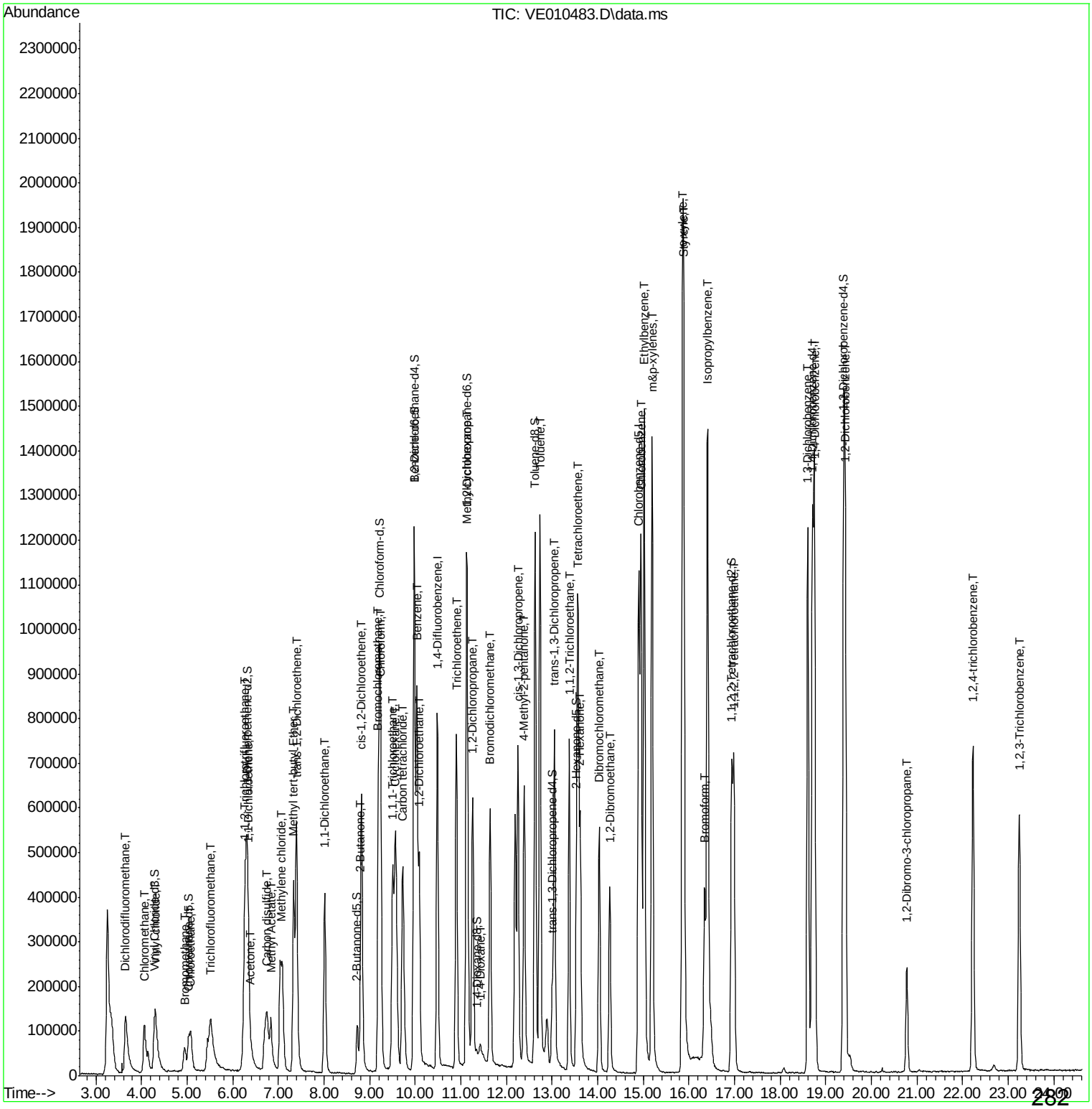
COMPOUND	RRF	RRF25	MIN RRF	%D	MAX%D
Vinyl Chloride-d3	0.216	0.216	0.010	0.0	50.0
Chloroethane-d5	0.130	0.136	0.010	4.6	50.0
1,1-Dichloroethene-d2	0.526	0.602	0.010	14.4	50.0
2-Butanone-d5	0.154	0.134	0.010	-13.0	50.0
Chloroform-d	0.717	0.794	0.010	10.7	50.0
1,2-Dichloroethane-d4	0.473	0.527	0.010	11.4	50.0
Benzene-d6	1.076	1.056	0.010	-1.9	50.0
1,2-Dichloropropane-d6	0.401	0.380	0.010	-5.2	50.0
Toluene-d8	1.151	1.224	0.010	6.3	50.0
trans-1,3-Dichloropropene-d4	0.142	0.147	0.010	3.5	50.0
2-Hexanone-d5	0.137	0.116	0.010	-15.3	50.0
1,4-Dioxane-d8	0.004	0.004	0.005	0.0	50.0
1,1,2,2-Tetrachloroethane-d2	0.647	0.595	0.010	-8.0	50.0
1,2-Dichlorobenzene-d4	0.970	1.012	0.010	4.3	50.0

Report 1,4 -Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010483.D
Acq On : 17 Oct 2008 17:32
Operator : SY
Sample : 50 PPB CCV
Misc : 5ML, MSVOAE
ALS Vial : 13 Sample Multiplier: 1

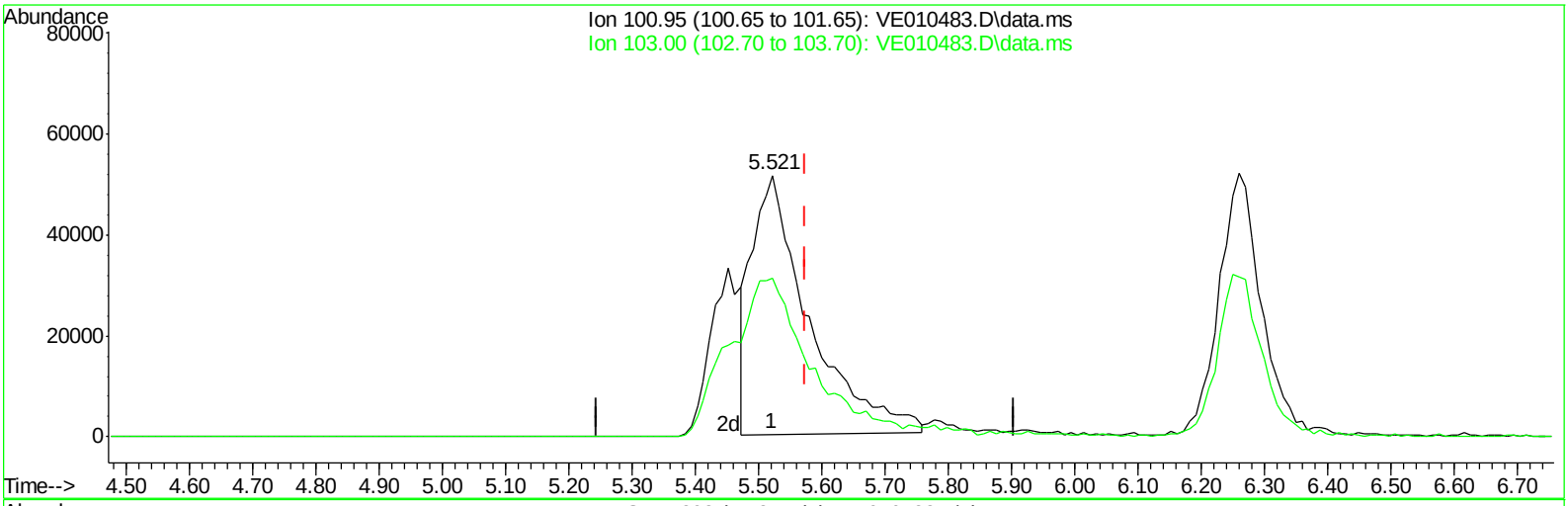
Quant Time: Oct 17 19:26:42 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration

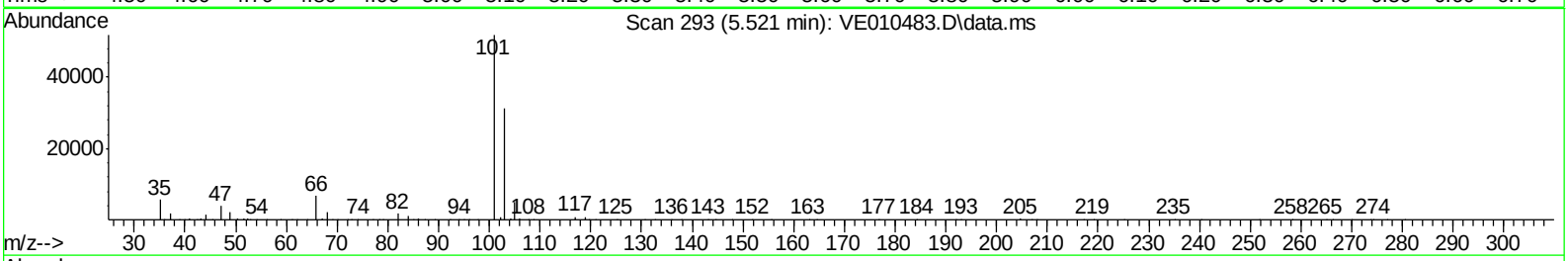


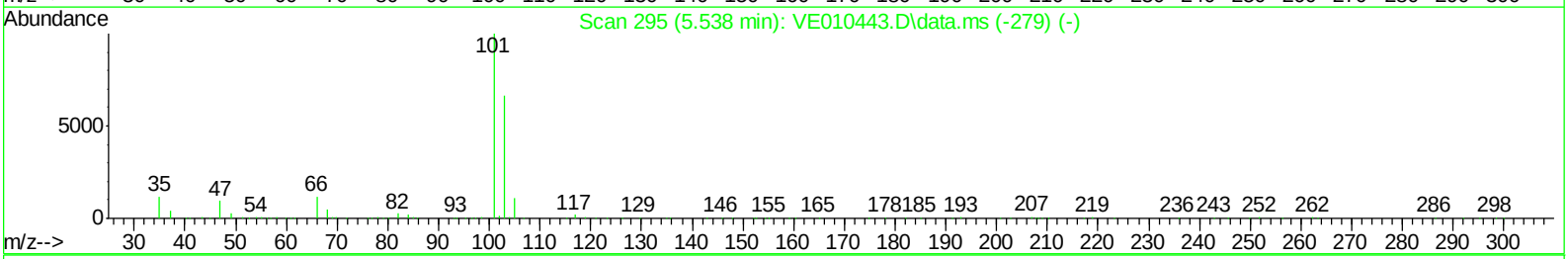
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010483.D
Acq On : 17 Oct 2008 17:32
Operator : SY
Sample : 50 PPB CCV
Misc : 5ML, MSVOAE
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 17 18:03:50 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration







TIC: VE010483.D\data.ms

(9) Trichlorofluoromethane (T)

5.521min (-0.053) 46.46 ug/L

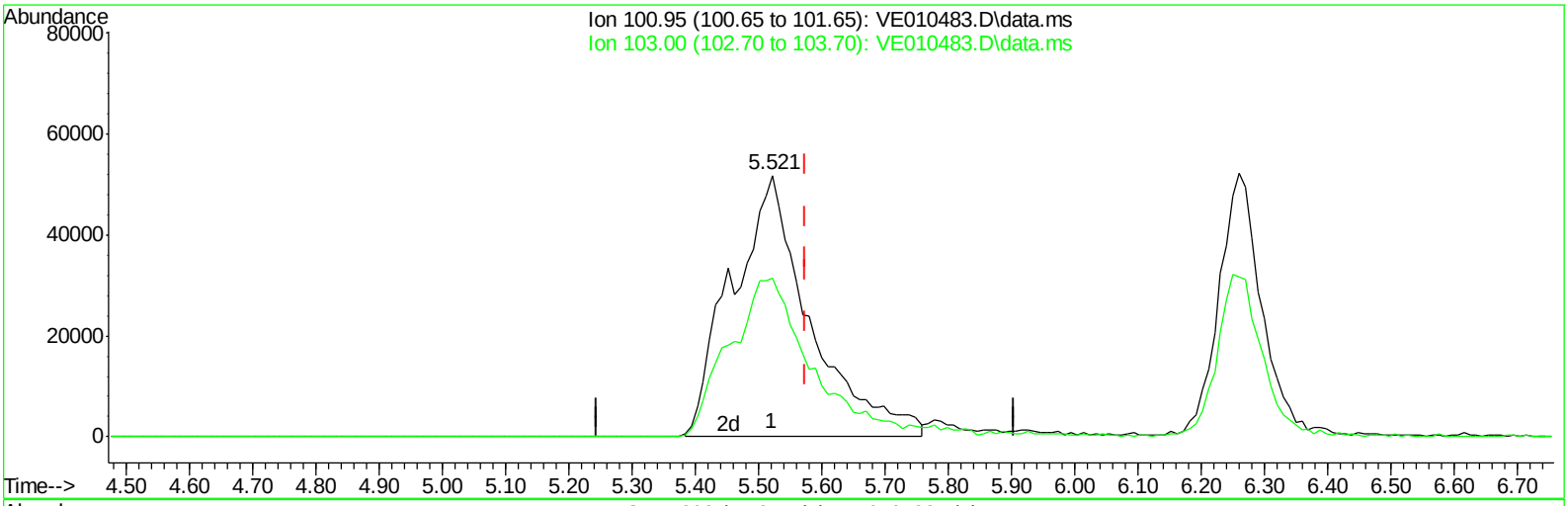
response 324027

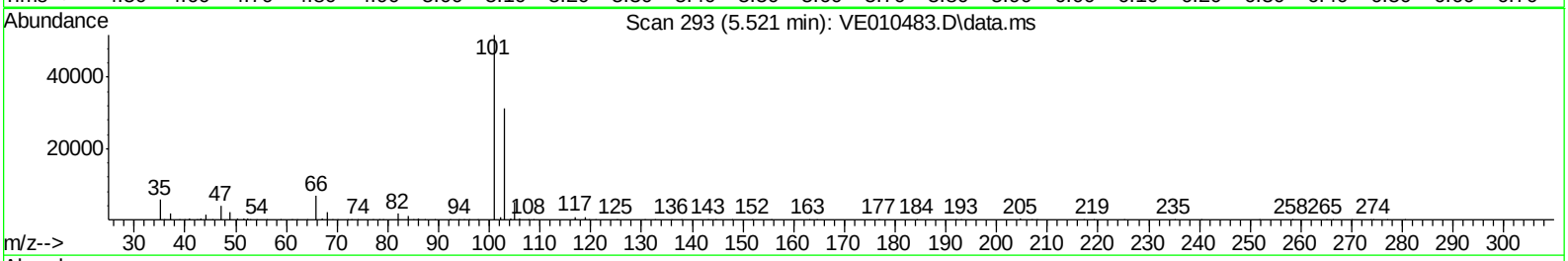
Ion	Exp%	Act%
100.95	100	100
103.00	0.00	85.85#
0.00	0.00	0.00
0.00	0.00	0.00

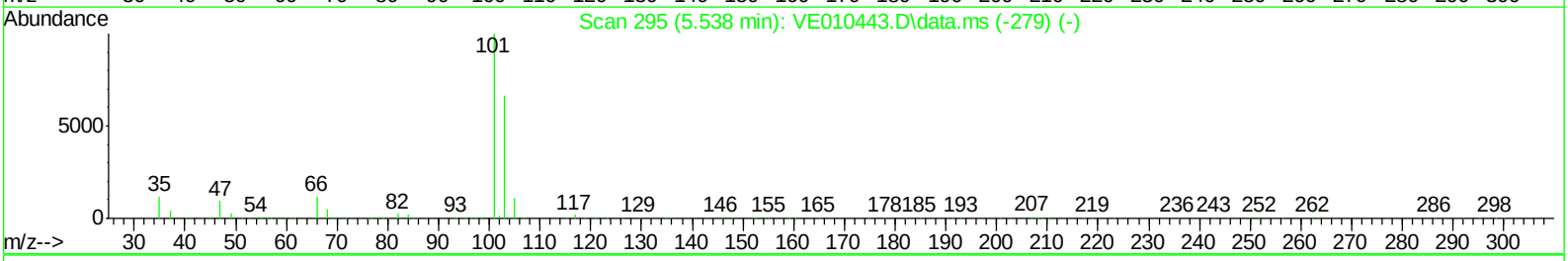
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010483.D
Acq On : 17 Oct 2008 17:32
Operator : SY
Sample : 50 PPB CCV
Misc : 5ML, MSVOAE
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 17 18:03:50 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration







TIC: VE010483.D\data.ms

(9) Trichlorofluoromethane (T)

5.521min (-0.053) 63.58 ug/L m

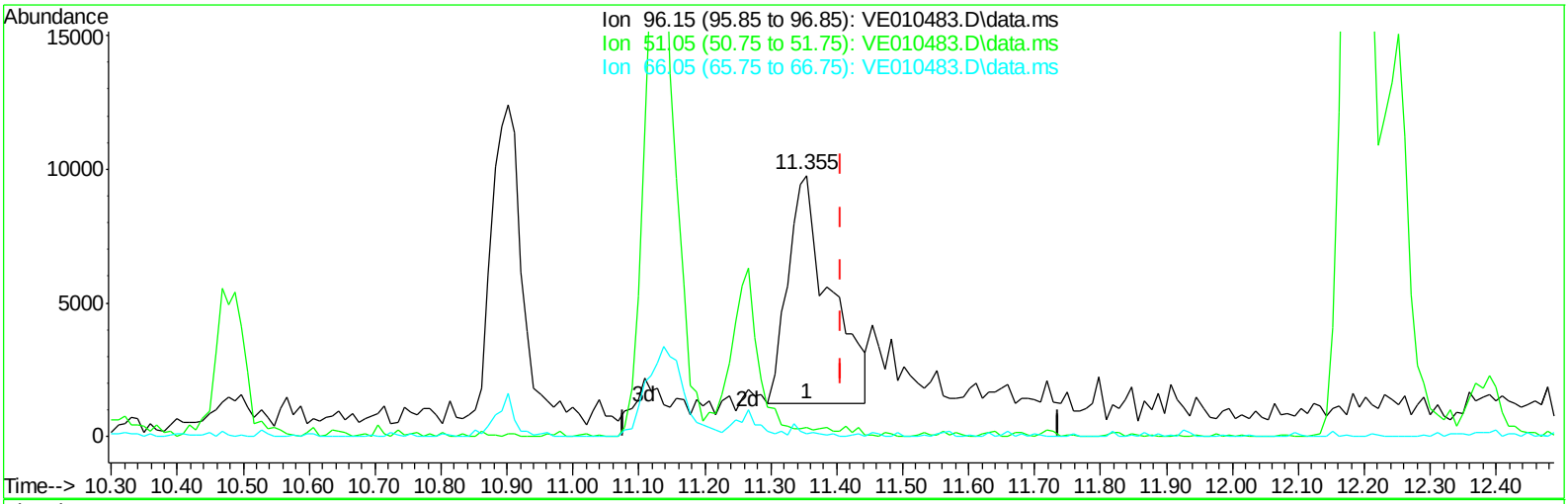
response 443444

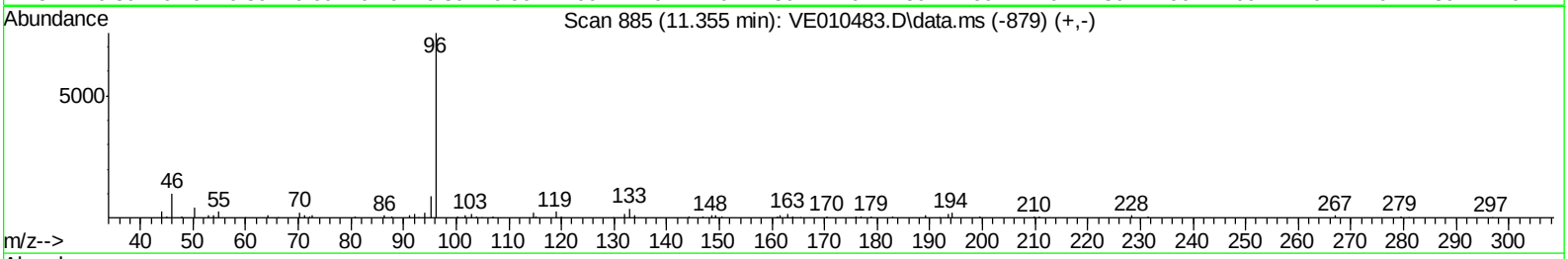
Ion	Exp%	Act%
100.95	100	100
103.00	0.00	62.73#
0.00	0.00	0.00
0.00	0.00	0.00

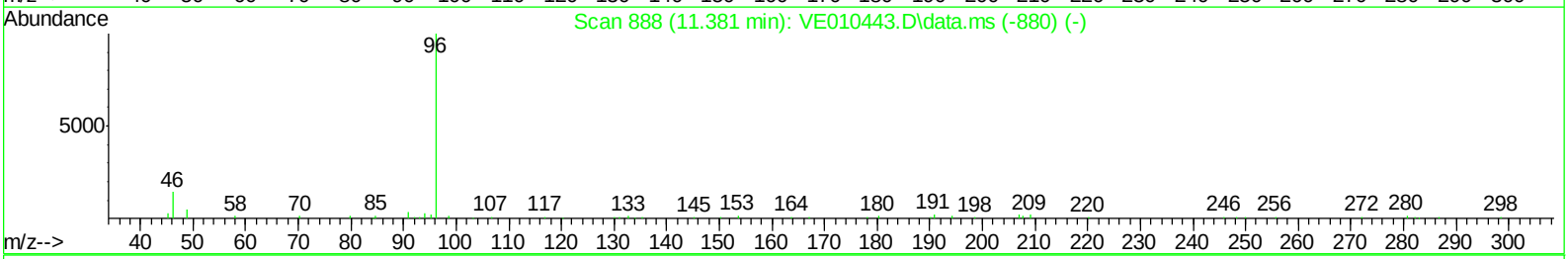
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010483.D
Acq On : 17 Oct 2008 17:32
Operator : SY
Sample : 50 PPB CCV
Misc : 5ML, MSVOAE
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 17 18:03:50 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration







TIC: VE010483.D\data.ms

(27) 1,4-Dioxane-d8 (S)

11.355min (-0.053) 507.93 ug/L

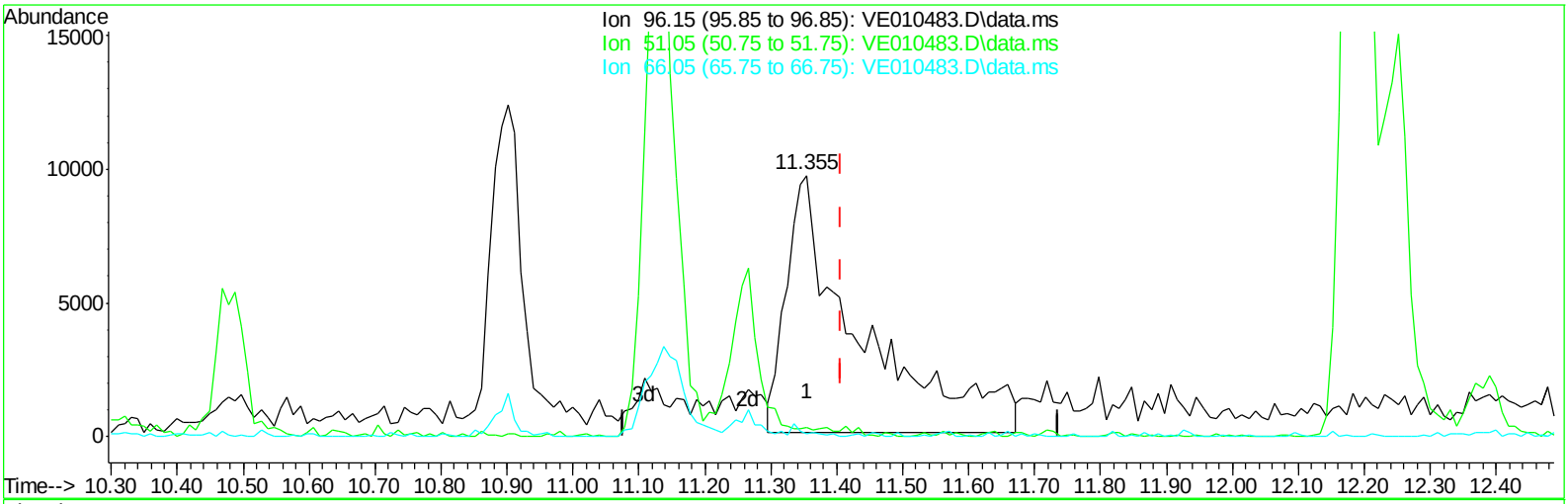
response 38246

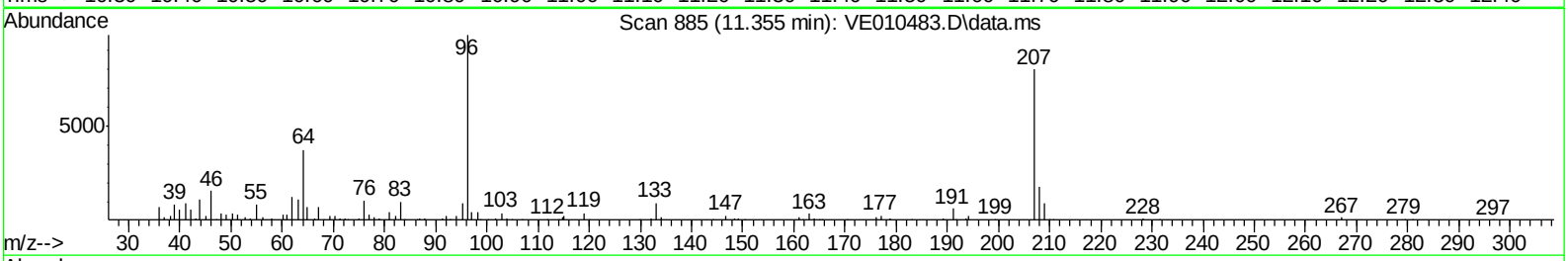
Ion	Exp%	Act%
96.15	100	100
51.05	4.50	0.00#
66.05	1.70	0.04#
0.00	0.00	0.00

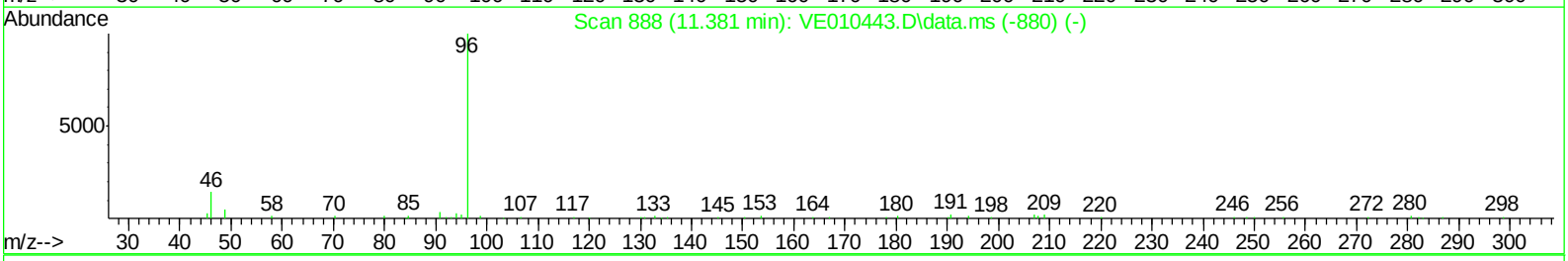
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010483.D
Acq On : 17 Oct 2008 17:32
Operator : SY
Sample : 50 PPB CCV
Misc : 5ML, MSVOAE
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 17 18:03:50 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration







TIC: VE010483.D\data.ms

(27) 1,4-Dioxane-d8 (S)

11.355min (-0.053) 990.29 ug/L m

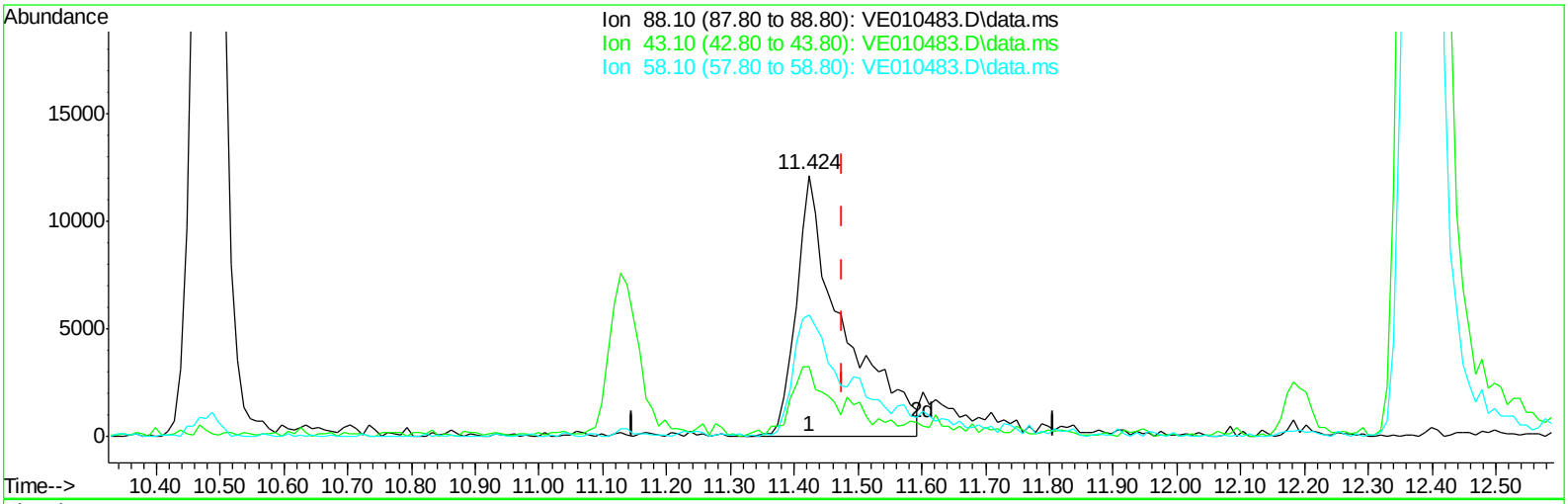
response 74566

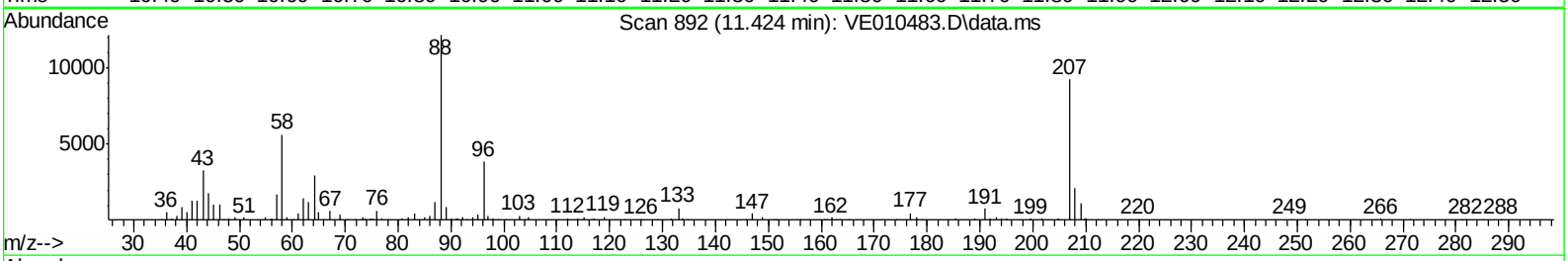
Ion	Exp%	Act%
96.15	100	100
51.05	4.50	3.42#
66.05	1.70	1.16#
0.00	0.00	0.00

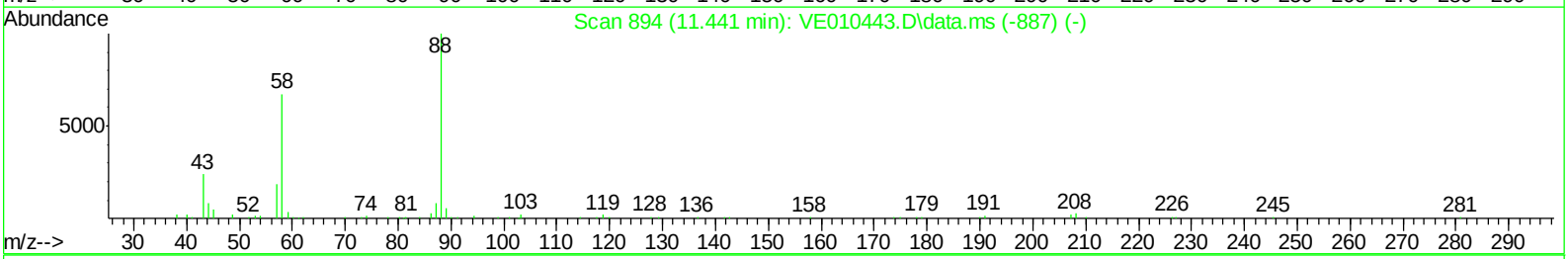
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010483.D
Acq On : 17 Oct 2008 17:32
Operator : SY
Sample : 50 PPB CCV
Misc : 5ML, MSVOAE
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 17 18:03:50 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration







TIC: VE010483.D\data.ms

(29) 1,4-Dioxane (T)

11.424min (-0.053) 811.58 ug/L

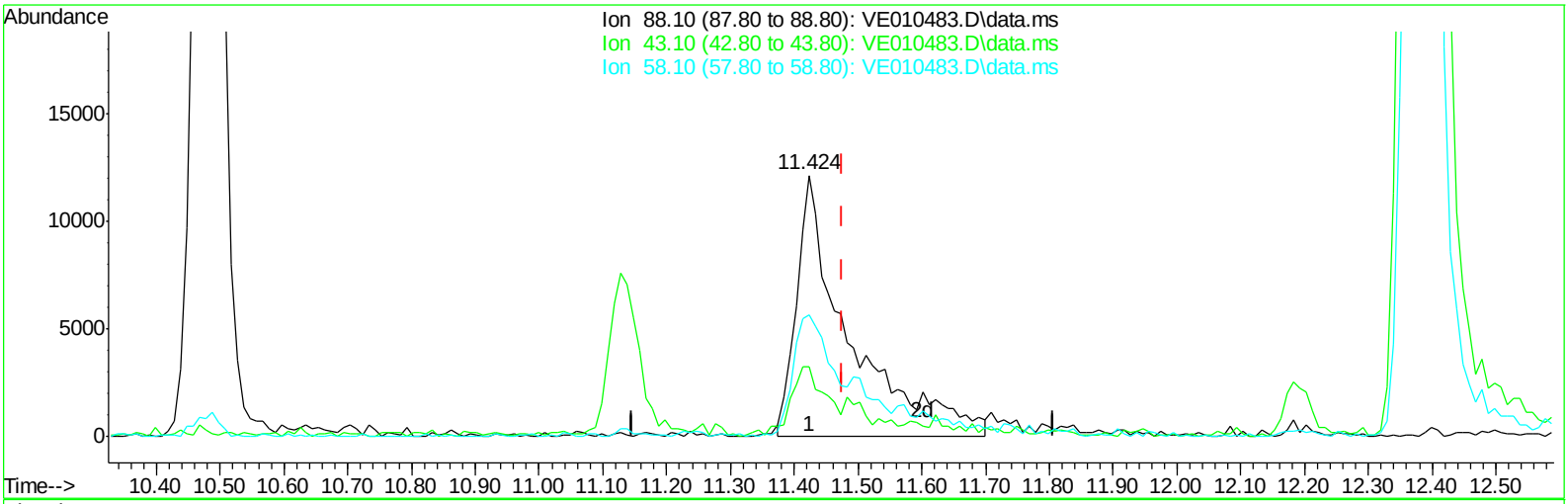
response 61849

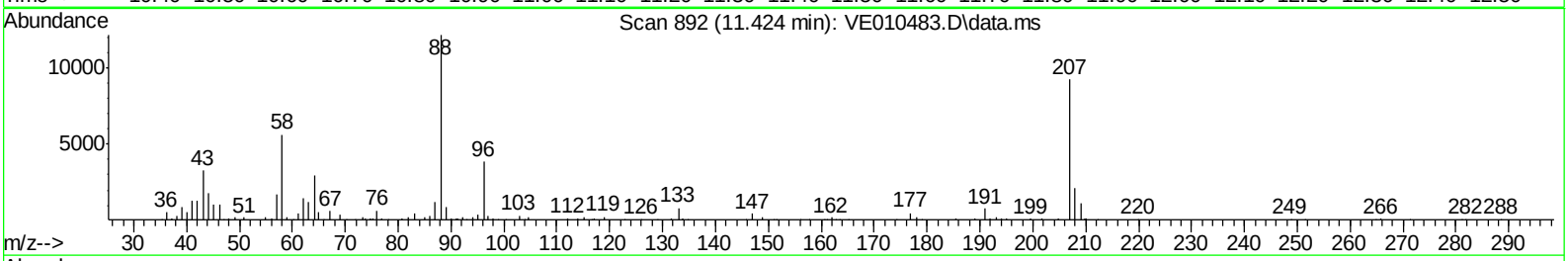
Ion	Exp%	Act%
88.10	100	100
43.10	18.90	20.85
58.10	51.30	38.47
0.00	0.00	0.00

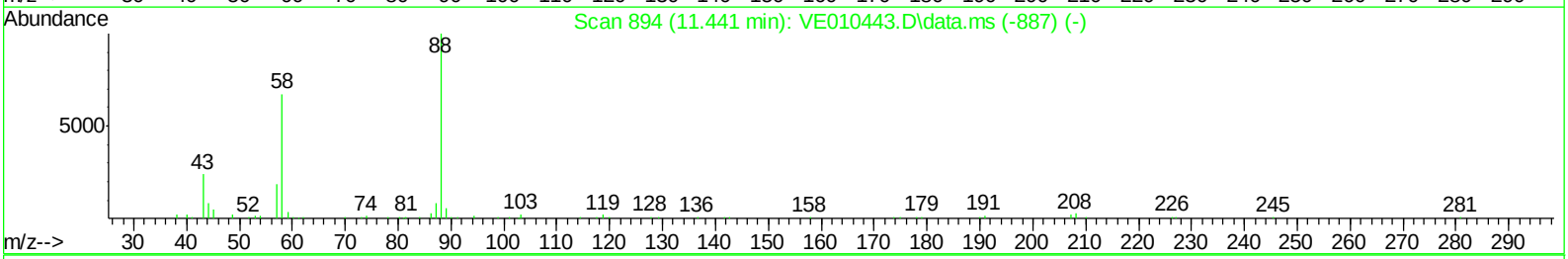
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010483.D
Acq On : 17 Oct 2008 17:32
Operator : SY
Sample : 50 PPB CCV
Misc : 5ML, MSVOAE
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 17 18:03:50 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration







TIC: VE010483.D\data.ms

(29) 1,4-Dioxane (T)

11.424min (-0.053) 911.12 ug/L m

response 69435

Ion	Exp%	Act%
88.10	100	100
43.10	18.90	18.57
58.10	51.30	34.27#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010483.D
Acq On : 17 Oct 2008 17:32
Operator : SY
Sample : 50 PPB CCV
Misc : 5ML, MSVOAE
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 17 19:26:42 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	10.478	114	939374	50.00	ug/L	-0.06
30) Chlorobenzene-d5	14.902	117	1033612	50.00	ug/L	-0.05
61) 1,4-Dichlorobenzene-d4	18.706	152	603333	50.00	ug/L	-0.06
System Monitoring Compounds						
4) Vinyl Chloride-d3	4.290	65	203345	50.11	ug/L	-0.03
Spiked Amount 50.000			Recovery	=	100.22%	
6) Chloroethane-d5	5.029	69	127848	52.17	ug/L	-0.05
Spiked Amount 50.000			Recovery	=	104.34%	
10) 1,1-Dichloroethene-d2	6.310	63	565859	57.26	ug/L	-0.04
Spiked Amount 50.000			Recovery	=	114.52%	
20) 2-Butanone-d5	8.724	46	251965	87.13	ug/L	-0.06
Spiked Amount 100.000			Recovery	=	87.13%	
21) Chloroform-d	9.216	84	746028	55.40	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	110.80%	
24) 1,2-Dichloroethane-d4	9.975	65	494977	55.67	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	111.34%	
27) 1,4-Dioxane-d8	11.355	96	74566m	990.29	ug/L	-0.05
Spiked Amount 1250.000			Recovery	=	79.22%	
31) Benzene-d6	9.975	84	1091147	49.07	ug/L	-0.05
Spiked Amount 50.000			Recovery	=	98.14%	
36) 1,2-Dichloropropane-d6	11.128	67	392708	47.33	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	94.66%	
38) trans-1,3-Dichloroprop...	13.010	79	152015	51.94	ug/L	-0.05
Spiked Amount 50.000			Recovery	=	103.88%	
39) Toluene-d8	12.626	98	1265105	53.17	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	106.34%	
41) 2-Hexanone-d5	13.532	63	239579	84.85	ug/L	-0.07
Spiked Amount 100.000			Recovery	=	84.85%	
50) 1,1,2,2-Tetrachloroeth...	16.932	84	614851	45.96	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	91.92%	
62) 1,2-Dichlorobenzene-d4	19.385	152	610356	52.13	ug/L	-0.06
Spiked Amount 50.000			Recovery	=	104.26%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.649	85	400963	56.34	ug/L	92
3) Chloromethane	4.063	50	266399	48.68	ug/L	96
5) Vinyl chloride	4.299	62	233432	51.74	ug/L	100
7) Bromomethane	4.950	94	83362	51.46	ug/L	99
8) Chloroethane	5.078	64	98643	50.83	ug/L	98
9) Trichlorofluoromethane	5.521	101	443444m	63.58	ug/L	
11) 1,1,2-Trichlorotrifluo...	6.260	101	244715	56.25	ug/L	99
12) 1,1-Dichloroethene	6.329	96	202122	55.09	ug/L	94
13) Acetone	6.388	43	177136	102.63	ug/L	100
14) Carbon disulfide	6.743	76	732931	52.65	ug/L	98
15) Methyl Acetate	6.842	43	209310	46.57	ug/L	97
16) Methylene chloride	7.068	84	362750	50.85	ug/L	95
17) Methyl tert-butyl Ether	7.334	73	792626	54.78	ug/L	99
18) trans-1,2-Dichloroethene	7.403	96	331345	51.21	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010483.D
Acq On : 17 Oct 2008 17:32
Operator : SY
Sample : 50 PPB CCV
Misc : 5ML, MSVOAE
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 17 19:26:42 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
19)	1,1-Dichloroethane	8.014	63	574160	52.37 ug/L	98
22)	cis-1,2-Dichloroethene	8.822	96	342243	51.08 ug/L	90
23)	Bromochloromethane	9.187	128	203063	52.95 ug/L	93
25)	Chloroform	9.246	83	681152	54.92 ug/L	95
26)	1,2-Dichloroethane	10.084	62	575456	57.72 ug/L	98
28)	2-Butanone	8.803	43	241782	83.19 ug/L	100
29)	1,4-Dioxane	11.424	88	69435m	911.12 ug/L	
32)	Cyclohexane	9.561	56	379833	48.03 ug/L	96
33)	Methylcyclohexane	11.138	83	514490	48.83 ug/L	97
34)	1,1,1-Trichloroethane	9.502	97	561552	56.00 ug/L	99
35)	Carbon tetrachloride	9.729	117	501547	60.41 ug/L	100
37)	Benzene	10.034	78	1080672	49.92 ug/L	100
40)	Trichloroethene	10.901	95	365090	51.13 ug/L	97
42)	1,2-Dichloropropane	11.256	63	302345	47.70 ug/L	100
43)	Bromodichloromethane	11.640	83	546646	53.89 ug/L	99
44)	cis-1,3-Dichloropropene	12.251	75	615384	52.70 ug/L	98
45)	4-Methyl-2-pentanone	12.379	43	672888	86.14 ug/L	99
46)	Toluene	12.734	91	1419518	52.38 ug/L	98
47)	trans-1,3-Dichloropropene	13.049	75	615080	52.84 ug/L	99
48)	1,1,2-Trichloroethane	13.375	97	365609	48.89 ug/L	98
49)	Tetrachloroethene	13.572	164	350208	57.23 ug/L	96
51)	2-Hexanone	13.611	43	521724	88.14 ug/L	97
52)	Dibromochloromethane	14.035	129	462579	55.76 ug/L	98
53)	1,2-Dibromoethane	14.261	107	464666	49.62 ug/L	99
54)	Chlorobenzene	14.951	112	1098441	53.75 ug/L	97
55)	Ethylbenzene	15.020	91	1759378	54.50 ug/L	100
56)	m&p-xylenes	15.188	106	701485	54.58 ug/L	100
57)	o-xylene	15.858	106	668383	55.66 ug/L	95
58)	Styrene	15.887	104	1146946	55.02 ug/L	98
59)	Isopropylbenzene	16.410	105	1726081	55.08 ug/L	100
60)	1,1,2,2-Tetrachloroethane	16.981	83	568800	46.16 ug/L #	94
63)	Bromoform	16.341	173	303109	50.65 ug/L	99
64)	1,3-Dichlorobenzene	18.607	146	931455	51.25 ug/L	98
65)	1,4-Dichlorobenzene	18.755	146	973627	52.45 ug/L	96
66)	1,2-Dichlorobenzene	19.425	146	878908	52.25 ug/L	95
67)	1,2-Dibromo-3-chloropr...	20.775	75	108127	46.08 ug/L	90
68)	1,2,4-trichlorobenzene	22.223	180	482382	52.50 ug/L	97
69)	1,2,3-Trichlorobenzene	23.248	180	396666	49.23 ug/L	100

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

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAI Calibration Date: 10/19/2008 Time: 13:00

Lab File ID: VI022300.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (VSTD#####): VSTD025 Init. Calib. Time(s): 12:10 13:49

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 10 (mL)

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.467	0.423	0.010	-9.4	40.0
Chloromethane	0.344	0.288	0.010	-16.3	40.0
Vinyl Chloride	0.350	0.315	0.100	-10.0	25.0
Bromomethane	0.158	0.137	0.100	-13.3	25.0
Chloroethane	0.053	0.048	0.010	-9.4	40.0
Trichlorofluoromethane	0.282	0.276	0.010	-2.1	40.0
1,1-Dichloroethene	0.138	0.141	0.100	2.2	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.170	0.178	0.010	4.7	40.0
Acetone	0.053	0.053	0.010	0.0	40.0
Carbon disulfide	0.478	0.475	0.010	-0.6	40.0
Methyl acetate	0.095	0.103	0.010	8.4	40.0
Methylene chloride	0.164	0.142	0.010	-13.4	40.0
trans-1,2-Dichloroethene	0.153	0.165	0.010	7.8	40.0
Methyl tert-Butyl ether	0.526	0.561	0.010	6.7	40.0
1,1-Dichloroethane	0.446	0.489	0.200	9.6	25.0
cis-1,2-Dichloroethene	0.297	0.298	0.010	0.3	40.0
2-Butanone	0.104	0.110	0.010	5.8	40.0
Bromochloromethane	0.187	0.186	0.050	-0.5	25.0
Chloroform	0.744	0.778	0.200	4.6	25.0
1,1,1-Trichloroethane	0.591	0.626	0.100	5.9	25.0
Cyclohexane	0.272	0.268	0.010	-1.5	40.0
Carbon Tetrachloride	0.628	0.615	0.100	-2.1	25.0
Benzene	0.974	0.955	0.400	-2.0	25.0
1,2-Dichloroethane	0.536	0.613	0.100	14.4	25.0
1,4-Dioxane	0.003	0.004	0.005	33.3	50.0
Trichloroethene	0.460	0.358	0.300	-22.2	25.0
Methylcyclohexane	0.468	0.431	0.010	-7.9	40.0

Report 1,4 -Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAI Calibration Date: 10/19/2008 Time: 13:00

Lab File ID: VI022300.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (VSTD#####): VSTD025 Init. Calib. Time(s): 12:10 13:49

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 10 (mL)

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX%D
1,2-Dichloropropane	0.261	0.257	0.010	-1.5	40.0
Bromodichloromethane	0.581	0.593	0.200	2.1	25.0
cis-1,3-Dichloropropene	0.621	0.605	0.200	-2.6	25.0
4-Methyl-2-pentanone	0.318	0.348	0.010	9.4	40.0
Toluene	1.165	1.238	0.400	6.3	25.0
trans-1,3-Dichloropropene	0.626	0.699	0.100	11.7	25.0
1,1,2-Trichloroethane	0.287	0.306	0.100	6.6	25.0
Tetrachloroethene	0.269	0.270	0.100	0.4	25.0
2-Hexanone	0.253	0.277	0.010	9.5	40.0
Dibromochloromethane	0.492	0.508	0.100	3.3	25.0
1,2-Dibromoethane	0.409	0.417	0.010	2.0	40.0
Chlorobenzene	0.872	0.929	0.500	6.5	25.0
Ethylbenzene	1.711	1.691	0.100	-1.2	25.0
o-Xylene	0.588	0.601	0.300	2.2	25.0
m,p-Xylene	0.522	0.577	0.300	10.5	25.0
Styrene	0.948	1.041	0.300	9.8	25.0
Bromoform	0.511	0.582	0.050	13.9	25.0
Isopropylbenzene	1.626	1.777	0.010	9.3	40.0
1,1,2,2-Tetrachloroethane	0.468	0.529	0.300	13.0	25.0
1,3-Dichlorobenzene	1.505	1.524	0.600	1.3	25.0
1,4-Dichlorobenzene	1.442	1.470	0.500	1.9	25.0
1,2-Dichlorobenzene	1.353	1.327	0.400	-1.9	25.0
1,2-Dibromo-3-chloropropane	0.199	0.228	0.010	14.6	40.0
1,2,4-Trichlorobenzene	0.858	0.804	0.200	-6.3	25.0
1,2,3-Trichlorobenzene	0.695	0.641	0.200	-7.8	25.0

Report 1,4 -Dioxane for Low-Medium VOA analysis only

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAI Calibration Date: 10/19/2008 Time: 13:00

Lab File ID: VI022300.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (VSTD#####): VSTD025 Init. Calib. Time(s): 12:10 13:49

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 10 (mL)

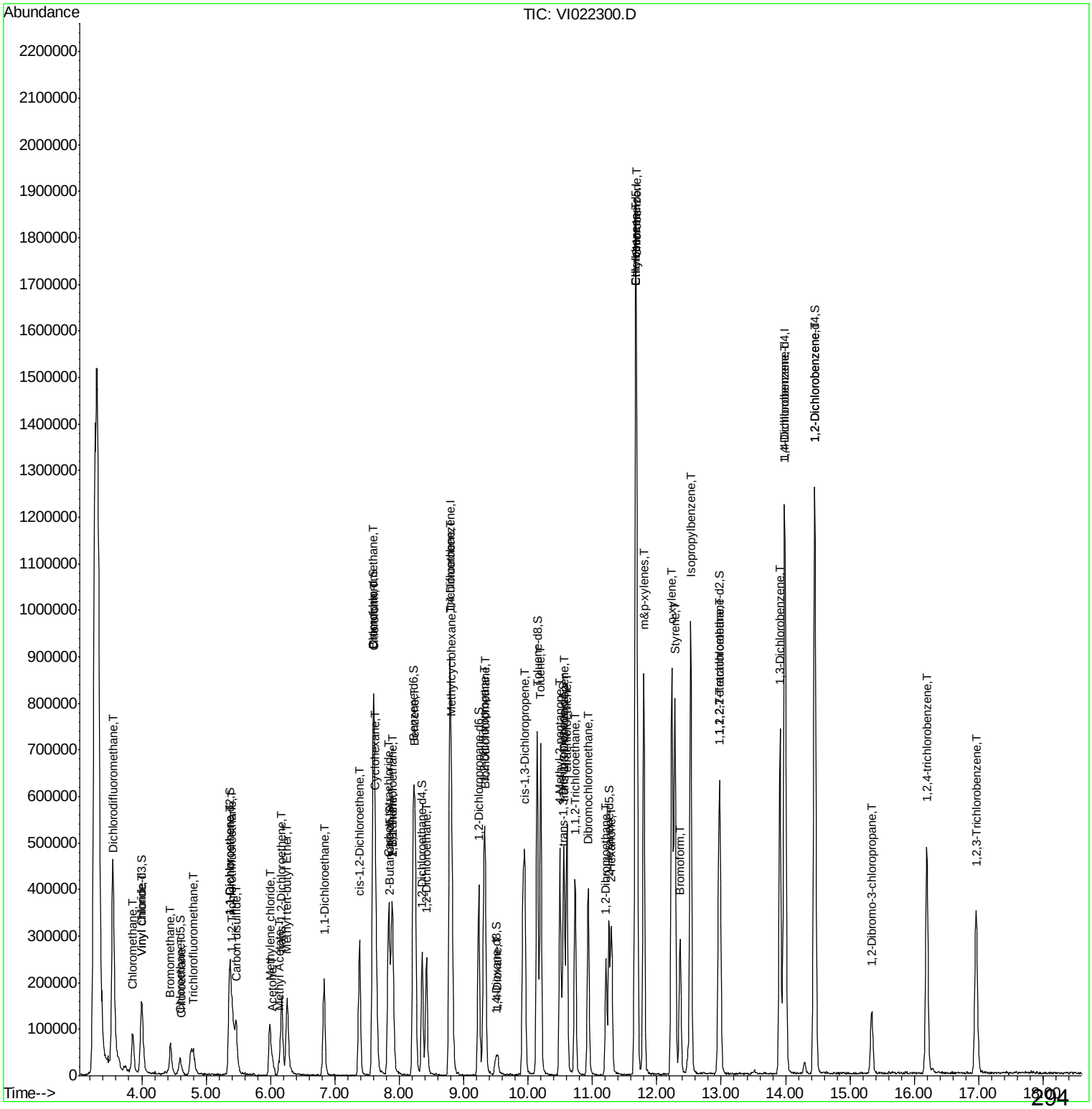
COMPOUND	RRF	RRF25	MIN RRF	%D	MAX%D
Vinyl Chloride-d3	0.304	0.294	0.010	-3.3	25.0
Chloroethane-d5	0.071	0.073	0.010	2.8	40.0
1,1-Dichloroethene-d2	0.343	0.369	0.010	7.6	25.0
2-Butanone-d5	0.108	0.121	0.010	12.0	40.0
Chloroform-d	0.921	0.974	0.010	5.8	25.0
1,2-Dichloroethane-d4	0.483	0.555	0.010	14.9	25.0
Benzene-d6	1.070	1.120	0.010	4.7	25.0
1,2-Dichloropropane-d6	0.343	0.363	0.010	5.8	40.0
Toluene-d8	1.043	1.118	0.010	7.2	25.0
trans-1,3-Dichloropropene-d4	0.148	0.170	0.010	14.9	25.0
2-Hexanone-d5	0.121	0.142	0.010	17.4	40.0
1,4-Dioxane-d8	0.003	0.003	0.005	0.0	50.0
1,1,2,2-Tetrachloroethane-d2	0.495	0.606	0.010	22.4	25.0
1,2-Dichlorobenzene-d4	0.942	0.991	0.010	5.2	25.0

Report 1,4 -Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

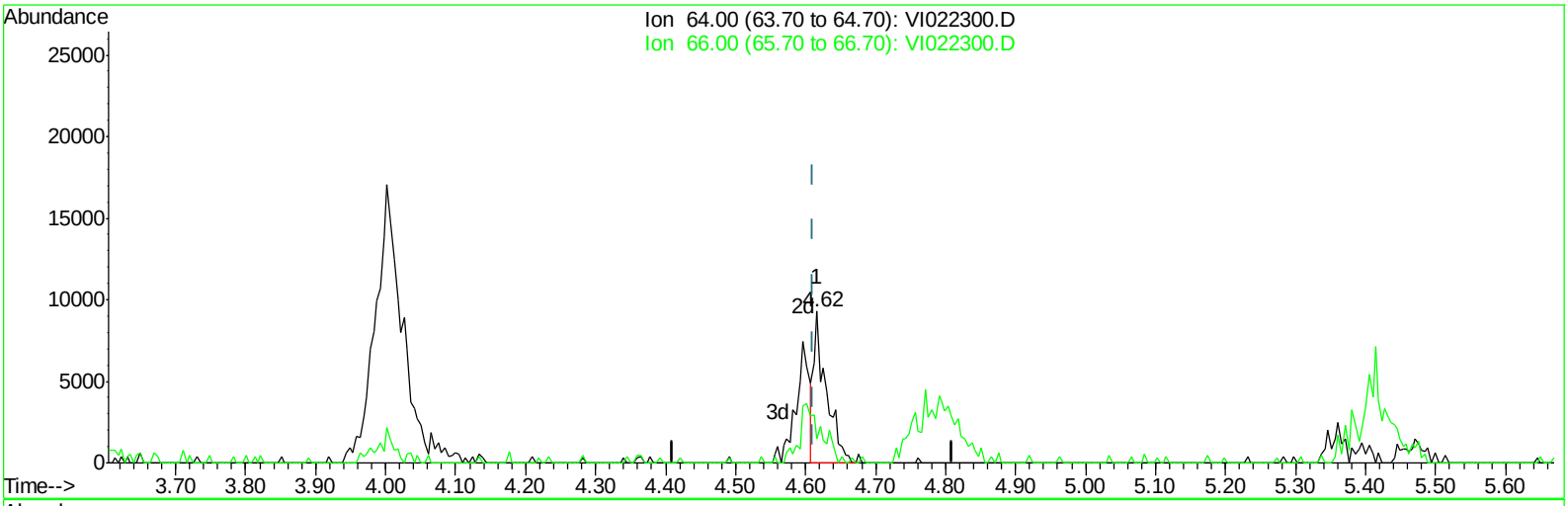
Quant Time: Oct 20 10:13:06 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

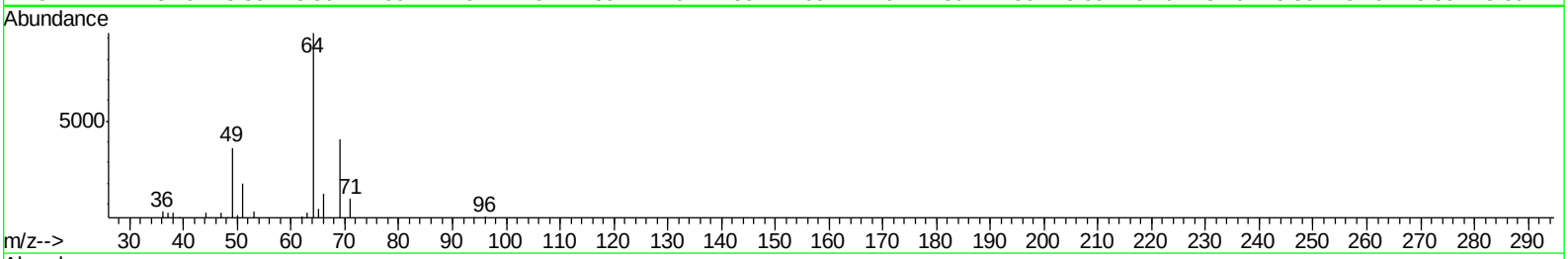


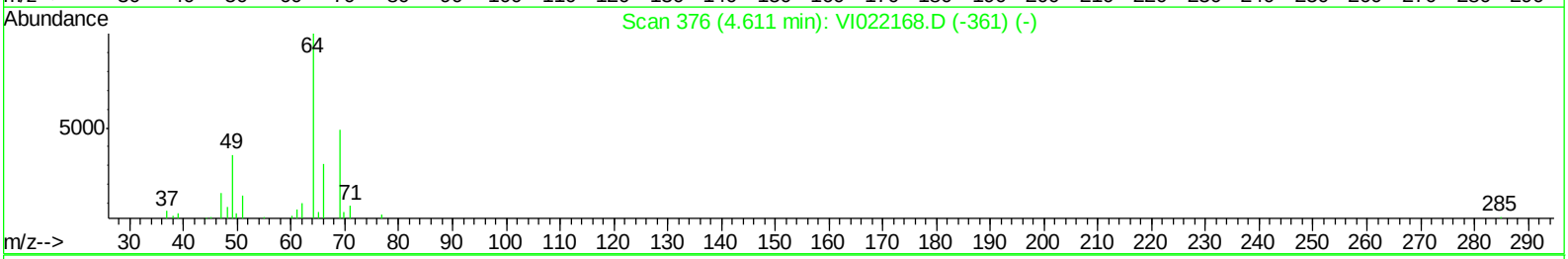
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(8) Chloroethane (T)

4.616min (+0.006) 19.35ug/L

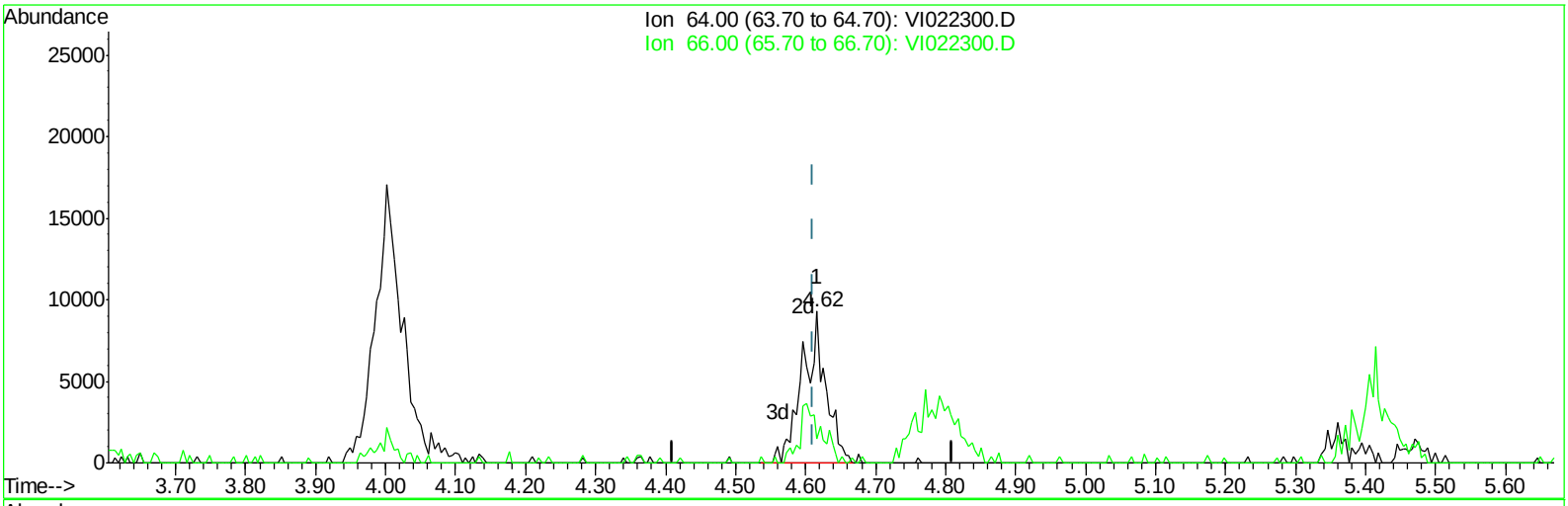
response 11877

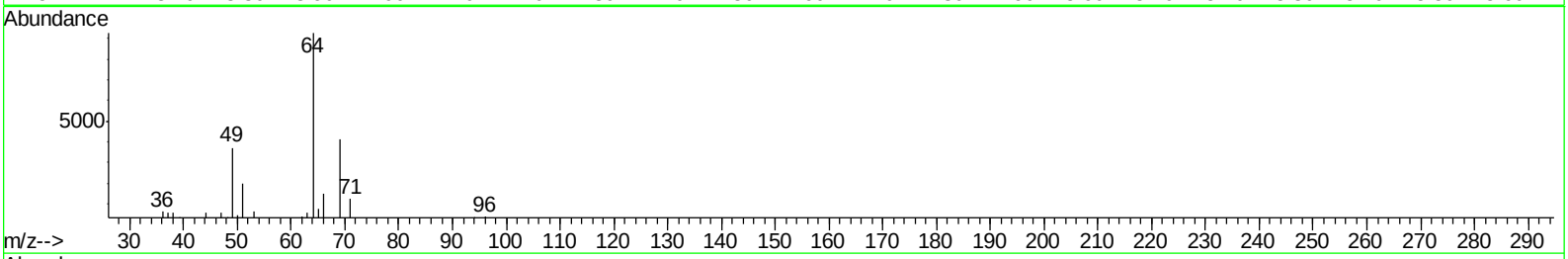
Ion	Exp%	Act%
64.00	100	100
66.00	30.90	16.08#
0.00	0.00	0.00
0.00	0.00	0.00

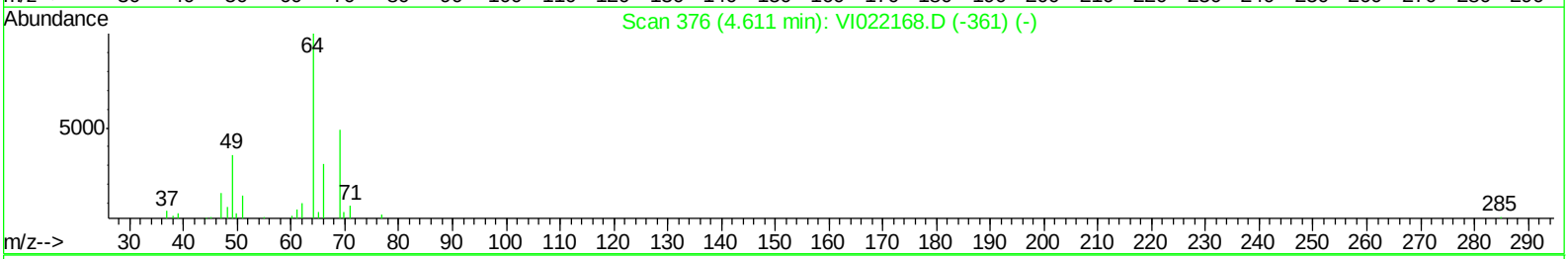
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(8) Chloroethane (T)

4.616min (+0.006) 35.00ug/L m

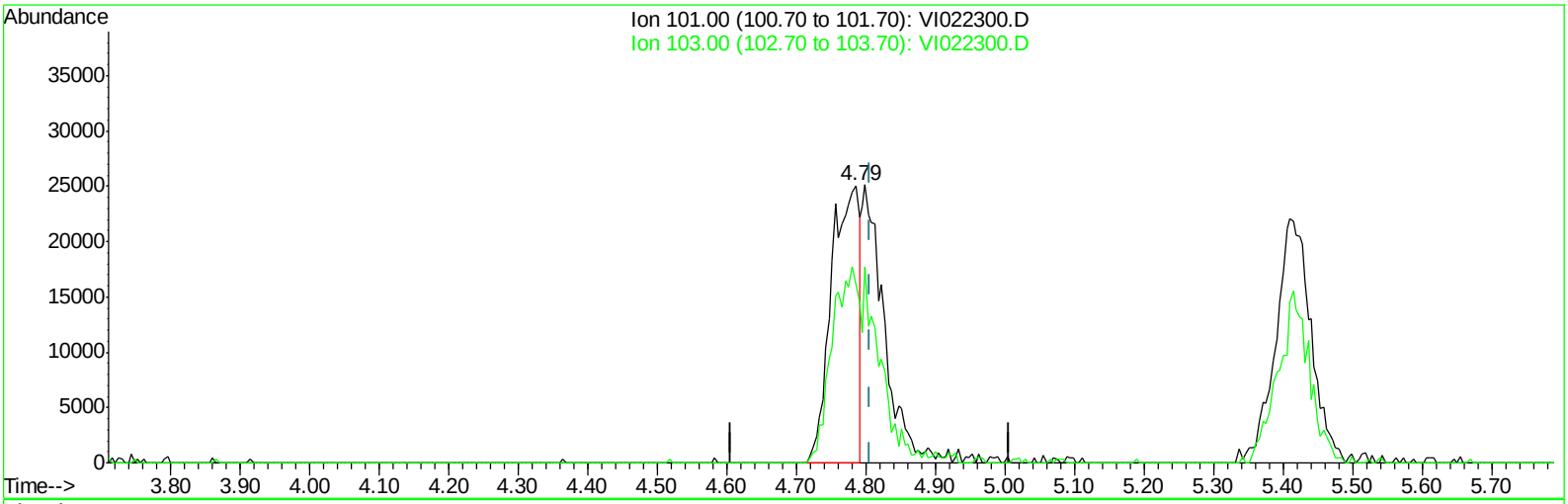
response 21488

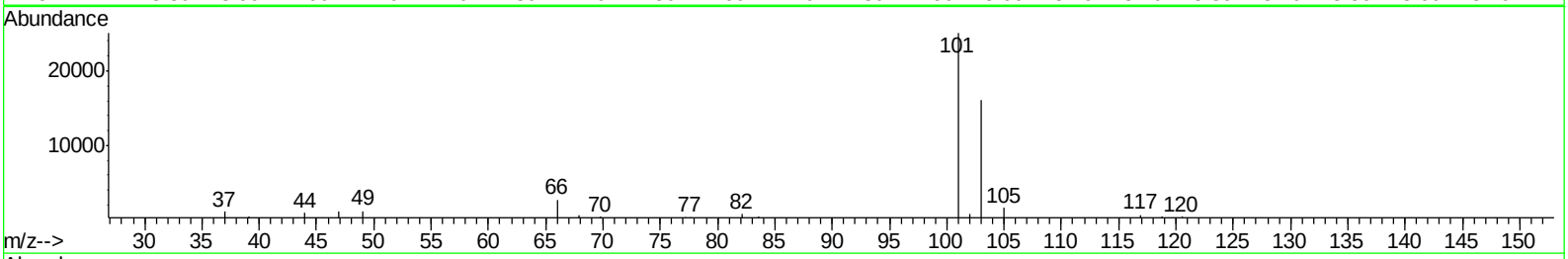
Ion	Exp%	Act%
64.00	100	100
66.00	30.90	16.08#
0.00	0.00	0.00
0.00	0.00	0.00

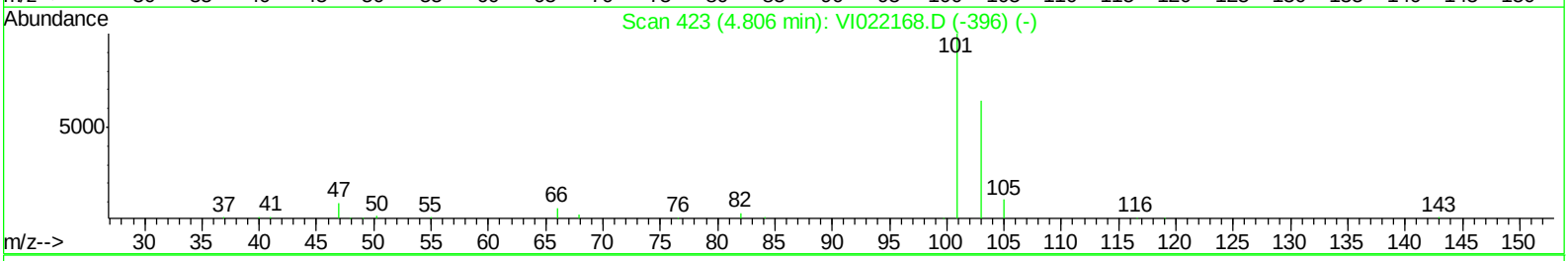
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(9) Trichlorofluoromethane (T)

4.785min (-0.021) 28.48ug/L

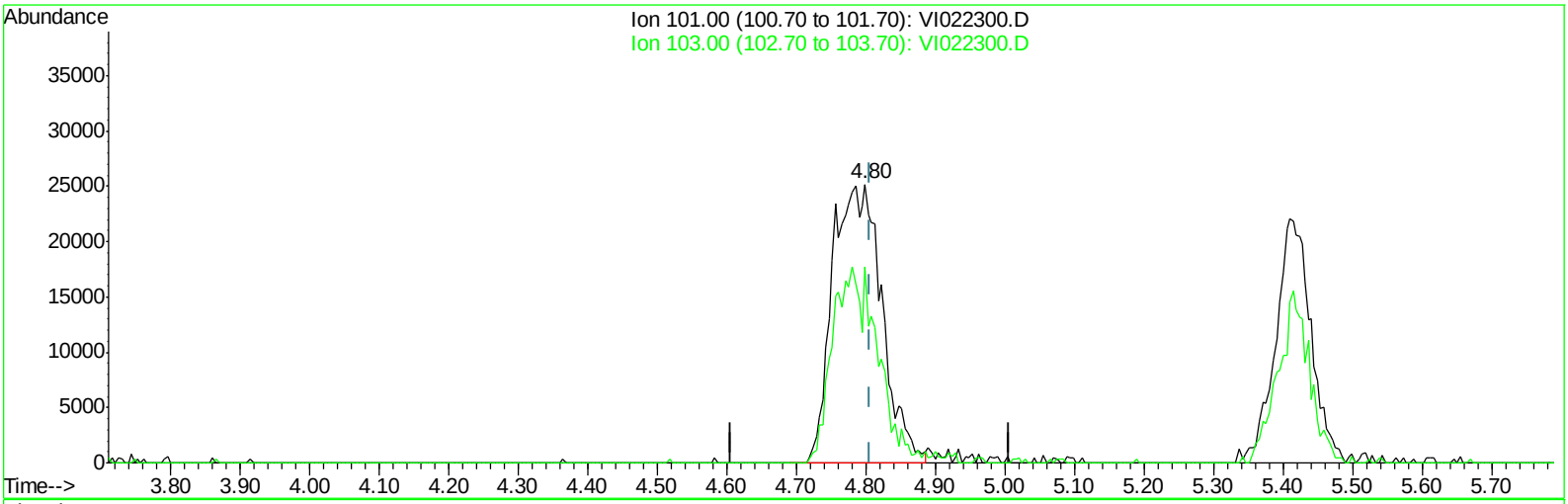
response 68023

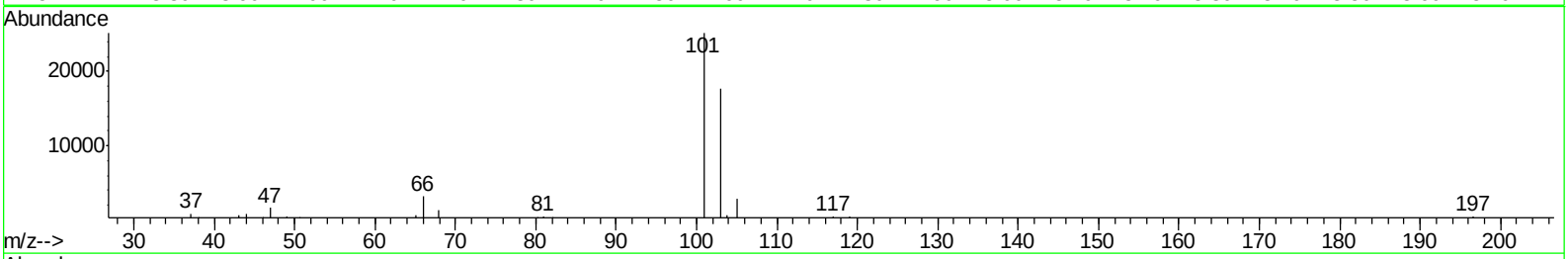
Ion	Exp%	Act%
101.00	100	100
103.00	33.00	72.92#
0.00	0.00	0.00
0.00	0.00	0.00

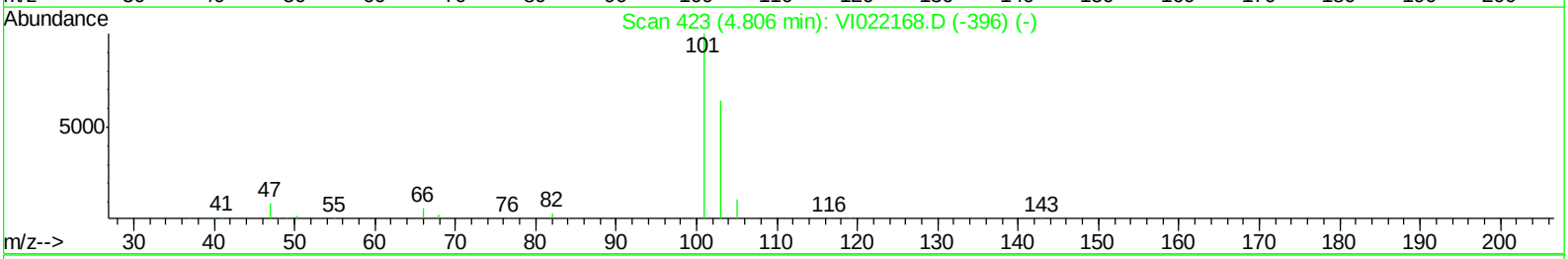
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(9) Trichlorofluoromethane (T)

4.799min (-0.007) 51.72ug/L m

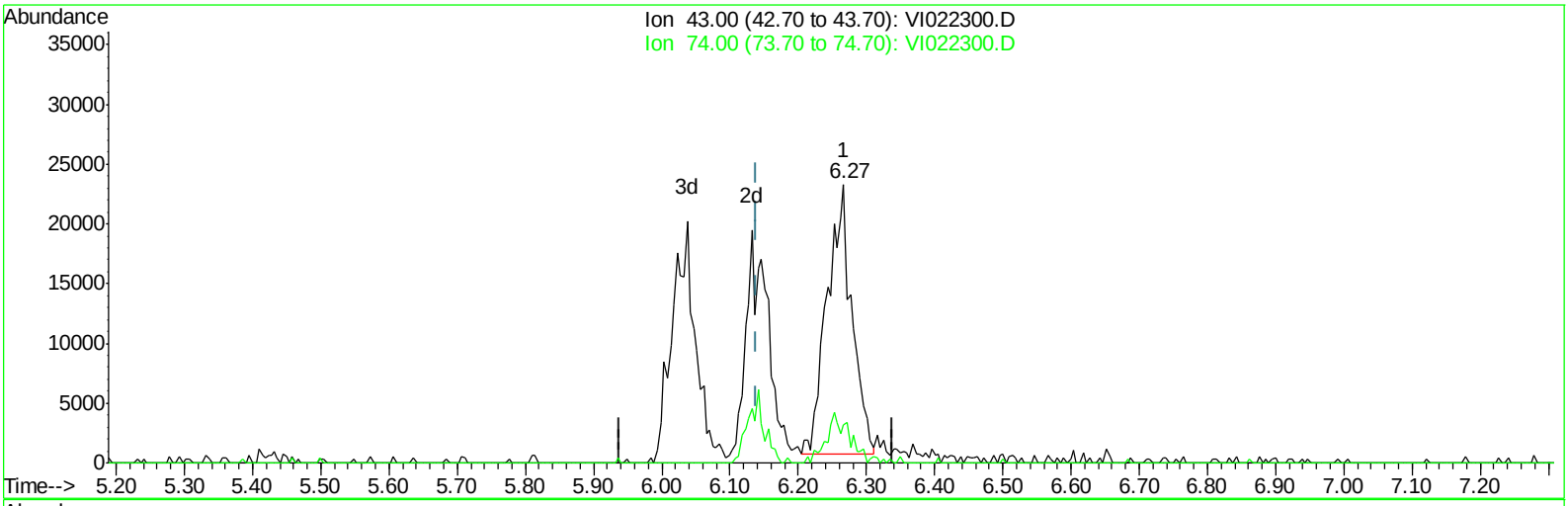
response 123530

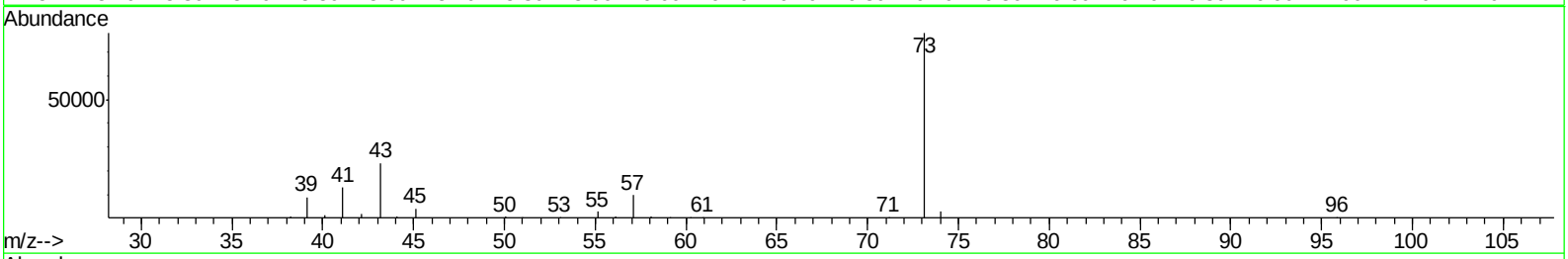
Ion	Exp%	Act%
101.00	100	100
103.00	33.00	40.16#
0.00	0.00	0.00
0.00	0.00	0.00

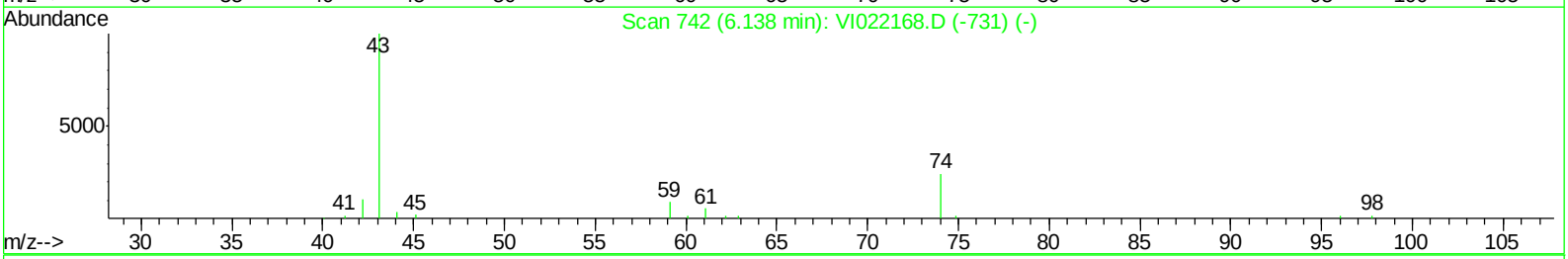
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(16) Methyl Acetate (T)

6.266min (+0.128) 44.63ug/L

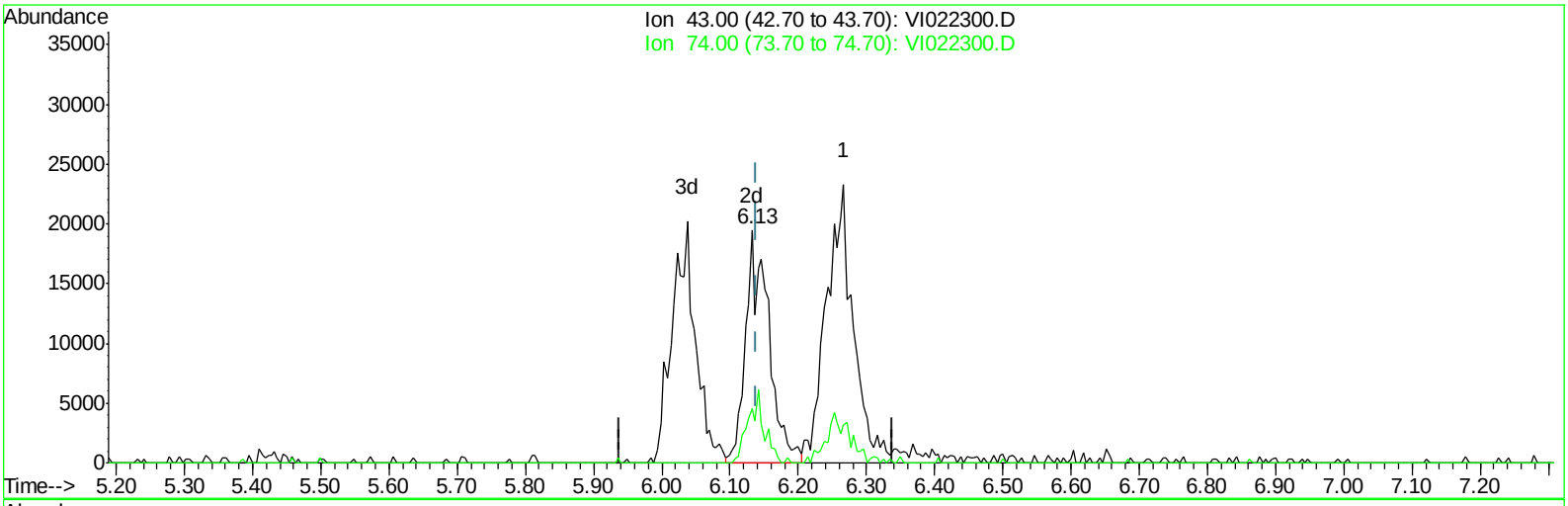
response 57757

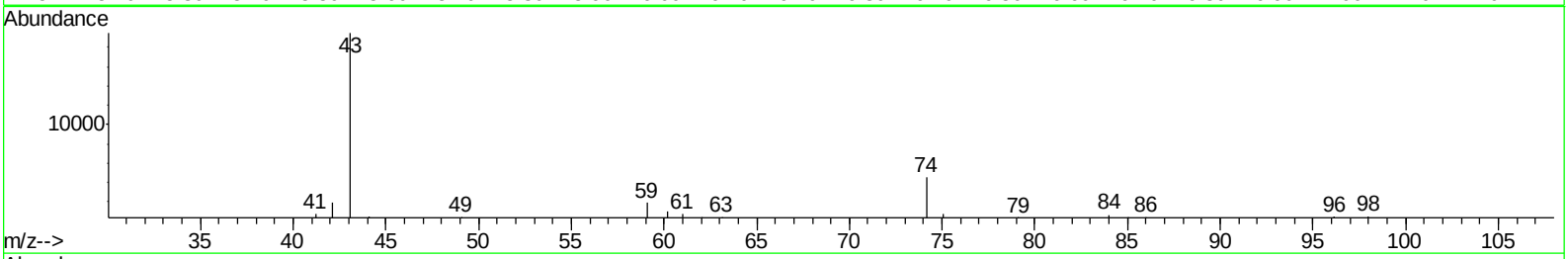
Ion	Exp%	Act%
43.00	100	100
74.00	20.10	16.99
0.00	0.00	0.00
0.00	0.00	0.00

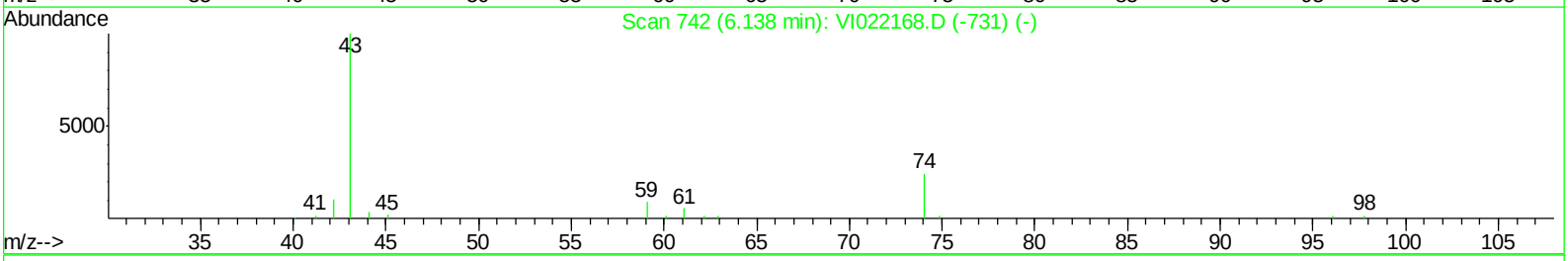
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(16) Methyl Acetate (T)

6.132min (-0.007) 35.79ug/L m

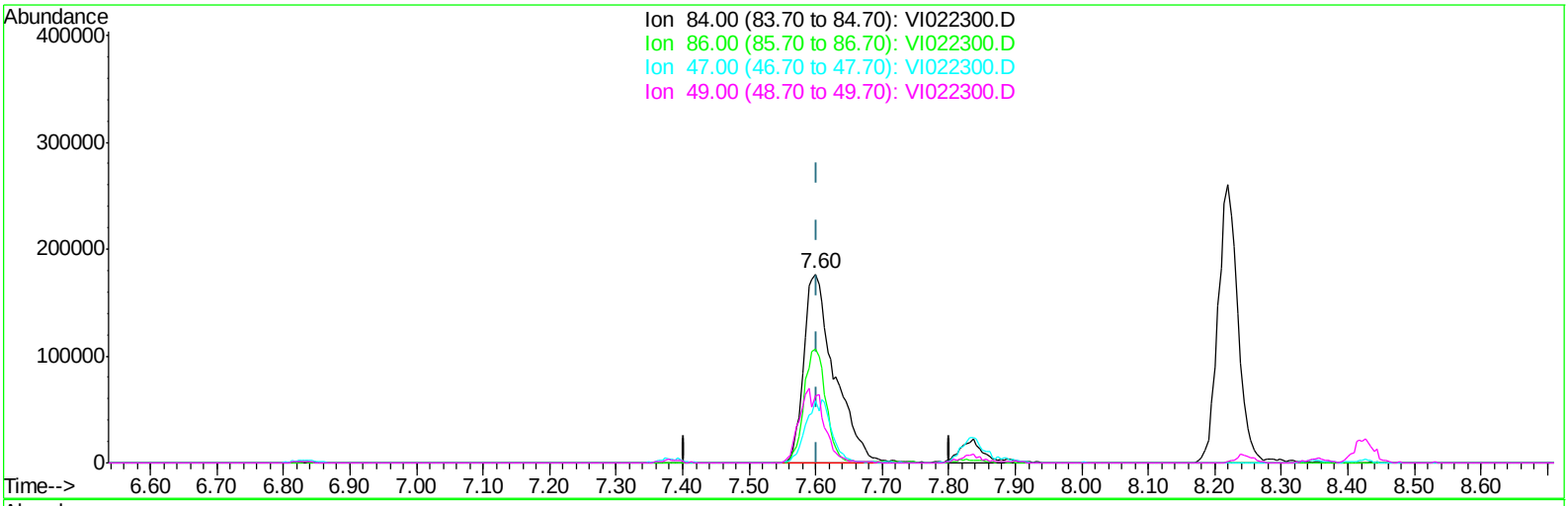
response 46320

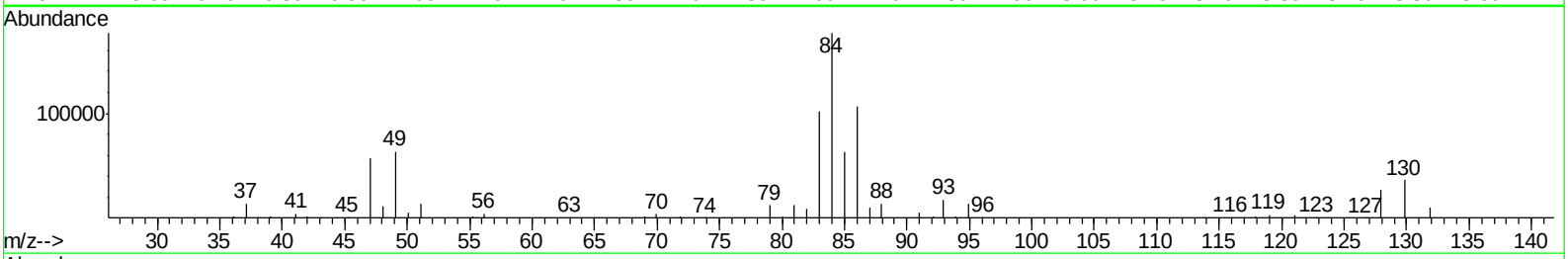
Ion	Exp%	Act%
43.00	100	100
74.00	20.10	21.19
0.00	0.00	0.00
0.00	0.00	0.00

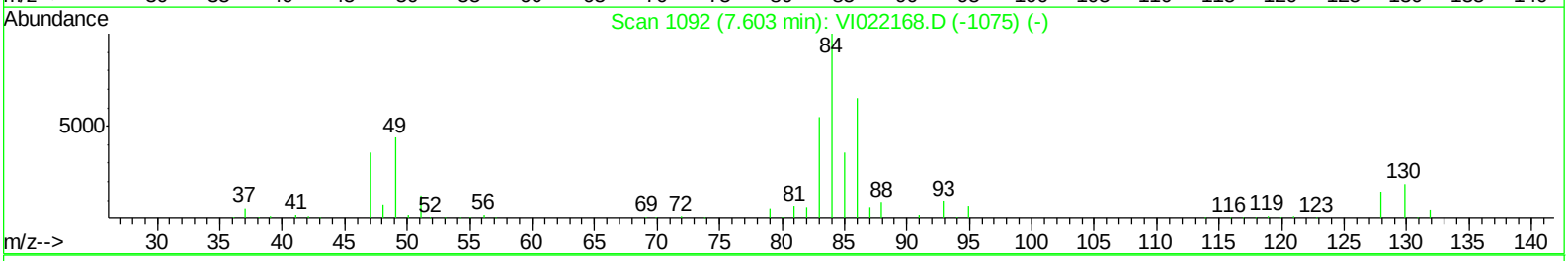
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(22) Chloroform-d (S)

7.600min (-0.003) 70.12ug/L

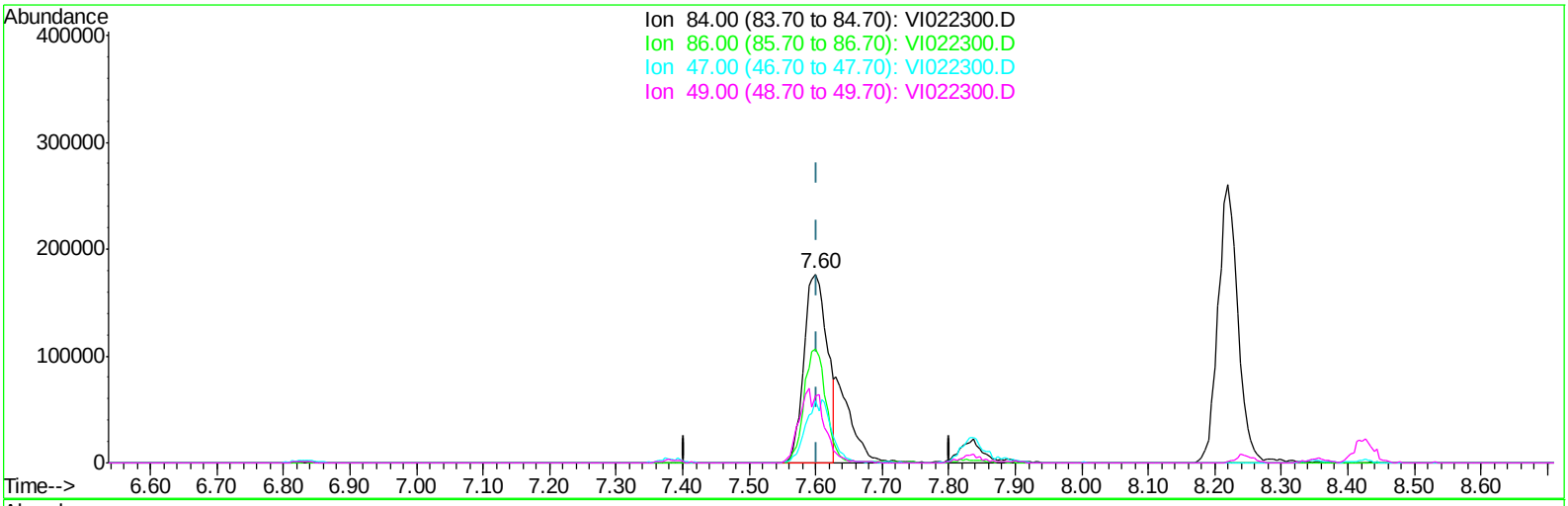
response 573404

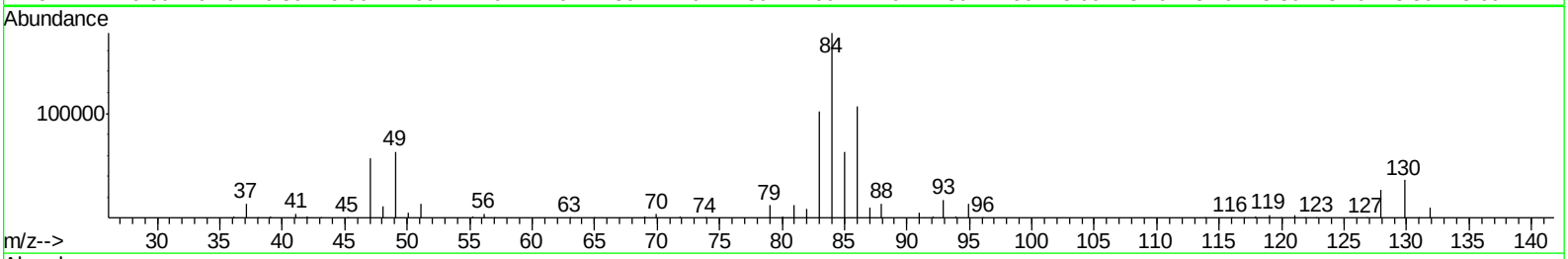
Ion	Exp%	Act%
84.00	100	100
86.00	55.90	43.74
47.00	40.10	27.99#
49.00	52.50	32.14#

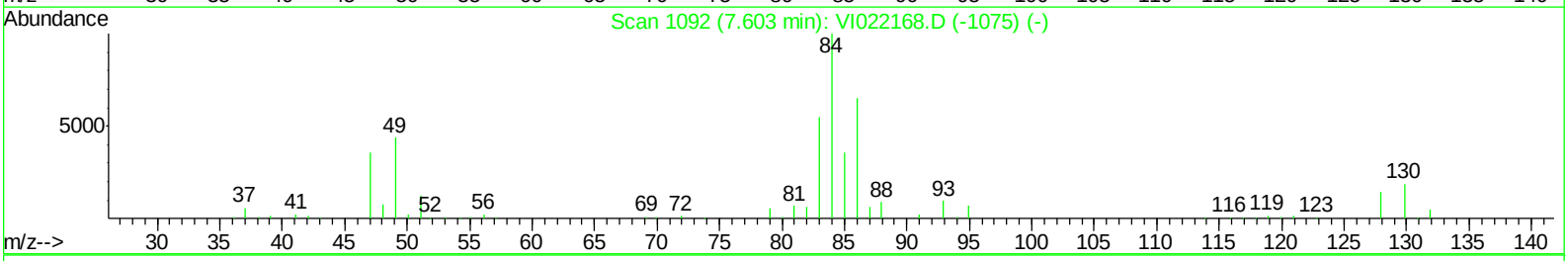
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(22) Chloroform-d (S)

7.600min (-0.003) 53.39ug/L m

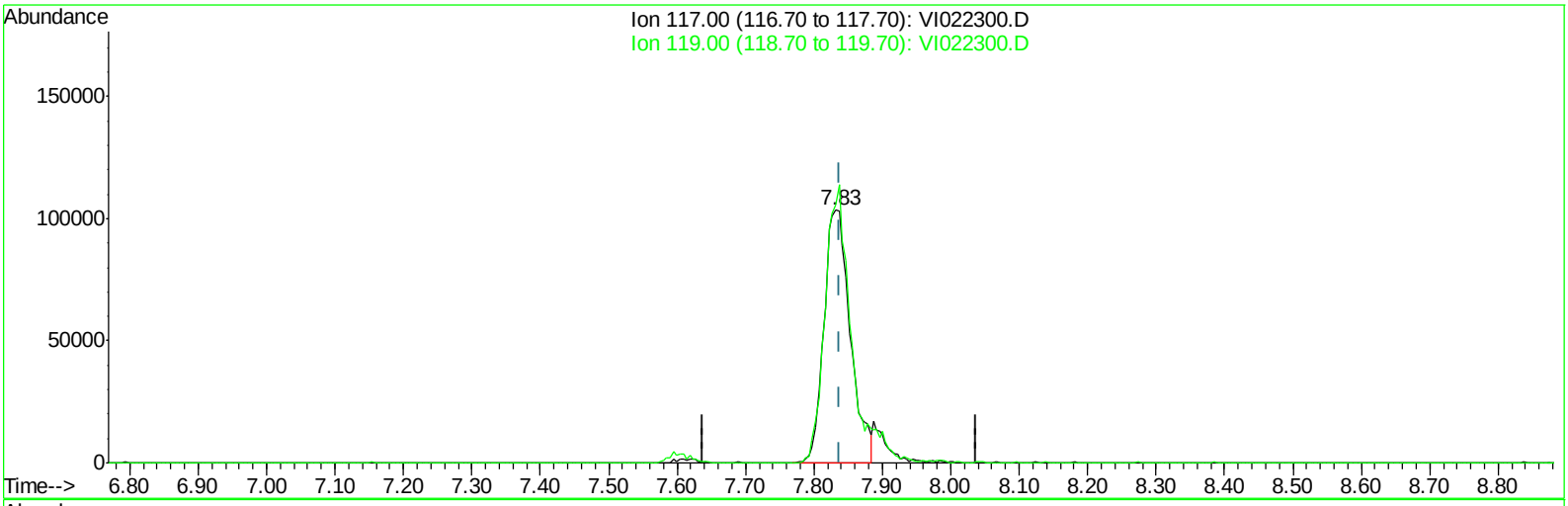
response 436582

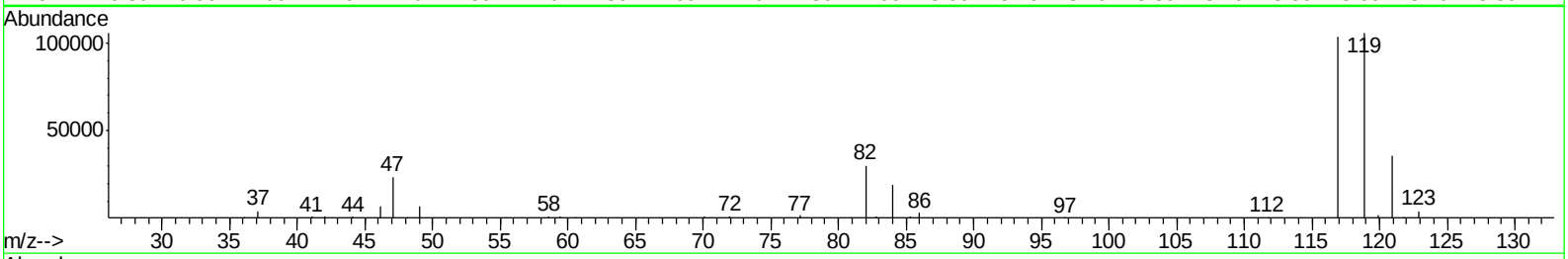
Ion	Exp%	Act%
84.00	100	100
86.00	55.90	57.44
47.00	40.10	36.76
49.00	52.50	42.21

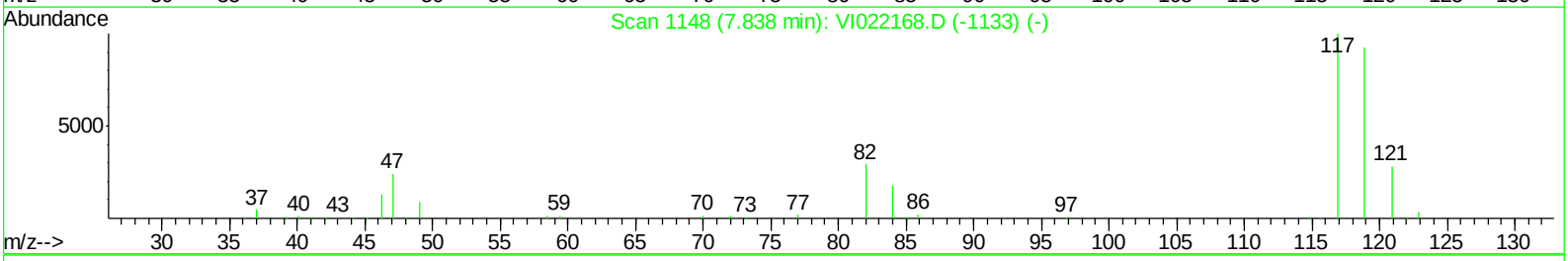
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(32) Carbon tetrachloride (T)

7.832min (-0.007) 46.02ug/L

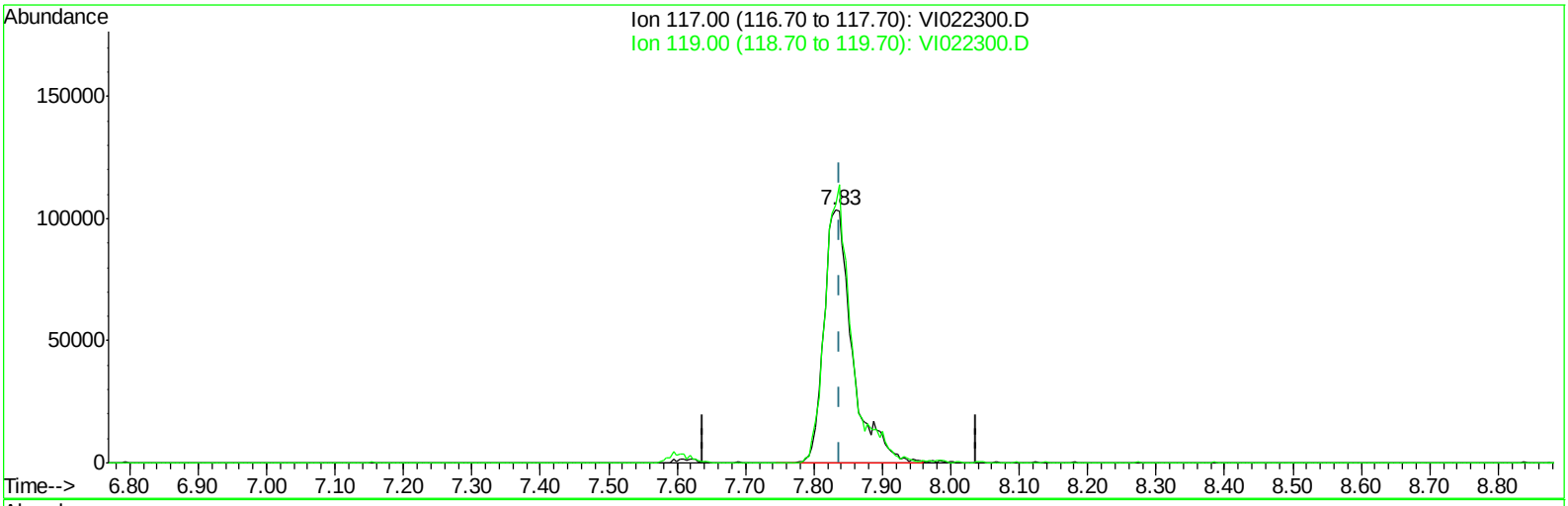
response 272596

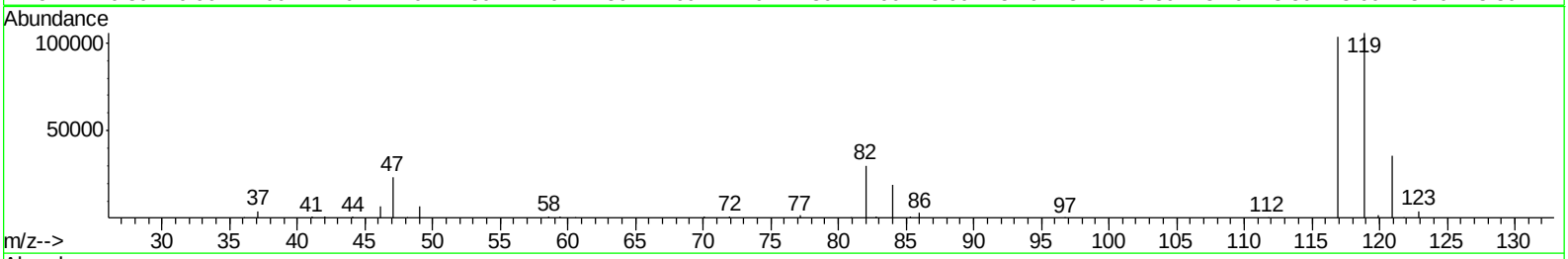
Ion	Exp%	Act%
117.00	100	100
119.00	91.10	108.49
0.00	0.00	0.00
0.00	0.00	0.00

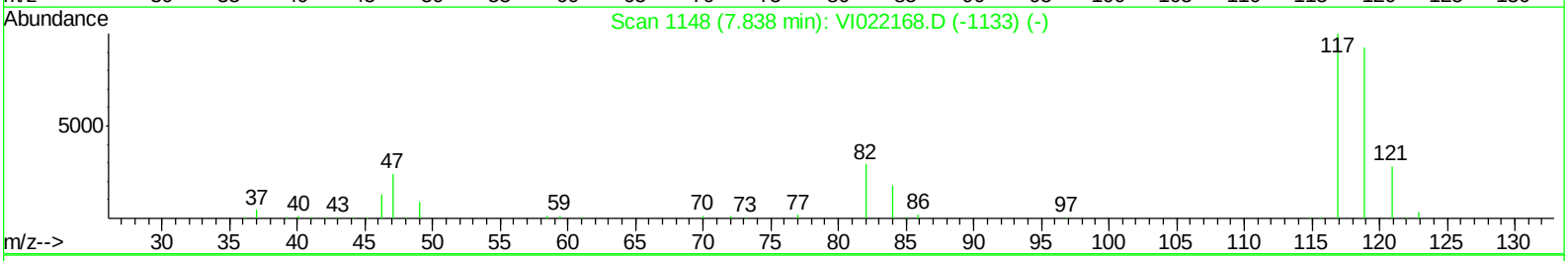
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:10:00 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration







TIC: VI022300.D

(32) Carbon tetrachloride (T)

7.832min (-0.007) 49.32ug/L m

response 292135

Ion	Exp%	Act%
117.00	100	100
119.00	91.10	101.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:13:06 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	8.78	114	448130	50.00 ug/L	0.00
30) Chlorobenzene-d5	11.67	117	475104	50.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	13.98	152	274802	50.00 ug/L	0.00
System Monitoring Compounds					
4) Vinyl Chloride-d3	4.00	65	131707	42.28 ug/L	0.00
7) Chloroethane-d5	4.59	69	32922	39.35 ug/L	0.00
10) 1,1-Dichloroethene-d2	5.36	63	165560	50.88 ug/L	-0.02
22) Chloroform-d	7.60	84	436582m	53.39 ug/L	0.00
24) 2-Butanone-d5	7.86	46	108842	78.93 ug/L	0.00
26) 1,2-Dichloroethane-d4	8.36	65	248515	62.14 ug/L	0.00
28) 1,4-Dioxane-d8	9.50	96	30765	1079.59 ug/L	0.00
34) Benzene-d6	8.22	84	531939	36.61 ug/L	0.00
38) 1,2-Dichloropropane-d6	9.24	67	172492	38.91 ug/L	0.00
42) Toluene-d8	10.15	98	531158	43.03 ug/L	0.00
45) trans-1,3-Dichloropropene-	10.54	79	80855	49.15 ug/L	0.00
51) 2-Hexanone-d5	11.26	63	135257	92.84 ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	12.96	84	287943	54.31 ug/L	0.00
65) 1,2-Dichlorobenzene-d4	14.45	152	272293	52.10 ug/L	0.00

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.57	85	189636	49.00 ug/L	93
3) Chloromethane	3.85	50	129038	31.86 ug/L	95
5) Vinyl chloride	4.00	62	141370	41.09 ug/L	93
6) Bromomethane	4.44	94	61511	44.49 ug/L	89
8) Chloroethane	4.62	64	21488m	35.00 ug/L	
9) Trichlorofluoromethane	4.80	101	123530m	51.72 ug/L	
11) 1,1-Dichloroethene	5.37	96	63359	44.97 ug/L	76
12) 1,1,2-Trichlorotrifluoroet	5.41	101	79578	52.15 ug/L #	72
13) Carbon disulfide	5.47	76	212994	46.94 ug/L #	94
14) Methylene chloride	5.99	84	63741	42.57 ug/L	94
15) Acetone	6.04	43	47944	74.73 ug/L	70
16) Methyl Acetate	6.13	43	46320m	35.79 ug/L	
17) trans-1,2-Dichloroethene	6.17	96	74119	42.83 ug/L	78
18) Methyl tert-butyl Ether	6.26	73	251331	52.65 ug/L	96
19) 1,1-Dichloroethane	6.83	63	219004	47.63 ug/L	96
20) cis-1,2-Dichloroethene	7.38	96	133670	43.34 ug/L	91
21) Bromochloromethane	7.59	128	83369	51.16 ug/L	83
23) Chloroform	7.61	83	348593	53.09 ug/L	95
25) 2-Butanone	7.90	43	98207	75.67 ug/L	87
27) 1,2-Dichloroethane	8.42	62	274582	62.40 ug/L	97
29) 1,4-Dioxane	9.53	88	33522	1123.15 ug/L	92
31) Cyclohexane	7.64	56	127500	30.38 ug/L #	45
32) Carbon tetrachloride	7.83	117	292135m	49.32 ug/L	
33) 1,1,1-Trichloroethane	7.88	97	297375	50.05 ug/L	98
35) Benzene	8.24	78	453573	37.06 ug/L	100
36) Trichloroethene	8.79	95	170065	33.22 ug/L	96
37) Methylcyclohexane	8.82	83	204756	34.08 ug/L	97
39) 1,2-Dichloropropane	9.31	63	121998	36.31 ug/L	98
40) Bromodichloromethane	9.34	83	281906	47.89 ug/L	96

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022300.D
Acq On : 19 Oct 2008 13:00
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:13:06 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 14 15:10:59 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
41) cis-1,3-Dichloropropene	9.95	75	287553	42.18 ug/L	95
43) Toluene	10.20	91	588118	42.51 ug/L	95
44) 4-Methyl-2-pentanone	10.50	43	330299	79.44 ug/L	96
46) trans-1,3-Dichloropropene	10.56	75	332129	51.88 ug/L	94
47) Tetrachloroethene	10.60	164	128399	51.31 ug/L	88
48) 1,1,2-Trichloroethane	10.73	97	145447	46.88 ug/L	87
49) Dibromochloromethane	10.93	129	241146	56.39 ug/L	98
50) 1,2-Dibromoethane	11.21	107	197942	51.50 ug/L	100
52) 2-Hexanone	11.29	43	263597	82.49 ug/L #	97
53) Ethylbenzene	11.67	91	803325	43.56 ug/L	98
54) Chlorobenzene	11.69	112	441476	52.05 ug/L	94
55) m&p-xylenes	11.80	106	274119	50.38 ug/L	91
56) o-xylene	12.24	106	285576	49.15 ug/L	95
57) Styrene	12.28	104	494602	49.32 ug/L	86
58) Isopropylbenzene	12.52	105	844377	53.55 ug/L	98
60) 1,1,2,2-Tetrachloroethane	12.99	83	251469	52.83 ug/L #	90
62) Bromoform	12.36	173	159816	56.66 ug/L #	97
63) 1,3-Dichlorobenzene	13.91	146	418903	51.65 ug/L	95
64) 1,4-Dichlorobenzene	14.00	146	404002	51.53 ug/L	92
66) 1,2-Dichlorobenzene	14.46	146	364796	49.88 ug/L	94
67) 1,2-Dibromo-3-chloropropan	15.34	75	62786	52.89 ug/L #	79
68) 1,2,4-trichlorobenzene	16.20	180	220821	48.71 ug/L	98
69) 1,2,3-Trichlorobenzene	16.96	180	176196	43.14 ug/L	97

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

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAI Calibration Date: 10/19/2008 Time: 21:16

Lab File ID: VI022320.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (VSTD#####): VSTD020 Init. Calib. Time(s): 12:10 13:49

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 10 (mL)

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.467	0.505	0.010	8.1	50.0
Chloromethane	0.344	0.307	0.010	-10.8	50.0
Vinyl Chloride	0.350	0.364	0.010	4.0	50.0
Bromomethane	0.158	0.213	0.010	34.8	50.0
Chloroethane	0.053	0.066	0.010	24.5	50.0
Trichlorofluoromethane	0.282	0.336	0.010	19.1	50.0
1,1-Dichloroethene	0.138	0.157	0.010	13.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.170	0.182	0.010	7.1	50.0
Acetone	0.053	0.048	0.010	-9.4	50.0
Carbon disulfide	0.478	0.478	0.010	0.0	50.0
Methyl acetate	0.095	0.091	0.010	-4.2	50.0
Methylene chloride	0.164	0.149	0.010	-9.1	50.0
trans-1,2-Dichloroethene	0.153	0.151	0.010	-1.3	50.0
Methyl tert-Butyl ether	0.526	0.605	0.010	15.0	50.0
1,1-Dichloroethane	0.446	0.499	0.010	11.9	50.0
cis-1,2-Dichloroethene	0.297	0.339	0.010	14.1	50.0
2-Butanone	0.104	0.122	0.010	17.3	50.0
Bromochloromethane	0.187	0.225	0.010	20.3	50.0
Chloroform	0.744	0.896	0.010	20.4	50.0
1,1,1-Trichloroethane	0.591	0.588	0.010	-0.5	50.0
Cyclohexane	0.272	0.226	0.010	-16.9	50.0
Carbon Tetrachloride	0.628	0.633	0.010	0.8	50.0
Benzene	0.974	0.893	0.010	-8.3	50.0
1,2-Dichloroethane	0.536	0.740	0.010	38.1	50.0
1,4-Dioxane	0.003	0.003	0.005	0.0	50.0
Trichloroethene	0.460	0.383	0.010	-16.7	50.0
Methylcyclohexane	0.468	0.383	0.010	-18.2	50.0

Report 1,4 -Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAI Calibration Date: 10/19/2008 Time: 21:16

Lab File ID: VI022320.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (VSTD#####): VSTD020 Init. Calib. Time(s): 12:10 13:49

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 10 (mL)

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX%D
1,2-Dichloropropane	0.261	0.259	0.010	-0.8	50.0
Bromodichloromethane	0.581	0.644	0.010	10.8	50.0
cis-1,3-Dichloropropene	0.621	0.635	0.010	2.3	50.0
4-Methyl-2-pentanone	0.318	0.333	0.010	4.7	50.0
Toluene	1.165	1.071	0.010	-8.1	50.0
trans-1,3-Dichloropropene	0.626	0.713	0.010	13.9	50.0
1,1,2-Trichloroethane	0.287	0.330	0.010	15.0	50.0
Tetrachloroethene	0.269	0.248	0.010	-7.8	50.0
2-Hexanone	0.253	0.277	0.010	9.5	50.0
Dibromochloromethane	0.492	0.570	0.010	15.9	50.0
1,2-Dibromoethane	0.409	0.429	0.010	4.9	50.0
Chlorobenzene	0.872	0.996	0.010	14.2	50.0
Ethylbenzene	1.711	1.772	0.010	3.6	50.0
o-Xylene	0.588	0.604	0.010	2.7	50.0
m,p-Xylene	0.522	0.590	0.010	13.0	50.0
Styrene	0.948	1.158	0.010	22.2	50.0
Bromoform	0.511	0.699	0.010	36.8	50.0
Isopropylbenzene	1.626	1.748	0.010	7.5	50.0
1,1,2,2-Tetrachloroethane	0.468	0.532	0.010	13.7	50.0
1,3-Dichlorobenzene	1.505	1.557	0.010	3.5	50.0
1,4-Dichlorobenzene	1.442	1.544	0.010	7.1	50.0
1,2-Dichlorobenzene	1.353	1.548	0.010	14.4	50.0
1,2-Dibromo-3-chloropropane	0.199	0.266	0.010	33.7	50.0
1,2,4-Trichlorobenzene	0.858	0.778	0.010	-9.3	50.0
1,2,3-Trichlorobenzene	0.695	0.720	0.010	3.6	50.0

Report 1,4 -Dioxane for Low-Medium VOA analysis only

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAI Calibration Date: 10/19/2008 Time: 21:16

Lab File ID: VI022320.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (VSTD#####): VSTD020 Init. Calib. Time(s): 12:10 13:49

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 10 (mL)

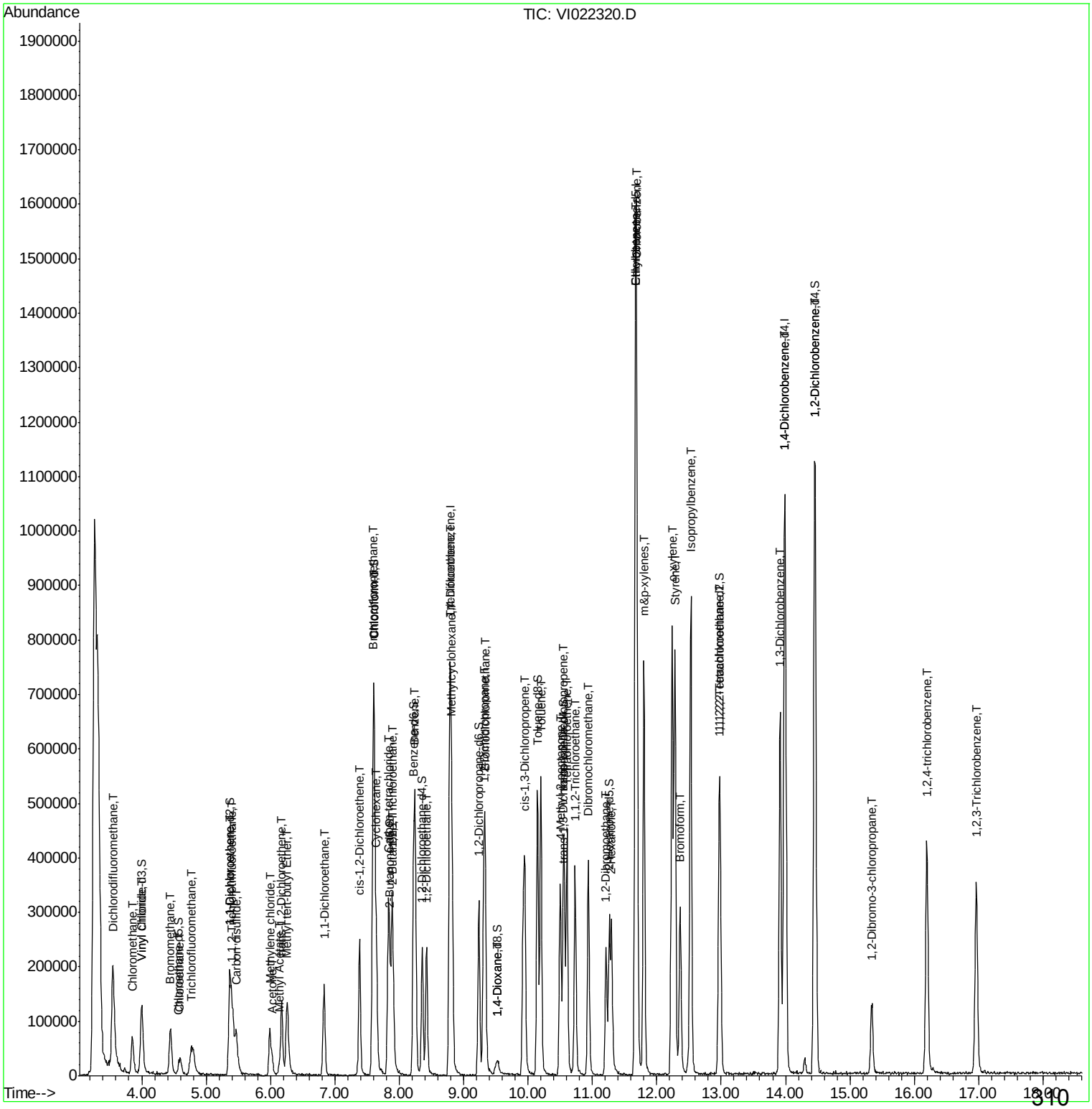
COMPOUND	RRF	RRF25	MIN RRF	%D	MAX%D
Vinyl Chloride-d3	0.304	0.308	0.010	1.3	50.0
Chloroethane-d5	0.071	0.086	0.010	21.1	50.0
1,1-Dichloroethene-d2	0.343	0.405	0.010	18.1	50.0
2-Butanone-d5	0.108	0.136	0.010	25.9	50.0
Chloroform-d	0.921	1.070	0.010	16.2	50.0
1,2-Dichloroethane-d4	0.483	0.645	0.010	33.5	50.0
Benzene-d6	1.070	0.952	0.010	-11.0	50.0
1,2-Dichloropropane-d6	0.343	0.312	0.010	-9.0	50.0
Toluene-d8	1.043	0.910	0.010	-12.8	50.0
trans-1,3-Dichloropropene-d4	0.148	0.164	0.010	10.8	50.0
2-Hexanone-d5	0.121	0.140	0.010	15.7	50.0
1,4-Dioxane-d8	0.003	0.002	0.005	-33.3	50.0
1,1,2,2-Tetrachloroethane-d2	0.495	0.587	0.010	18.6	50.0
1,2-Dichlorobenzene-d4	0.942	0.989	0.010	5.0	50.0

Report 1,4 -Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022320.D
Acq On : 19 Oct 2008 21:16
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 25 Sample Multiplier: 1

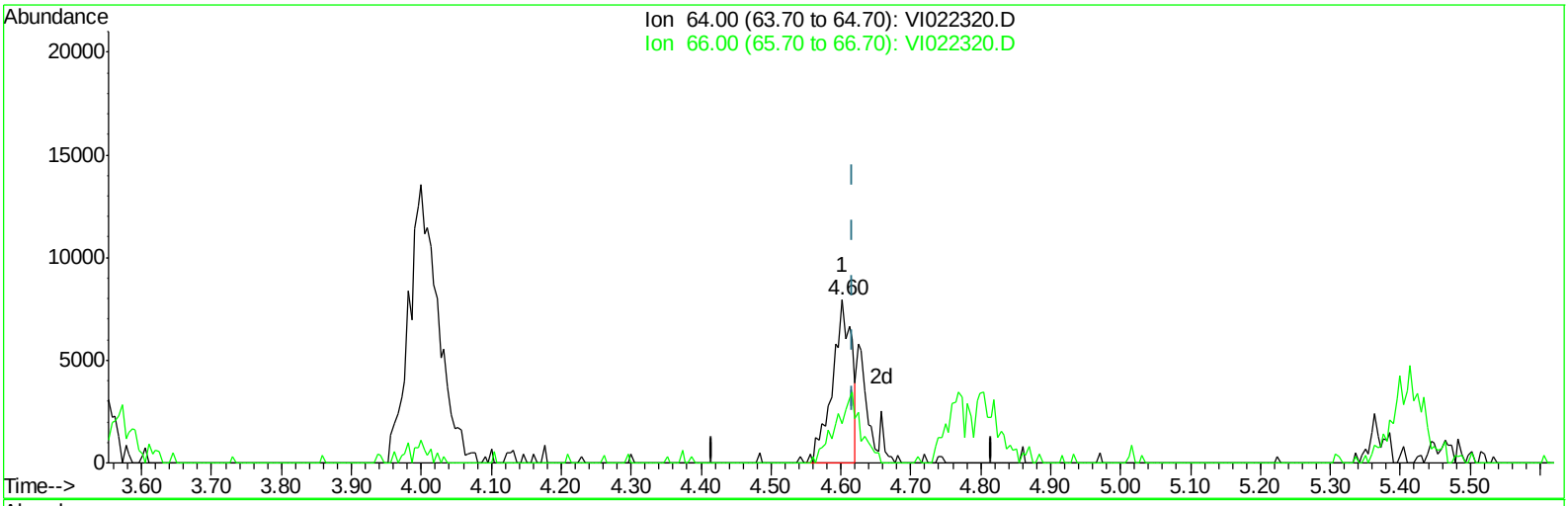
Quant Time: Oct 20 10:46:26 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

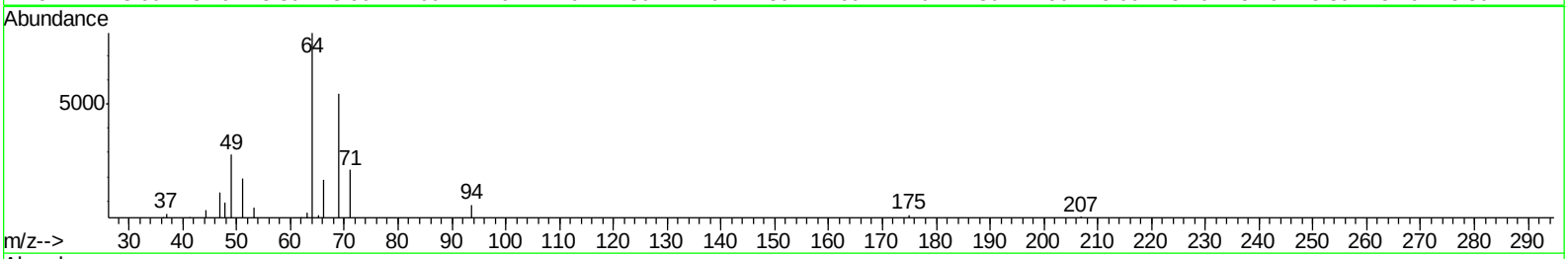


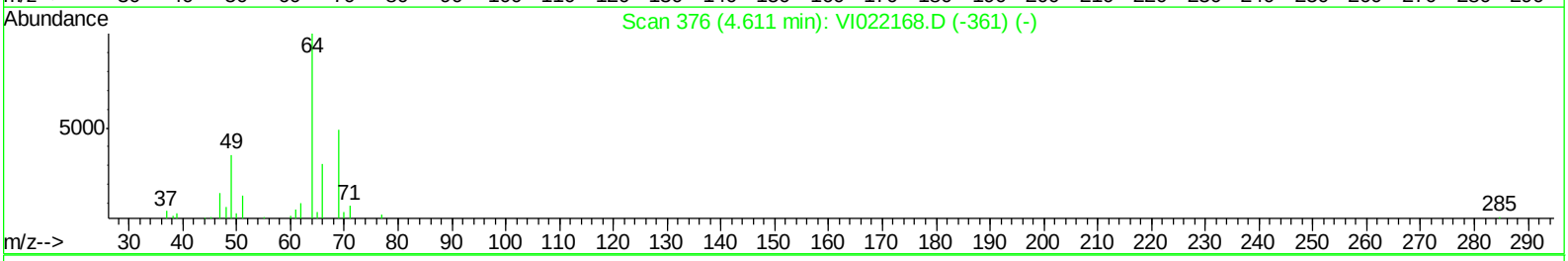
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022320.D
Acq On : 19 Oct 2008 21:16
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 10:36:02 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022320.D

(8) Chloroethane (T)

4.602min (-0.014) 42.23ug/L

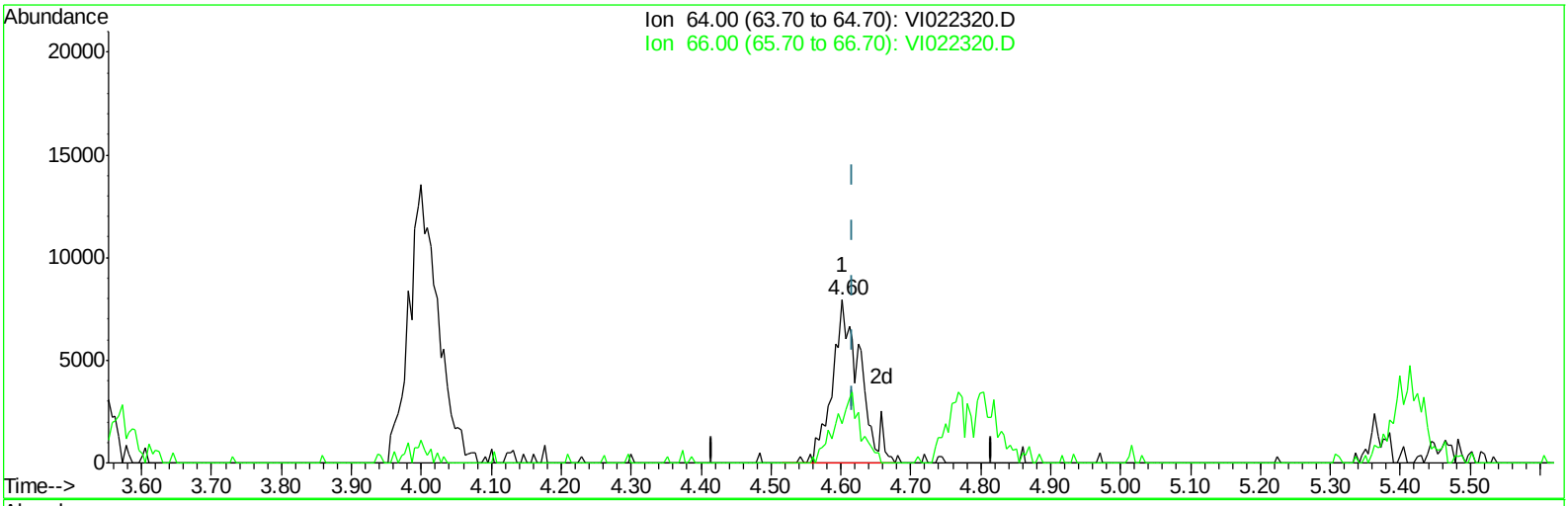
response 14961

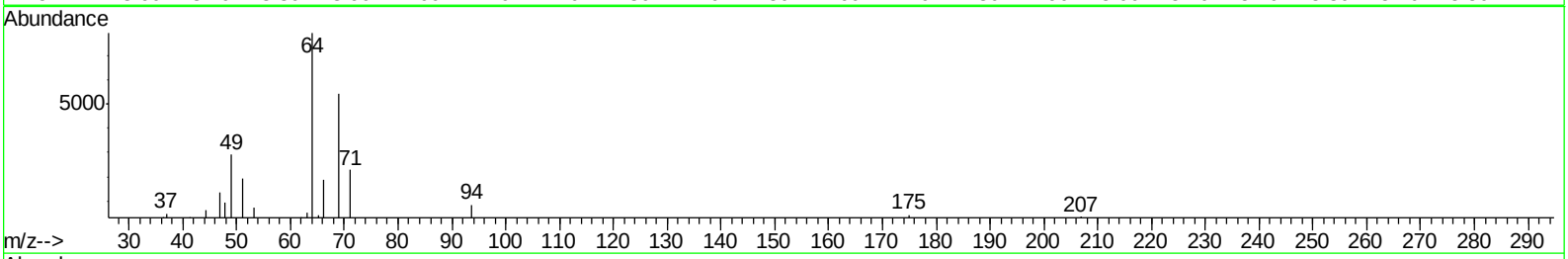
Ion	Exp%	Act%
64.00	100	100
66.00	16.10	23.93#
0.00	0.00	0.00
0.00	0.00	0.00

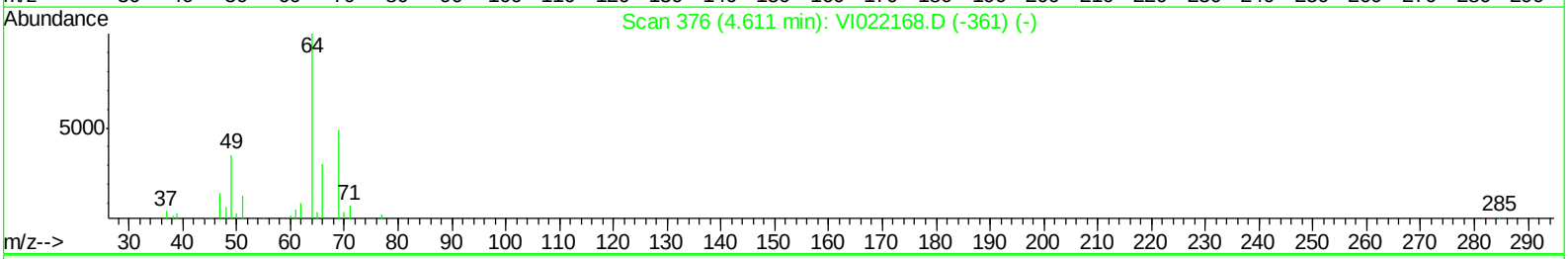
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022320.D
Acq On : 19 Oct 2008 21:16
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 10:36:02 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022320.D

(8) Chloroethane (T)

4.602min (-0.014) 62.05ug/L m

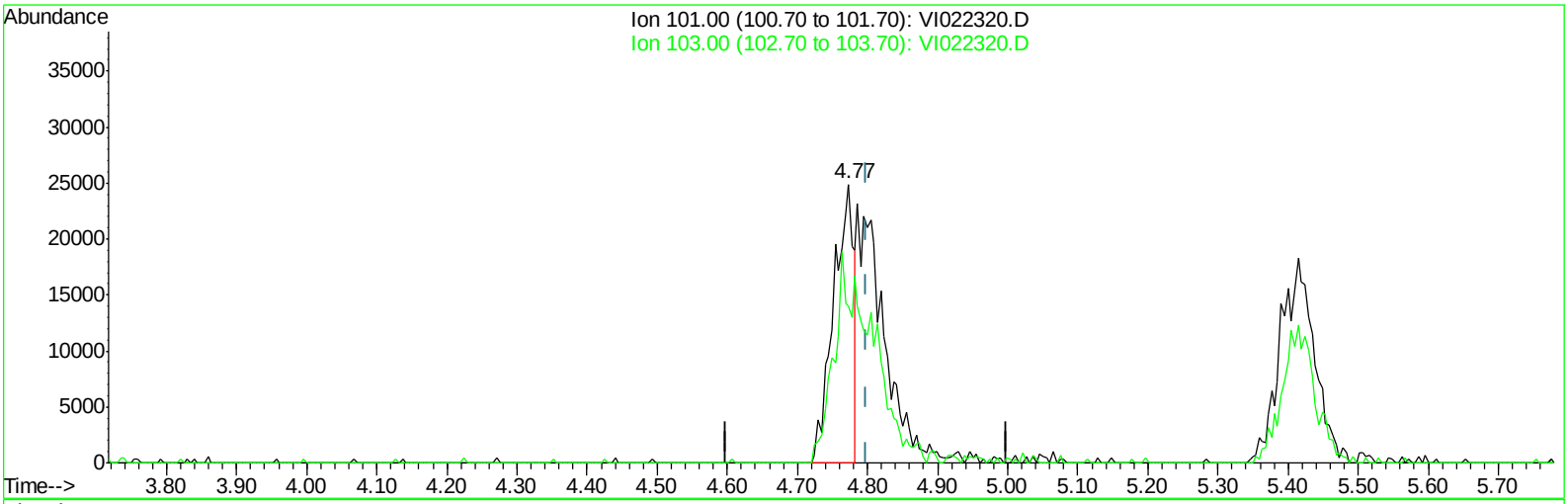
response 21982

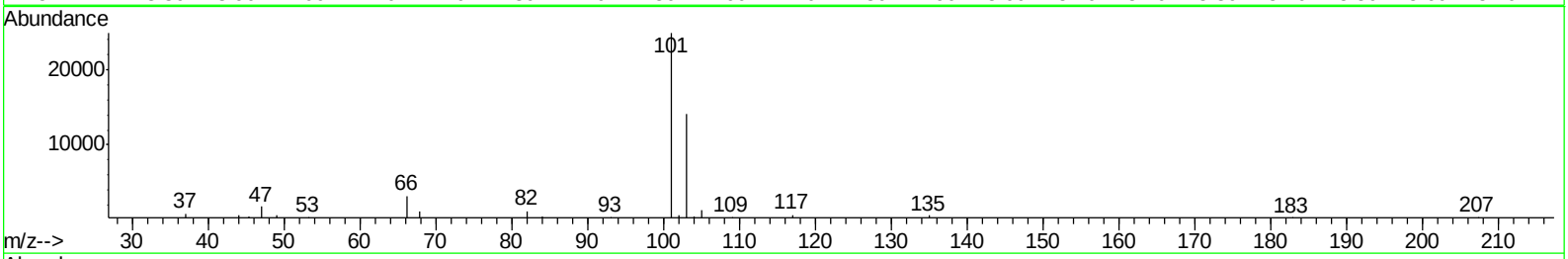
Ion	Exp%	Act%
64.00	100	100
66.00	16.10	23.93#
0.00	0.00	0.00
0.00	0.00	0.00

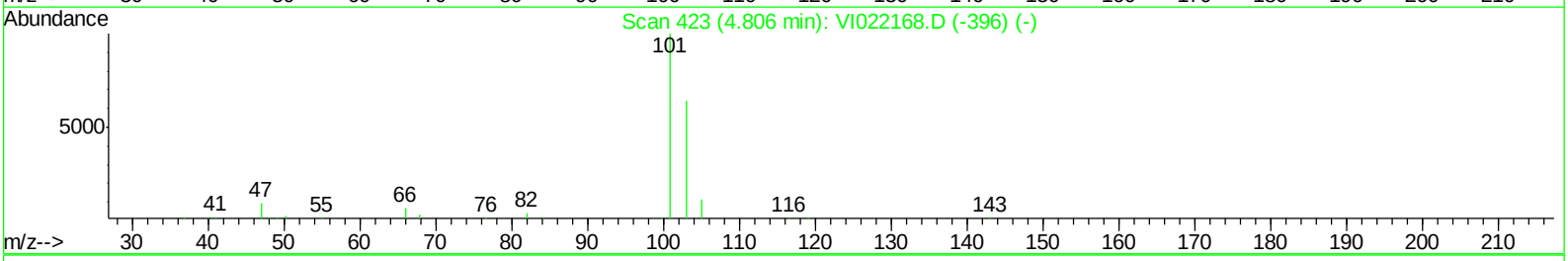
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022320.D
Acq On : 19 Oct 2008 21:16
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 10:36:02 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022320.D

(9) Trichlorofluoromethane (T)

4.773min (-0.026) 27.19ug/L

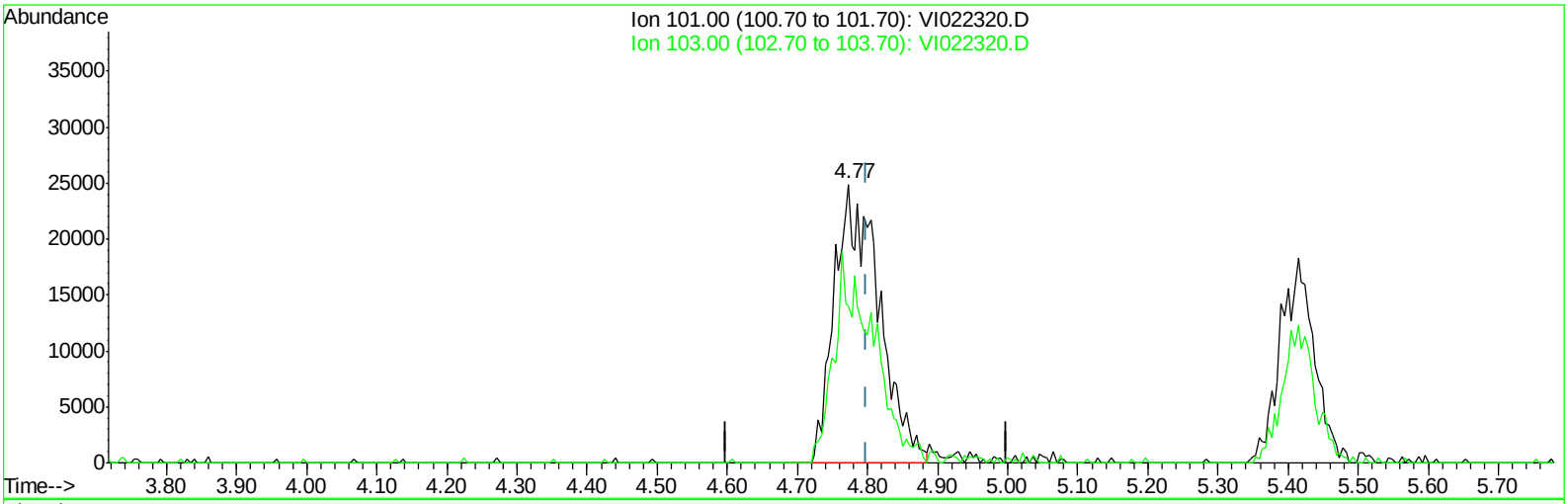
response 50960

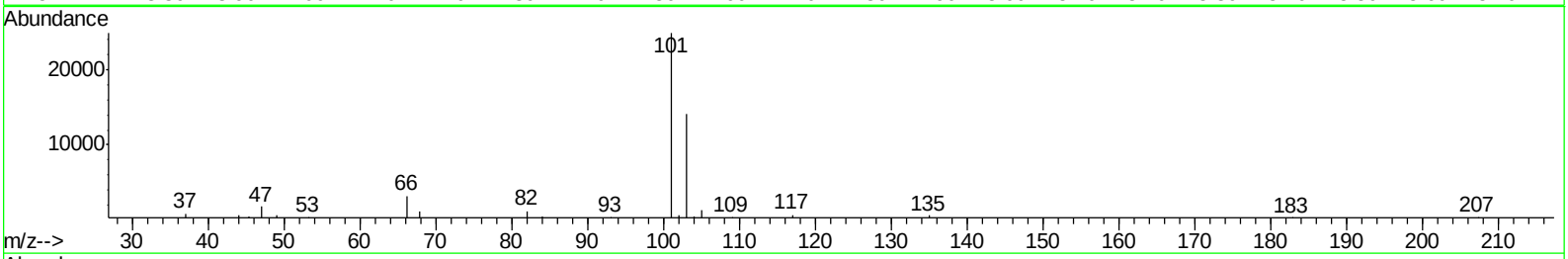
Ion	Exp%	Act%
101.00	100	100
103.00	40.20	61.01#
0.00	0.00	0.00
0.00	0.00	0.00

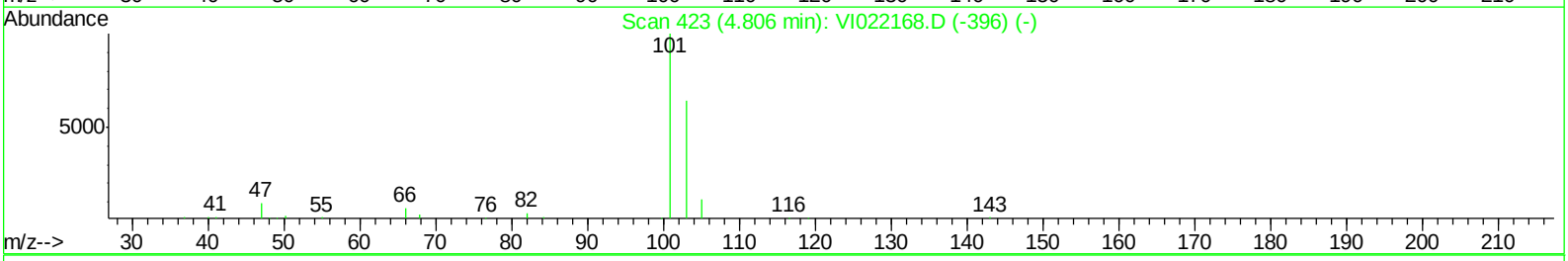
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022320.D
Acq On : 19 Oct 2008 21:16
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 10:36:02 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022320.D

(9) Trichlorofluoromethane (T)

4.773min (-0.026) 59.71ug/L m

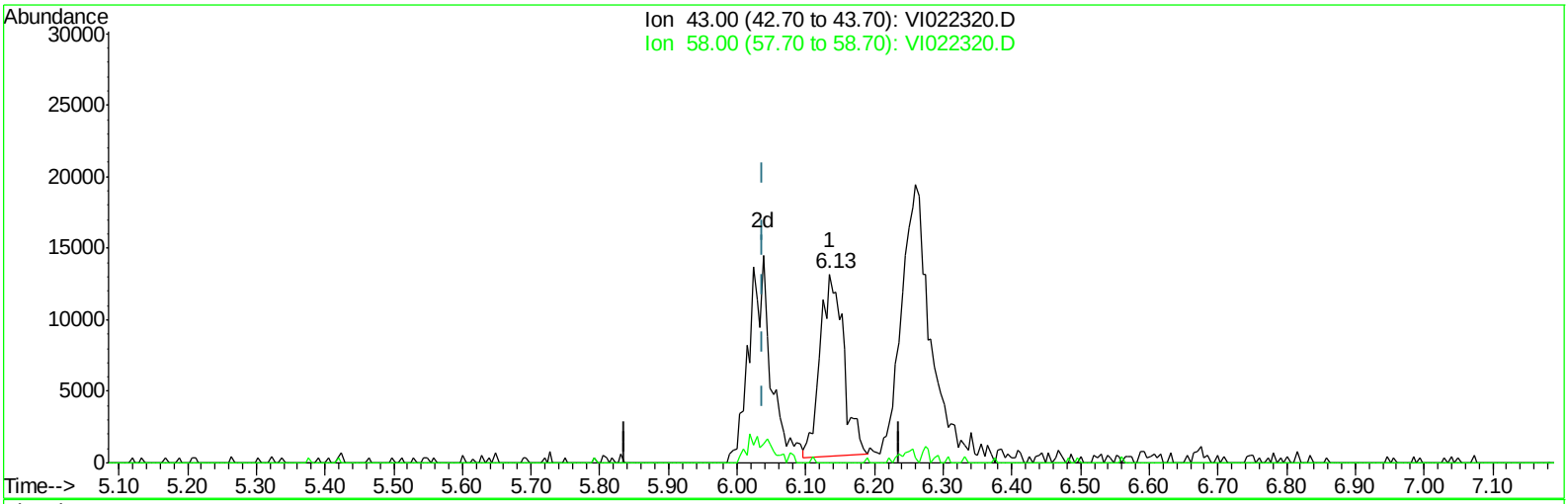
response 111936

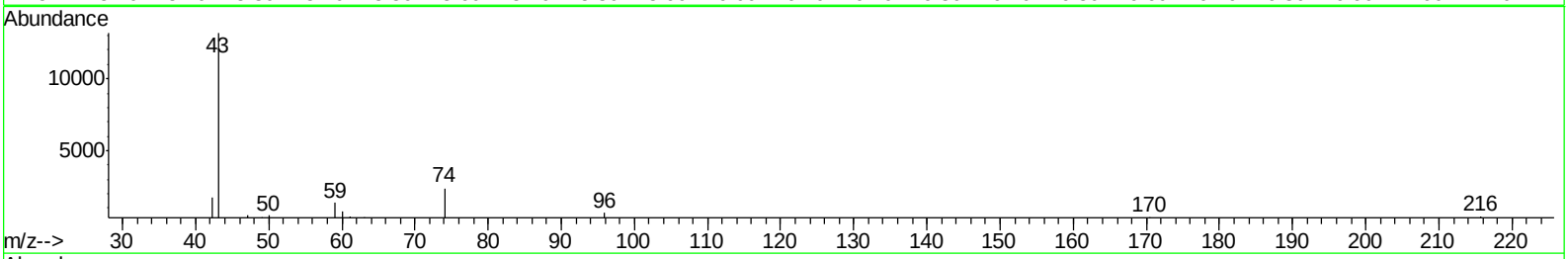
Ion	Exp%	Act%
101.00	100	100
103.00	40.20	27.78#
0.00	0.00	0.00
0.00	0.00	0.00

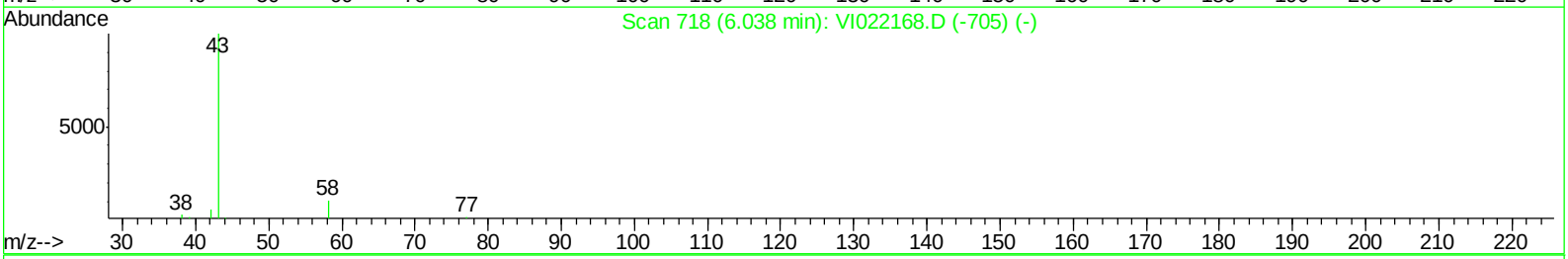
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022320.D
Acq On : 19 Oct 2008 21:16
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 10:36:02 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022320.D

(15) Acetone (T)

6.135min (+0.098) 88.01ug/L

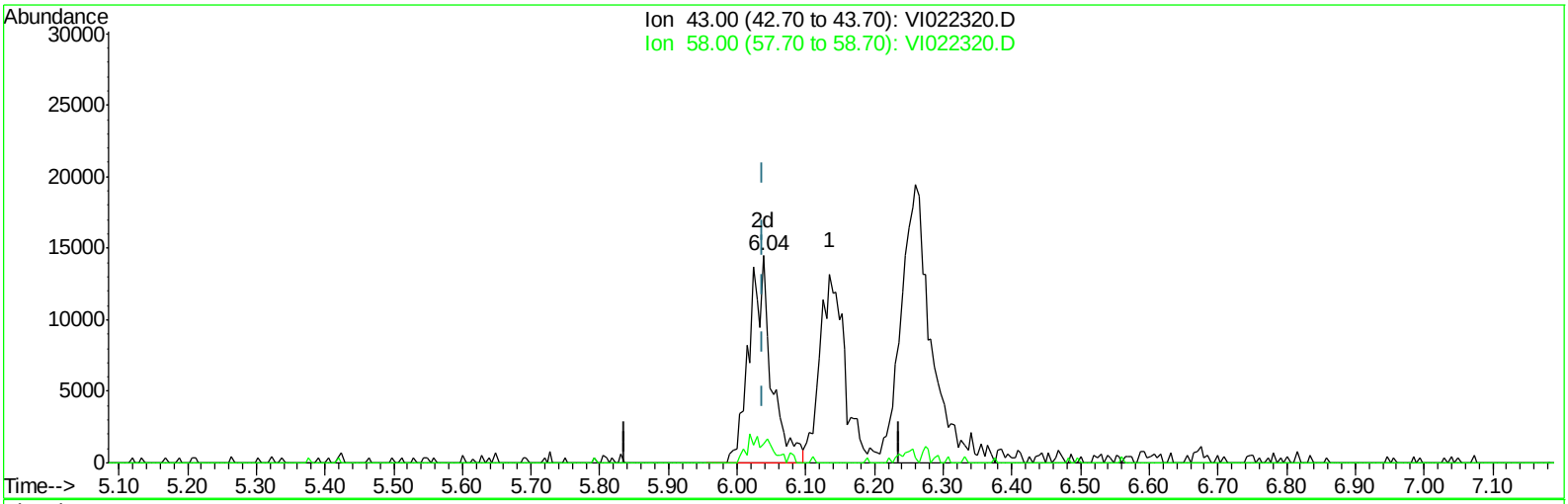
response 31043

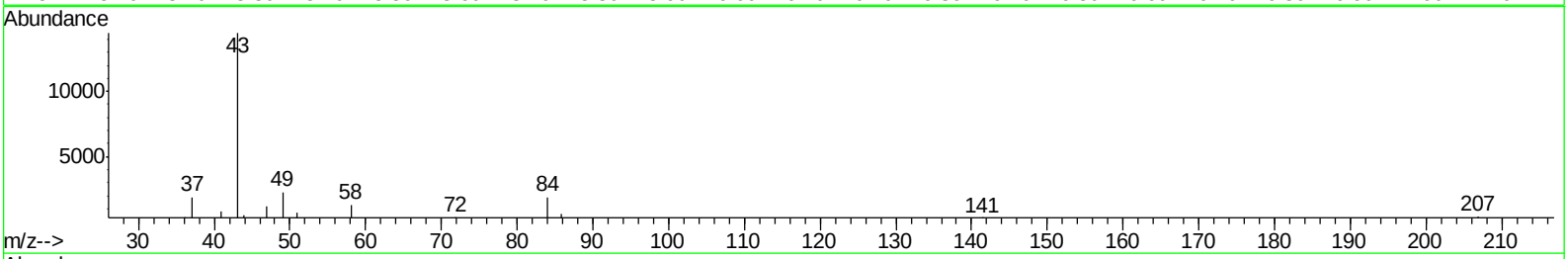
Ion	Exp%	Act%
43.00	100	100
58.00	2.00	0.42
0.00	0.00	0.00
0.00	0.00	0.00

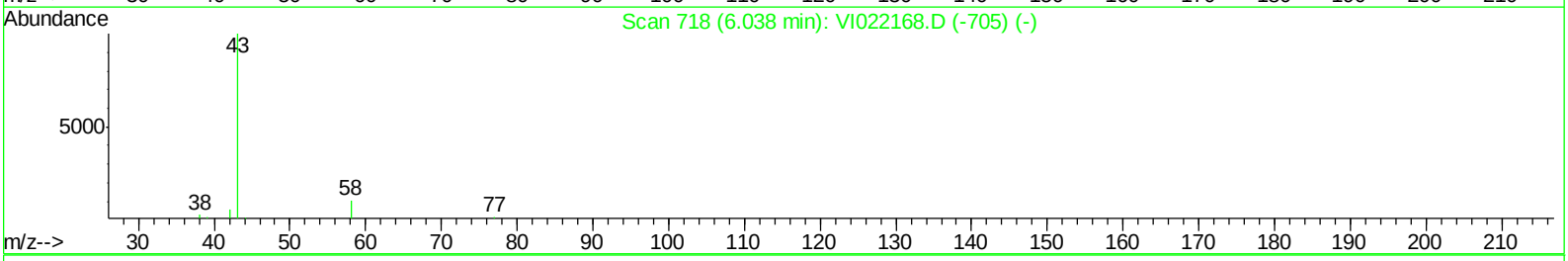
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022320.D
Acq On : 19 Oct 2008 21:16
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 10:36:02 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022320.D

(15) Acetone (T)

6.038min (+0.001) 91.22ug/L m

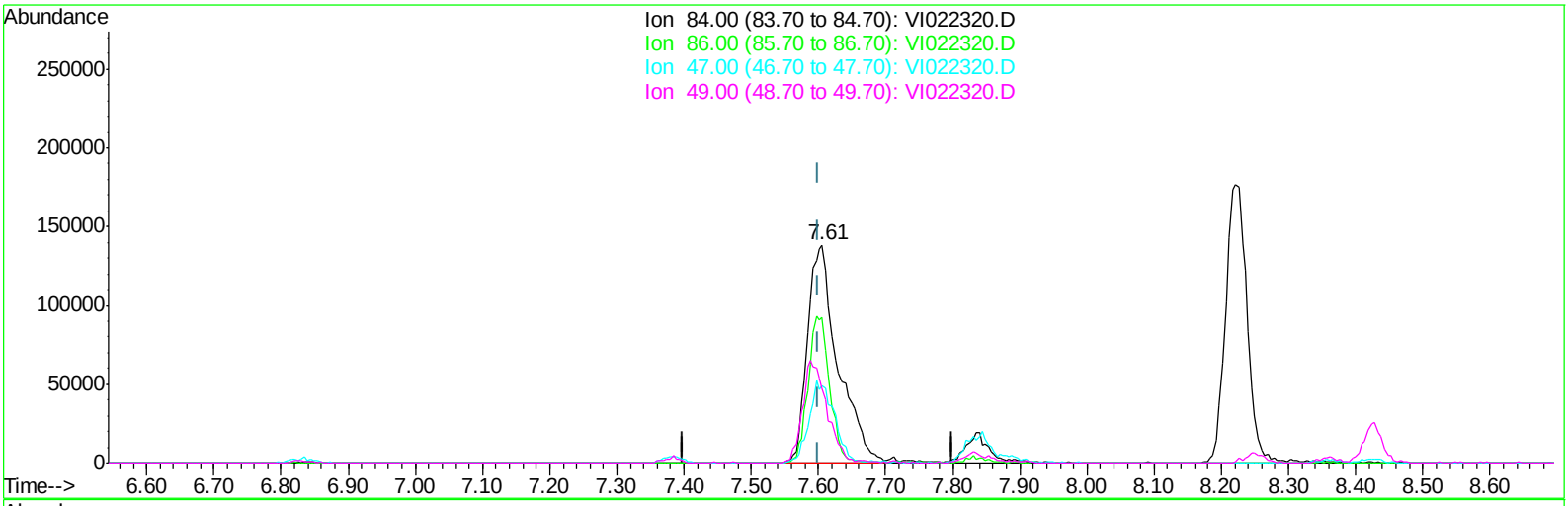
response 32176

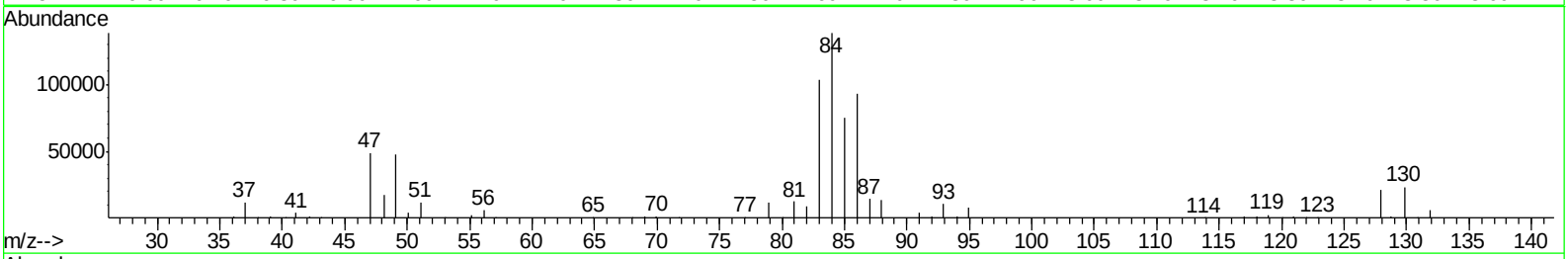
Ion	Exp%	Act%
43.00	100	100
58.00	2.00	0.40
0.00	0.00	0.00
0.00	0.00	0.00

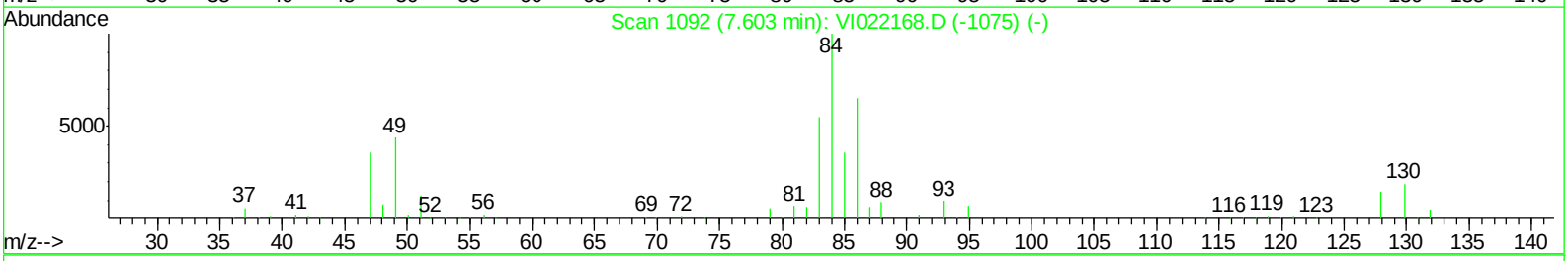
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022320.D
Acq On : 19 Oct 2008 21:16
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 10:36:02 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022320.D

(22) Chloroform-d (S)

7.605min (+0.006) 70.92ug/L

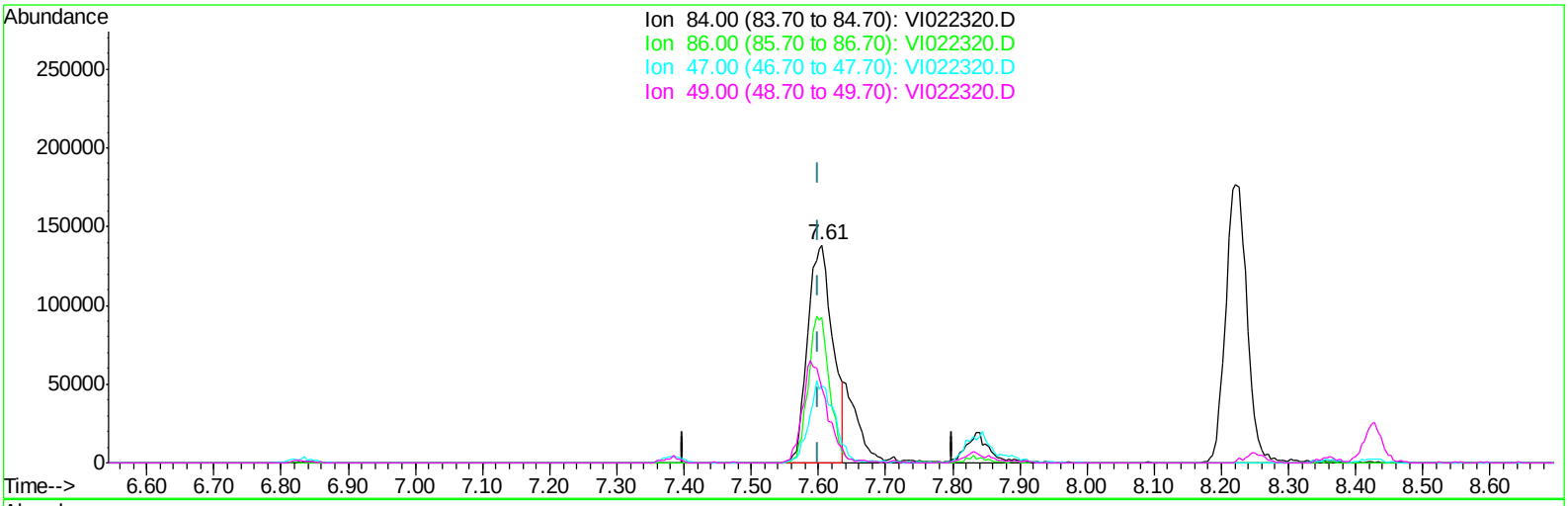
response 434430

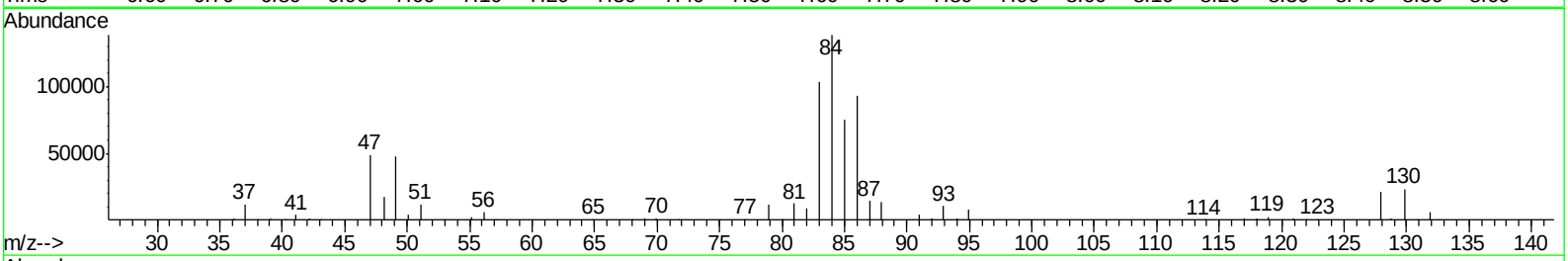
Ion	Exp%	Act%
84.00	100	100
86.00	57.40	49.28
47.00	36.80	31.42
49.00	42.20	39.33

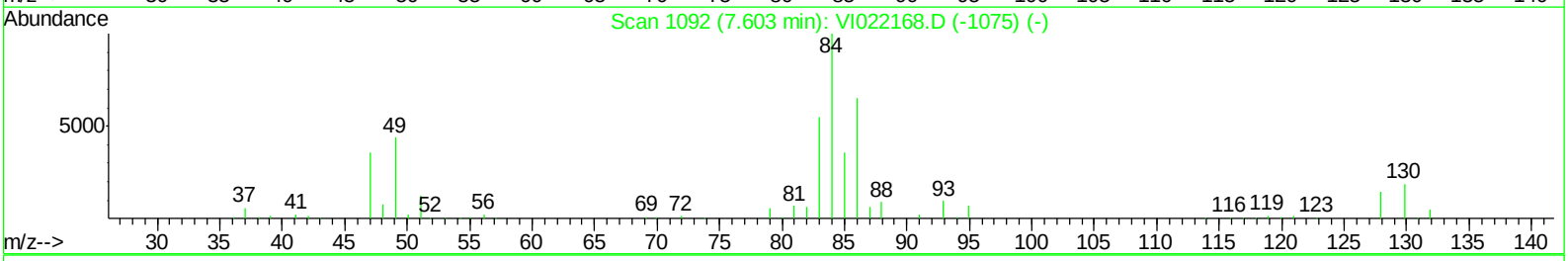
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022320.D
Acq On : 19 Oct 2008 21:16
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 10:36:02 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022320.D

(22) Chloroform-d (S)

7.605min (+0.006) 58.10ug/L m

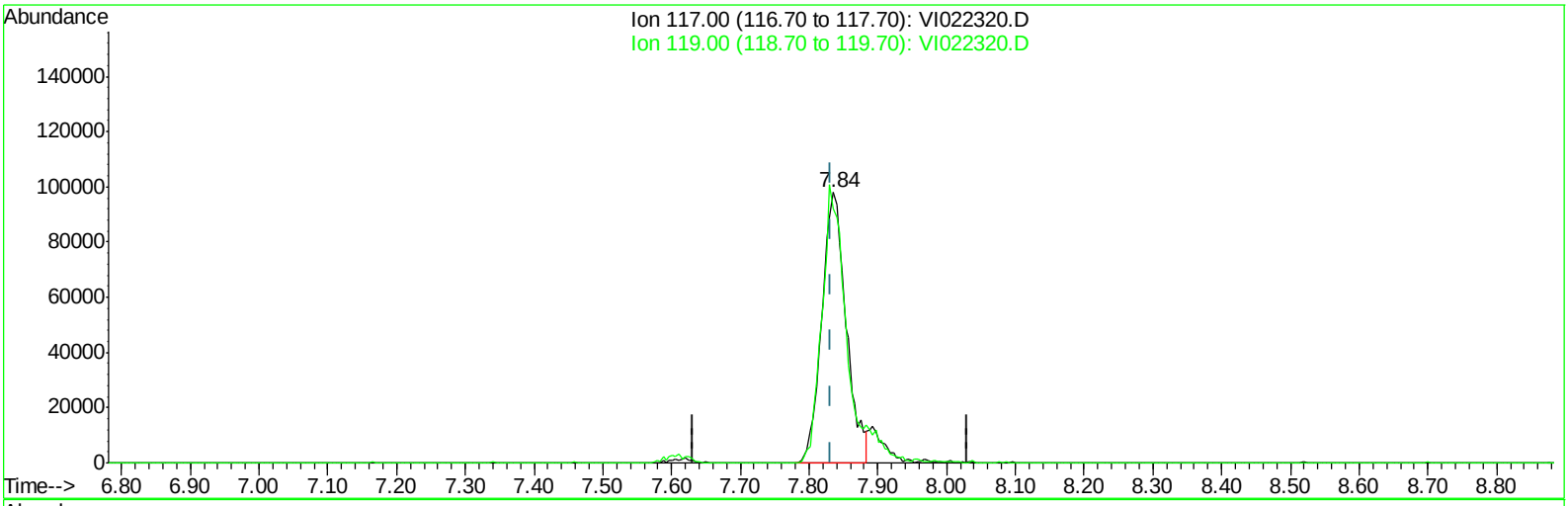
response 355910

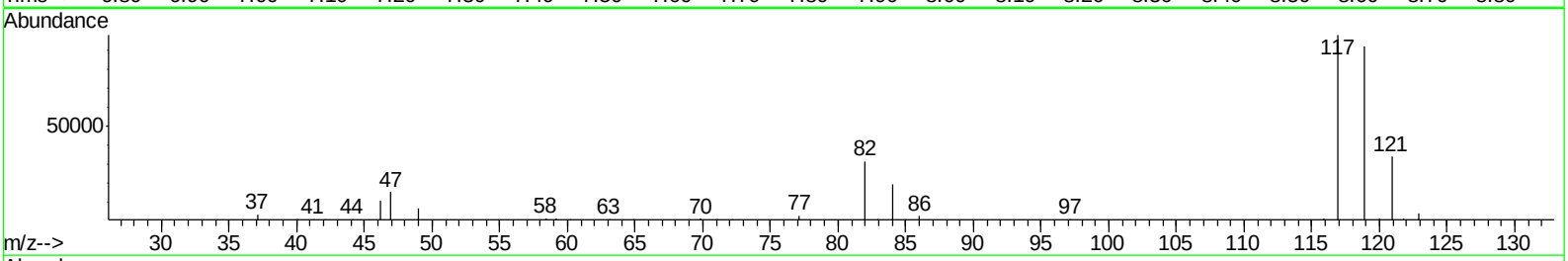
Ion	Exp%	Act%
84.00	100	100
86.00	57.40	60.15
47.00	36.80	38.35
49.00	42.20	48.00

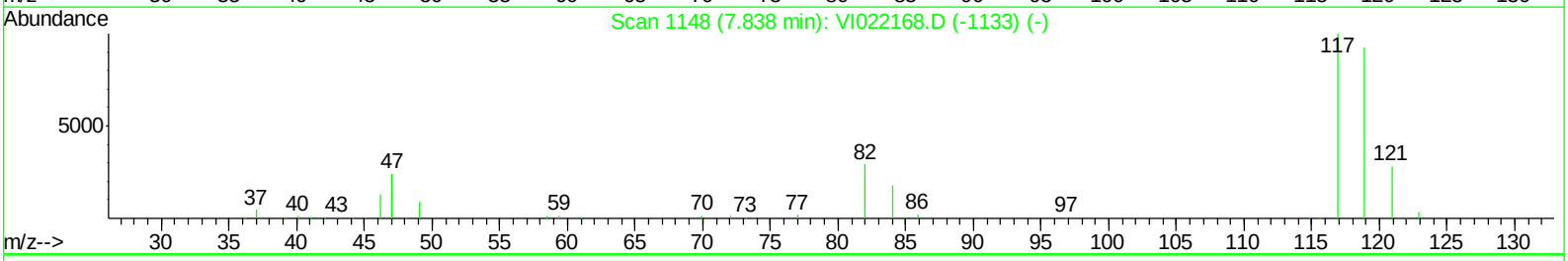
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022320.D
Acq On : 19 Oct 2008 21:16
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 10:36:02 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022320.D

(32) Carbon tetrachloride (T)

7.835min (+0.004) 46.30ug/L

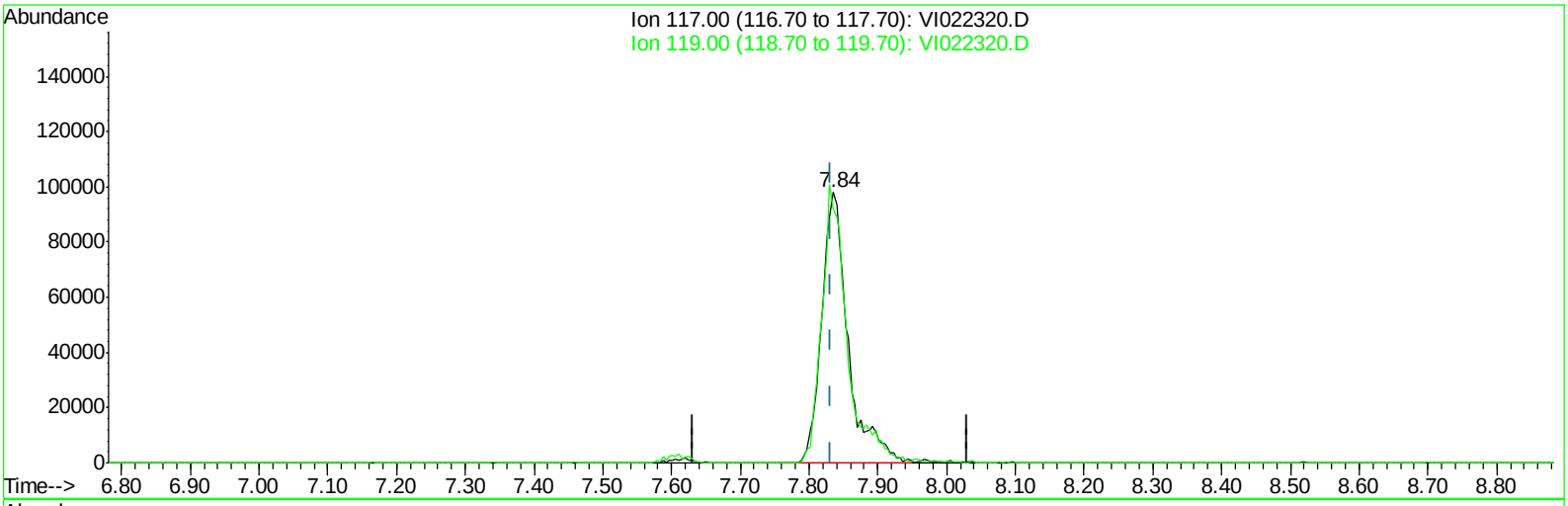
response 234491

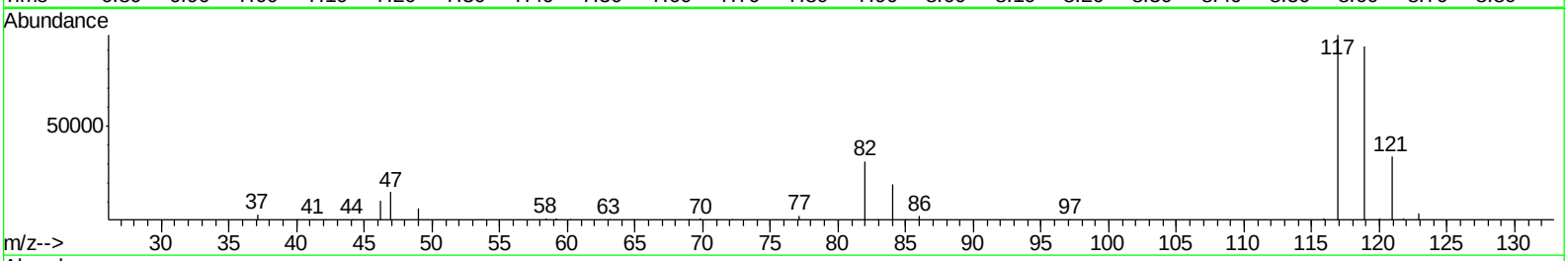
Ion	Exp%	Act%
117.00	100	100
119.00	101.20	105.52
0.00	0.00	0.00
0.00	0.00	0.00

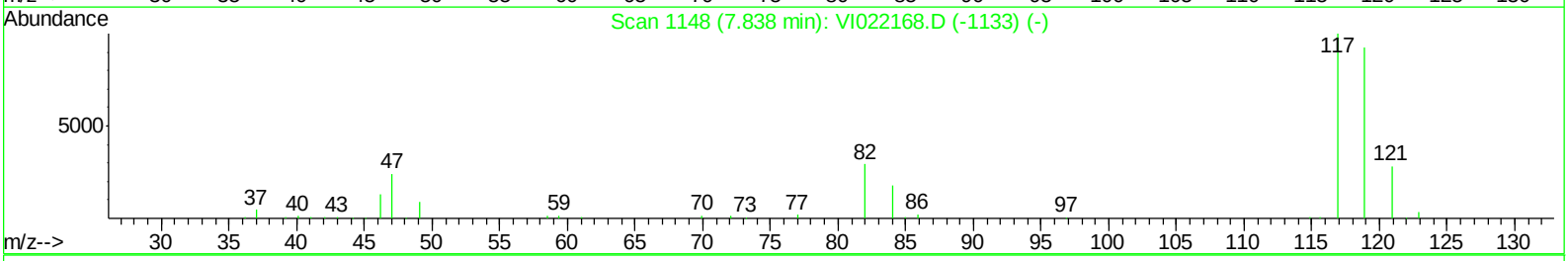
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022320.D
Acq On : 19 Oct 2008 21:16
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 10:36:02 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022320.D

(32) Carbon tetrachloride (T)

7.835min (+0.004) 50.44ug/L m

response 255465

Ion	Exp%	Act%
117.00	100	100
119.00	101.20	96.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022320.D
Acq On : 19 Oct 2008 21:16
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 10:46:26 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	8.79	114	332700	50.00 ug/L	0.00
30) Chlorobenzene-d5	11.68	117	403375	50.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	13.98	152	230431	50.00 ug/L	0.00
System Monitoring Compounds					
4) Vinyl Chloride-d3	3.99	65	102396	50.58 ug/L	0.00
7) Chloroethane-d5	4.58	69	28589	60.54 ug/L	0.00
10) 1,1-Dichloroethene-d2	5.36	63	134619	58.94 ug/L	0.00
22) Chloroform-d	7.61	84	355910m	58.10 ug/L	0.00
24) 2-Butanone-d5	7.86	46	90394	125.66 ug/L	0.00
26) 1,2-Dichloroethane-d4	8.36	65	214482	66.68 ug/L	0.00
28) 1,4-Dioxane-d8	9.51	96	14897	743.06 ug/L	0.01
34) Benzene-d6	8.22	84	383968	44.47 ug/L	0.00
38) 1,2-Dichloropropane-d6	9.24	67	126006	45.59 ug/L	0.00
42) Toluene-d8	10.15	98	367069	43.61 ug/L	0.00
45) trans-1,3-Dichloropropene-	10.54	79	66217	55.43 ug/L	0.00
51) 2-Hexanone-d5	11.26	63	113322	115.65 ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	12.96	84	236707	59.29 ug/L	0.00
65) 1,2-Dichlorobenzene-d4	14.45	152	227794	52.46 ug/L	0.00

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.57	85	167876	54.03 ug/L	94
3) Chloromethane	3.85	50	102121	44.61 ug/L	99
5) Vinyl chloride	4.01	62	121033	51.90 ug/L	98
6) Bromomethane	4.45	94	70892	67.40 ug/L	84
8) Chloroethane	4.60	64	21982m	62.05 ug/L	
9) Trichlorofluoromethane	4.77	101	111936m	59.71 ug/L	
11) 1,1-Dichloroethene	5.38	96	52236	56.83 ug/L	86
12) 1,1,2-Trichlorotrifluoroet	5.41	101	60517	53.65 ug/L	94
13) Carbon disulfide	5.46	76	159080	50.04 ug/L	98
14) Methylene chloride	5.99	84	49654	45.61 ug/L	95
15) Acetone	6.04	43	32176m	91.22 ug/L	
16) Methyl Acetate	6.13	43	30268	47.94 ug/L #	84
17) trans-1,2-Dichloroethene	6.17	96	50080	49.28 ug/L #	77
18) Methyl tert-butyl Ether	6.26	73	201328	57.49 ug/L	95
19) 1,1-Dichloroethane	6.83	63	166093	55.96 ug/L	95
20) cis-1,2-Dichloroethene	7.38	96	112793	57.14 ug/L	99
21) Bromochloromethane	7.59	128	74939	60.23 ug/L	93
23) Chloroform	7.62	83	298054	60.19 ug/L	89
25) 2-Butanone	7.91	43	81030	117.24 ug/L	96
27) 1,2-Dichloroethane	8.43	62	246327	69.08 ug/L #	94
29) 1,4-Dioxane	9.53	88	22097	955.65 ug/L	93
31) Cyclohexane	7.64	56	91193	41.49 ug/L	90
32) Carbon tetrachloride	7.84	117	255465m	50.44 ug/L	
33) 1,1,1-Trichloroethane	7.89	97	237020	49.70 ug/L	95
35) Benzene	8.24	78	360364	45.86 ug/L	100
36) Trichloroethene	8.80	95	154571	41.62 ug/L	92
37) Methylcyclohexane	8.82	83	154475	40.88 ug/L	97
39) 1,2-Dichloropropane	9.31	63	104291	49.59 ug/L	98
40) Bromodichloromethane	9.34	83	259851	55.45 ug/L	93

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022320.D
Acq On : 19 Oct 2008 21:16
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 10:46:26 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
41) cis-1,3-Dichloropropene	9.94	75	256301	51.19 ug/L	88
43) Toluene	10.20	91	431871	45.95 ug/L	97
44) 4-Methyl-2-pentanone	10.50	43	268386	104.76 ug/L	94
46) trans-1,3-Dichloropropene	10.55	75	287613	56.97 ug/L	85
47) Tetrachloroethene	10.60	164	100238	46.27 ug/L	95
48) 1,1,2-Trichloroethane	10.73	97	133177	57.52 ug/L	82
49) Dibromochloromethane	10.94	129	230093	57.96 ug/L	90
50) 1,2-Dibromoethane	11.21	107	172850	52.40 ug/L #	93
52) 2-Hexanone	11.30	43	223748	109.69 ug/L	97
53) Ethylbenzene	11.67	91	714623	51.77 ug/L	100
54) Chlorobenzene	11.70	112	401889	57.10 ug/L	100
55) m&p-xylenes	11.80	106	237895	56.51 ug/L	90
56) o-xylene	12.23	106	243652	51.38 ug/L	89
57) Styrene	12.28	104	466968	61.05 ug/L	93
58) Isopropylbenzene	12.53	105	705007	53.76 ug/L	99
60) 1,1,2,2-Tetrachloroethane	12.99	83	214645	56.88 ug/L	98
62) Bromoform	12.36	173	161120	68.42 ug/L #	95
63) 1,3-Dichlorobenzene	13.91	146	358671	51.72 ug/L	88
64) 1,4-Dichlorobenzene	14.00	146	355760	53.55 ug/L	95
66) 1,2-Dichlorobenzene	14.46	146	356604	57.20 ug/L	89
67) 1,2-Dibromo-3-chloropropan	15.33	75	61349	66.78 ug/L #	81
68) 1,2,4-trichlorobenzene	16.20	180	179360	45.35 ug/L	95
69) 1,2,3-Trichlorobenzene	16.96	180	165975	51.81 ug/L	98

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

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAI Calibration Date: 10/20/2008 Time: 10:42

Lab File ID: VI022326.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (VSTD#####): VSTD020 Init. Calib. Time(s): 12:10 13:49

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 10 (mL)

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.467	0.466	0.010	-0.2	40.0
Chloromethane	0.344	0.462	0.010	34.3	40.0
Vinyl Chloride	0.350	0.352	0.100	0.6	25.0
Bromomethane	0.158	0.119	0.100	-24.7	25.0
Chloroethane	0.053	0.047	0.010	-11.3	40.0
Trichlorofluoromethane	0.282	0.257	0.010	-8.9	40.0
1,1-Dichloroethene	0.138	0.131	0.100	-5.1	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.170	0.161	0.010	-5.3	40.0
Acetone	0.053	0.049	0.010	-7.5	40.0
Carbon disulfide	0.478	0.414	0.010	-13.4	40.0
Methyl acetate	0.095	0.092	0.010	-3.2	40.0
Methylene chloride	0.164	0.129	0.010	-21.3	40.0
trans-1,2-Dichloroethene	0.153	0.157	0.010	2.6	40.0
Methyl tert-Butyl ether	0.526	0.517	0.010	-1.7	40.0
1,1-Dichloroethane	0.446	0.530	0.200	18.8	25.0
cis-1,2-Dichloroethene	0.297	0.338	0.010	13.8	40.0
2-Butanone	0.104	0.117	0.010	12.5	40.0
Bromochloromethane	0.187	0.208	0.050	11.2	25.0
Chloroform	0.744	0.760	0.200	2.2	25.0
1,1,1-Trichloroethane	0.591	0.687	0.100	16.2	25.0
Cyclohexane	0.272	0.346	0.010	27.2	40.0
Carbon Tetrachloride	0.628	0.755	0.100	20.2	25.0
Benzene	0.974	1.141	0.400	17.1	25.0
1,2-Dichloroethane	0.536	0.603	0.100	12.5	25.0
1,4-Dioxane	0.003	0.004	0.005	33.3	50.0
Trichloroethene	0.460	0.414	0.300	-10.0	25.0
Methylcyclohexane	0.468	0.514	0.010	9.8	40.0

Report 1,4 -Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAI Calibration Date: 10/20/2008 Time: 10:42

Lab File ID: VI022326.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (VSTD#####): VSTD020 Init. Calib. Time(s): 12:10 13:49

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 10 (mL)

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX%D
1,2-Dichloropropane	0.261	0.312	0.010	19.5	40.0
Bromodichloromethane	0.581	0.675	0.200	16.2	25.0
cis-1,3-Dichloropropene	0.621	0.701	0.200	12.9	25.0
4-Methyl-2-pentanone	0.318	0.365	0.010	14.8	40.0
Toluene	1.165	1.256	0.400	7.8	25.0
trans-1,3-Dichloropropene	0.626	0.697	0.100	11.3	25.0
1,1,2-Trichloroethane	0.287	0.305	0.100	6.3	25.0
Tetrachloroethene	0.269	0.305	0.100	13.4	25.0
2-Hexanone	0.253	0.298	0.010	17.8	40.0
Dibromochloromethane	0.492	0.531	0.100	7.9	25.0
1,2-Dibromoethane	0.409	0.432	0.010	5.6	40.0
Chlorobenzene	0.872	0.951	0.500	9.1	25.0
Ethylbenzene	1.711	1.825	0.100	6.7	25.0
o-Xylene	0.588	0.612	0.300	4.1	25.0
m,p-Xylene	0.522	0.582	0.300	11.5	25.0
Styrene	0.948	1.021	0.300	7.7	25.0
Bromoform	0.511	0.580	0.050	13.5	25.0
Isopropylbenzene	1.626	1.736	0.010	6.8	40.0
1,1,2,2-Tetrachloroethane	0.468	0.517	0.300	10.5	25.0
1,3-Dichlorobenzene	1.505	1.640	0.600	9.0	25.0
1,4-Dichlorobenzene	1.442	1.576	0.500	9.3	25.0
1,2-Dichlorobenzene	1.353	1.433	0.400	5.9	25.0
1,2-Dibromo-3-chloropropane	0.199	0.210	0.010	5.5	40.0
1,2,4-Trichlorobenzene	0.858	0.857	0.200	-0.1	25.0
1,2,3-Trichlorobenzene	0.695	0.757	0.200	8.9	25.0

Report 1,4 -Dioxane for Low-Medium VOA analysis only

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAI Calibration Date: 10/20/2008 Time: 10:42

Lab File ID: VI022326.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (VSTD#####): VSTD020 Init. Calib. Time(s): 12:10 13:49

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 10 (mL)

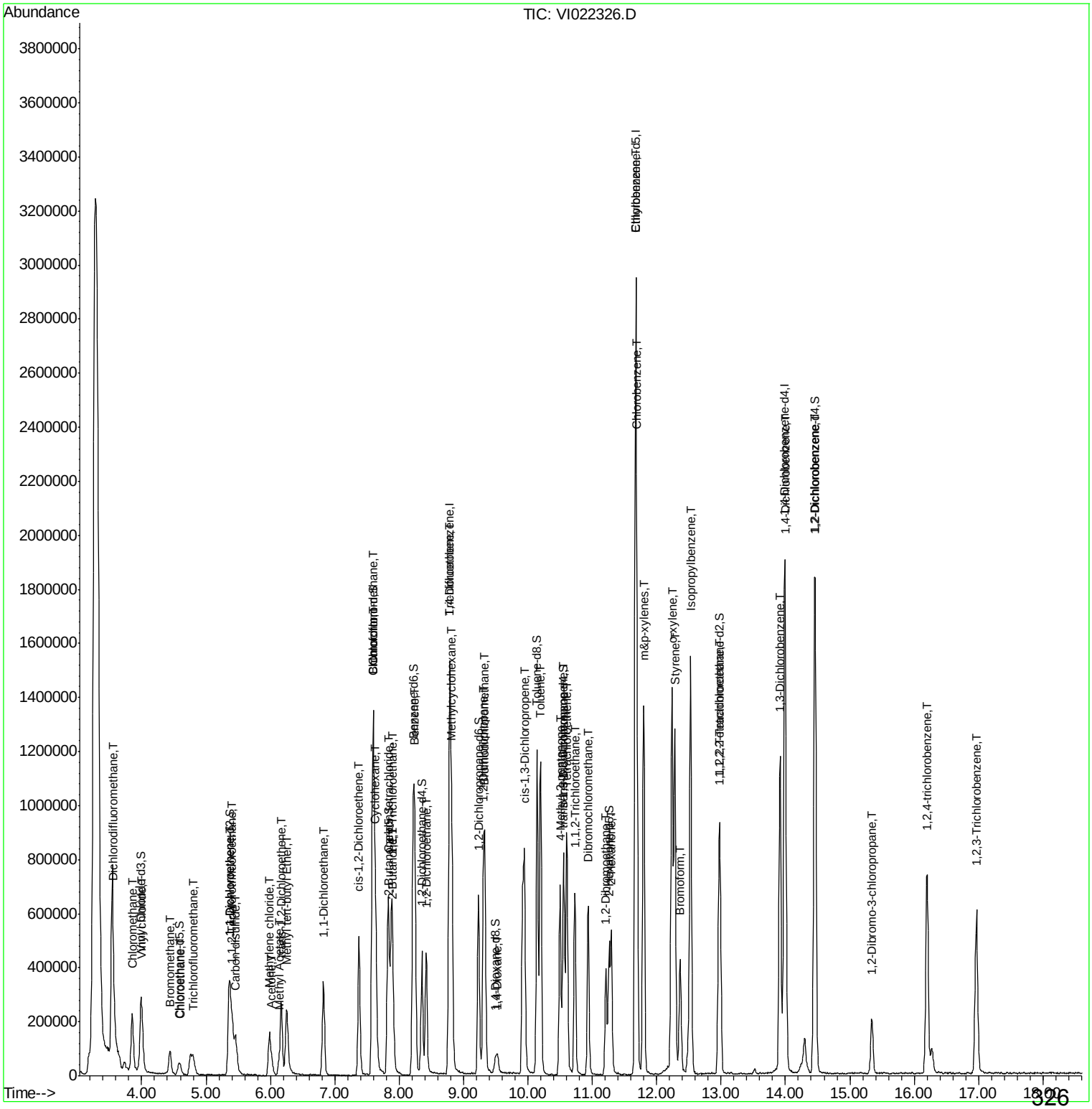
COMPOUND	RRF	RRF25	MIN RRF	%D	MAX%D
Vinyl Chloride-d3	0.304	0.322	0.010	5.9	25.0
Chloroethane-d5	0.071	0.065	0.010	-8.5	40.0
1,1-Dichloroethene-d2	0.343	0.337	0.010	-1.7	25.0
2-Butanone-d5	0.108	0.120	0.010	11.1	40.0
Chloroform-d	0.921	0.972	0.010	5.5	25.0
1,2-Dichloroethane-d4	0.483	0.543	0.010	12.4	25.0
Benzene-d6	1.070	1.218	0.010	13.8	25.0
1,2-Dichloropropane-d6	0.343	0.448	0.010	30.6	40.0
Toluene-d8	1.043	1.194	0.010	14.5	25.0
trans-1,3-Dichloropropene-d4	0.148	0.173	0.010	16.9	25.0
2-Hexanone-d5	0.121	0.146	0.010	20.7	40.0
1,4-Dioxane-d8	0.003	0.003	0.005	0.0	50.0
1,1,2,2-Tetrachloroethane-d2	0.495	0.566	0.010	14.3	25.0
1,2-Dichlorobenzene-d4	0.942	0.965	0.010	2.4	25.0

Report 1,4 -Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022326.D
Acq On : 20 Oct 2008 10:42
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 2 Sample Multiplier: 1

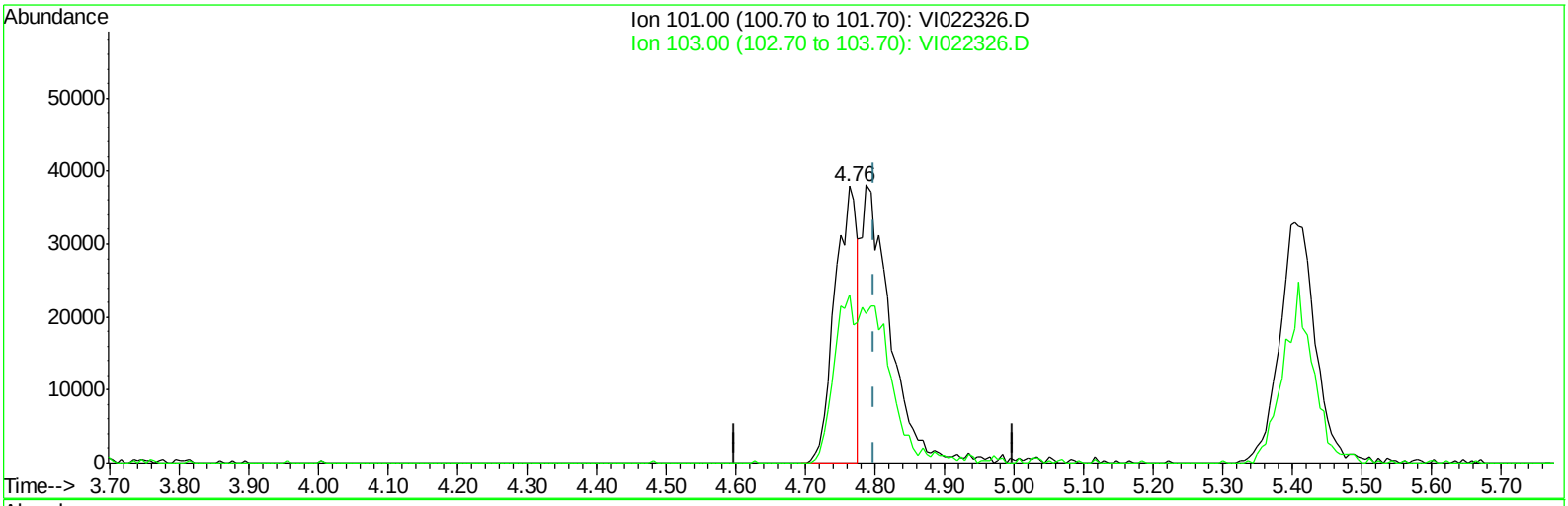
Quant Time: Oct 20 11:06:20 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

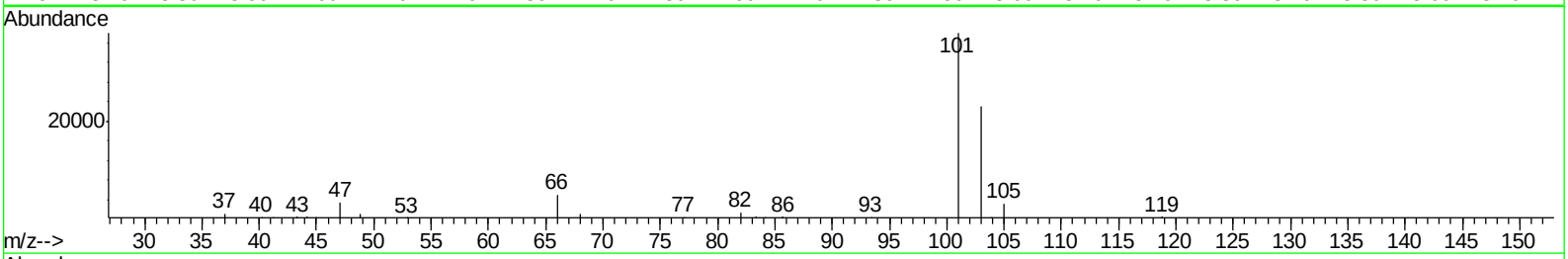


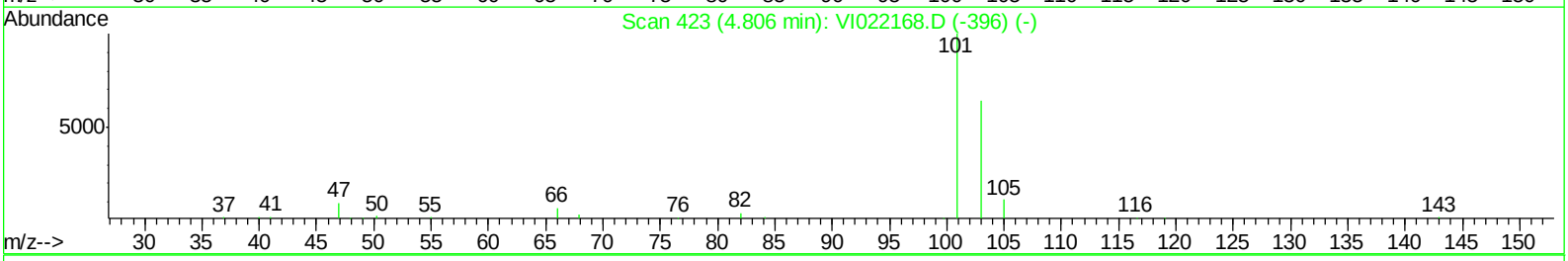
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022326.D
Acq On : 20 Oct 2008 10:42
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:04:52 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022326.D

(9) Trichlorofluoromethane (T)

4.762min (-0.037) 20.58ug/L

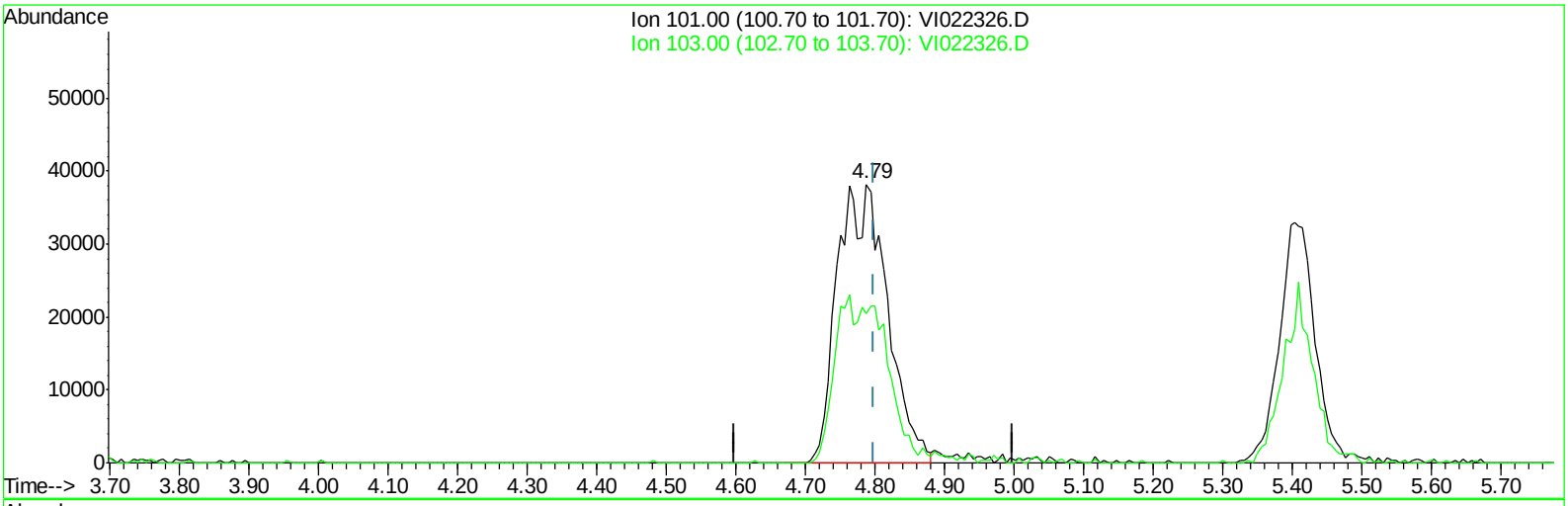
response 86377

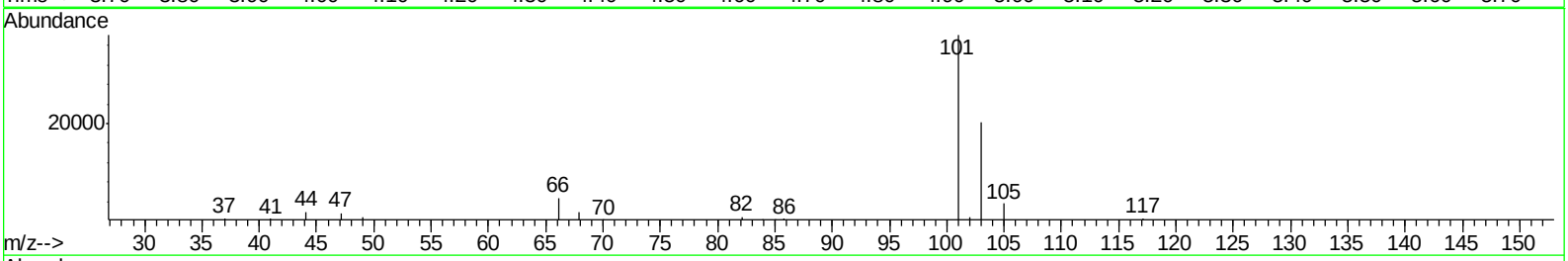
Ion	Exp%	Act%
101.00	100	100
103.00	40.20	62.21#
0.00	0.00	0.00
0.00	0.00	0.00

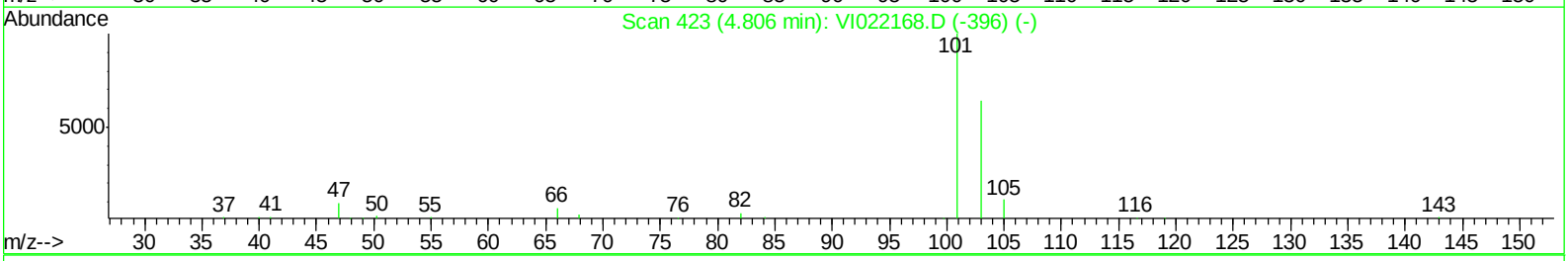
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022326.D
Acq On : 20 Oct 2008 10:42
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:04:52 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022326.D

(9) Trichlorofluoromethane (T)

4.787min (-0.012) 45.64ug/L m

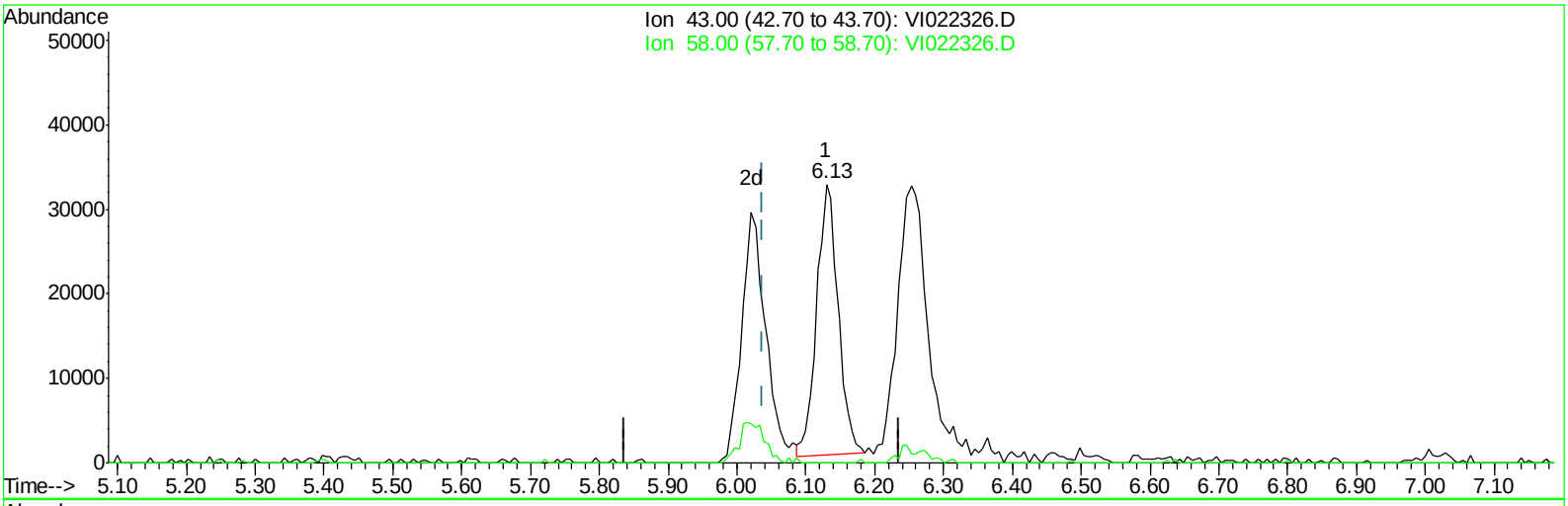
response 191622

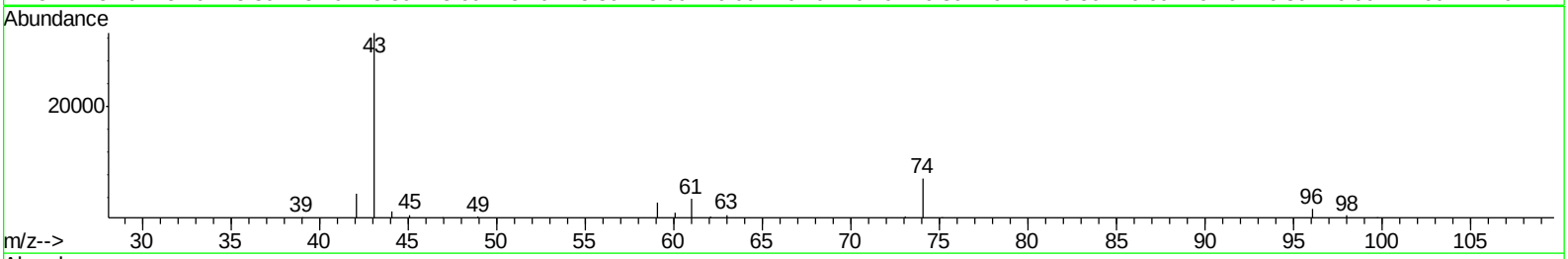
Ion	Exp%	Act%
101.00	100	100
103.00	40.20	28.04#
0.00	0.00	0.00
0.00	0.00	0.00

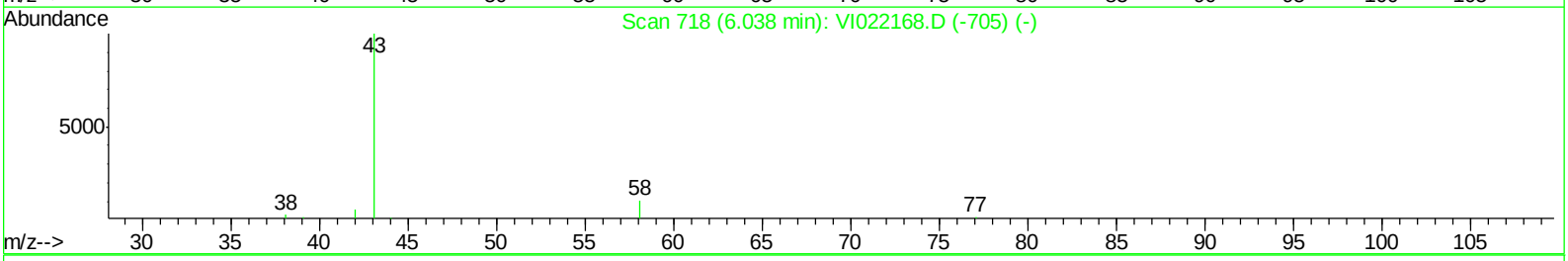
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022326.D
Acq On : 20 Oct 2008 10:42
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:04:52 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022326.D

(15) Acetone (T)

6.130min (+0.093) 88.47ug/L

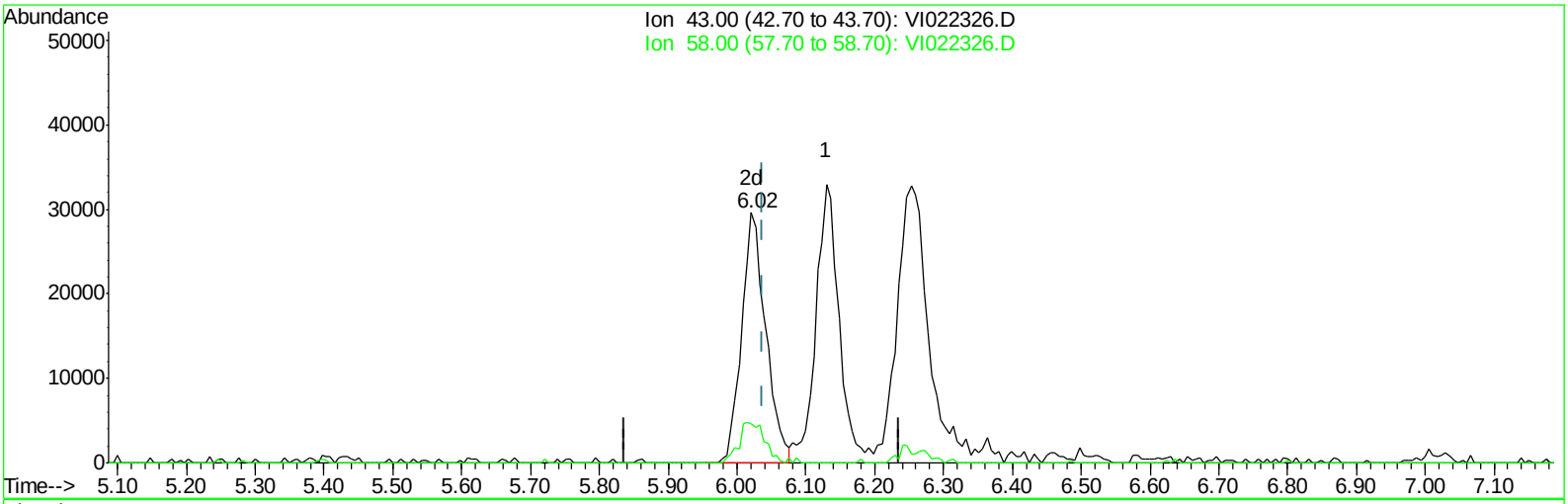
response 69887

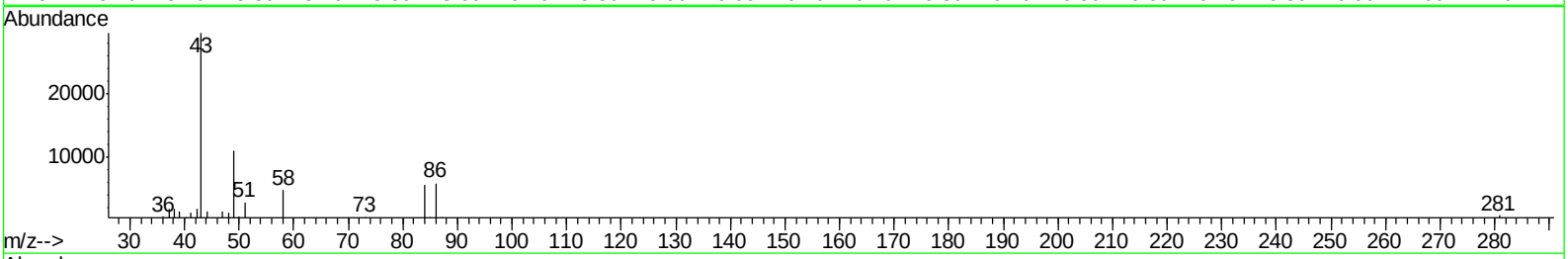
Ion	Exp%	Act%
43.00	100	100
58.00	2.00	0.65
0.00	0.00	0.00
0.00	0.00	0.00

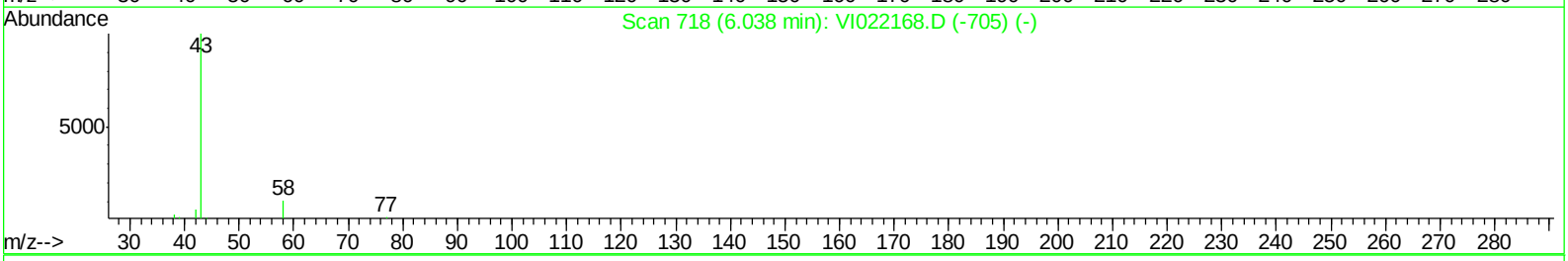
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022326.D
Acq On : 20 Oct 2008 10:42
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:04:52 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022326.D

(15) Acetone (T)

6.021min (-0.016) 91.56ug/L m

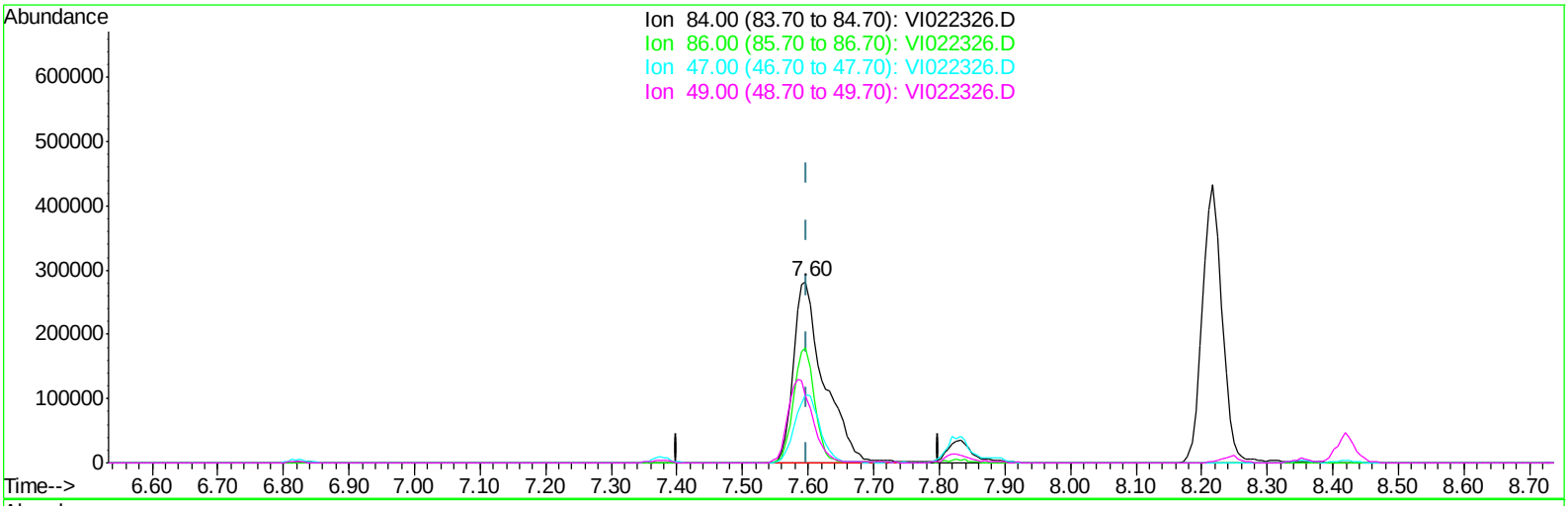
response 72331

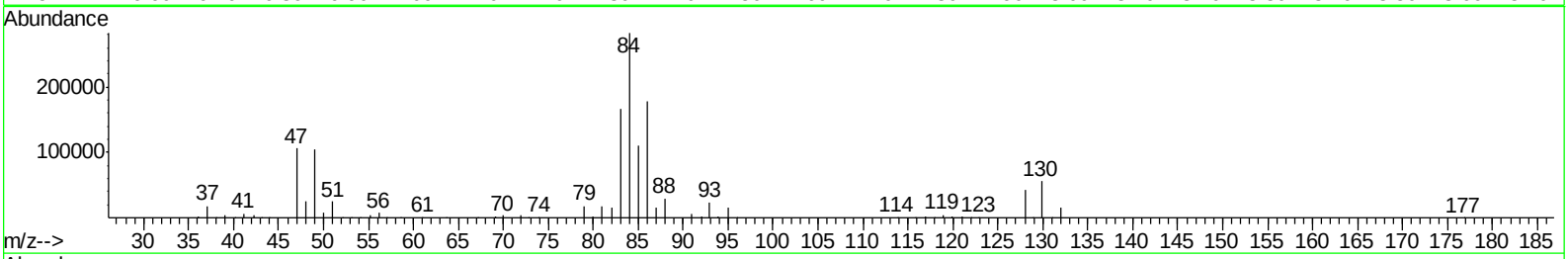
Ion	Exp%	Act%
43.00	100	100
58.00	2.00	0.63
0.00	0.00	0.00
0.00	0.00	0.00

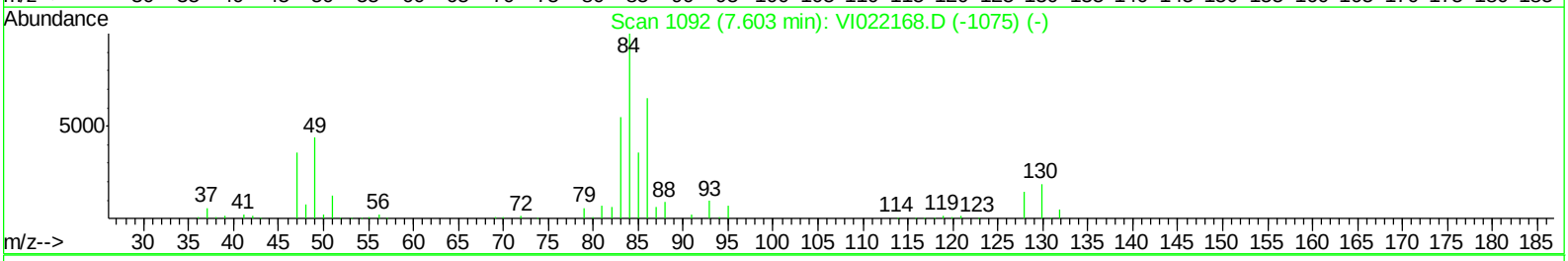
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022326.D
Acq On : 20 Oct 2008 10:42
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:04:52 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022326.D

(22) Chloroform-d (S)

7.597min (-0.003) 66.73ug/L

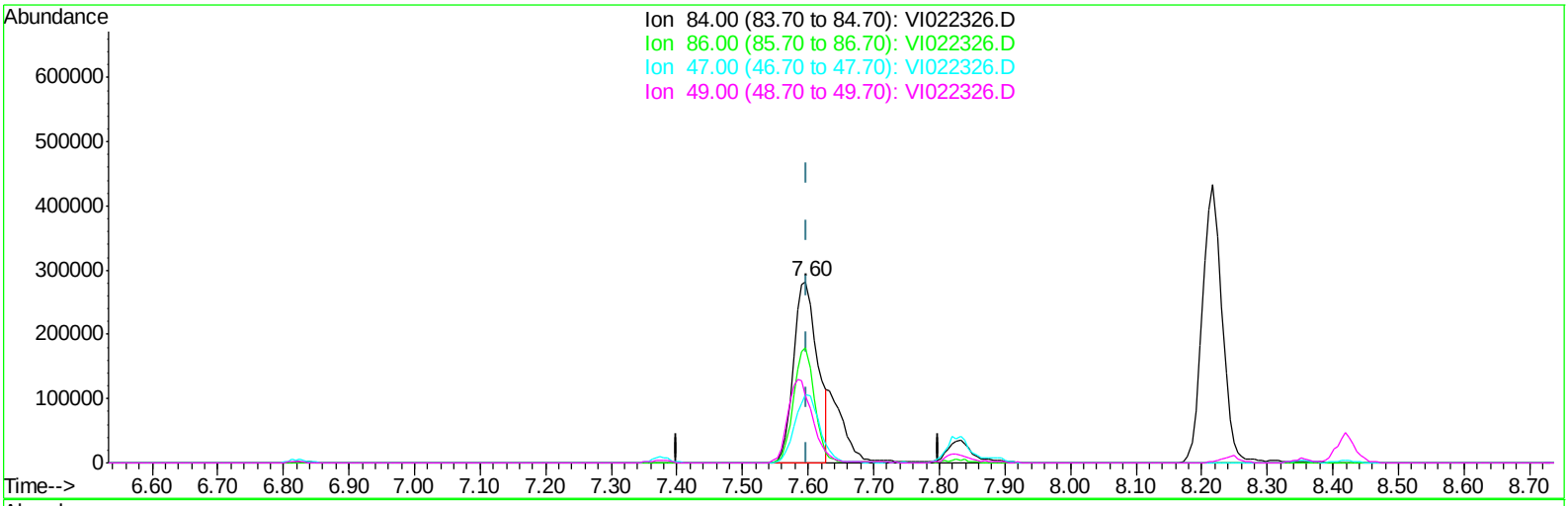
response 915419

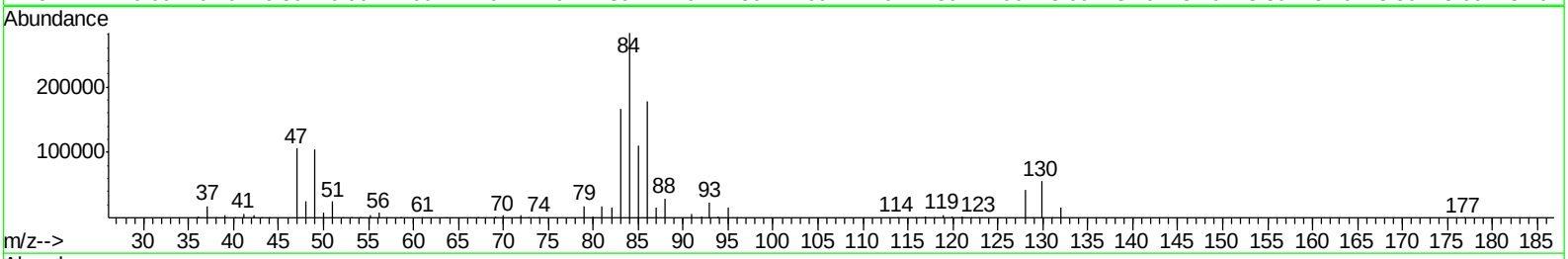
Ion	Exp%	Act%
84.00	100	100
86.00	57.40	44.65
47.00	36.80	31.82
49.00	42.20	38.66

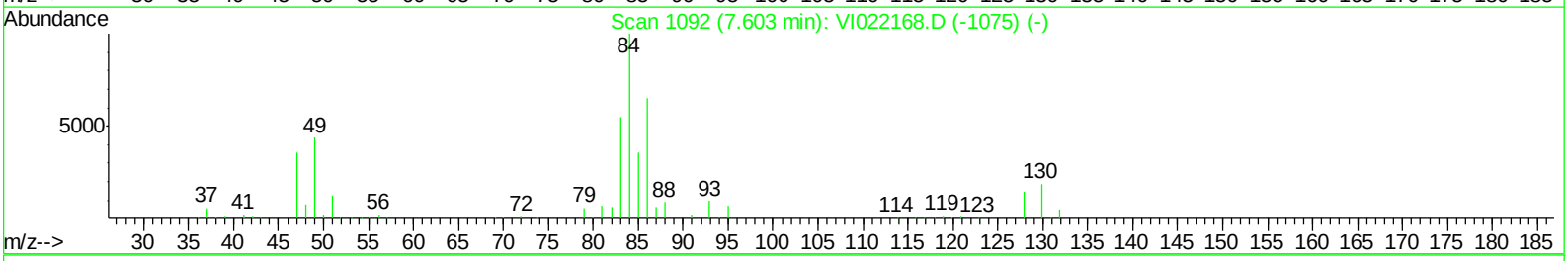
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022326.D
Acq On : 20 Oct 2008 10:42
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:04:52 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022326.D

(22) Chloroform-d (S)

7.597min (-0.003) 52.80ug/L m

response 724334

Ion	Exp%	Act%
84.00	100	100
86.00	57.40	56.43
47.00	36.80	40.22
49.00	42.20	48.86

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022326.D
Acq On : 20 Oct 2008 10:42
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:06:20 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	8.78	114	745109	50.00 ug/L	0.00
30) Chlorobenzene-d5	11.68	117	729003	50.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	13.98	152	407567	50.00 ug/L	0.00
System Monitoring Compounds					
4) Vinyl Chloride-d3	3.99	65	239726	52.88 ug/L	0.00
7) Chloroethane-d5	4.58	69	48256	45.63 ug/L	0.00
10) 1,1-Dichloroethene-d2	5.36	63	251123	49.09 ug/L	0.00
22) Chloroform-d	7.60	84	724334m	52.80 ug/L	0.00
24) 2-Butanone-d5	7.85	46	178918	111.06 ug/L	0.00
26) 1,2-Dichloroethane-d4	8.35	65	404559	56.16 ug/L	0.00
28) 1,4-Dioxane-d8	9.50	96	48100	1071.28 ug/L	0.00
34) Benzene-d6	8.22	84	887615	56.88 ug/L	0.00
38) 1,2-Dichloropropane-d6	9.23	67	326896	65.45 ug/L	0.00
42) Toluene-d8	10.14	98	870473	57.22 ug/L	0.00
45) trans-1,3-Dichloropropene-	10.54	79	126205	58.46 ug/L	0.00
51) 2-Hexanone-d5	11.26	63	213278	120.44 ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	12.97	84	412344	57.15 ug/L	0.00
65) 1,2-Dichlorobenzene-d4	14.45	152	393325	51.21 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.56	85	346949	49.86 ug/L	90
3) Chloromethane	3.86	50	343947	67.08 ug/L	98
5) Vinyl chloride	4.00	62	262040	50.18 ug/L	91
6) Bromomethane	4.44	94	88775	37.69 ug/L	94
8) Chloroethane	4.60	64	35325	44.53 ug/L #	62
9) Trichlorofluoromethane	4.79	101	191622m	45.64 ug/L	
11) 1,1-Dichloroethene	5.37	96	97839	47.53 ug/L	82
12) 1,1,2-Trichlorotrifluoroet	5.40	101	120133	47.55 ug/L #	76
13) Carbon disulfide	5.46	76	308490	43.33 ug/L #	93
14) Methylene chloride	5.98	84	96292	39.50 ug/L	79
15) Acetone	6.02	43	72331m	91.56 ug/L	
16) Methyl Acetate	6.13	43	68251	48.27 ug/L	94
17) trans-1,2-Dichloroethene	6.17	96	116932	51.38 ug/L	99
18) Methyl tert-butyl Ether	6.25	73	385152	49.11 ug/L	96
19) 1,1-Dichloroethane	6.82	63	394721	59.38 ug/L	93
20) cis-1,2-Dichloroethene	7.37	96	251968	56.99 ug/L	97
21) Bromochloromethane	7.58	128	154661	55.50 ug/L	93
23) Chloroform	7.61	83	566554	51.08 ug/L	98
25) 2-Butanone	7.91	43	174277	112.59 ug/L	92
27) 1,2-Dichloroethane	8.42	62	449645	56.31 ug/L	100
29) 1,4-Dioxane	9.53	88	58523	1130.13 ug/L	92
31) Cyclohexane	7.63	56	252235	63.51 ug/L	68
32) Carbon tetrachloride	7.83	117	550381	60.13 ug/L	93
33) 1,1,1-Trichloroethane	7.88	97	500637	58.08 ug/L	98
35) Benzene	8.24	78	831453	58.55 ug/L	100
36) Trichloroethene	8.79	95	302067	45.01 ug/L	94
37) Methylcyclohexane	8.82	83	374599	54.86 ug/L	96
39) 1,2-Dichloropropane	9.31	63	227152	59.76 ug/L	100
40) Bromodichloromethane	9.33	83	491929	58.09 ug/L	95

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022326.D
Acq On : 20 Oct 2008 10:42
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:06:20 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
41) cis-1,3-Dichloropropene	9.94	75	511032	56.47 ug/L	96
43) Toluene	10.20	91	915921	53.93 ug/L	89
44) 4-Methyl-2-pentanone	10.50	43	531821	114.87 ug/L	96
46) trans-1,3-Dichloropropene	10.55	75	508132	55.69 ug/L	94
47) Tetrachloroethene	10.60	164	222254	56.77 ug/L	88
48) 1,1,2-Trichloroethane	10.73	97	222263	53.12 ug/L	89
49) Dibromochloromethane	10.94	129	386959	53.94 ug/L	90
50) 1,2-Dibromoethane	11.21	107	314797	52.81 ug/L	100
52) 2-Hexanone	11.30	43	434909	117.97 ug/L	96
53) Ethylbenzene	11.67	91	1330283	53.33 ug/L	98
54) Chlorobenzene	11.70	112	692958	54.48 ug/L	97
55) m&p-xylenes	11.80	106	424493	55.80 ug/L	97
56) o-xylene	12.23	106	446414	52.09 ug/L	89
57) Styrene	12.28	104	743962	53.82 ug/L	100
58) Isopropylbenzene	12.53	105	1265685	53.40 ug/L	97
60) 1,1,2,2-Tetrachloroethane	12.99	83	376646	55.23 ug/L	95
62) Bromoform	12.37	173	236302	56.74 ug/L #	98
63) 1,3-Dichlorobenzene	13.92	146	668610	54.50 ug/L	96
64) 1,4-Dichlorobenzene	14.00	146	642354	54.66 ug/L	96
66) 1,2-Dichlorobenzene	14.47	146	583880	52.95 ug/L	98
67) 1,2-Dibromo-3-chloropropan	15.33	75	85426	52.57 ug/L	91
68) 1,2,4-trichlorobenzene	16.20	180	349207	49.91 ug/L	99
69) 1,2,3-Trichlorobenzene	16.97	180	308326	54.42 ug/L	95

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

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAI Calibration Date: 10/20/2008 Time: 16:21

Lab File ID: VI022337.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (VSTD#####): VSTD020 Init. Calib. Time(s): 12:10 13:49

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 10 (mL)

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.467	0.476	0.010	1.9	50.0
Chloromethane	0.344	0.361	0.010	4.9	50.0
Vinyl Chloride	0.350	0.339	0.010	-3.1	50.0
Bromomethane	0.158	0.140	0.010	-11.4	50.0
Chloroethane	0.053	0.053	0.010	0.0	50.0
Trichlorofluoromethane	0.282	0.307	0.010	8.9	50.0
1,1-Dichloroethene	0.138	0.124	0.010	-10.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.170	0.169	0.010	-0.6	50.0
Acetone	0.053	0.054	0.010	1.9	50.0
Carbon disulfide	0.478	0.432	0.010	-9.6	50.0
Methyl acetate	0.095	0.098	0.010	3.2	50.0
Methylene chloride	0.164	0.128	0.010	-22.0	50.0
trans-1,2-Dichloroethene	0.153	0.146	0.010	-4.6	50.0
Methyl tert-Butyl ether	0.526	0.572	0.010	8.7	50.0
1,1-Dichloroethane	0.446	0.510	0.010	14.3	50.0
cis-1,2-Dichloroethene	0.297	0.321	0.010	8.1	50.0
2-Butanone	0.104	0.128	0.010	23.1	50.0
Bromochloromethane	0.187	0.198	0.010	5.9	50.0
Chloroform	0.744	0.800	0.010	7.5	50.0
1,1,1-Trichloroethane	0.591	0.637	0.010	7.8	50.0
Cyclohexane	0.272	0.278	0.010	2.2	50.0
Carbon Tetrachloride	0.628	0.688	0.010	9.6	50.0
Benzene	0.974	0.980	0.010	0.6	50.0
1,2-Dichloroethane	0.536	0.682	0.010	27.2	50.0
1,4-Dioxane	0.003	0.004	0.005	33.3	50.0
Trichloroethene	0.460	0.380	0.010	-17.4	50.0
Methylcyclohexane	0.468	0.443	0.010	-5.3	50.0

Report 1,4 -Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAI Calibration Date: 10/20/2008 Time: 16:21

Lab File ID: VI022337.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (VSTD#####): VSTD020 Init. Calib. Time(s): 12:10 13:49

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 10 (mL)

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX%D
1,2-Dichloropropane	0.261	0.281	0.010	7.7	50.0
Bromodichloromethane	0.581	0.660	0.010	13.6	50.0
cis-1,3-Dichloropropene	0.621	0.655	0.010	5.5	50.0
4-Methyl-2-pentanone	0.318	0.364	0.010	14.5	50.0
Toluene	1.165	1.122	0.010	-3.7	50.0
trans-1,3-Dichloropropene	0.626	0.717	0.010	14.5	50.0
1,1,2-Trichloroethane	0.287	0.315	0.010	9.8	50.0
Tetrachloroethene	0.269	0.276	0.010	2.6	50.0
2-Hexanone	0.253	0.303	0.010	19.8	50.0
Dibromochloromethane	0.492	0.529	0.010	7.5	50.0
1,2-Dibromoethane	0.409	0.441	0.010	7.8	50.0
Chlorobenzene	0.872	0.906	0.010	3.9	50.0
Ethylbenzene	1.711	1.706	0.010	-0.3	50.0
o-Xylene	0.588	0.606	0.010	3.1	50.0
m,p-Xylene	0.522	0.556	0.010	6.5	50.0
Styrene	0.948	1.021	0.010	7.7	50.0
Bromoform	0.511	0.606	0.010	18.6	50.0
Isopropylbenzene	1.626	1.755	0.010	7.9	50.0
1,1,2,2-Tetrachloroethane	0.468	0.585	0.010	25.0	50.0
1,3-Dichlorobenzene	1.505	1.470	0.010	-2.3	50.0
1,4-Dichlorobenzene	1.442	1.467	0.010	1.7	50.0
1,2-Dichlorobenzene	1.353	1.352	0.010	-0.1	50.0
1,2-Dibromo-3-chloropropane	0.199	0.255	0.010	28.1	50.0
1,2,4-Trichlorobenzene	0.858	0.785	0.010	-8.5	50.0
1,2,3-Trichlorobenzene	0.695	0.675	0.010	-2.9	50.0

Report 1,4 -Dioxane for Low-Medium VOA analysis only

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Instrument ID: MSVOAI Calibration Date: 10/20/2008 Time: 16:21

Lab File ID: VI022337.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (VSTD#####): VSTD020 Init. Calib. Time(s): 12:10 13:49

Heated Purge: (Y/N) Y GC Column: RTX-VMS ID: 0.25 (mm) Length: 60 (m)

Purge Volume: 10 (mL)

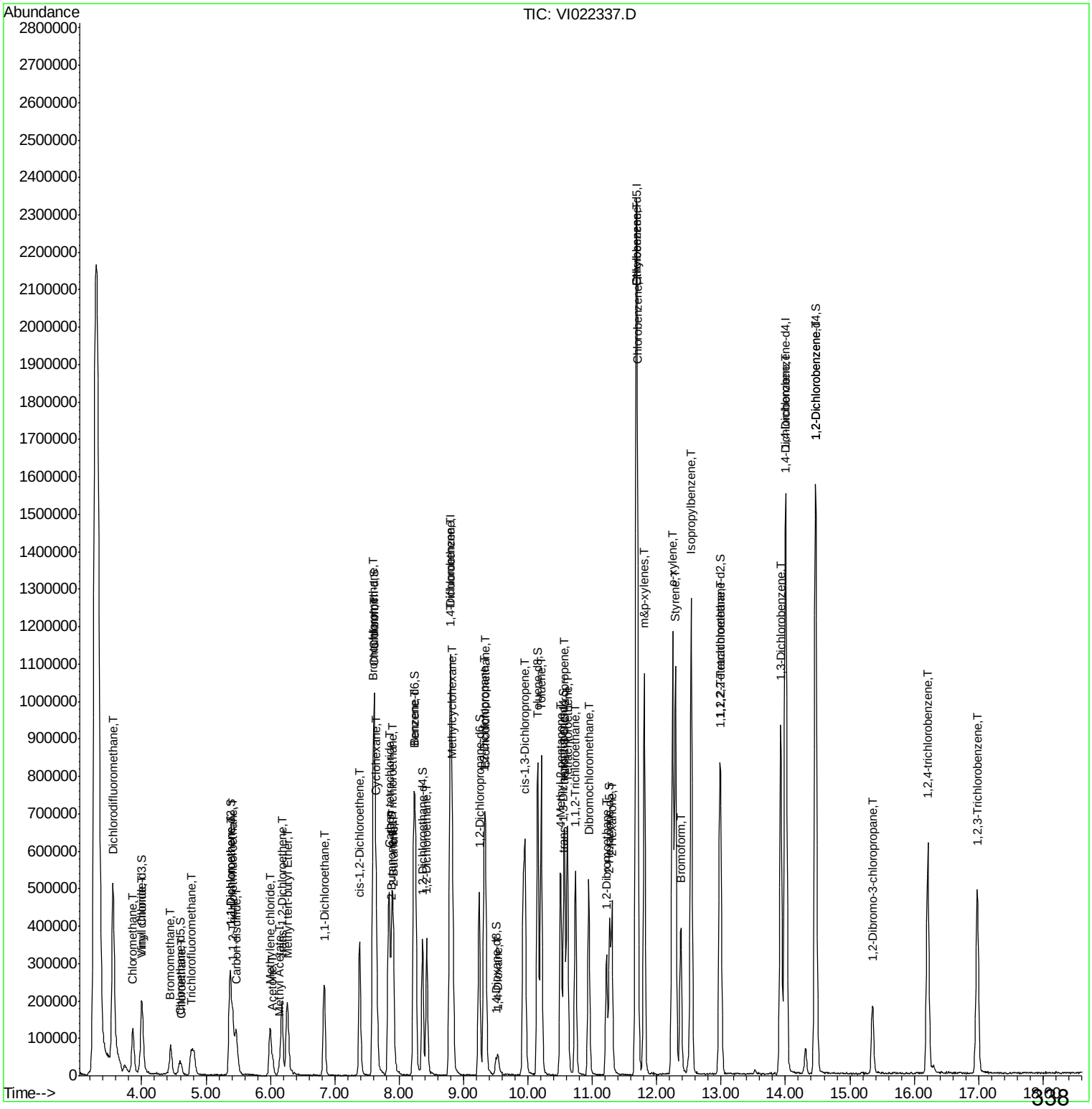
COMPOUND	RRF	RRF25	MIN RRF	%D	MAX%D
Vinyl Chloride-d3	0.304	0.315	0.010	3.6	50.0
Chloroethane-d5	0.071	0.070	0.010	-1.4	50.0
1,1-Dichloroethene-d2	0.343	0.367	0.010	7.0	50.0
2-Butanone-d5	0.108	0.131	0.010	21.3	50.0
Chloroform-d	0.921	1.009	0.010	9.6	50.0
1,2-Dichloroethane-d4	0.483	0.615	0.010	27.3	50.0
Benzene-d6	1.070	1.010	0.010	-5.6	50.0
1,2-Dichloropropane-d6	0.343	0.373	0.010	8.7	50.0
Toluene-d8	1.043	1.040	0.010	-0.3	50.0
trans-1,3-Dichloropropene-d4	0.148	0.164	0.010	10.8	50.0
2-Hexanone-d5	0.121	0.159	0.010	31.4	50.0
1,4-Dioxane-d8	0.003	0.004	0.005	33.3	50.0
1,1,2,2-Tetrachloroethane-d2	0.495	0.625	0.010	26.3	50.0
1,2-Dichlorobenzene-d4	0.942	0.912	0.010	-3.2	50.0

Report 1,4 -Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022337.D
Acq On : 20 Oct 2008 16:21
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 13 Sample Multiplier: 1

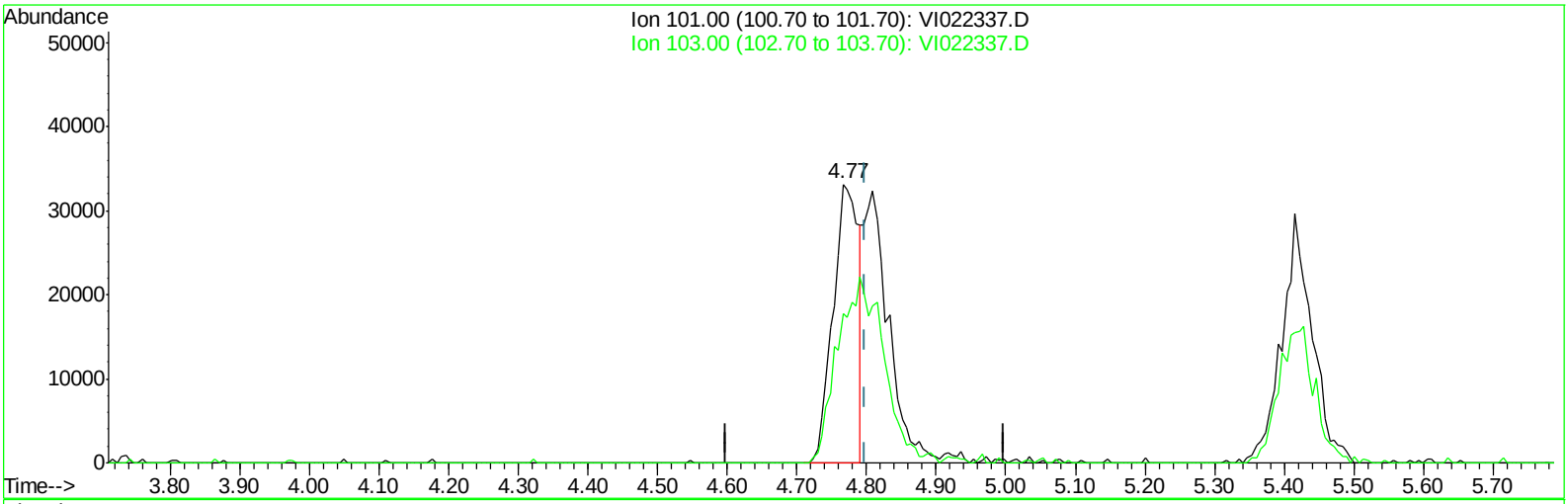
Quant Time: Oct 20 16:50:28 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

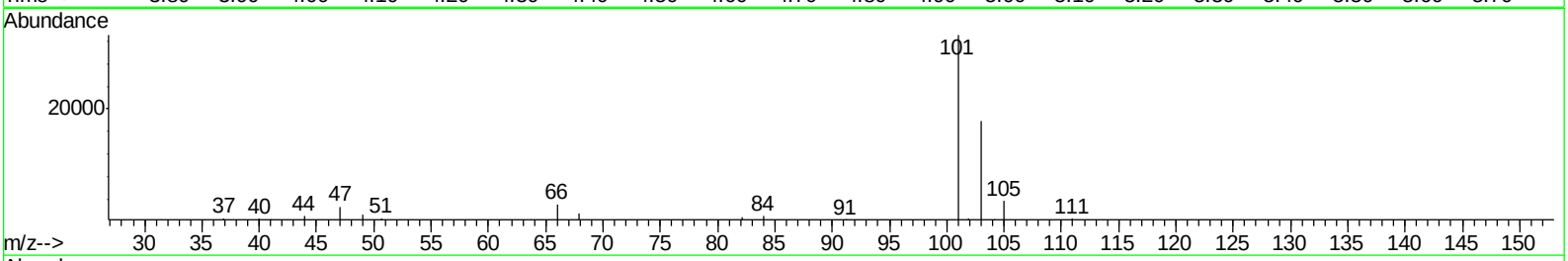


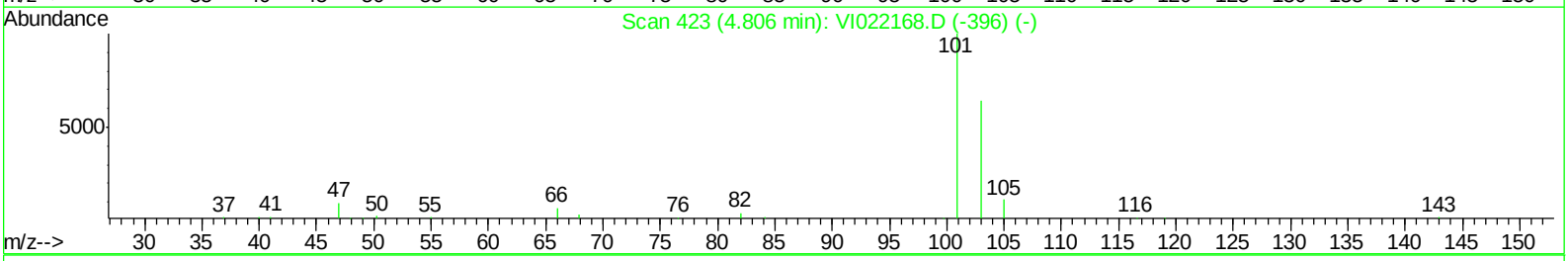
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022337.D
Acq On : 20 Oct 2008 16:21
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 16:47:05 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022337.D

(9) Trichlorofluoromethane (T)

4.766min (-0.033) 28.07ug/L

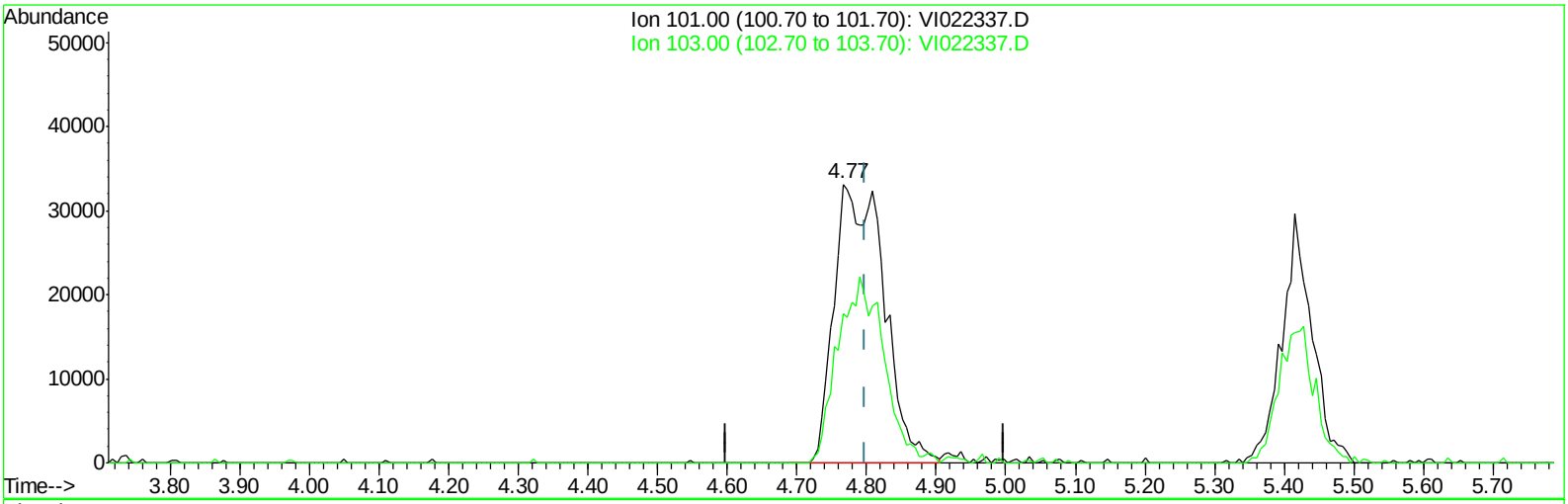
response 84407

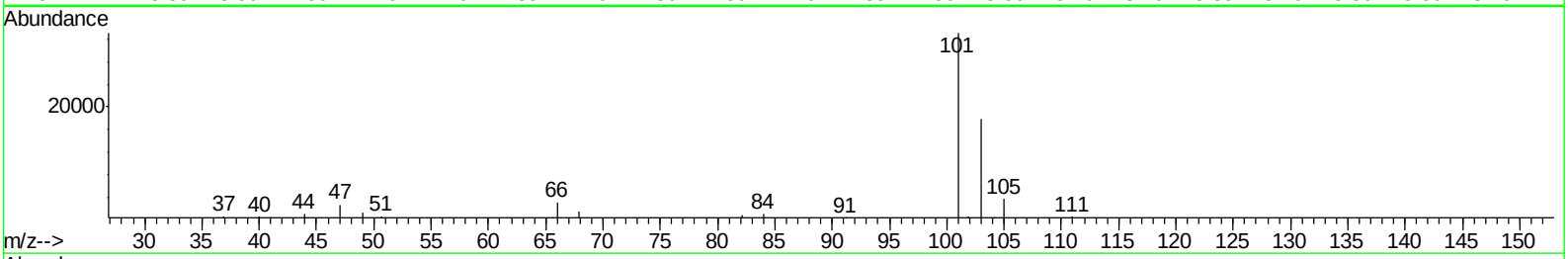
Ion	Exp%	Act%
101.00	100	100
103.00	40.20	119.15#
0.00	0.00	0.00
0.00	0.00	0.00

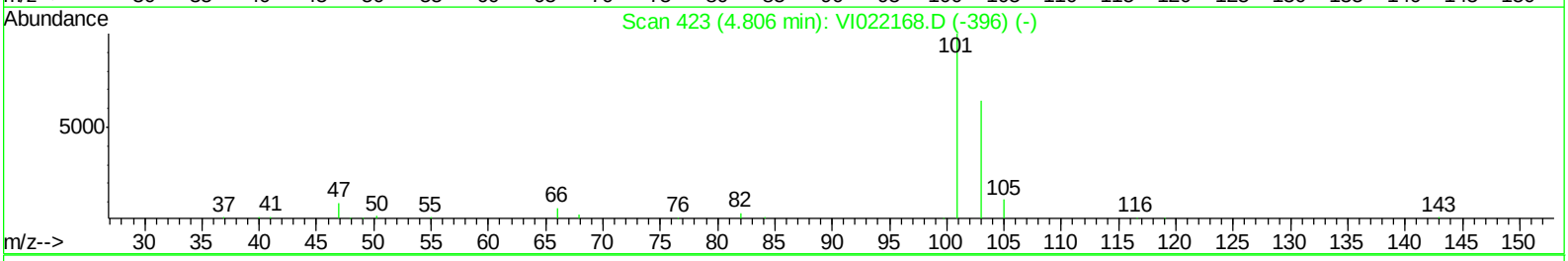
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022337.D
Acq On : 20 Oct 2008 16:21
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 16:47:05 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022337.D

(9) Trichlorofluoromethane (T)

4.766min (-0.033) 54.54ug/L m

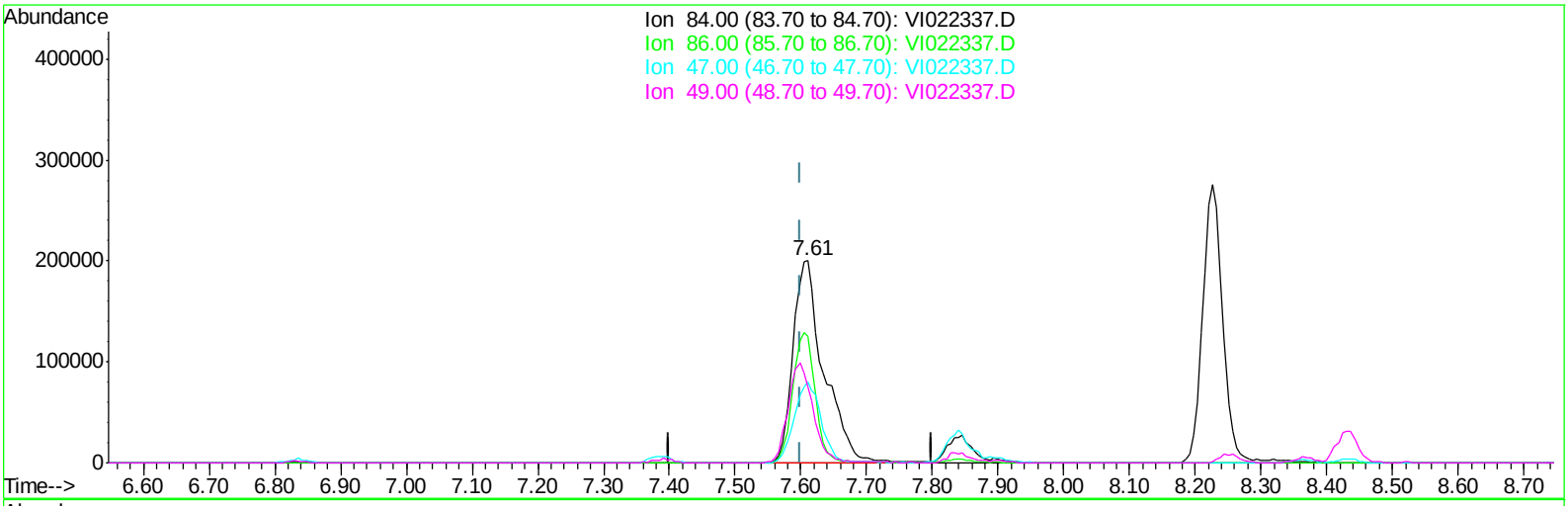
response 164014

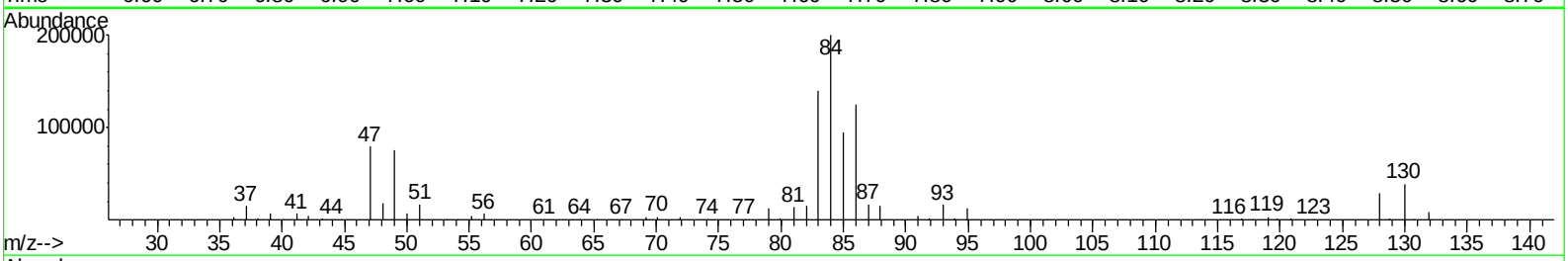
Ion	Exp%	Act%
101.00	100	100
103.00	40.20	61.32#
0.00	0.00	0.00
0.00	0.00	0.00

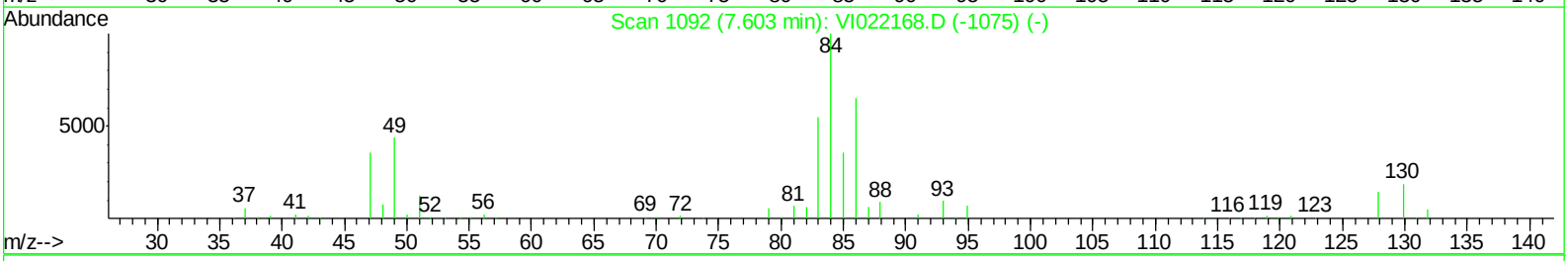
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022337.D
Acq On : 20 Oct 2008 16:21
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 16:47:05 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022337.D

(22) Chloroform-d (S)

7.610min (+0.010) 66.17ug/L

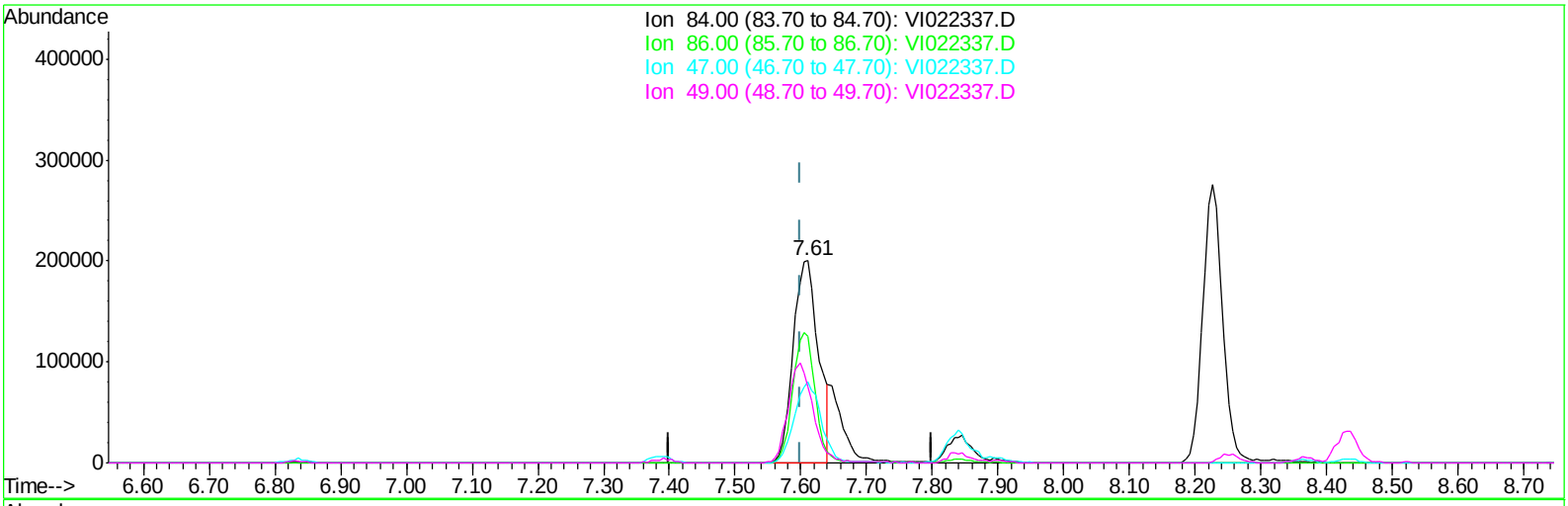
response 650319

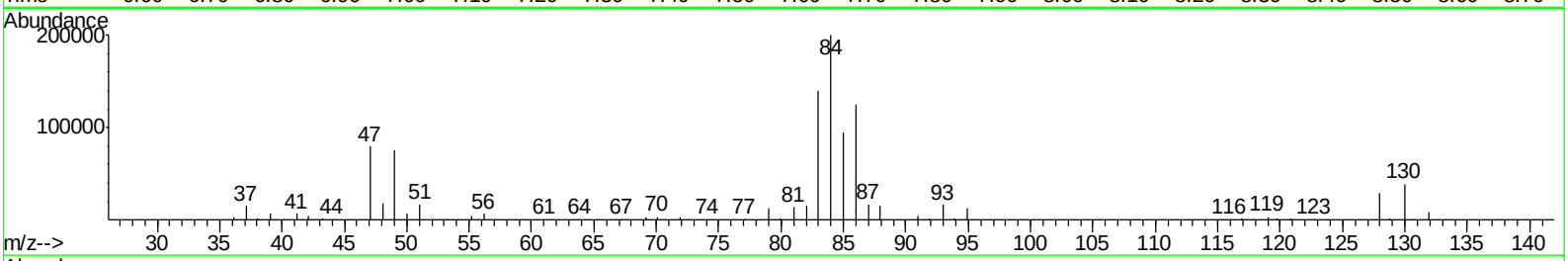
Ion	Exp%	Act%
84.00	100	100
86.00	57.40	46.56
47.00	36.80	34.60
49.00	42.20	39.44

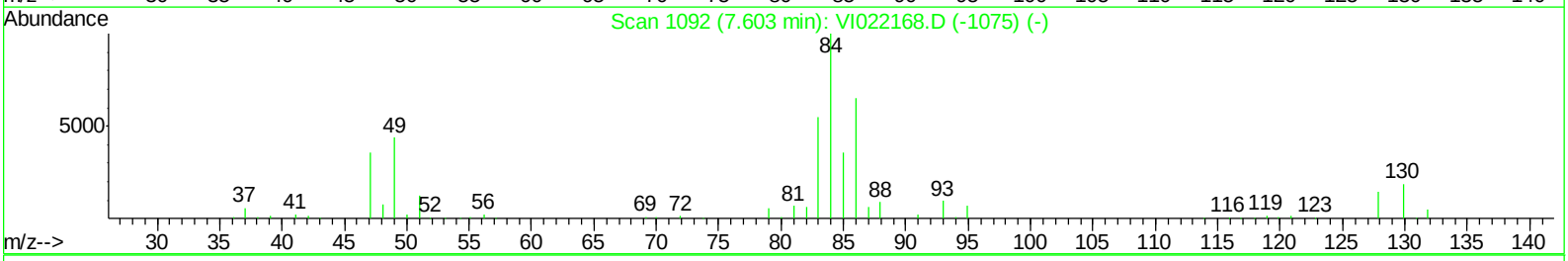
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022337.D
Acq On : 20 Oct 2008 16:21
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 16:47:05 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022337.D

(22) Chloroform-d (S)

7.610min (+0.010) 54.78ug/L m

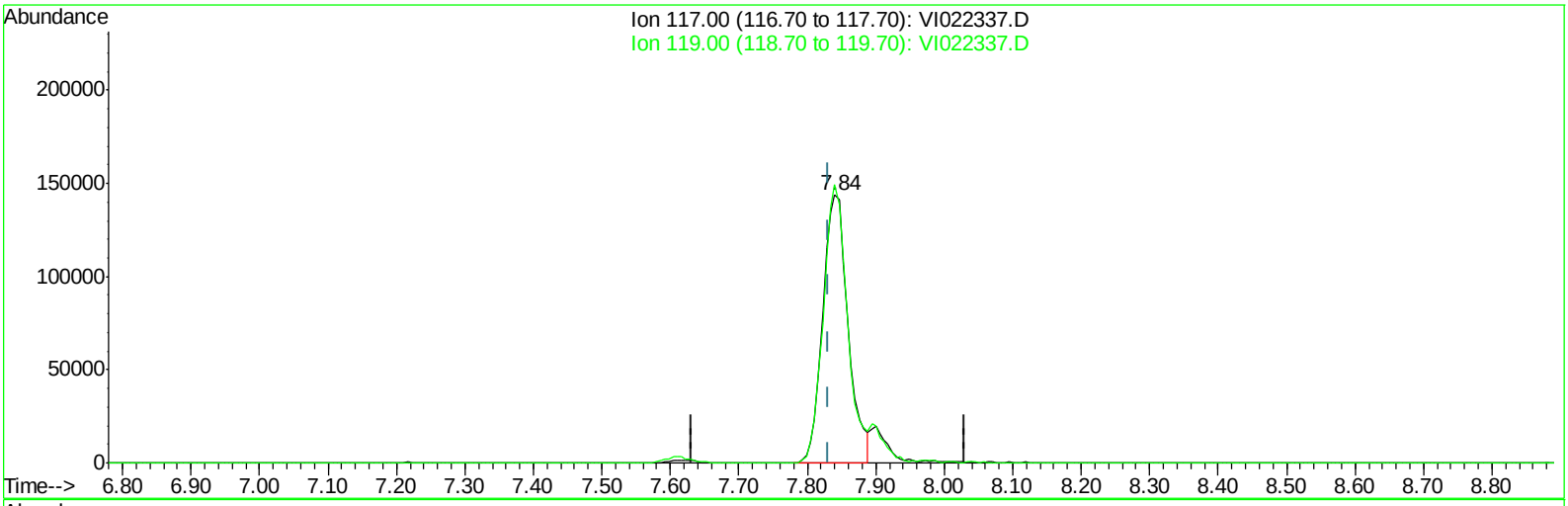
response 538359

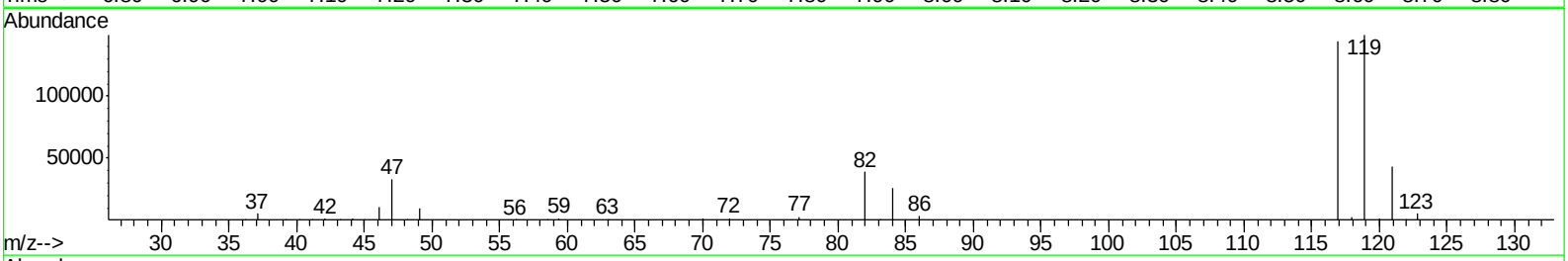
Ion	Exp%	Act%
84.00	100	100
86.00	57.40	56.24
47.00	36.80	41.79
49.00	42.20	47.65

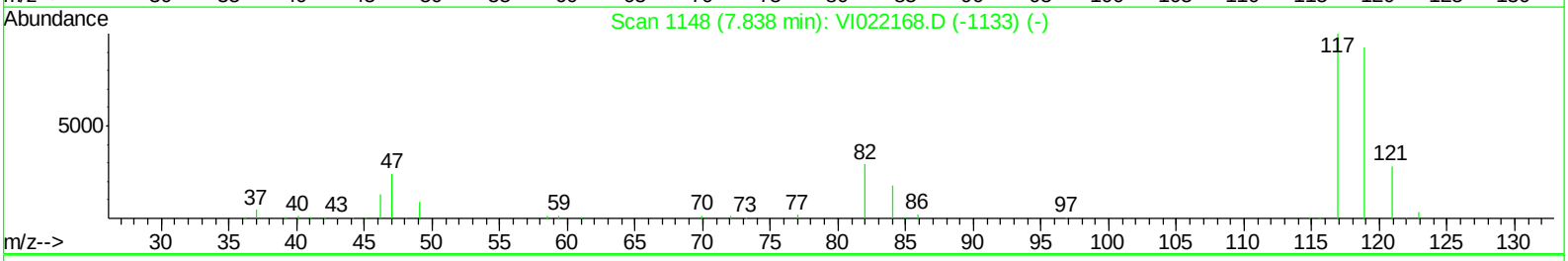
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022337.D
Acq On : 20 Oct 2008 16:21
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 16:47:05 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022337.D

(32) Carbon tetrachloride (T)

7.840min (+0.009) 50.26ug/L

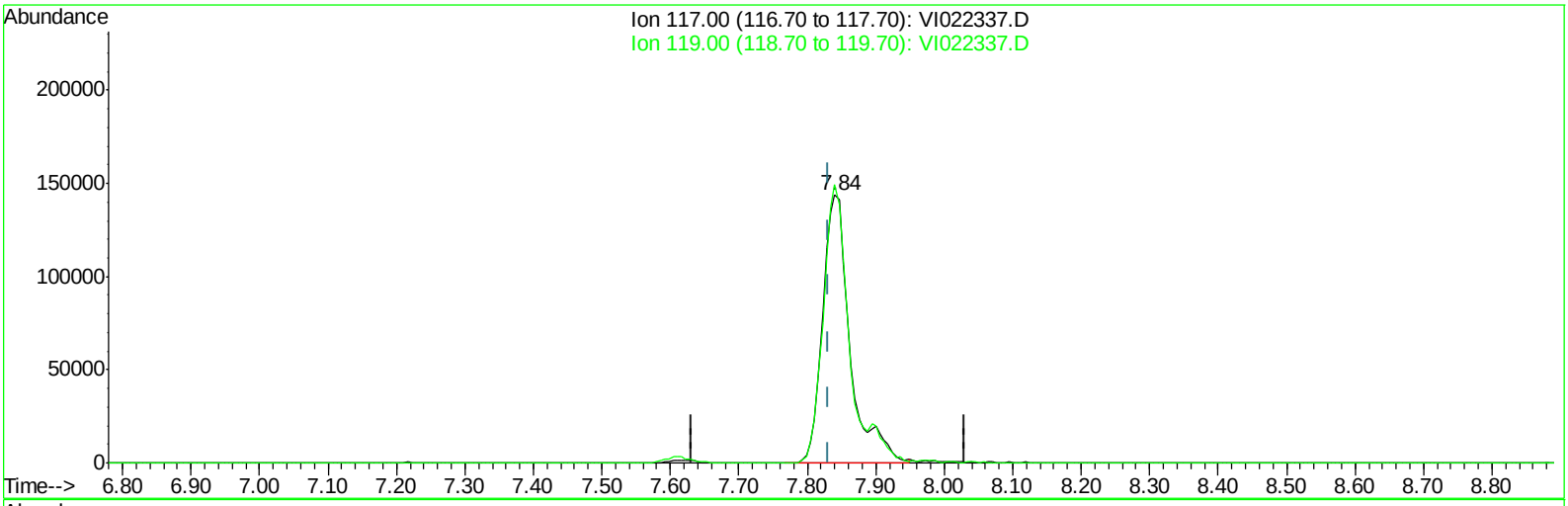
response 371633

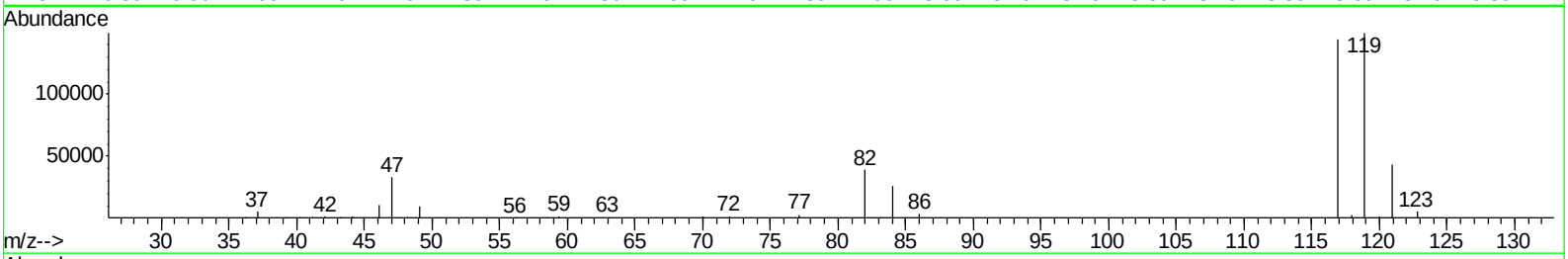
Ion	Exp%	Act%
117.00	100	100
119.00	101.20	99.40
0.00	0.00	0.00
0.00	0.00	0.00

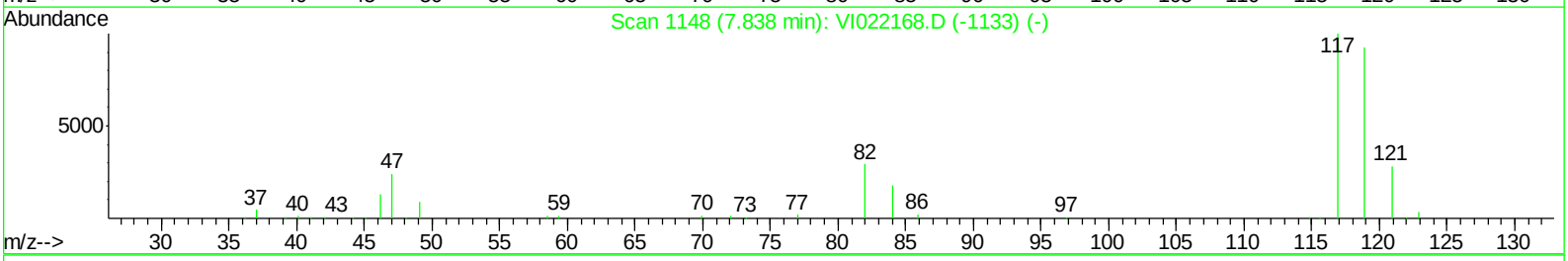
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022337.D
Acq On : 20 Oct 2008 16:21
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 16:47:05 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022337.D

(32) Carbon tetrachloride (T)

7.840min (+0.009) 54.83ug/L m

response 405433

Ion	Exp%	Act%
117.00	100	100
119.00	101.20	91.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022337.D
Acq On : 20 Oct 2008 16:21
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 16:50:28 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	8.79	114	533763	50.00 ug/L	0.00
30) Chlorobenzene-d5	11.69	117	588959	50.00 ug/L	0.01
61) 1,4-Dichlorobenzene-d4	14.00	152	344421	50.00 ug/L	0.02
System Monitoring Compounds					
4) Vinyl Chloride-d3	4.00	65	167994	51.73 ug/L	0.00
7) Chloroethane-d5	4.59	69	37186	49.08 ug/L	0.00
10) 1,1-Dichloroethene-d2	5.37	63	195862	53.45 ug/L	0.01
22) Chloroform-d	7.61	84	538359m	54.78 ug/L	0.01
24) 2-Butanone-d5	7.87	46	139813	121.15 ug/L	0.01
26) 1,2-Dichloroethane-d4	8.36	65	328135	63.58 ug/L	0.00
28) 1,4-Dioxane-d8	9.50	96	39128	1216.52 ug/L	0.00
34) Benzene-d6	8.23	84	594716	47.17 ug/L	0.00
38) 1,2-Dichloropropane-d6	9.24	67	219973	54.51 ug/L	0.00
42) Toluene-d8	10.15	98	612630	49.85 ug/L	0.00
45) trans-1,3-Dichloropropene-	10.55	79	96616	55.39 ug/L	0.00
51) 2-Hexanone-d5	11.27	63	186723	130.51 ug/L	0.01
59) 1,1,2,2-Tetrachloroethane-	12.98	84	368176	63.16 ug/L	0.01
65) 1,2-Dichlorobenzene-d4	14.46	152	314015	48.38 ug/L	0.01

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.57	85	253858	50.93 ug/L #	85
3) Chloromethane	3.86	50	192653	52.45 ug/L	99
5) Vinyl chloride	4.01	62	180922	48.36 ug/L	86
6) Bromomethane	4.45	94	74545	44.17 ug/L	97
8) Chloroethane	4.61	64	28542	50.22 ug/L #	62
9) Trichlorofluoromethane	4.77	101	164014m	54.54 ug/L	
11) 1,1-Dichloroethene	5.38	96	66101	44.83 ug/L	81
12) 1,1,2-Trichlorotrifluoroet	5.42	101	89978	49.72 ug/L #	75
13) Carbon disulfide	5.47	76	230803	45.26 ug/L	97
14) Methylene chloride	6.00	84	68303	39.11 ug/L	97
15) Acetone	6.04	43	57261	101.18 ug/L #	54
16) Methyl Acetate	6.14	43	52201	51.54 ug/L	97
17) trans-1,2-Dichloroethene	6.18	96	77857	47.75 ug/L	80
18) Methyl tert-butyl Ether	6.26	73	305447	54.36 ug/L	96
19) 1,1-Dichloroethane	6.84	63	272252	57.17 ug/L	94
20) cis-1,2-Dichloroethene	7.38	96	171396	54.12 ug/L	77
21) Bromochloromethane	7.59	128	105868	53.03 ug/L	87
23) Chloroform	7.62	83	427154	53.76 ug/L	97
25) 2-Butanone	7.92	43	136797	123.37 ug/L	93
27) 1,2-Dichloroethane	8.43	62	363876	63.61 ug/L	97
29) 1,4-Dioxane	9.54	88	42411	1143.27 ug/L	93
31) Cyclohexane	7.64	56	163563	50.97 ug/L	81
32) Carbon tetrachloride	7.84	117	405433m	54.83 ug/L	
33) 1,1,1-Trichloroethane	7.89	97	375147	53.87 ug/L	97
35) Benzene	8.25	78	577063	50.30 ug/L	100
36) Trichloroethene	8.80	95	223621	41.24 ug/L	91
37) Methylcyclohexane	8.83	83	260720	47.26 ug/L	94
39) 1,2-Dichloropropane	9.32	63	165552	53.91 ug/L	99
40) Bromodichloromethane	9.34	83	388855	56.83 ug/L	96

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022337.D
Acq On : 20 Oct 2008 16:21
Operator : MS
Sample : 25 PPB CCC
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 16:50:28 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
41) cis-1,3-Dichloropropene	9.96	75	385972	52.80 ug/L	96
43) Toluene	10.21	91	660722	48.15 ug/L	92
44) 4-Methyl-2-pentanone	10.51	43	428425	114.54 ug/L	97
46) trans-1,3-Dichloropropene	10.57	75	422416	57.30 ug/L	98
47) Tetrachloroethene	10.61	164	162569	51.40 ug/L	92
48) 1,1,2-Trichloroethane	10.74	97	185658	54.92 ug/L	91
49) Dibromochloromethane	10.94	129	311757	53.79 ug/L	87
50) 1,2-Dibromoethane	11.22	107	259634	53.91 ug/L	96
52) 2-Hexanone	11.30	43	356974	119.85 ug/L	97
53) Ethylbenzene	11.68	91	1004746	49.85 ug/L	99
54) Chlorobenzene	11.71	112	533483	51.91 ug/L	95
55) m&p-xylenes	11.81	106	327213	53.24 ug/L	94
56) o-xylene	12.25	106	356810	51.53 ug/L	97
57) Styrene	12.29	104	601170	53.83 ug/L	98
58) Isopropylbenzene	12.54	105	1033589	53.98 ug/L	97
60) 1,1,2,2-Tetrachloroethane	13.00	83	344290	62.49 ug/L	95
62) Bromoform	12.37	173	208868	59.34 ug/L #	96
63) 1,3-Dichlorobenzene	13.93	146	506371	48.85 ug/L	98
64) 1,4-Dichlorobenzene	14.01	146	505403	50.89 ug/L	97
66) 1,2-Dichlorobenzene	14.47	146	465523	49.96 ug/L	96
67) 1,2-Dibromo-3-chloropropan	15.36	75	87829	63.96 ug/L	93
68) 1,2,4-trichlorobenzene	16.21	180	270485	45.75 ug/L	98
69) 1,2,3-Trichlorobenzene	16.98	180	232487	48.55 ug/L	99

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

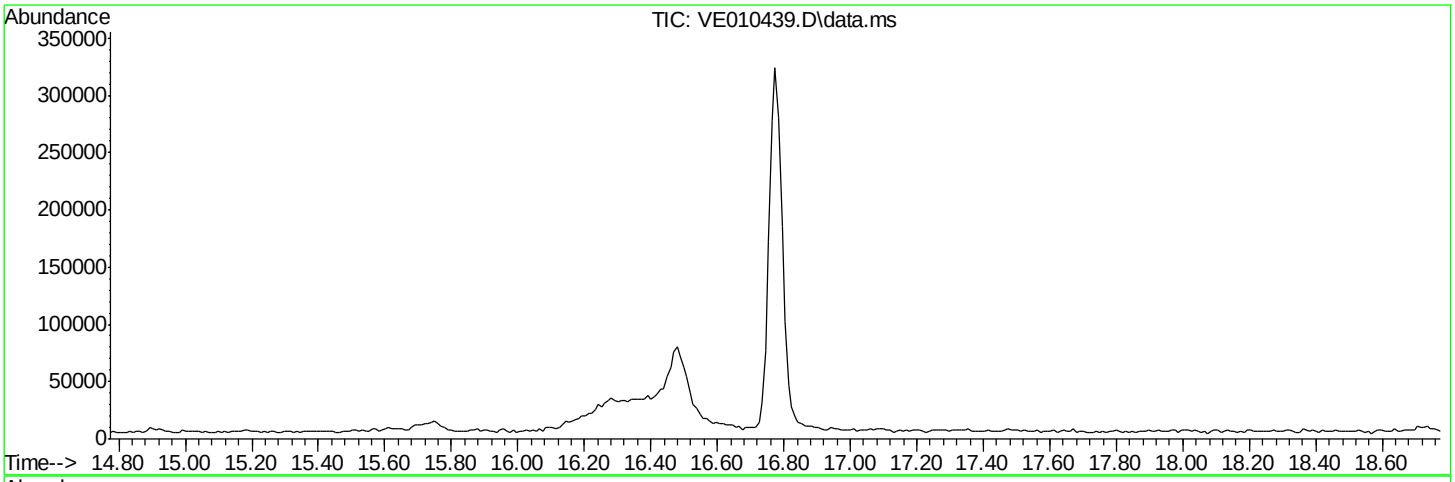
CHEMTECH

VOLATILES
RAW QC
DATA

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101608\
Data File : VE010439.D
Acq On : 16 Oct 2008 11:46
Operator : SY
Sample : BFB TUNE CHECK
Misc : 5ML, MSVOAE
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Title : TRACE VOA SOM01.0
Last Update : Thu Oct 16 18:50:12 2008



AutoFind: Scans 1434, 1435, 1436; Background Corrected with Scan 1425

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.8	10464	PASS
75	95	30	80	44.4	27584	PASS
95	95	100	100	100.0	62181	PASS
96	95	5	9	6.3	3931	PASS
173	174	0.00	2	0.6	271	PASS
174	95	50	120	78.0	48530	PASS
175	174	5	9	6.4	3086	PASS
176	174	95	101	95.8	46498	PASS
177	176	5	9	6.3	2914	PASS

Scan 1435 (16.774 min): VE010439.D\data.ms
BFB TUNE CHECK

m/z	Abundance
36.05	667.0
37.05	3841.0
38.05	2697.0
39.10	897.0
39.90	376.0
41.50	66.0
42.60	125.0
44.10	1967.0
45.10	1238.0
46.20	55.0
47.15	668.0
47.95	392.0
49.05	3007.0
50.05	11224.0
51.05	3710.0
52.15	248.0
54.15	77.0
54.90	329.0
56.00	1085.0
57.00	1896.0
57.90	123.0
59.00	74.0
60.00	857.0
61.10	2235.0
62.10	2227.0
63.05	2358.0
63.75	212.0
65.05	233.0
65.75	51.0
66.15	52.0
66.75	60.0
68.05	7670.0
69.05	8323.0
70.05	203.0
72.00	329.0
73.00	2731.0
74.00	8271.0
75.10	29832.0
76.10	3245.0
77.00	544.0
78.00	822.0
78.85	2278.0
80.05	515.0
80.95	1853.0
82.05	238.0
83.75	57.0
84.25	91.0
85.75	71.0
87.00	3193.0
88.00	3709.0
88.80	304.0
91.00	245.0
92.00	1686.0
93.00	2563.0
94.10	8079.0
95.05	67592.0
96.05	4290.0
96.95	184.0
98.15	90.0
99.85	56.0
103.10	113.0
103.80	167.0
106.00	428.0
106.70	78.0
108.30	69.0
110.95	85.0
111.75	108.0
113.05	60.0
115.15	149.0
115.95	150.0
116.85	171.0
117.85	224.0
119.00	304.0
121.20	116.0
123.60	79.0
125.00	166.0
127.05	73.0
127.85	266.0
128.95	56.0
129.95	219.0
131.15	115.0
132.95	172.0
134.80	134.0
135.20	98.0
136.90	152.0
138.80	84.0
141.00	383.0
142.00	83.0
142.85	560.0
143.85	86.0
145.75	255.0

146.55	53.0
147.25	96.0
148.05	178.0
149.05	177.0
149.75	67.0
150.15	101.0
153.00	92.0
154.90	126.0
157.00	231.0
157.90	74.0
170.30	81.0
172.10	466.0
174.00	53464.0
175.05	2894.0
175.95	51744.0
177.05	3319.0
181.45	60.0
190.10	51.0
190.85	191.0
192.65	94.0
195.05	92.0
205.00	99.0
207.15	419.0
208.05	156.0
208.85	139.0
234.80	110.0
263.70	97.0
265.00	144.0
269.00	79.0
279.20	63.0
281.20	950.0
281.90	199.0
282.90	107.0
286.45	71.0
289.65	72.0

Scan 1434 (16.765 min): VE010439.D\data.ms
BFB TUNE CHECK

m/z	Abundance
36.05	905.0
37.15	2466.0
38.15	2623.0
39.00	1085.0
39.70	283.0
41.20	141.0
43.20	73.0
44.10	1527.0
44.90	411.0
45.20	371.0
46.00	330.0
47.05	491.0
48.05	468.0
49.05	2193.0
50.05	10945.0
51.05	3595.0
52.15	134.0
52.85	84.0
53.75	96.0
54.90	238.0
56.00	745.0
57.10	1659.0
59.10	71.0
60.10	380.0
61.00	1902.0
62.10	2349.0
63.05	1709.0
64.05	209.0
65.15	212.0
66.85	321.0
68.05	6210.0
69.05	5590.0
69.95	321.0
71.10	66.0
72.10	154.0
73.00	2486.0
74.00	8376.0
75.10	26672.0
76.10	2044.0
77.10	291.0
78.10	430.0
78.95	1923.0
79.95	403.0
80.95	2147.0
81.95	239.0
82.65	175.0
83.75	105.0
84.35	61.0
85.85	163.0
87.00	2718.0
88.00	2781.0
91.10	81.0
92.00	1440.0
93.10	2610.0
94.10	5548.0
95.05	64176.0
95.95	4215.0
97.05	207.0
102.15	60.0
102.70	89.0
104.00	222.0
106.00	244.0
107.90	77.0
109.80	51.0
113.05	147.0
115.05	177.0
115.85	208.0
116.75	381.0
117.85	108.0
118.25	67.0
118.90	289.0
127.85	62.0
131.95	130.0
132.45	75.0
133.25	89.0
134.40	80.0
134.90	201.0
139.60	189.0
140.80	346.0
141.00	351.0
141.90	127.0
142.95	464.0
146.95	52.0
147.75	81.0
148.95	55.0
154.70	104.0
156.80	52.0
157.90	95.0
158.85	96.0
160.55	65.0
161.95	65.0

162.95	76.0
168.60	51.0
172.10	593.0
173.00	604.0
174.00	41792.0
174.95	2698.0
175.95	40000.0
176.95	2698.0
178.05	114.0
178.95	85.0
184.20	63.0
189.10	95.0
190.95	213.0
192.95	217.0
201.40	117.0
206.95	1030.0
208.05	121.0
208.95	111.0
210.15	71.0
213.65	91.0
227.15	103.0
237.20	58.0
248.80	190.0
249.90	106.0
251.10	147.0
261.05	63.0
267.00	153.0
281.00	1083.0
281.70	67.0
283.10	257.0
284.10	89.0
285.10	79.0

Scan 1436 (16.784 min): VE010439.D\data.ms
BFB TUNE CHECK

m/z	Abundance
36.15	641.0
37.05	2688.0
38.05	2209.0
39.10	695.0
40.00	477.0
41.10	75.0
42.00	216.0
43.20	320.0
44.10	1674.0
45.00	376.0
46.10	77.0
47.05	544.0
47.95	426.0
49.05	2213.0
50.05	9225.0
51.05	3401.0
52.15	178.0
52.85	96.0
55.00	582.0
55.90	736.0
57.00	1882.0
58.20	303.0
60.00	464.0
61.10	2148.0
62.10	1859.0
63.05	1497.0
64.05	140.0
65.05	167.0
65.85	119.0
67.05	197.0
68.05	5523.0
69.05	5275.0
70.15	583.0
71.20	100.0
71.90	180.0
73.00	1596.0
74.10	7415.0
75.10	26248.0
76.00	2686.0
77.00	244.0
78.00	230.0
78.95	1691.0
79.95	608.0
80.95	1988.0
81.95	437.0
85.85	110.0
87.00	2627.0
88.00	2888.0
90.50	130.0
91.00	52.0
92.00	1052.0
93.00	1619.0
94.10	7866.0
95.05	54776.0
96.05	3750.0
100.55	84.0
102.80	73.0
104.00	273.0
105.10	94.0
105.90	394.0
106.90	87.0
110.65	76.0
115.75	210.0
117.05	120.0
118.15	216.0
118.70	138.0
119.00	157.0
124.00	123.0
125.00	120.0
125.50	51.0
128.05	326.0
129.95	232.0
130.85	76.0
132.95	197.0
133.55	107.0
135.00	153.0
137.00	77.0
140.90	436.0
141.90	83.0
142.85	510.0
145.05	153.0
147.95	64.0
149.15	74.0
149.85	50.0
153.40	84.0
153.90	74.0
155.10	106.0
157.00	118.0
157.80	116.0
158.95	168.0
160.65	68.0

172.00	187.0
172.90	209.0
174.00	50336.0
174.95	3667.0
175.95	47752.0
177.05	2727.0
178.15	96.0
190.00	64.0
191.15	91.0
193.05	230.0
194.05	60.0
200.80	65.0
205.60	68.0
207.05	969.0
209.05	161.0
222.05	55.0
234.80	75.0
249.20	126.0
250.70	96.0
253.90	101.0
257.25	59.0
260.85	93.0
264.80	157.0
266.90	133.0
277.65	84.0
281.10	1091.0
282.10	278.0
283.20	402.0
283.80	81.0
285.10	112.0
295.10	98.0

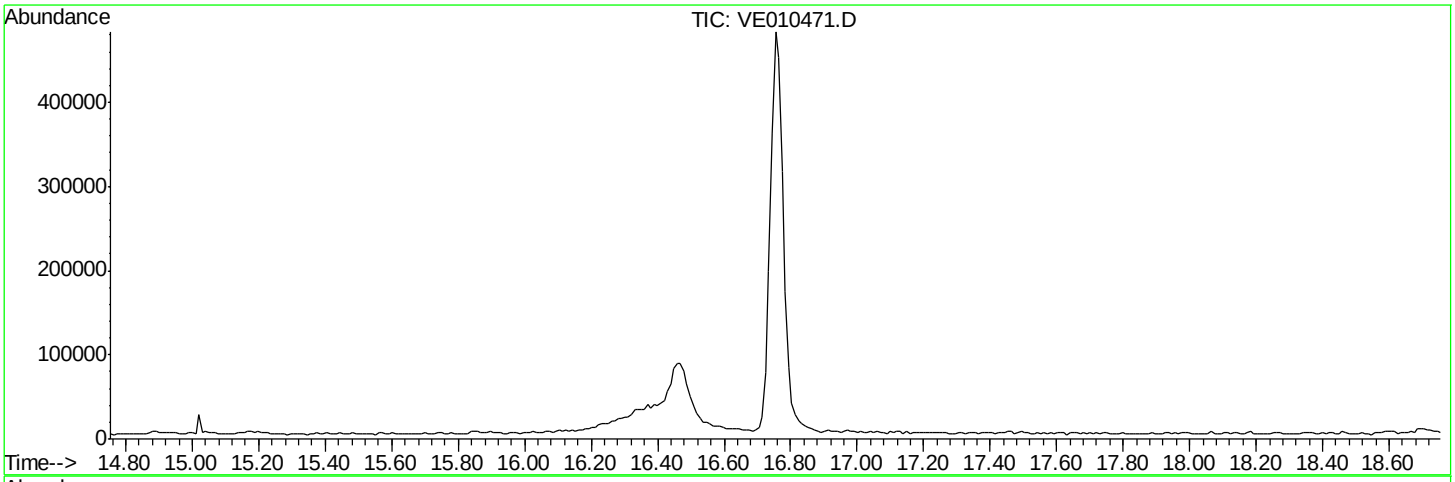
Scan 1425 (16.676 min): VE010439.D\data.ms
BFB TUNE CHECK

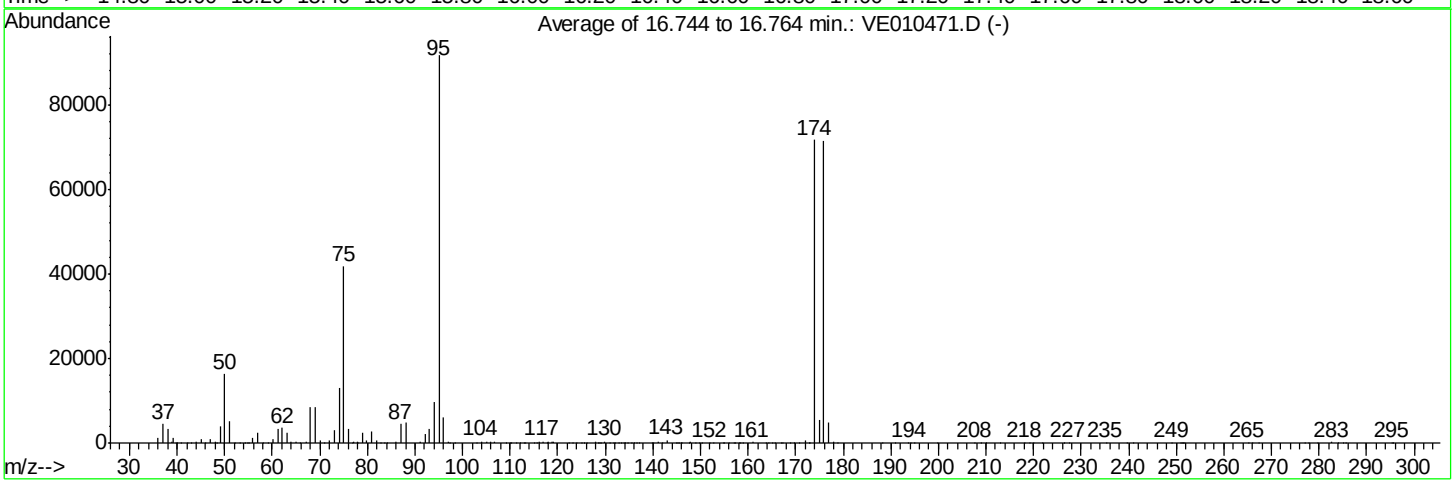
m/z	Abundance
39.90	324.0
41.00	55.0
41.50	66.0
44.00	785.0
44.70	128.0
48.25	65.0
52.65	93.0
61.10	98.0
64.65	77.0
68.05	60.0
72.90	249.0
76.00	69.0
77.30	70.0
82.05	63.0
88.00	66.0
90.60	91.0
94.20	56.0
96.05	154.0
96.85	145.0
103.20	130.0
104.00	88.0
104.90	175.0
108.50	82.0
117.95	64.0
124.80	156.0
126.00	89.0
128.05	66.0
133.05	293.0
142.85	90.0
159.65	101.0
162.95	69.0
169.90	63.0
178.85	60.0
191.05	151.0
193.05	375.0
205.00	137.0
206.95	279.0
207.95	177.0
209.75	82.0
218.70	82.0
223.45	57.0
232.90	89.0
249.00	320.0
265.90	189.0
268.10	55.0
269.90	57.0
281.10	950.0
282.00	595.0
283.10	262.0
287.15	80.0

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010471.D
Acq On : 17 Oct 2008 9:59
Operator : SY
Sample : BFB TUNE CHECK
Misc : 5ML, MSVOAE
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Title : TRACE VOA SOM01.0
Last Update : Thu Oct 16 18:50:12 2008





AutoFind: Scans 1432, 1433, 1434; Background Corrected with Scan 1420

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	16212	PASS
75	95	30	80	45.5	41757	PASS
95	95	100	100	100.0	91720	PASS
96	95	5	9	6.6	6023	PASS
173	174	0.00	2	0.2	130	PASS
174	95	50	120	78.1	71672	PASS
175	174	5	9	7.6	5412	PASS
176	174	95	101	99.6	71352	PASS
177	176	5	9	6.8	4878	PASS

Scan 1433 (16.754 min): VE010471.D\data.ms
BFB TUNE CHECK

m/z	Abundance
36.05	1092.0
37.05	4756.0
38.05	3909.0
39.10	1960.0
39.70	267.0
40.10	192.0
40.70	266.0
42.10	369.0
44.00	1573.0
45.00	677.0
45.80	71.0
47.15	1071.0
47.95	598.0
49.05	3962.0
50.05	16816.0
51.05	5336.0
52.15	62.0
55.00	233.0
55.90	1074.0
57.10	2812.0
58.10	54.0
58.80	66.0
60.00	875.0
61.10	3915.0
62.10	3979.0
62.95	2431.0
63.95	256.0
64.95	283.0
65.75	74.0
66.15	60.0
66.95	242.0
68.05	9498.0
69.05	10094.0
70.05	553.0
70.90	118.0
71.90	621.0
73.00	3561.0
74.00	14066.0
75.10	47672.0
76.10	3601.0
77.20	451.0
78.00	285.0
78.95	2526.0
79.95	988.0
80.85	2452.0
81.95	723.0
82.75	67.0
84.15	175.0
85.95	313.0
87.00	6504.0
88.00	5728.0
91.10	152.0
92.10	1905.0
93.00	4024.0
94.10	11062.0
95.05	105632.0
96.05	6205.0
97.15	352.0
103.00	71.0
104.00	437.0
105.00	430.0
105.90	377.0
106.80	340.0
110.00	81.0
110.35	86.0
111.15	183.0
113.05	110.0
115.65	66.0
116.05	272.0
116.85	536.0
118.05	479.0
118.80	227.0
122.20	76.0
126.10	149.0
127.95	236.0
128.55	141.0
129.95	830.0
132.05	74.0
133.05	275.0
133.75	158.0
134.15	126.0
134.80	151.0
135.50	61.0
136.60	54.0
137.10	194.0
141.00	538.0
143.05	706.0
144.75	206.0
145.45	60.0
146.05	98.0
147.95	487.0

149.05	81.0
150.05	61.0
152.00	66.0
155.00	219.0
155.90	98.0
156.90	102.0
157.30	89.0
158.00	85.0
160.75	73.0
163.85	67.0
165.05	77.0
167.10	125.0
168.80	193.0
170.80	121.0
171.90	524.0
173.00	391.0
174.00	77928.0
174.95	6239.0
175.95	78976.0
176.95	5836.0
177.95	145.0
178.95	85.0
190.95	154.0
194.25	54.0
195.05	68.0
199.80	87.0
207.05	1045.0
207.65	248.0
208.95	248.0
210.15	73.0
218.10	192.0
219.90	73.0
221.70	76.0
241.05	94.0
251.10	62.0
265.10	74.0
267.00	85.0
281.00	1003.0
282.10	687.0
282.80	118.0
283.10	180.0
283.90	159.0
285.00	166.0
295.50	89.0

Scan 1434 (16.764 min): VE010471.D\data.ms
BFB TUNE CHECK

m/z	Abundance
36.05	1199.0
37.05	5101.0
38.05	3356.0
39.10	1567.0
39.90	261.0
41.20	53.0
42.20	75.0
42.90	152.0
43.90	1321.0
45.00	700.0
46.00	179.0
47.15	590.0
48.05	612.0
49.05	4577.0
50.05	16560.0
51.05	4959.0
53.25	165.0
54.15	73.0
54.90	82.0
56.00	1337.0
57.00	2313.0
58.00	378.0
60.10	783.0
61.10	3804.0
62.10	3555.0
63.05	2671.0
64.05	367.0
65.05	354.0
65.95	173.0
66.85	184.0
68.05	8888.0
69.05	8007.0
70.15	640.0
71.80	226.0
72.10	179.0
73.00	3445.0
74.00	12853.0
75.00	41640.0
76.10	3680.0
77.10	558.0
78.00	528.0
78.85	3129.0
79.85	641.0
80.95	3195.0
81.95	566.0
83.55	93.0
87.00	3817.0
88.00	5945.0
90.90	281.0
92.10	2699.0
93.10	3163.0
94.10	9129.0
95.05	90176.0
95.95	6574.0
96.85	325.0
103.00	74.0
104.00	330.0
105.00	302.0
105.70	115.0
106.80	170.0
109.90	154.0
115.15	146.0
116.05	401.0
116.95	408.0
117.75	164.0
118.05	166.0
119.00	583.0
123.00	96.0
124.00	122.0
125.00	260.0
125.90	103.0
127.85	240.0
129.15	183.0
129.85	211.0
130.75	59.0
131.95	68.0
132.95	379.0
133.95	58.0
137.10	99.0
139.70	111.0
141.00	307.0
141.90	95.0
142.85	461.0
145.05	66.0
147.05	59.0
147.85	62.0
148.95	133.0
149.65	96.0
154.90	106.0
156.90	71.0
157.40	120.0

158.35	97.0
158.95	217.0
160.95	421.0
164.25	62.0
164.95	62.0
165.65	98.0
169.70	74.0
172.00	553.0
174.00	80376.0
174.95	6420.0
175.95	79728.0
176.95	6221.0
178.05	237.0
190.95	264.0
192.95	92.0
194.05	212.0
206.95	1106.0
207.85	434.0
209.05	277.0
212.85	98.0
219.20	69.0
223.85	56.0
239.45	50.0
242.05	58.0
249.00	81.0
251.30	75.0
251.80	55.0
265.10	119.0
266.00	51.0
267.20	68.0
276.95	93.0
277.75	83.0
279.60	59.0
281.00	968.0
282.10	495.0
282.80	76.0

Scan 1432 (16.744 min): VE010471.D\data.ms
BFB TUNE CHECK

m/z	Abundance
35.95	939.0
37.05	3690.0
38.05	3272.0
38.90	971.0
40.00	354.0
42.30	75.0
43.00	253.0
44.10	1339.0
45.10	1627.0
45.90	58.0
47.05	1293.0
48.25	321.0
49.05	2852.0
50.05	15260.0
51.05	5046.0
52.05	221.0
54.70	158.0
55.00	139.0
55.90	826.0
57.00	2461.0
59.10	301.0
60.10	1257.0
61.10	2852.0
62.10	3214.0
63.05	2126.0
64.15	423.0
65.05	245.0
67.15	425.0
68.05	7325.0
69.05	7761.0
70.05	446.0
72.10	659.0
73.10	2682.0
74.10	12531.0
75.10	35960.0
76.00	2422.0
76.90	440.0
77.80	477.0
78.95	2266.0
79.95	397.0
80.95	2532.0
81.85	455.0
82.85	84.0
86.15	189.0
87.00	2966.0
88.00	2641.0
90.70	73.0
91.10	148.0
92.10	1480.0
93.00	3139.0
94.10	9220.0
95.05	79352.0
96.05	5457.0
96.95	247.0
98.45	66.0
102.90	123.0
104.00	195.0
105.80	96.0
106.80	66.0
109.10	69.0
110.20	72.0
110.65	168.0
111.25	78.0
111.95	71.0
112.75	75.0
114.95	126.0
115.75	137.0
116.25	138.0
116.95	203.0
118.05	450.0
118.80	337.0
125.60	100.0
126.10	75.0
127.85	209.0
128.85	118.0
129.15	89.0
129.95	117.0
130.85	85.0
131.75	92.0
132.85	217.0
133.45	170.0
136.00	57.0
137.10	107.0
140.10	99.0
141.00	405.0
141.90	127.0
143.05	685.0
144.95	68.0
145.85	158.0
147.05	62.0
147.55	72.0

150.20	83.0
152.00	176.0
152.80	120.0
154.80	322.0
156.90	99.0
158.95	95.0
160.95	60.0
166.90	75.0
172.00	540.0
172.80	158.0
174.00	56712.0
174.95	3579.0
175.95	55352.0
176.95	3033.0
177.95	127.0
178.85	115.0
188.20	65.0
191.05	241.0
192.15	133.0
193.55	61.0
194.15	78.0
206.95	572.0
208.05	348.0
209.05	122.0
210.05	61.0
226.35	56.0
227.45	57.0
235.20	110.0
249.10	111.0
250.90	60.0
264.70	120.0
267.00	95.0
281.00	770.0
282.00	337.0
282.70	305.0
283.30	213.0
284.10	87.0
284.90	67.0
285.50	139.0
295.20	64.0

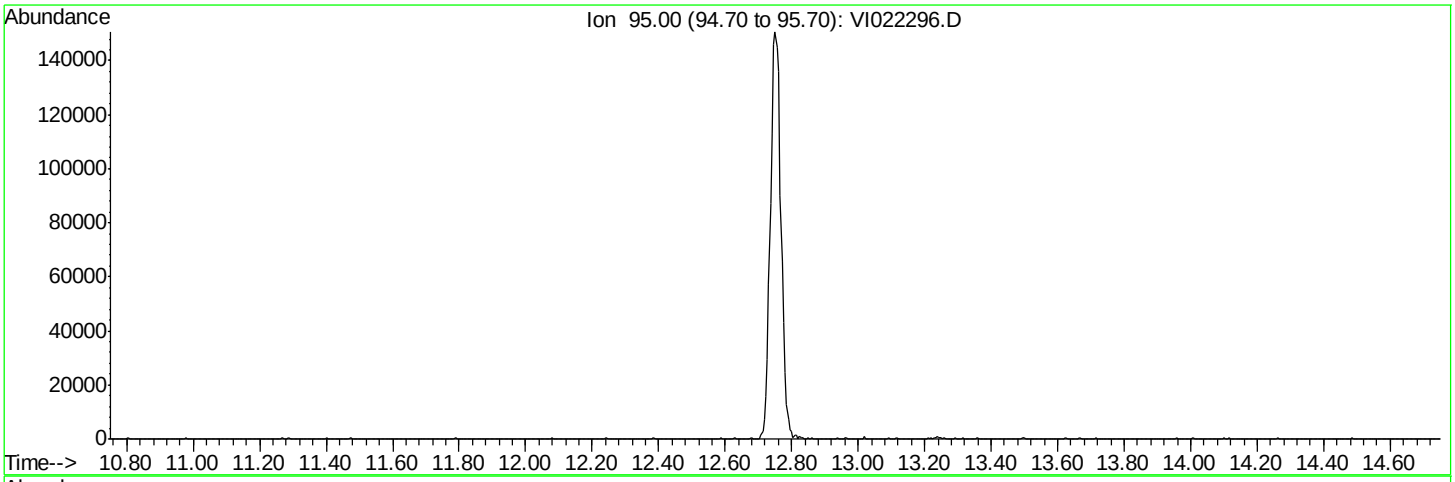
Scan 1420 (16.626 min): VE010471.D\data.ms
BFB TUNE CHECK

m/z	Abundance
35.55	67.0
37.95	133.0
39.90	223.0
41.00	61.0
42.00	59.0
42.80	61.0
44.00	1099.0
45.00	67.0
46.45	74.0
52.45	64.0
56.60	92.0
58.90	126.0
61.10	132.0
62.65	93.0
63.35	175.0
66.05	78.0
66.85	96.0
73.10	254.0
73.80	75.0
78.00	85.0
79.05	105.0
89.00	109.0
89.60	192.0
90.70	106.0
96.05	55.0
96.55	67.0
100.15	167.0
103.40	191.0
110.55	88.0
115.15	67.0
132.95	276.0
144.25	94.0
146.85	110.0
154.30	84.0
154.90	52.0
176.35	55.0
176.85	152.0
178.25	74.0
182.05	58.0
189.30	78.0
190.95	161.0
192.15	98.0
193.15	96.0
200.80	52.0
205.00	122.0
206.95	924.0
208.15	263.0
209.05	168.0
224.05	62.0
226.85	200.0
236.50	58.0
241.95	103.0
246.60	59.0
249.80	76.0
250.50	73.0
260.45	51.0
264.80	170.0
267.10	126.0
268.20	71.0
272.15	84.0
281.10	2138.0
282.10	765.0
283.10	266.0
285.00	71.0
288.65	75.0
294.30	55.0

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022296.D
Acq On : 19 Oct 2008 10:34
Operator : MS
Sample : BFB TUNE CHECK
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Title : TRACE VOA SOM01.0
Last Update : Mon Oct 20 10:33:31 2008



AutoFind: Scans 2063, 2064, 2065; Background Corrected with Scan 2052

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.1	28144	PASS
75	95	30	80	54.9	80832	PASS
95	95	100	100	100.0	147136	PASS
96	95	5	9	7.1	10421	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	78.7	115728	PASS
175	174	5	9	7.4	8536	PASS
176	174	95	101	99.2	114768	PASS
177	176	5	9	5.9	6800	PASS

Scan 2064 (12.751 min): VI022296.D
BFB TUNE CHECK

m/z	Abundance
36.15	1428.0
37.10	7832.0
38.10	5849.0
39.10	3188.0
44.10	1855.0
45.10	1636.0
47.15	1661.0
49.05	6970.0
50.05	27064.0
51.05	7767.0
55.15	944.0
56.15	2834.0
57.10	3635.0
59.10	334.0
60.00	1070.0
61.10	6133.0
62.10	7963.0
63.10	4308.0
64.10	371.0
68.05	17248.0
69.05	18416.0
70.05	1472.0
71.95	845.0
73.05	7048.0
74.05	29288.0
75.15	89496.0
76.05	6893.0
77.20	1066.0
77.90	1164.0
78.90	5998.0
80.10	1877.0
81.00	7660.0
81.90	1711.0
87.10	4060.0
87.95	5768.0
90.85	497.0
91.95	6236.0
93.05	7088.0
94.15	21056.0
95.05	150592.0
96.05	11588.0
96.95	613.0
103.90	1049.0
106.00	902.0
107.00	405.0
110.85	531.0
111.85	617.0
115.85	1278.0
116.95	1161.0
117.85	553.0
118.80	1107.0
121.90	348.0
124.00	456.0
128.10	461.0
129.95	1094.0
130.95	379.0
134.85	1049.0
136.95	755.0
140.90	2967.0
143.00	988.0
147.80	598.0
148.90	304.0
149.85	468.0
156.85	932.0
159.05	436.0
173.95	124592.0
174.95	8748.0
175.95	115168.0
176.95	6893.0
207.10	737.0
207.90	591.0
210.95	518.0
232.95	438.0

Scan 2065 (12.756 min): VI022296.D
BFB TUNE CHECK

m/z	Abundance
36.20	891.0
37.10	5998.0
38.10	5259.0
39.20	3080.0
40.00	320.0
41.00	499.0
44.00	1175.0
45.10	908.0
47.15	1636.0
47.95	1339.0
49.15	6990.0
50.15	26696.0
51.05	7767.0
56.05	1917.0
57.10	3503.0
60.10	1737.0
61.10	7127.0
62.10	6649.0
63.00	5688.0
64.10	608.0
67.05	950.0
68.05	17432.0
69.05	16552.0
70.05	1128.0
72.05	2051.0
73.05	7029.0
74.05	28968.0
75.05	78992.0
76.05	5981.0
77.05	1205.0
77.90	740.0
78.90	4583.0
80.00	2495.0
81.00	7068.0
81.90	1359.0
87.00	4344.0
87.95	4344.0
90.95	879.0
92.05	4741.0
93.05	6742.0
94.15	17768.0
95.05	145024.0
96.05	10582.0
105.10	376.0
105.80	1186.0
115.75	831.0
116.95	1588.0
117.95	1389.0
118.80	902.0
128.85	632.0
129.95	696.0
130.95	571.0
133.05	424.0
134.75	368.0
136.95	696.0
138.25	376.0
140.90	1779.0
141.80	313.0
142.90	2637.0
145.30	343.0
154.75	423.0
155.75	301.0
160.90	431.0
173.95	118984.0
174.95	7941.0
175.95	126640.0
176.85	8007.0
194.85	355.0
207.00	917.0
208.00	421.0
280.85	494.0

Scan 2063 (12.746 min): VI022296.D
BFB TUNE CHECK

m/z	Abundance
36.15	2169.0
37.10	7009.0
38.10	4959.0
39.10	2993.0
44.20	1785.0
45.00	1100.0
47.15	1806.0
47.85	1059.0
49.05	6133.0
50.15	30672.0
51.05	7745.0
55.05	791.0
56.05	2208.0
57.10	2722.0
60.10	2082.0
61.10	8772.0
62.10	7745.0
63.10	7088.0
64.00	467.0
66.95	446.0
68.05	19184.0
69.05	19136.0
70.05	1239.0
72.05	972.0
73.15	9824.0
74.05	29448.0
75.15	74008.0
76.05	7639.0
77.05	891.0
79.00	6704.0
79.80	645.0
81.00	5898.0
82.00	670.0
87.00	4248.0
87.95	4083.0
90.75	444.0
92.05	5172.0
93.05	5752.0
94.15	15975.0
95.05	145792.0
96.05	9093.0
97.05	316.0
104.00	650.0
105.90	628.0
107.10	362.0
111.05	503.0
115.05	399.0
116.95	1186.0
117.95	1139.0
118.90	963.0
128.00	628.0
128.75	476.0
129.85	444.0
136.95	821.0
139.90	385.0
140.80	1331.0
142.90	2875.0
148.90	317.0
154.85	444.0
159.05	615.0
160.90	385.0
173.95	103608.0
174.95	8919.0
175.95	102496.0
176.95	5500.0
177.75	355.0
207.00	950.0
210.75	613.0

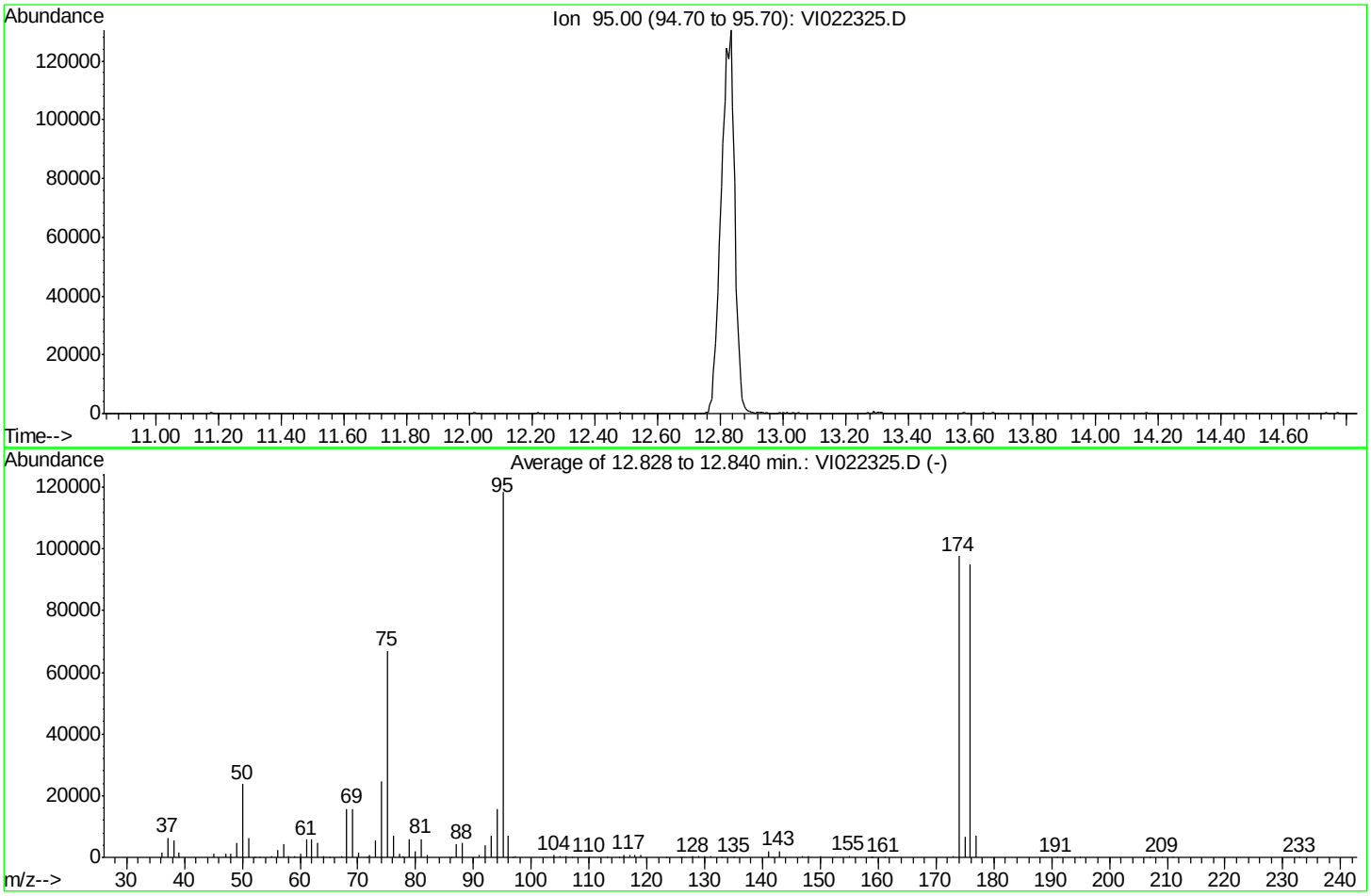
Scan 2052 (12.693 min): VI022296.D
BFB TUNE CHECK

m/z	Abundance
41.10	413.0
44.00	313.0
59.00	472.0
73.05	343.0
76.85	523.0
115.05	317.0
207.20	923.0
208.00	689.0
209.20	402.0
238.75	301.0
251.20	325.0

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022325.D
Acq On : 20 Oct 2008 9:56
Operator : MS
Sample : BFB TUNE CHECK
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 4 Sample Multiplier: 1

Integration File: rteint.p

Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Title : TRACE VOA SOM01.0
Last Update : Mon Oct 20 10:33:31 2008



AutoFind: Scans 1615, 1616, 1617; Background Corrected with Scan 1600

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	23778	PASS
75	95	30	80	56.5	66960	PASS
95	95	100	100	100.0	118418	PASS
96	95	5	9	6.0	7101	PASS
173	174	0.00	2	0.3	306	PASS
174	95	50	120	82.5	97693	PASS
175	174	5	9	6.7	6518	PASS
176	174	95	101	97.4	95194	PASS
177	176	5	9	7.4	7003	PASS

Scan 1616 (12.834 min): VI022325.D
BFB TUNE CHECK

m/z	Abundance
36.15	1365.0
37.10	7188.0
38.10	7431.0
39.10	1733.0
43.00	411.0
44.10	601.0
45.10	1098.0
47.15	1236.0
47.95	759.0
49.15	5129.0
50.05	23744.0
51.05	7089.0
53.05	357.0
55.15	342.0
56.15	2615.0
57.10	4988.0
57.90	478.0
59.00	375.0
60.00	1295.0
61.10	5866.0
62.10	5949.0
63.10	5899.0
67.15	344.0
68.05	16375.0
69.05	16640.0
70.05	1495.0
72.05	700.0
73.05	5626.0
74.05	25552.0
75.05	68408.0
76.05	6540.0
77.15	1287.0
77.90	517.0
78.90	7942.0
80.00	2555.0
80.90	5187.0
82.00	1184.0
87.10	3135.0
87.95	6307.0
91.05	835.0
92.05	4154.0
93.05	6220.0
94.05	15417.0
95.05	130472.0
96.05	6290.0
97.15	447.0
104.00	746.0
106.10	406.0
110.05	303.0
113.15	309.0
115.95	588.0
116.95	1381.0
117.95	484.0
118.90	1589.0
125.80	419.0
128.85	386.0
130.05	325.0
141.00	1191.0
142.90	2016.0
147.90	389.0
149.95	416.0
155.05	383.0
158.85	360.0
161.00	493.0
173.95	100568.0
174.95	5689.0
175.95	98944.0
176.95	6521.0
190.85	432.0
207.00	738.0
210.95	578.0
232.85	449.0

Scan 1617 (12.840 min): VI022325.D
BFB TUNE CHECK

m/z	Abundance
36.15	1486.0
37.10	5641.0
38.10	4457.0
39.10	1697.0
44.10	803.0
45.10	918.0
47.15	909.0
48.05	1541.0
49.05	4755.0
50.05	20824.0
51.05	5949.0
52.15	321.0
55.15	377.0
56.15	2843.0
57.10	3162.0
57.90	457.0
60.10	792.0
61.10	5395.0
62.00	5072.0
63.10	4333.0
64.00	344.0
65.10	310.0
67.05	417.0
68.05	14084.0
69.05	12865.0
70.05	973.0
71.95	880.0
73.05	5721.0
74.05	20320.0
75.15	55800.0
76.15	6594.0
77.05	973.0
77.90	435.0
78.80	4309.0
80.00	1299.0
81.00	5626.0
81.90	425.0
86.20	389.0
87.00	4237.0
87.95	3992.0
91.05	651.0
92.05	3189.0
93.05	6117.0
94.05	12211.0
95.05	104176.0
96.15	8142.0
96.85	340.0
103.90	852.0
104.90	841.0
106.00	478.0
116.05	855.0
116.95	738.0
117.95	1158.0
118.80	528.0
123.40	326.0
128.00	404.0
132.95	570.0
140.90	2202.0
141.70	317.0
142.90	1574.0
149.95	306.0
154.85	502.0
159.05	429.0
173.95	89736.0
174.95	6856.0
175.95	88768.0
176.95	7986.0
207.00	622.0
208.00	390.0
210.95	631.0

Scan 1615 (12.828 min): VI022325.D
BFB TUNE CHECK

m/z	Abundance
36.05	1455.0
37.10	6168.0
38.10	4904.0
39.10	2653.0
44.10	1386.0
45.10	1040.0
47.15	1084.0
48.15	1295.0
49.05	4225.0
50.05	26768.0
51.05	7069.0
55.05	642.0
56.15	1692.0
57.10	4649.0
58.00	560.0
59.10	489.0
60.00	1137.0
61.10	6342.0
62.10	6342.0
63.10	4201.0
64.20	667.0
68.05	16920.0
69.05	17968.0
70.05	2089.0
71.65	343.0
72.15	513.0
73.05	7010.0
74.05	27504.0
75.05	76672.0
76.05	7725.0
77.05	948.0
77.80	328.0
78.90	6272.0
80.00	1555.0
81.00	7148.0
81.90	903.0
87.00	5610.0
88.05	3625.0
90.95	942.0
92.05	4038.0
93.05	8394.0
94.05	19448.0
95.05	120608.0
96.15	8097.0
97.15	790.0
104.00	582.0
106.00	707.0
107.10	330.0
115.15	362.0
115.85	800.0
117.05	736.0
117.95	406.0
118.80	607.0
126.10	343.0
128.00	558.0
128.95	471.0
129.95	592.0
130.95	777.0
135.05	582.0
141.00	2460.0
142.90	2411.0
146.90	863.0
147.90	305.0
155.05	353.0
172.95	918.0
173.95	102776.0
175.05	7010.0
175.95	97872.0
176.95	6503.0
194.95	317.0
207.00	1126.0
209.10	356.0

Scan 1600 (12.738 min): VI022325.D
BFB TUNE CHECK

m/z	Abundance
39.10	336.0
41.10	459.0
43.10	572.0
44.00	982.0
51.15	301.0
68.75	343.0
73.05	819.0
78.20	378.0
78.80	354.0
95.95	408.0
207.10	819.0
208.00	310.0
210.95	342.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: VBE1017W2

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: VE010474.D

Level (TRACE/LOW/MED): LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/17/2008

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4 -Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: VBE1017W2

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: VE010474.D

Level (TRACE/LOW/MED): LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/17/2008

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBE1017W2

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: VE010474.D

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/17/2008

GC Column: ZB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Purge Volume: 5 (mL)

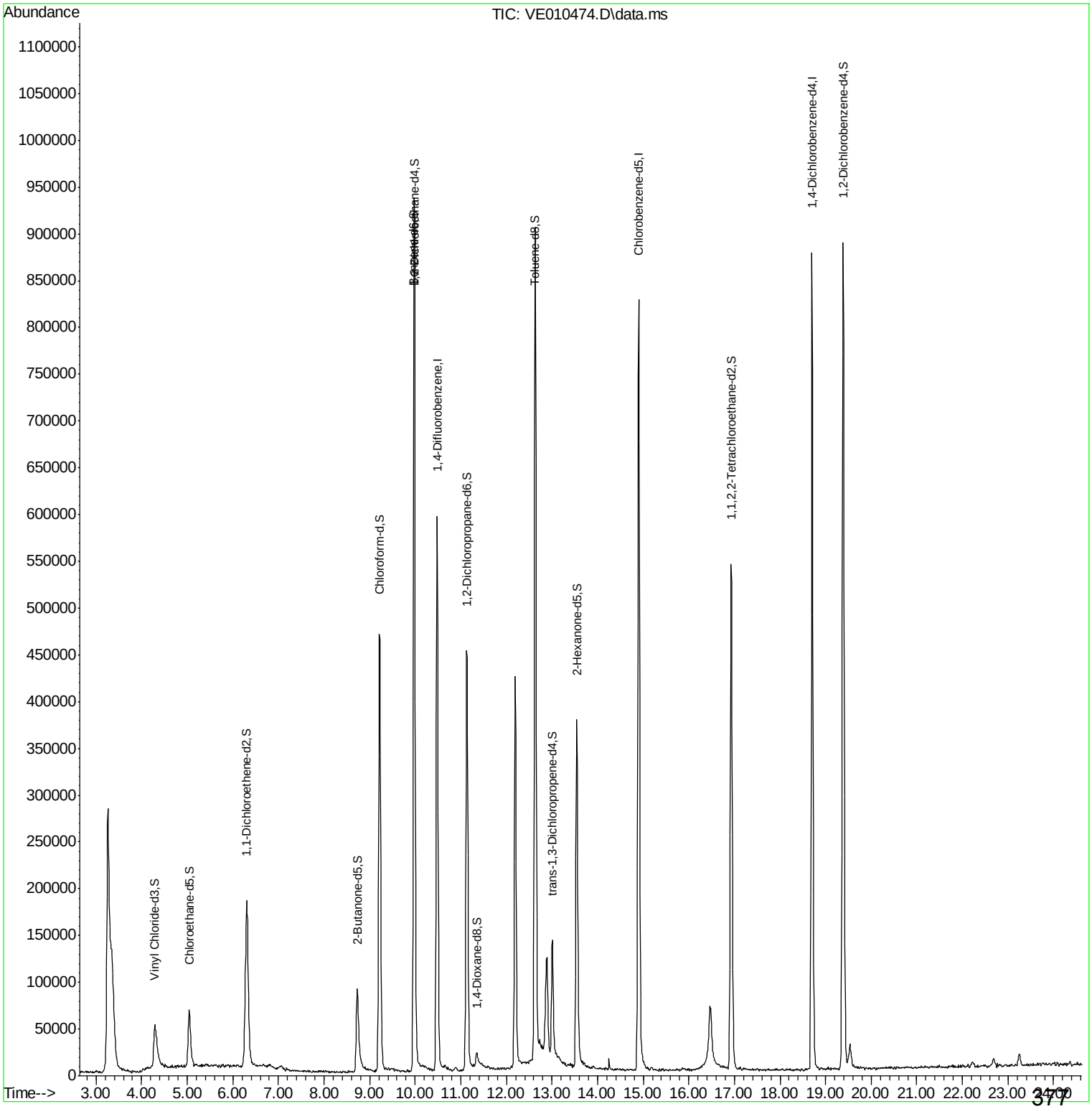
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.					
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[1]E966796	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Quantitation Report (LSC Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010474.D
Acq On : 17 Oct 2008 12:04
Operator : SY
Sample : VBE1017W2
Misc : 5ML, MSVOAE
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 17 12:45:50 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration



Quantitation Report (LSC Reviewed)

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010474.D
Acq On : 17 Oct 2008 12:04
Operator : SY
Sample : VBE1017W2
Misc : 5ML, MSVOAE
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 17 12:45:50 2008
Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 16 18:50:12 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	10.485	114	700502	50.00	ug/L	-0.06
30) Chlorobenzene-d5	14.900	117	770294	50.00	ug/L	-0.06
61) 1,4-Dichlorobenzene-d4	18.703	152	414367	50.00	ug/L	-0.07
System Monitoring Compounds						
4) Vinyl Chloride-d3	4.287	65	146871	48.53	ug/L	-0.04
Spiked Amount 50.000			Recovery = 97.06%			
6) Chloroethane-d5	5.046	69	110194	60.30	ug/L	-0.04
Spiked Amount 50.000			Recovery = 120.60%			
10) 1,1-Dichloroethene-d2	6.308	63	328710	44.60	ug/L	-0.05
Spiked Amount 50.000			Recovery = 89.20%			
20) 2-Butanone-d5	8.732	46	216370	100.33	ug/L	-0.06
Spiked Amount 100.000			Recovery = 100.33%			
21) Chloroform-d	9.224	84	569888	56.75	ug/L	-0.06
Spiked Amount 50.000			Recovery = 113.50%			
24) 1,2-Dichloroethane-d4	9.983	65	392648	59.22	ug/L	-0.06
Spiked Amount 50.000			Recovery = 118.44%			
27) 1,4-Dioxane-d8	11.353	96	37703	671.47	ug/L	-0.06
Spiked Amount 1250.000			Recovery = 53.72%			
31) Benzene-d6	9.973	84	868882	52.43	ug/L	-0.06
Spiked Amount 50.000			Recovery = 104.86%			
36) 1,2-Dichloropropane-d6	11.126	67	289209	46.77	ug/L	-0.07
Spiked Amount 50.000			Recovery = 93.54%			
38) trans-1,3-Dichloroprop...	13.008	79	108137	49.58	ug/L	-0.06
Spiked Amount 50.000			Recovery = 99.16%			
39) Toluene-d8	12.624	98	917856	51.76	ug/L	-0.07
Spiked Amount 50.000			Recovery = 103.52%			
41) 2-Hexanone-d5	13.540	63	207102	98.42	ug/L	-0.07
Spiked Amount 100.000			Recovery = 98.42%			
50) 1,1,2,2-Tetrachloroeth...	16.930	84	495817	49.73	ug/L	-0.07
Spiked Amount 50.000			Recovery = 99.46%			
62) 1,2-Dichlorobenzene-d4	19.383	152	442759	55.06	ug/L	-0.07
Spiked Amount 50.000			Recovery = 110.12%			

Target Compounds Qvalue

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

LSC Area Percent Report

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010474.D
Acq On : 17 Oct 2008 12:04
Operator : SY
Sample : VBE1017W2
Misc : 5ML, MSVOAE
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Title : TRACE VOA SOM01.0

Signal : TIC: VE010474.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.263	49	64	86	rBV	282422	1772447	64.68%	7.029%
2	4.287	162	168	182	rBV	44655	218414	7.97%	0.866%
3	5.046	236	245	255	rVB	61103	233226	8.51%	0.925%
4	6.308	362	373	387	rBV3	178192	896257	32.71%	3.554%
5	8.732	611	619	635	rBV	89416	377631	13.78%	1.498%
6	9.214	661	668	680	rBV	467717	1400760	51.12%	5.555%
7	9.973	738	745	759	rBV	933138	2740159	100.00%	10.867%
8	10.485	790	797	807	rBV	592481	1617402	59.03%	6.414%
9	11.126	854	862	876	rBV	448942	1366109	49.86%	5.418%
10	11.353	879	885	890	rBV4	15097	57021	2.08%	0.226%
11	12.190	964	970	980	rBV	416927	1111730	40.57%	4.409%
12	12.624	1008	1014	1022	rBV	890217	2430302	88.69%	9.638%
13	12.890	1033	1041	1048	rVB	101463	365671	13.34%	1.450%
14	13.008	1048	1053	1060	rVB	121879	328150	11.98%	1.301%
15	13.540	1101	1107	1119	rBV2	370418	1086985	39.67%	4.311%
16	14.900	1238	1245	1255	rBV	823979	2248192	82.05%	8.916%
17	16.467	1390	1404	1421	rVB3	64747	357897	13.06%	1.419%
18	16.930	1444	1451	1465	rBV	539334	1589257	58.00%	6.302%
19	18.704	1625	1631	1639	rBV	872120	2333504	85.16%	9.254%
20	19.383	1693	1700	1709	rBV	881856	2521751	92.03%	10.000%
21	19.531	1709	1715	1722	rVB	24536	84520	3.08%	0.335%
22	22.684	2029	2035	2041	rVB5	9053	34627	1.26%	0.137%
23	23.246	2086	2092	2100	rBV8	12704	44437	1.62%	0.176%

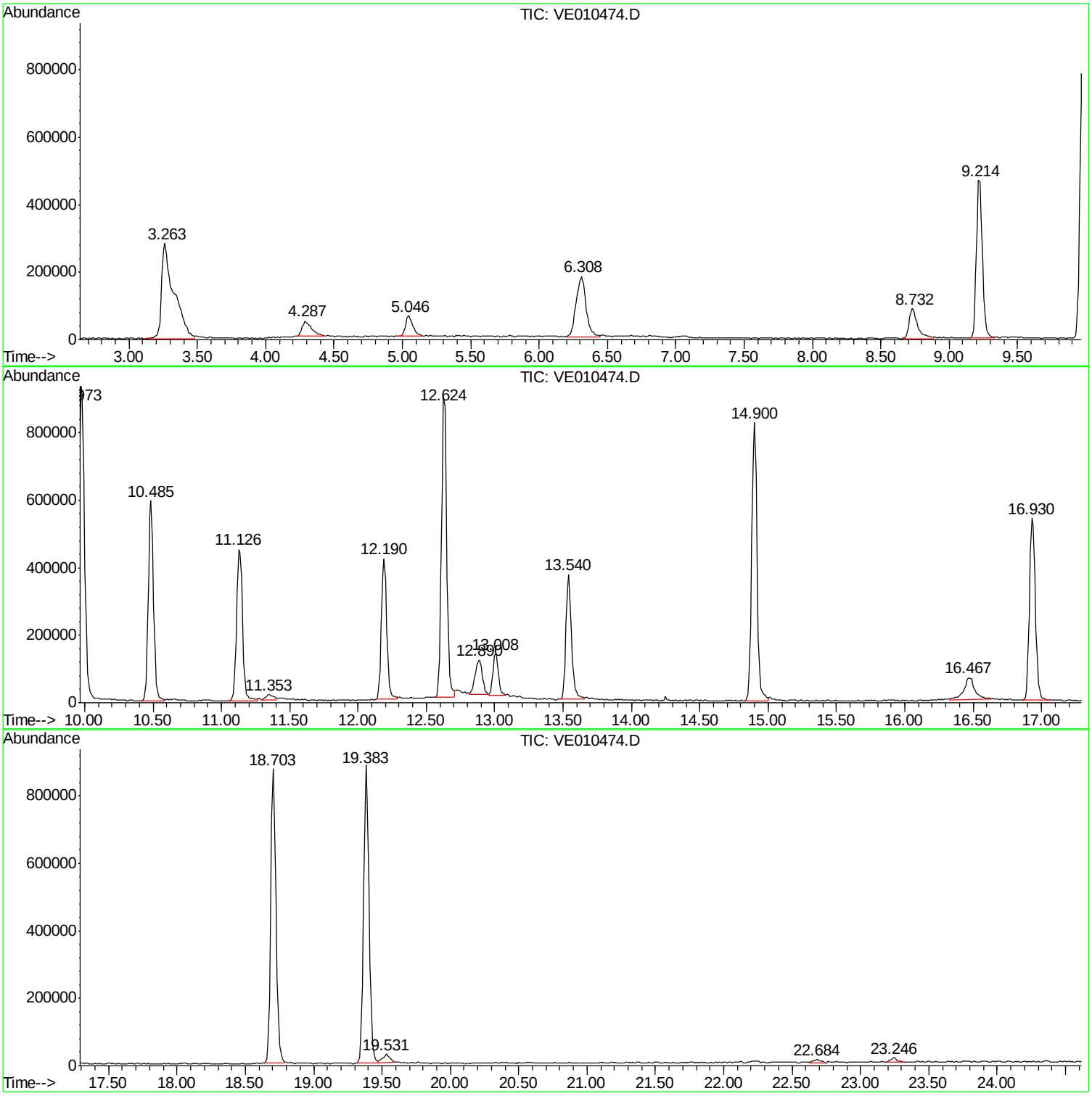
Sum of corrected areas: 25216449

LSC Report - Integrated Chromatogram

Data Path : W:\HPCHEM1\Msvoa_E\Data\VE101708\
Data File : VE010474.D
Acq On : 17 Oct 2008 12:04
Operator : SY
Sample : VBE1017W2
Misc : 5ML, MSVOAE
ALS Vial : 4 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\Msvoa_E\Method\SOMELMW101608.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (RSC) Library Search Report summary

```
DataPath::WW\NPCHEM1MsvoaEDataVE1007088\
DataFile::VE0104744DD
AcqOn   ::17 Oct 2008 12:04
Operator ::SY
Sample   ::VBE1017702
Misc     ::5ML,MSVOAE
ALSVial ::44  SampleMultiplier:11

QuantMethod::WW\NPCHEM1MsvoaEMethodSOMELMW101608MM
QuantTitle ::TRACEVOASOM0100

TICLibrary  ::C:\DATABASE\NIST02LL
TICIntegrationParameters:LSCINTP

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

No Library Search Compounds Detected
****

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: VBI1019S2

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022304.D

Level (TRACE/LOW/MED): LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4 -Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: VBI1019S2

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022304.D

Level (TRACE/LOW/MED): LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: VBI1019S2

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022304.D

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/19/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg Purge Volume: 10 (mL)

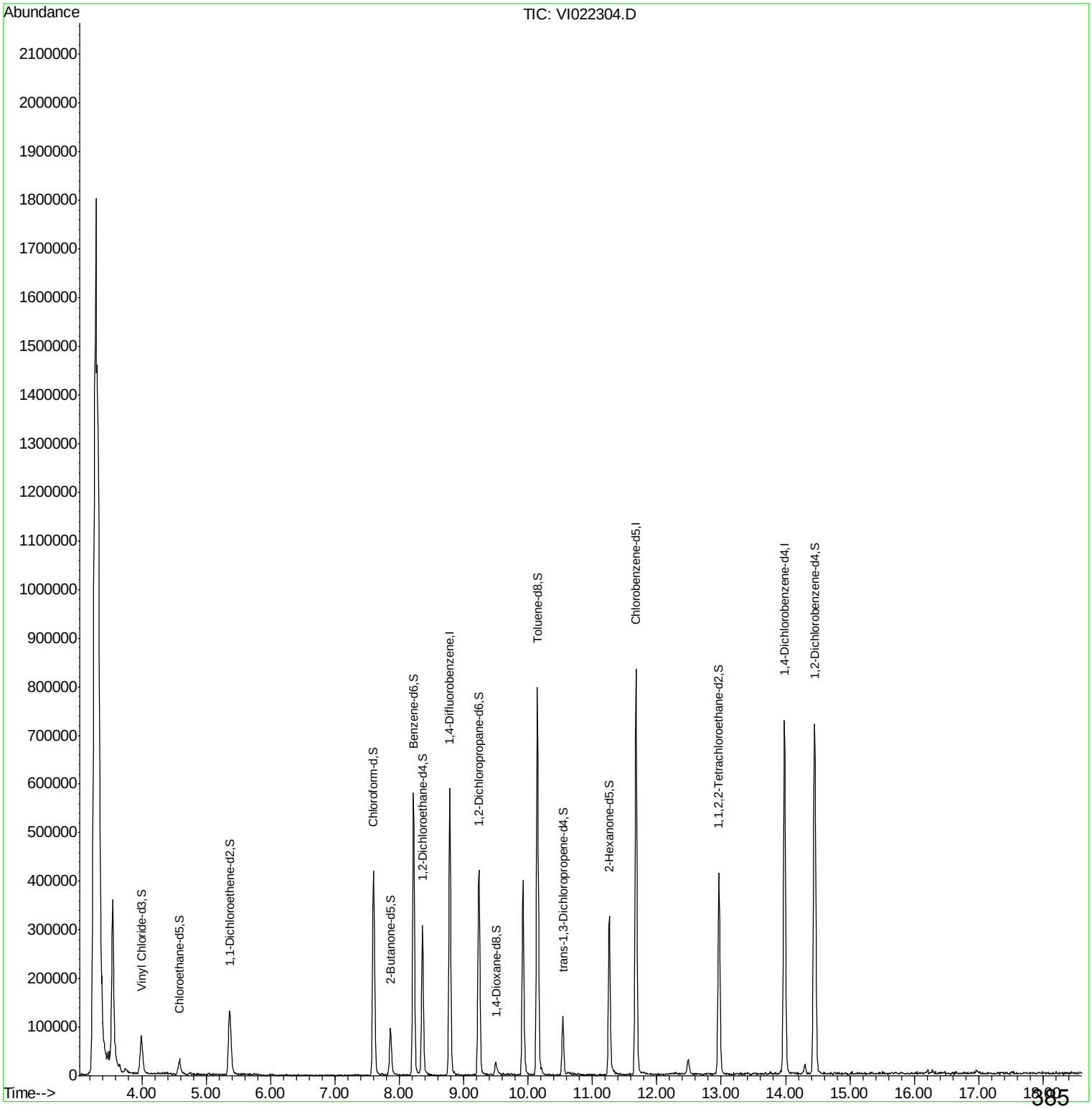
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.					
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[1]E966796	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022304.D
Acq On : 19 Oct 2008 14:38
Operator : MS
Sample : VBI1019S2
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 9 Sample Multiplier: 1

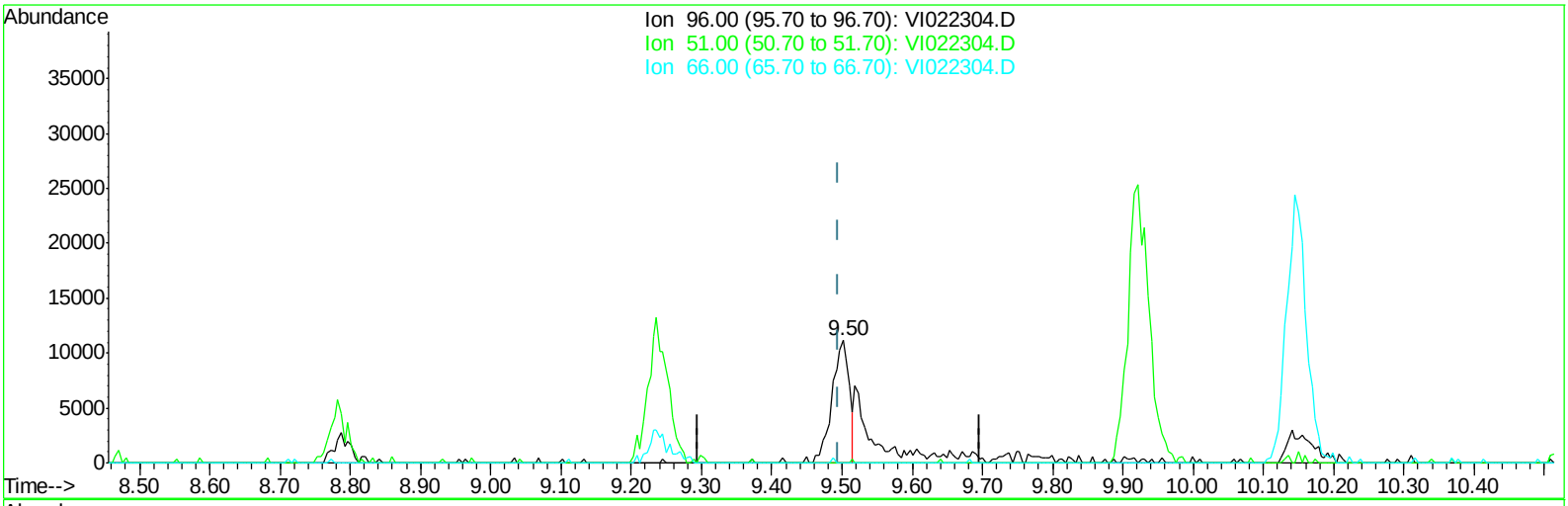
Quant Time: Oct 20 10:39:02 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

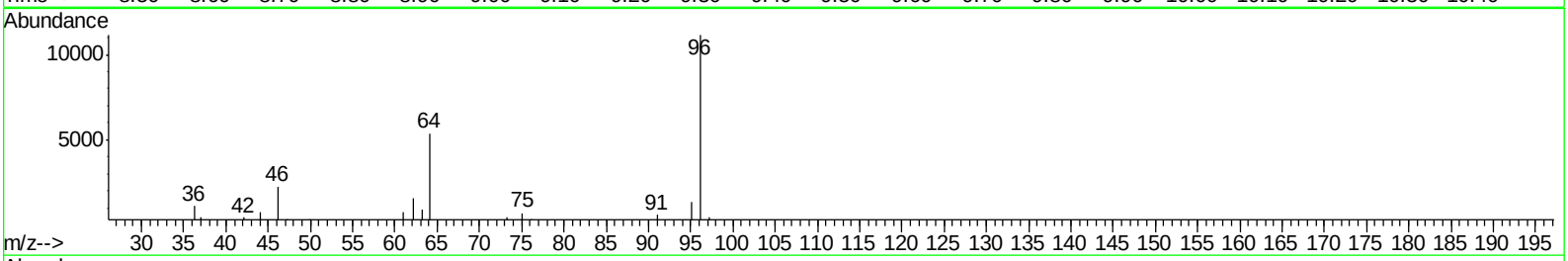


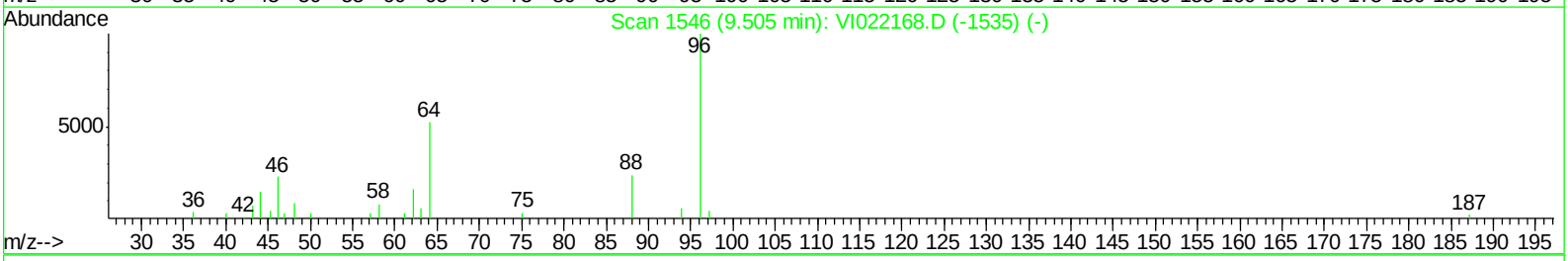
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022304.D
Acq On : 19 Oct 2008 14:38
Operator : MS
Sample : VBI1019S2
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 20 10:37:32 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022304.D

(28) 1,4-Dioxane-d8 (S)

9.501min (+0.005) 649.29ug/L

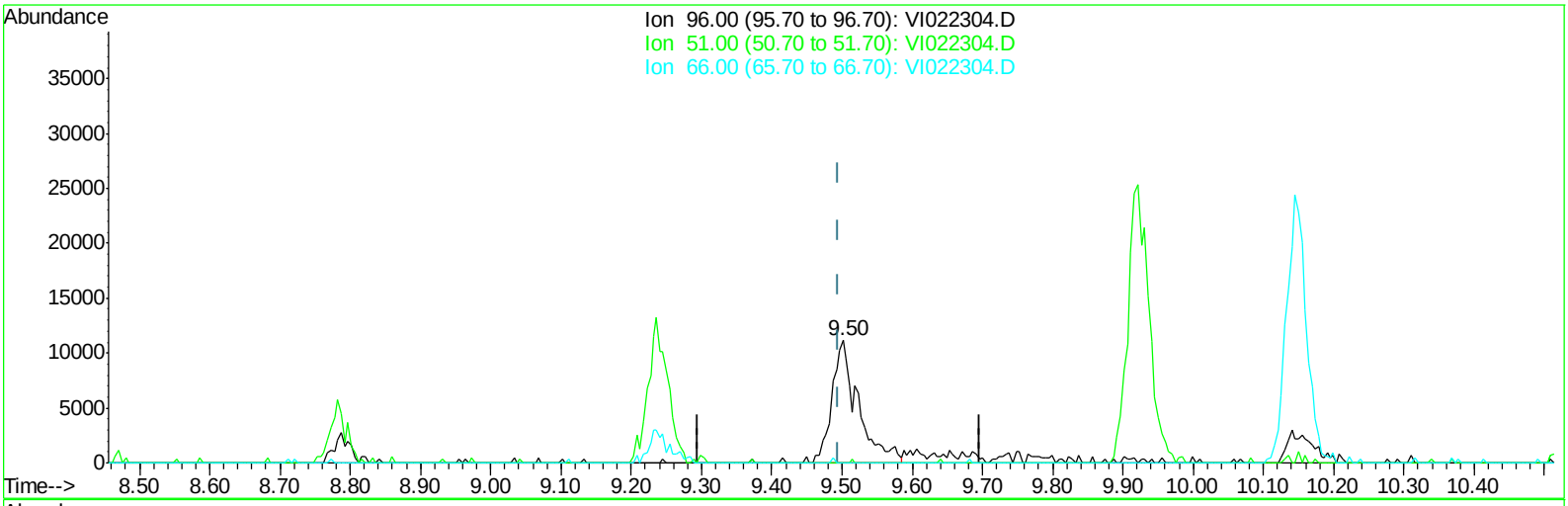
response 19130

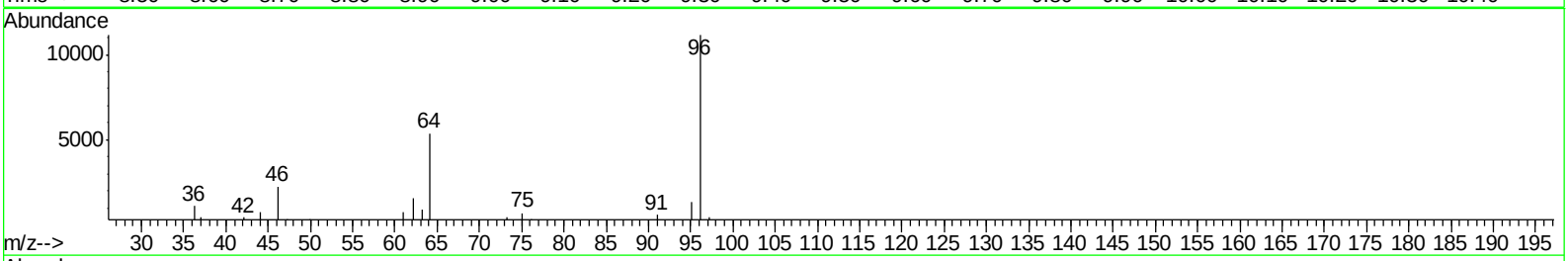
Ion	Exp%	Act%
96.00	100	100
51.00	0.00	0.00
66.00	0.00	0.00
0.00	0.00	0.00

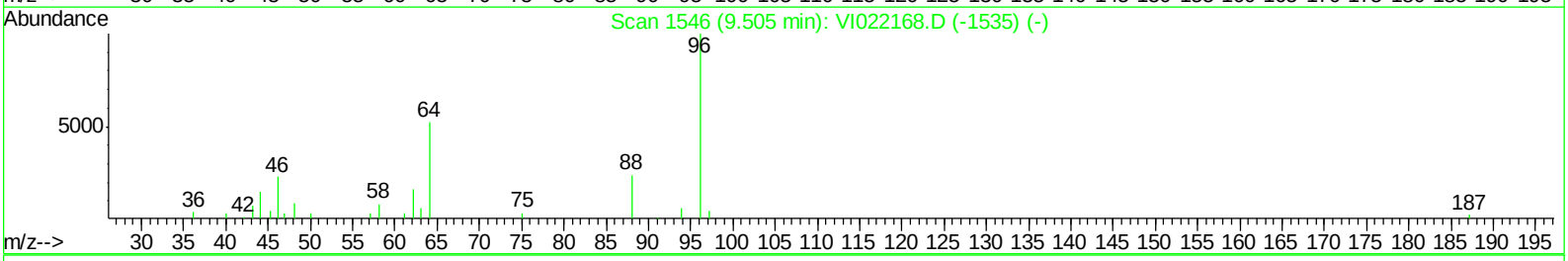
Quantitation Report (Qedit)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022304.D
Acq On : 19 Oct 2008 14:38
Operator : MS
Sample : VBI1019S2
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 20 10:37:32 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration







TIC: VI022304.D

(28) 1,4-Dioxane-d8 (S)

9.501min (+0.005) 982.45ug/L m

response 28946

Ion	Exp%	Act%
96.00	100	100
51.00	0.00	0.00
66.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022304.D
Acq On : 19 Oct 2008 14:38
Operator : MS
Sample : VBI1019S2
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 20 10:39:02 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	8.78	114	488941	50.00 ug/L	0.00
30) Chlorobenzene-d5	11.67	117	519632	50.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	13.98	152	257592	50.00 ug/L	0.00
System Monitoring Compounds					
4) Vinyl Chloride-d3	3.99	65	152046	51.11 ug/L	0.00
7) Chloroethane-d5	4.59	69	43094	62.10 ug/L	0.00
10) 1,1-Dichloroethene-d2	5.37	63	144650	43.09 ug/L	0.00
22) Chloroform-d	7.60	84	432255	48.02 ug/L	0.00
24) 2-Butanone-d5	7.87	46	137375	129.95 ug/L	0.00
26) 1,2-Dichloroethane-d4	8.36	65	272971	57.74 ug/L	0.00
28) 1,4-Dioxane-d8	9.50	96	28946m	982.45 ug/L	0.00
34) Benzene-d6	8.22	84	605869	54.47 ug/L	0.00
38) 1,2-Dichloropropane-d6	9.24	67	206749	58.07 ug/L	0.00
42) Toluene-d8	10.15	98	558759	51.53 ug/L	0.00
45) trans-1,3-Dichloropropene-	10.54	79	81654	53.06 ug/L	0.00
51) 2-Hexanone-d5	11.27	63	148572	117.70 ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	12.96	84	277484	53.95 ug/L	0.00
65) 1,2-Dichlorobenzene-d4	14.45	152	259224	53.40 ug/L	0.00

Target Compounds Qvalue

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

LSC Area Percent Report

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022304.D
Acq On : 19 Oct 2008 14:38
Operator : MS
Sample : VBI1019S2
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.279	35	52	53	rBV	1499131	3378745	100.00%	17.456%
2	3.289	53	54	56	rVB	378102	197938	5.86%	1.023%
3	3.551	100	110	122	rVB3	329474	760837	22.52%	3.931%
4	3.994	192	203	204	rBV2	79329	143295	4.24%	0.740%
5	4.590	318	330	339	rBV2	34629	87422	2.59%	0.452%
6	5.365	479	493	508	rBV3	132851	406196	12.02%	2.099%
7	7.596	957	967	981	rBV	419972	971992	28.77%	5.022%
8	7.865	1015	1025	1039	rBV2	96421	221883	6.57%	1.146%
9	8.222	1091	1102	1116	rBV2	579392	1218950	36.08%	6.298%
10	8.359	1120	1130	1143	rVV2	304451	629635	18.64%	3.253%
11	8.782	1209	1218	1229	rBV2	590179	1188860	35.19%	6.142%
12	9.236	1306	1316	1335	rBV2	421202	967340	28.63%	4.998%
13	9.501	1360	1371	1379	rBV3	27470	64382	1.91%	0.333%
14	9.921	1452	1461	1472	rBV	399971	777507	23.01%	4.017%
15	10.145	1498	1507	1520	rBV2	798005	1557900	46.11%	8.049%
16	10.543	1583	1591	1600	rBV3	119845	234521	6.94%	1.212%
17	11.261	1734	1743	1755	rBV2	326521	680169	20.13%	3.514%
18	11.679	1820	1831	1845	rBV	834212	1651846	48.89%	8.534%
19	12.481	1993	2002	2003	rBV2	27241	35176	1.04%	0.182%
20	12.962	2092	2102	2116	rBV	413787	909453	26.92%	4.699%
21	13.984	2310	2321	2333	rBV2	725365	1585403	46.92%	8.191%
22	14.453	2405	2420	2431	rBV2	720383	1686049	49.90%	8.711%

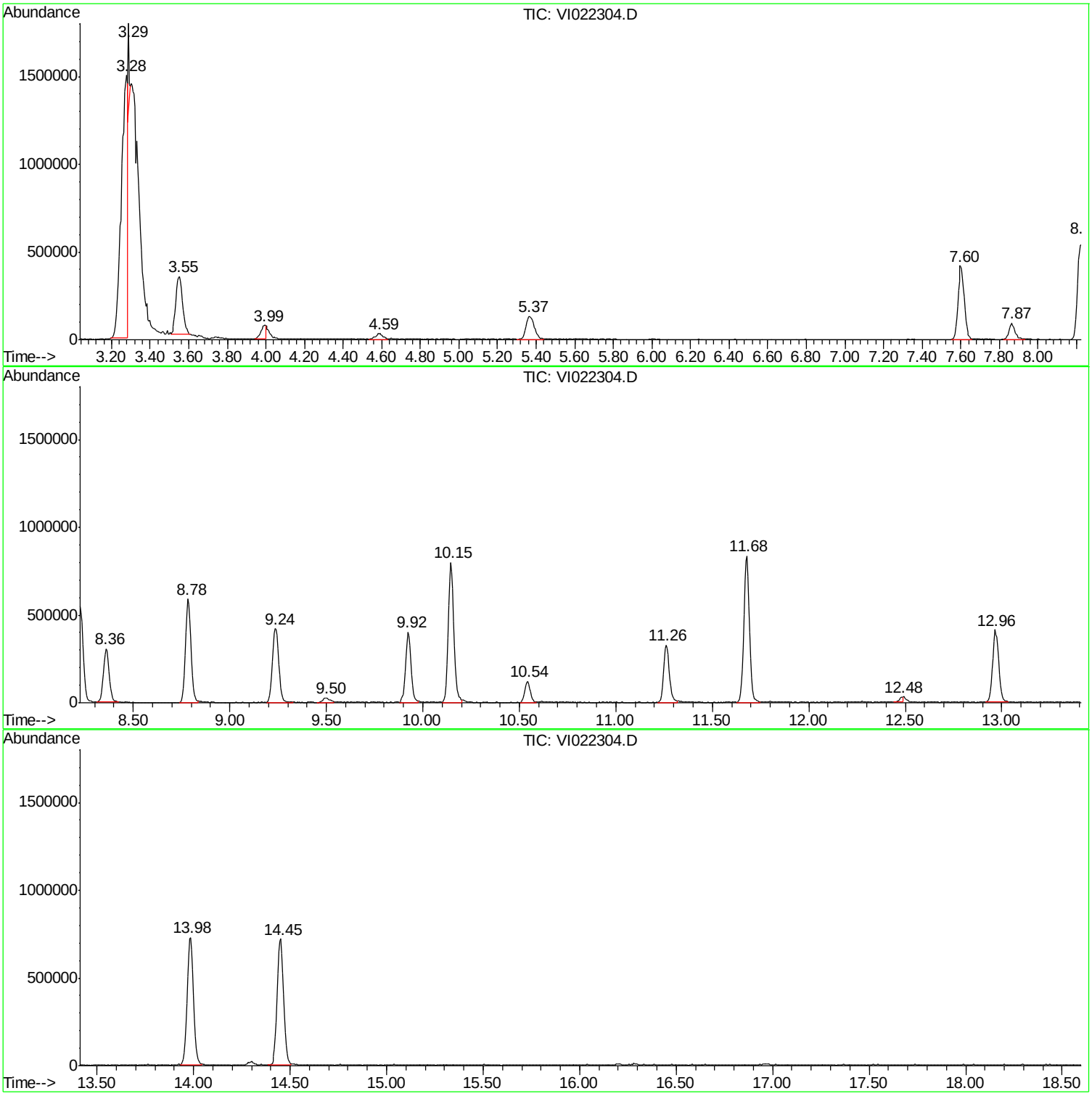
Sum of corrected areas: 19355499

LSC Report - Integrated Chromatogram

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI101908\
Data File : VI022304.D
Acq On : 19 Oct 2008 14:38
Operator : MS
Sample : VBI1019S2
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 9 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (RPC) Library Search Report summary

```
DataPath ::WW\NPCHEM1MSvoaIDataVI1019008\
DataFile ::VI022004DD
AcqOn    ::19Oct2008 14:38
Operator ::MS
Sample   ::VBI101982
Misc     ::5500g/5mL/100mLpurge,MSVOAI
ALSVial  ::99  SampleMultiplier:11

QuantMethod ::WW\NPCHEM1MSVOAIMETHODSOMILM101908SMM
QuantTitle ::TRACEVOASOM0100

TICLibrary  ::C:\DATABASE\NIST02LL
TICIntegrationParameters:LSCINTPP
```

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

No Library Search Compounds Detected
****

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: VBI1020S1

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022327.D

Level (TRACE/LOW/MED): LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-Butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	U

Report 1,4 -Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: VBI1020S1

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022327.D

Level (TRACE/LOW/MED): LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK03

Lab Name: Chemtech Contract: DEWB01

Lab Code: CHEM Case No.: Z4983 Mod. Ref No.: Z4983 SDG No.: Z4983

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: VBI1020S1

Sample wt/vol: 5.00 (g/mL) g Lab File ID: VI022327.D

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/20/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg Purge Volume: 10 (mL)

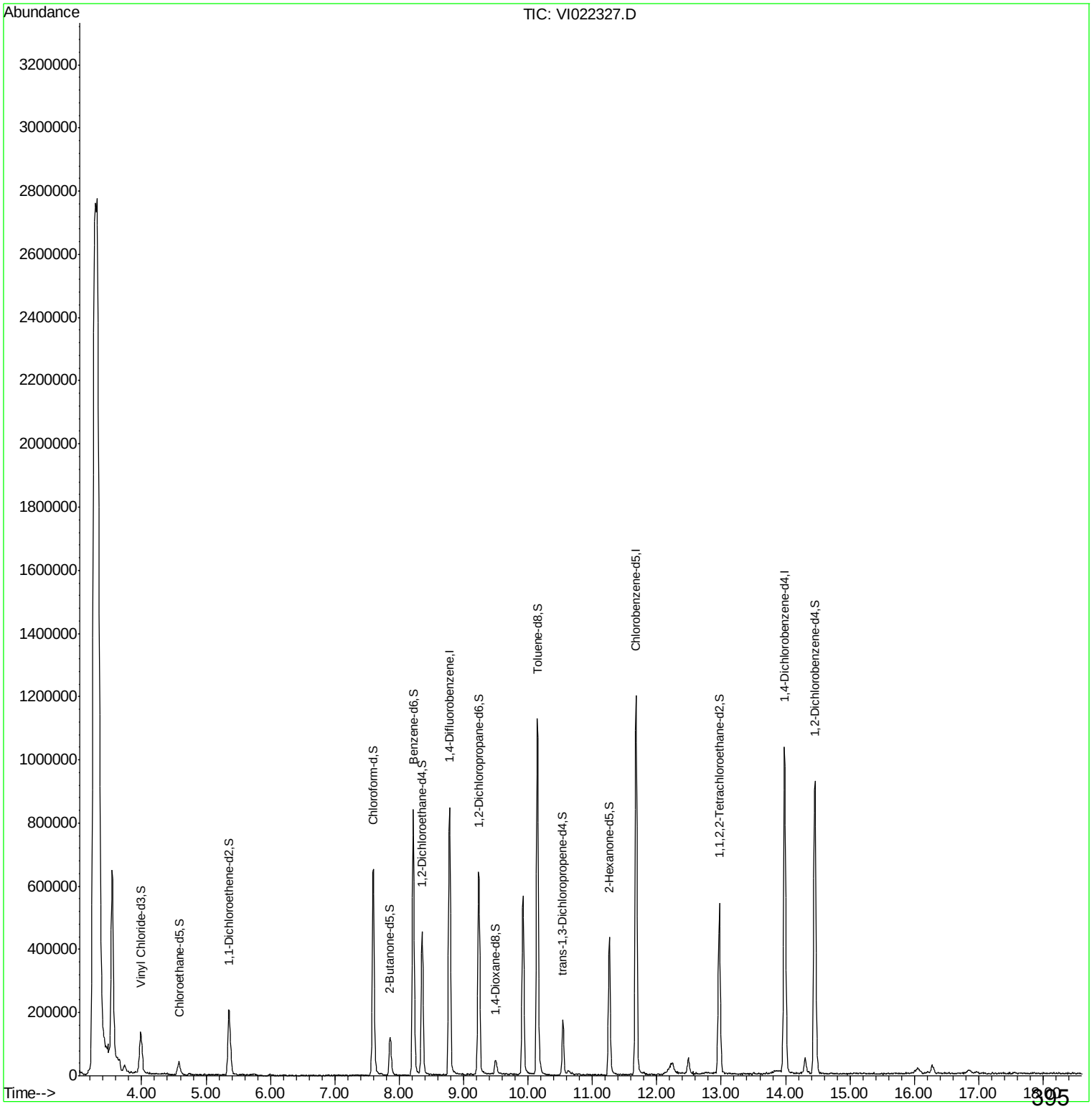
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	000075-37-6	Ethane, 1,1-difluoro-	3.54	40	JN
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[1]E966796	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022327.D
Acq On : 20 Oct 2008 11:30
Operator : MS
Sample : VBI1020S1
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 12:02:50 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration



Quantitation Report (QT/LSC Reviewed)

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022327.D
Acq On : 20 Oct 2008 11:30
Operator : MS
Sample : VBI1020S1
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 12:02:50 2008
Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 20 10:33:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	8.78	114	707834	50.00 ug/L	0.00
30) Chlorobenzene-d5	11.68	117	739763	50.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	13.98	152	358882	50.00 ug/L	0.00
System Monitoring Compounds					
4) Vinyl Chloride-d3	3.99	65	252374	58.60 ug/L	0.00
7) Chloroethane-d5	4.59	69	61232	60.95 ug/L	0.00
10) 1,1-Dichloroethene-d2	5.35	63	210441	43.31 ug/L	0.00
22) Chloroform-d	7.60	84	662097	50.80 ug/L	0.00
24) 2-Butanone-d5	7.86	46	172636	112.80 ug/L	0.00
26) 1,2-Dichloroethane-d4	8.35	65	419511	61.30 ug/L	0.00
28) 1,4-Dioxane-d8	9.50	96	46043	1079.47 ug/L	0.00
34) Benzene-d6	8.22	84	884468	55.85 ug/L	0.00
38) 1,2-Dichloropropane-d6	9.23	67	308935	60.95 ug/L	0.00
42) Toluene-d8	10.14	98	801772	51.94 ug/L	0.00
45) trans-1,3-Dichloropropene-	10.54	79	131171	59.88 ug/L	0.00
51) 2-Hexanone-d5	11.26	63	195792	108.95 ug/L	0.00
59) 1,1,2,2-Tetrachloroethane-	12.97	84	378036	51.63 ug/L	0.00
65) 1,2-Dichlorobenzene-d4	14.46	152	334291	49.43 ug/L	0.00

Target Compounds Qvalue

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

LSC Area Percent Report

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022327.D
Acq On : 20 Oct 2008 11:30
Operator : MS
Sample : VBI1020S1
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.286	24	41	43	rBV	2745152	9935096	100.00%	29.508%
2	3.540	76	83	95	rVB	592586	1422468	14.32%	4.225%
3	3.985	147	156	163	rBV2	127763	368297	3.71%	1.094%
4	4.579	245	254	261	rBV2	41966	116035	1.17%	0.345%
5	5.354	371	381	392	rBV3	206257	571413	5.75%	1.697%
6	7.598	736	747	763	rBV	653299	1551313	15.61%	4.607%
7	7.857	782	789	800	rVB	119752	278303	2.80%	0.827%
8	8.218	839	848	861	rBV	843687	1859573	18.72%	5.523%
9	8.355	861	871	884	rVB2	449631	956219	9.62%	2.840%
10	8.781	933	941	952	rBV2	847481	1759488	17.71%	5.226%
11	9.234	1006	1015	1029	rBV	639918	1442780	14.52%	4.285%
12	9.496	1051	1058	1069	rBV4	46160	126887	1.28%	0.377%
13	9.922	1119	1128	1141	rBV2	565724	1150917	11.58%	3.418%
14	10.144	1156	1164	1180	rBV	1124757	2299915	23.15%	6.831%
15	10.538	1220	1229	1239	rBV	175255	368504	3.71%	1.094%
16	11.262	1341	1348	1361	rBV	436621	918766	9.25%	2.729%
17	11.679	1407	1416	1427	rBV	1198970	2486444	25.03%	7.385%
18	12.493	1544	1550	1557	rVB3	50399	108315	1.09%	0.322%
19	12.972	1621	1629	1637	rBV	538425	1224737	12.33%	3.638%
20	13.984	1786	1795	1809	rVB	1033894	2339017	23.54%	6.947%
21	14.304	1840	1847	1854	rBV2	48370	108753	1.09%	0.323%
22	14.458	1862	1872	1884	rBV2	925838	2276152	22.91%	6.760%

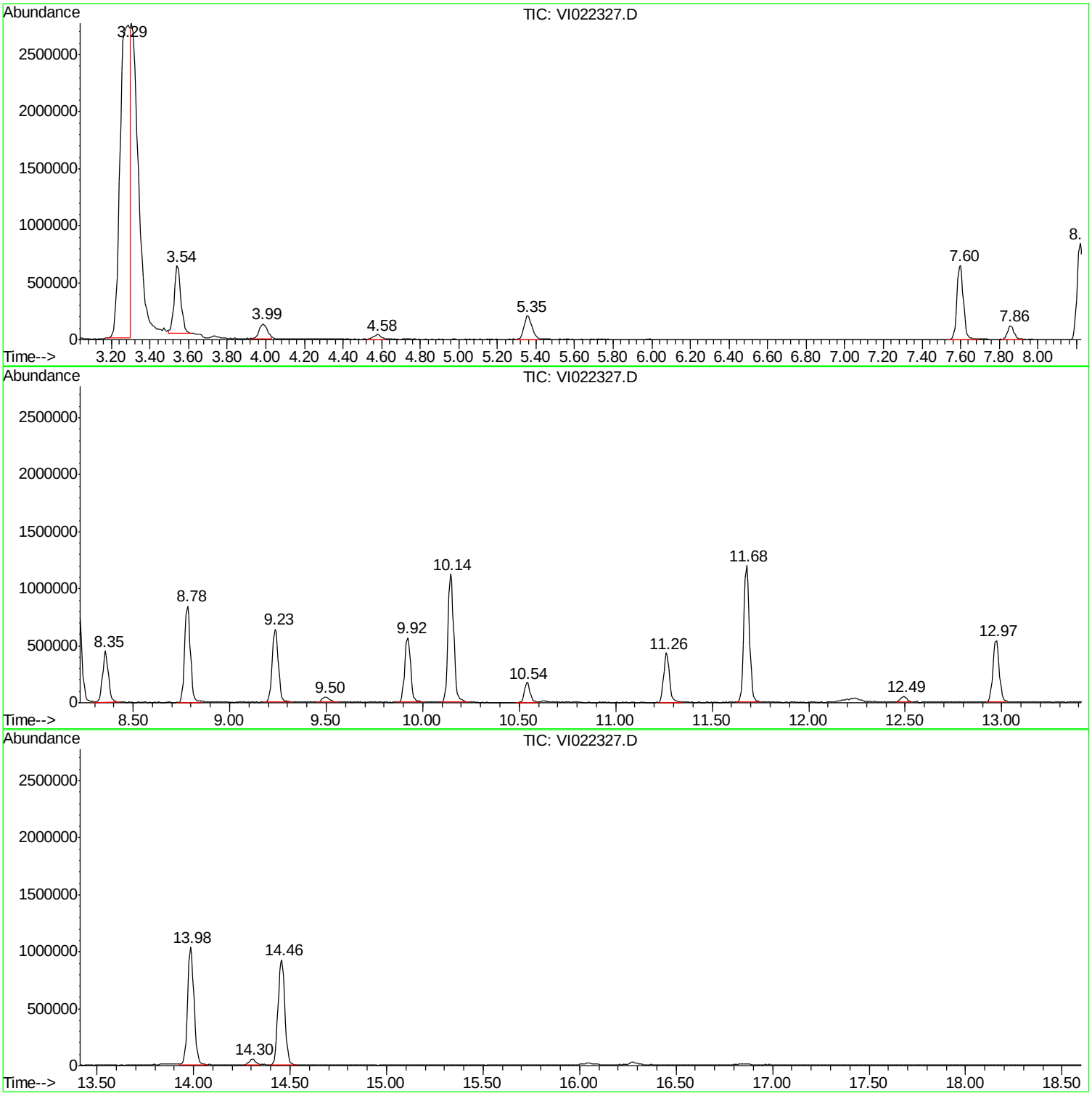
Sum of corrected areas: 33669392

LSC Report - Integrated Chromatogram

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022327.D
Acq On : 20 Oct 2008 11:30
Operator : MS
Sample : VBI1020S1
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022327.D
Acq On : 20 Oct 2008 11:30
Operator : MS
Sample : VBI1020S1
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

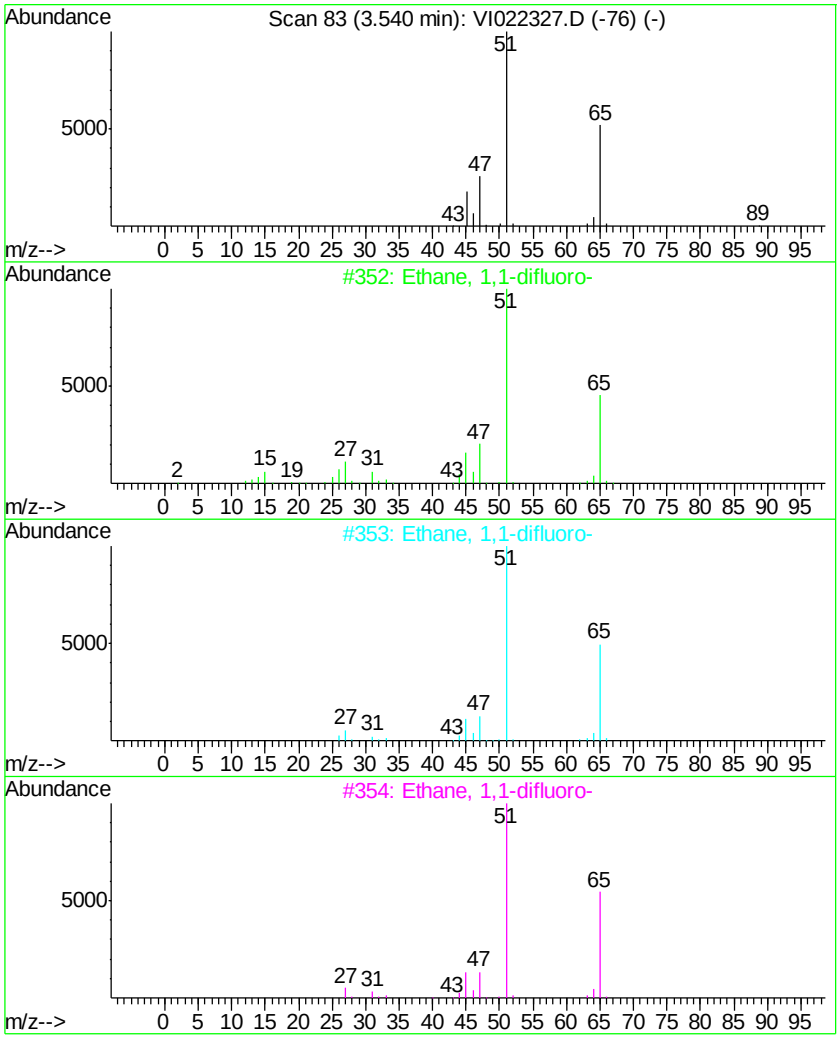
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

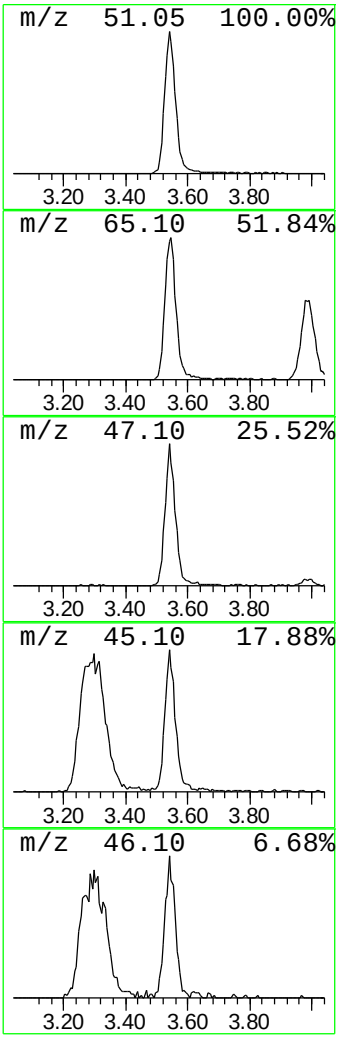
****

Peak Number 2 Ethane, 1,1-difluoro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.54	40.42 ug/L	1422470	1,4-Difluorobenzene	8.78

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	91
2	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	90
3	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	90
4	Propiolonitrile	51	C3HN	001070-71-9	3
5	Propane, 2,2-difluoro-	80	C3H6F2	000420-45-1	2





Tentatively Identified Compound (LSC) summary

Data Path : W:\HPCHEM1\Msvoa_I\Data\VI102008\
Data File : VI022327.D
Acq On : 20 Oct 2008 11:30
Operator : MS
Sample : VBI1020S1
Misc : 5.00g/5mL/10mL purge,MSVOAI
ALS Vial : 3 Sample Multiplier: 1

Quant Method : W:\HPCHEM1\MSVOA_I\METHOD\SOMILM101908S.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethane, 1,1-diflu...	3.54	40.4	ug/L	1422470	1	8.78	1759490	50.0

VOLATILES MISCELLANEOUSDATA

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

Order ID:	Z4983	**Order Date:**	10/15/2008
Client :	Dewberry	**Project:**	Connecticut Superfund Site
Contact :	Corey Nachshen	**Location :**	J12

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
Z4983-01	**A0C-1-1A[0.0-0.5]**	**SOIL**			**10/14/08**			**10/15/08**
			VOCMS Group1	SOM01.2			10/20/08	
Z4983-02	**A0C-1-1B[7.0-7.5]**	**SOIL**			**10/14/08**			**10/15/08**
			VOCMS Group1	SOM01.2			10/19/08	
Z4983-03	**A0C-1-2A[0.0-0.5]**	**SOIL**			**10/14/08**			**10/15/08**
			VOCMS Group1	SOM01.2			10/19/08	
Z4983-03RE	**A0C-1-2A[0.0-0.5]RE**	**SOIL**			**10/14/08**			**10/15/08**
			VOCMS Group1	SOM01.2			10/20/08	
Z4983-04	**A0C-1-2B[7.0-7.5]**	**SOIL**			**10/14/08**			**10/15/08**
			VOCMS Group1	SOM01.2			10/19/08	
Z4983-05	**A0C-1-3A[0.0-0.5]**	**SOIL**			**10/14/08**			**10/15/08**
			VOCMS Group1	SOM01.2			10/20/08	
Z4983-06	**A0C-1-3B[7.0-7.5]**	**SOIL**			**10/14/08**			**10/15/08**
			VOCMS Group1	SOM01.2			10/19/08	
Z4983-09	**DUP**	**SOIL**			**10/14/08**			**10/15/08**
			VOCMS Group1	SOM01.2			10/19/08	
Z4983-09RE	**DUPRE**	**SOIL**			**10/14/08**			**10/15/08**
			VOCMS Group1	SOM01.2			10/20/08	
Z4983-10	**TRIPBLANK**	**WATER**			**10/13/08**			**10/15/08**
			VOCMS Group1	SOM01.2			10/17/08	
Z4983-11	**VHBLK**	**SOIL**			**10/13/08**			**10/15/08**

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

		VOCMS Group1	SOM01.2		10/20/08	
Z4983-12	**VHBLK**	**WATER**		**10/13/08**		**10/15/08**
		VOCMS Group1	SOM01.2		10/17/08	

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: z4983 MATRIX: Water/SOIL

METHOD: SOM01.2

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
a.	Calibration Check Compounds for 8260 and CLP.			
b.	System Performance Check Compounds for 8260 and CLP			

8260 CALIBRATION CRITERIA

SPCC Compounds	MIN RF	CCC Compounds
Chloromethane	0.1	1,1-Dichloroethene
1,1-Dichloroethane	0.1	Chloroform
Bromoform	0.1	1,2-Dichloropropane
Chlorobenzene	0.3	Toluene
1,1,2,2-Tetrachloroethane	0.3	Ethylbenzene
Vinyl chloride		

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%
For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

		NA	NO	YES
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria except for VHBLK, A0C-1-1B[7.0-7.5], A0C-1-2A[0.0-0.5], A0C-1-2B[7.0-7.5], A0C-1-3B[7.0-7.5], DUP, A0C-1-1A[0.0-0.5], A0C-1-2A[0.0-0.5]RE, A0C-1-3A[0.0-0.5], DUPRE, A0C-1-2A[0.0-0.5]MS, A0C-1-2A[0.0-0.5]MSD and VBLK03.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria		✓	
	Comments: The Internal Standards Areas met the acceptable requirements except for A0C-1-2A[0.0-0.5], DUP, A0C-1-2A[0.0-0.5]RE, DUPRE and A0C-1-2A[0.0-0.5]MSD.			
10.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS: The Initial Calibration dated 10/19/08 met the requirements except for Bromomethane and Trichloroethene. The % RSD of Bromomethane is 24.4%. The % RSD of Trichloroethene is 37.8 %.
As per method, the %RSD for 3 compounds can be more than 30 and less than 40. So, no corrective action was taken, it is not present in the samples

QA: Kalpana Raythattha
I have reviewed this document
2008.11.04 16:22:27 -05'00'

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAE

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	AHPatel	Review On	10/18/2008 12:00:00 AM
Tune/Reschk	msv1-13377-13416A	Initial Calibration Stds	msv1-13412-13-14-15-16
CCC	msv1-13417-13418	SubDirectory	VE101608
Internal Standard/PEM	msv1-13163-s-13309	HP Acquire Method	moonmoon
ICV/I.BLK	n/a	HP Processing Method	somelmw101608.m

Sr#	SampleId/DILF	Data File Name	Comment	Status
1	BFB TUNE CHECK	VE010438.D	ZZZZZ	Not Ok
2	BFB TUNE CHECK	VE010439.D		Ok
3	50 PPB CCC	VE010440.D	ZZZZZ	Not Ok
4	5 PPB ICC	VE010441.D	ZZZZZ	Not Ok
5	10 PPB ICC	VE010442.D		Ok,M
6	50 PPB ICC	VE010443.D		Ok,M
7	100 PPB ICC	VE010444.D		Ok,M
8	200 PPB ICC	VE010445.D		Ok,M
9	5 PPB ICC	VE010446.D	carryover,ZZZZZ	Not Ok
10	5 PPB ICC	VE010447.D	bad injection ZZZZZ	Not Ok
11	5 PPB ICC	VE010448.D		Ok,M
12	BFB	VE010449.D	ZZZZZ	Not Ok
13	BFB	VE010450.D	not needZZZZZ	Not Ok
14	BFB	VE010451.D		Ok
15	50 PPB CCC	VE010453.D	ZZZZZ	Not Ok
16	50 PPB CCC	VE010454.D		Ok,M
17	VBE1016W	VE010455.D	ZZZZZ	Not Ok
18	VBE1016W1	VE010456.D		Ok
19	Z4920-01	VE010457.D	b<2	Ok
20	Z4920-02	VE010458.D	b<2	Ok
21	Z4923-17	VE010459.D	b<2	Ok

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAE

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	AHPatel	Review On	10/18/2008 12:00:00 AM
Tune/Reschk	msv1-13377-13416A	Initial Calibration Stds	msv1-13412-13-14-15-16
CCC	msv1-13417-13418	SubDirectory	VE101608
Internal Standard/PEM	msv1-13163-s-13309	HP Acquire Method	moonmoon
ICV/I.BLK	n/a	HP Processing Method	somelmw101608.m

Sr#	SampleId/DILF	Data File Name	Comment	Status
22	Z4923-18	VE010460.D	b<2	Ok
23	Z4923-19	VE010461.D	b<2	Ok
24	Z4923-20	VE010462.D	a<2	Ok
25	Z4932-01	VE010463.D	surr out b<2 ZZZZZ	Not Ok
26	Z4932-02	VE010464.D	surr out d<2 ZZZZZ	Not Ok
27	Z4932-03	VE010465.D	surr out a<2 ZZZZZ	Not Ok
28	Z4920-14	VE010466.D	int out a>2 ZZZZZ	Not Ok
29	Z4923-22	VE010467.D	a>2	Ok
30	Z4932-15	VE010468.D	sur out a>2 ZZZZZ	Not Ok
31	50 PPB CCV	VE010469.D	ZZZZZ	Not Ok
32	50 PPB CCV	VE010470.D		Ok,M

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAE

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	AHPatel	Review On	10/18/2008 12:00:00 AM
Tune/Reschk	msv1-13377-13416A	Initial Calibration Stds	msv1-13412-13-14-15-16
CCC	msv1-13417-13418	SubDirectory	VE101608
Internal Standard/PEM	msv1-13163-s-13309	HP Acquire Method	moonmoon
ICV/I.BLK	n/a	HP Processing Method	somelmw101608.m

Sr#	SampleId/DILF	Data File Name	Date-Time	Operator	Status
1	BFB TUNE CHECK	VE010438.D	16 Oct 2008 10:57	SY	Not Ok
2	BFB TUNE CHECK	VE010439.D	16 Oct 2008 11:46	SY	Ok
3	50 PPB CCC	VE010440.D	16 Oct 2008 12:29	SY	Not Ok
4	5 PPB ICC	VE010441.D	16 Oct 2008 13:25	SY	Not Ok
5	10 PPB ICC	VE010442.D	16 Oct 2008 13:58	SY	Ok,M
6	50 PPB ICC	VE010443.D	16 Oct 2008 14:32	SY	Ok,M
7	100 PPB ICC	VE010444.D	16 Oct 2008 15:06	SY	Ok,M
8	200 PPB ICC	VE010445.D	16 Oct 2008 15:40	SY	Ok,M
9	5 PPB ICC	VE010446.D	16 Oct 2008 16:44	SY	Not Ok
10	5 PPB ICC	VE010447.D	16 Oct 2008 17:27	SY	Not Ok
11	5 PPB ICC	VE010448.D	16 Oct 2008 18:14	SY	Ok,M
12	BFB	VE010449.D	16 Oct 2008 19:08	SY	Not Ok
13	BFB	VE010450.D	16 Oct 2008 19:53	SY	Not Ok
14	BFB	VE010451.D	16 Oct 2008 20:42	SY	Ok
15	50 PPB CCC	VE010453.D	16 Oct 2008 21:49	SY	Not Ok
16	50 PPB CCC	VE010454.D	16 Oct 2008 22:23	SY	Ok,M
17	VBE1016W	VE010455.D	16 Oct 2008 22:56	SY	Not Ok
18	VBE1016W1	VE010456.D	16 Oct 2008 23:30	SY	Ok
19	Z4920-01	VE010457.D	17 Oct 2008 00:04	SY	Ok
20	Z4920-02	VE010458.D	17 Oct 2008 00:37	SY	Ok
21	Z4923-17	VE010459.D	17 Oct 2008 1:11	SY	Ok

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAE

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	AHPatel	Review On	10/18/2008 12:00:00 AM
Tune/Reschk	msv1-13377-13416A	Initial Calibration Stds	msv1-13412-13-14-15-16
CCC	msv1-13417-13418	SubDirectory	VE101608
Internal Standard/PEM	msv1-13163-s-13309	HP Acquire Method	moonmoon
ICV/I.BLK	n/a	HP Processing Method	somelmw101608.m

Sr#	SampleId/DILF	Data File Name	Date-Time	Operator	Status
22	Z4923-18	VE010460.D	17 Oct 2008 1:44	SY	Ok
23	Z4923-19	VE010461.D	17 Oct 2008 2:17	SY	Ok
24	Z4923-20	VE010462.D	17 Oct 2008 2:50	SY	Ok
25	Z4932-01	VE010463.D	17 Oct 2008 3:23	SY	Not Ok
26	Z4932-02	VE010464.D	17 Oct 2008 3:56	SY	Not Ok
27	Z4932-03	VE010465.D	17 Oct 2008 4:30	SY	Not Ok
28	Z4920-14	VE010466.D	17 Oct 2008 5:03	SY	Not Ok
29	Z4923-22	VE010467.D	17 Oct 2008 5:36	SY	Ok
30	Z4932-15	VE010468.D	17 Oct 2008 6:10	SY	Not Ok
31	50 PPB CCV	VE010469.D	17 Oct 2008 6:43	SY	Not Ok
32	50 PPB CCV	VE010470.D	17 Oct 2008 7:16	SY	Ok,M

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAE

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	AHPatel	Review On	10/18/2008 12:00:00 AM
Tune/Reschk	msv1-13422	Initial Calibration Stds	n/a
CCC	msv1-13423-424	SubDirectory	VE101708
Internal Standard/PEM	msv1-13163-13309	HP Acquire Method	moonmoon
ICV/I.BLK	n/a	HP Processing Method	somelmw101608.m

Sr#	SampleId/DILF	Data File Name	Comment	Status
1	BFB TUNE CHECK	VE010471.D		Ok
2	50 PPB CCC	VE010472.D		Ok,M
3	VBE1017W1	VE010473.D	ZZZZZ	Not Ok
4	VBE1017W2	VE010474.D		Ok
5	Z4920-14	VE010475.D	b>2	Ok
6	Z4932-01	VE010476.D	b<2	Ok
7	Z4932-02	VE010477.D	d<2	Ok
8	Z4932-03	VE010478.D	b>2	Ok,M
9	Z4983-10	VE010479.D	b>2	Ok,M
10	Z4932-03RE	VE010480.D	b>2 ZZZZZ	Not Ok
11	Z4932-15	VE010481.D	b>2	Ok,M
12	Z4983-12	VE010482.D	b>2	Ok,M
13	50 PPB CCV	VE010483.D		Ok,M
14	BFB	VE010484.D		Ok
15	10 PPB ICC	VE010485.D	Method Failed	Not Ok
16	20 PPB ICC	VE010486.D	Method Failed	Not Ok
17	50 PPB ICC	VE010487.D	Method Failed	Not Ok
18	100 PPB ICC	VE010488.D	Method Failed	Not Ok
19	BLANK	VE010489.D	Clean up	Ok
20	200 PPB ICC	VE010490.D	Method Failed	Not Ok

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAE

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	AHPatel	Review On	10/18/2008 12:00:00 AM
Tune/Reschk	msv1-13422	Initial Calibration Stds	n/a
CCC	msv1-13423-424	SubDirectory	VE101708
Internal Standard/PEM	msv1-13163-13309	HP Acquire Method	moonmoon
ICV/I.BLK	n/a	HP Processing Method	somelmw101608.m

Sr#	SampleId/DILF	Data File Name	Comment	Status
22	50 PPB ICV	VE010492.D	Method Failed	Not Ok
23	BFB	VE010493.D		Not Ok
24	BFB	VE010494.D		Not Ok
25	50 PPB CCC	VE010495.D	Method Failed	Not Ok
26	50 PPB CCC	VE010496.D	Method Failed	Not Ok
27	VBE1017W3	VE010497.D	Method Failed	Not Ok
28	VBE1017W4	VE010498.D	Method Failed	Not Ok

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAE

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	AHPatel	Review On	10/18/2008 12:00:00 AM
Tune/Reschk	msv1-13422	Initial Calibration Stds	n/a
CCC	msv1-13423-424	SubDirectory	VE101708
Internal Standard/PEM	msv1-13163-13309	HP Acquire Method	moonmoon
ICV/I.BLK	n/a	HP Processing Method	somelmw101608.m

Sr#	SampleId/DILF	Data File Name	Date-Time	Operator	Status
1	BFB TUNE CHECK	VE010471.D	17 Oct 2008 9:59	SY	Ok
2	50 PPB CCC	VE010472.D	17 Oct 2008 10:42	SY	Ok,M
3	VBE1017W1	VE010473.D	17 Oct 2008 11:31	SY	Not Ok
4	VBE1017W2	VE010474.D	17 Oct 2008 12:04	SY	Ok
5	Z4920-14	VE010475.D	17 Oct 2008 12:40	SY	Ok
6	Z4932-01	VE010476.D	17 Oct 2008 13:14	SY	Ok
7	Z4932-02	VE010477.D	17 Oct 2008 13:47	SY	Ok
8	Z4932-03	VE010478.D	17 Oct 2008 14:21	SY	Ok,M
9	Z4983-10	VE010479.D	17 Oct 2008 14:54	SY	Ok,M
10	Z4932-03RE	VE010480.D	17 Oct 2008 15:28	SY	Not Ok
11	Z4932-15	VE010481.D	17 Oct 2008 16:01	SY	Ok,M
12	Z4983-12	VE010482.D	17 Oct 2008 16:35	SY	Ok,M
13	50 PPB CCV	VE010483.D	17 Oct 2008 17:32	SY	Ok,M
14	BFB	VE010484.D	17 Oct 2008 18:21	SY	Ok
15	10 PPB ICC	VE010485.D	17 Oct 2008 19:02	SY	Not Ok
16	20 PPB ICC	VE010486.D	17 Oct 2008 19:36	SY	Not Ok
17	50 PPB ICC	VE010487.D	17 Oct 2008 20:09	SY	Not Ok
18	100 PPB ICC	VE010488.D	17 Oct 2008 20:42	SY	Not Ok
19	BLANK	VE010489.D	17 Oct 2008 21:15	SY	Ok
20	200 PPB ICC	VE010490.D	17 Oct 2008 21:49	SY	Not Ok

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAE

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	AHPatel	Review On	10/18/2008 12:00:00 AM
Tune/Reschk	msv1-13422	Initial Calibration Stds	n/a
CCC	msv1-13423-424	SubDirectory	VE101708
Internal Standard/PEM	msv1-13163-13309	HP Acquire Method	moonmoon
ICV/I.BLK	n/a	HP Processing Method	somelmw101608.m

Sr#	SampleId/DILF	Data File Name	Date-Time	Operator	Status
22	50 PPB ICV	VE010492.D	17 Oct 2008 22:55	SY	Not Ok
23	BFB	VE010493.D	17 Oct 2008 23:28	SY	Not Ok
24	BFB	VE010494.D	18 Oct 2008 00:01	SY	Not Ok
25	50 PPB CCC	VE010495.D	18 Oct 2008 00:34	SY	Not Ok
26	50 PPB CCC	VE010496.D	18 Oct 2008 1:07	SY	Not Ok
27	VBE1017W3	VE010497.D	18 Oct 2008 1:40	SY	Not Ok
28	VBE1017W4	VE010498.D	18 Oct 2008 2:14	SY	Not Ok

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAI

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	margaret	Review On	10/20/2008 12:00:00 AM
Tune/Reschk	MSVI-13387	Initial Calibration Stds	MSVI-13481 to 13485
CCC	MSV1-13486	SubDirectory	VI101908
Internal Standard/PEM	MSVI-13480	HP Acquire Method	MSVOA_I
ICV/I.BLK	N/A	HP Processing Method	SOMILM101908S.M

Sr#	SampleId/DILF	Data File Name	Comment	Status
1	BFB TUNE CHECK	VI022295.D	ZZZZZ,not passing,rerun	Not Ok
2	BFB TUNE CHECK	VI022296.D		Ok
3	25 PPB CCC	VI022297.D	ZZZZZ,not passing,rerun Initial Calibration	Not Ok
4	2.5 PPB CCC	VI022298.D		Ok,M
5	5 PPB CCC	VI022299.D		Ok,M
6	25 PPB CCC	VI022300.D		Ok,M
7	50 PPB CCC	VI022301.D		Ok,M
8	100 PPB CCC	VI022302.D		Ok,M
9	VBI1019S1	VI022303.D	ZZZZZ,not needed	Ok
10	VBI1019S2	VI022304.D		Ok,M
11	Z4932-04RE	VI022305.D	Internal Standard fail	Confirms
12	Z4932-05RE	VI022306.D	Internal Standard fail	Confirms
13	Z4932-08RE	VI022307.D	Internal Standard fail	Confirms
14	Z4932-09RE	VI022308.D	Internal Standard fail	Confirms
15	Z4932-10RE	VI022309.D	Internal Standard fail	Confirms
16	Z4932-12	VI022310.D	use this run	Ok
17	Z4932-13	VI022311.D	use this run	Ok
18	Z4932-14	VI022312.D	use this run	Ok
19	Z4983-01	VI022313.D	Internal Standard fail	ReRun
20	Z4983-02	VI022314.D		Ok,M
21	Z4983-03	VI022315.D	Internal Standard fail	ReRun

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAI

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	margaret	Review On	10/20/2008 12:00:00 AM
Tune/Reschk	MSVI-13387	Initial Calibration Stds	MSVI-13481 to 13485
CCC	MSV1-13486	SubDirectory	VI101908
Internal Standard/PEM	MSVI-13480	HP Acquire Method	MSVOA_I
ICV/I.BLK	N/A	HP Processing Method	SOMILM101908S.M

Sr#	SampleId/DILF	Data File Name	Comment	Status
22	Z4983-04	VI022316.D		Ok
23	Z4983-05	VI022317.D	ZZZZZ,Internal Standard fail	ReRun
24	Z4983-06	VI022318.D		Ok,M
25	Z4983-09	VI022319.D	Internal Standard fail	ReRun
26	25 PPB CCC	VI022320.D		Ok,M
27	25 PPB CCC	VI022321.D	ZZZZZ,not needed	Ok

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAI

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	margaret	Review On	10/20/2008 12:00:00 AM
Tune/Reschk	MSVI-13387	Initial Calibration Stds	MSVI-13481 to 13485
CCC	MSV1-13486	SubDirectory	VI101908
Internal Standard/PEM	MSVI-13480	HP Acquire Method	MSVOA_I
ICV/I.BLK	N/A	HP Processing Method	SOMILM101908S.M

Sr#	SampleId/DILF	Data File Name	Date-Time	Operator	Status
1	BFB TUNE CHECK	VI022295.D	19 Oct 2008 10:13	MS	Not Ok
2	BFB TUNE CHECK	VI022296.D	19 Oct 2008 10:34	MS	Ok
3	25 PPB CCC	VI022297.D	19 Oct 2008 11:26	MS	Not Ok
4	2.5 PPB CCC	VI022298.D	19 Oct 2008 12:10	MS	Ok,M
5	5 PPB CCC	VI022299.D	19 Oct 2008 12:35	MS	Ok,M
6	25 PPB CCC	VI022300.D	19 Oct 2008 13:00	MS	Ok,M
7	50 PPB CCC	VI022301.D	19 Oct 2008 13:24	MS	Ok,M
8	100 PPB CCC	VI022302.D	19 Oct 2008 13:49	MS	Ok,M
9	VBI1019S1	VI022303.D	19 Oct 2008 14:13	MS	Ok
10	VBI1019S2	VI022304.D	19 Oct 2008 14:38	MS	Ok,M
11	Z4932-04RE	VI022305.D	19 Oct 2008 15:03	MS	Confirms
12	Z4932-05RE	VI022306.D	19 Oct 2008 15:28	MS	Confirms
13	Z4932-08RE	VI022307.D	19 Oct 2008 15:53	MS	Confirms
14	Z4932-09RE	VI022308.D	19 Oct 2008 16:18	MS	Confirms
15	Z4932-10RE	VI022309.D	19 Oct 2008 16:42	MS	Confirms
16	Z4932-12	VI022310.D	19 Oct 2008 17:08	MS	Ok
17	Z4932-13	VI022311.D	19 Oct 2008 17:33	MS	Ok
18	Z4932-14	VI022312.D	19 Oct 2008 17:58	MS	Ok
19	Z4983-01	VI022313.D	19 Oct 2008 18:23	MS	ReRun
20	Z4983-02	VI022314.D	19 Oct 2008 18:48	MS	Ok,M
21	Z4983-03	VI022315.D	19 Oct 2008 19:13	MS	ReRun

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAI

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	margaret	Review On	10/20/2008 12:00:00 AM
Tune/Reschk	MSVI-13387	Initial Calibration Stds	MSVI-13481 to 13485
CCC	MSV1-13486	SubDirectory	VI101908
Internal Standard/PEM	MSVI-13480	HP Acquire Method	MSVOA_I
ICV/I.BLK	N/A	HP Processing Method	SOMILM101908S.M

Sr#	SampleId/DILF	Data File Name	Date-Time	Operator	Status
22	Z4983-04	VI022316.D	19 Oct 2008 19:38	MS	Ok
23	Z4983-05	VI022317.D	19 Oct 2008 20:02	MS	ReRun
24	Z4983-06	VI022318.D	19 Oct 2008 20:27	MS	Ok,M
25	Z4983-09	VI022319.D	19 Oct 2008 20:51	MS	ReRun
26	25 PPB CCC	VI022320.D	19 Oct 2008 21:16	MS	Ok,M
27	25 PPB CCC	VI022321.D	19 Oct 2008 21:41	MS	Ok

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAI

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	apatel	Review On	10/21/2008 12:00:00 AM
Tune/Reschk	MSVI-13488	Initial Calibration Stds	N/A
CCC	MSV1-13489,13490	SubDirectory	VI102008
Internal Standard/PEM	MSVI-13068	HP Acquire Method	MSVOA_I
ICV/I.BLK	N/A	HP Processing Method	SOMILM101908S.M

Sr#	SampleId/DILF	Data File Name	Comment	Status
1	BFB TUNE CHECK	VI022322.D	ZZZZZ,not passing	Not Ok
2	BFB TUNE CHECK	VI022323.D	ZZZZZ,not passing	Not Ok
3	BFB TUNE CHECK	VI022325.D		Ok
4	25 PPB CCC	VI022326.D		Ok,M
5	VBI1020S1	VI022327.D		Ok
6	VBI1020S2	VI022328.D	ZZZZZ,not needed	Not Ok
7	Z4932-16	VI022329.D		Ok
8	Z4983-01	VI022330.D	use this run	Ok
9	Z4983-03RE	VI022331.D	Internal Standard fail	Confirms
10	Z4983-05	VI022332.D	use this run	Ok
11	Z4983-09RE	VI022333.D	Internal Standard,Surrogate fail	Confirms
12	Z4983-07MS	VI022334.D		Ok
13	Z4983-08MSD	VI022335.D	Internal Standard fail	Ok
14	Z4983-11	VI022336.D		Ok
15	25 PPB CCC	VI022337.D		Ok,M
16	BFB TUNE CHECK	VI022338.D	not passing,rerun	Not Ok
17	BFB TUNE CHECK	VI022339.D		Ok
18	5 PPB ICC	VI022340.D	Initial Calibration not passing	Not Ok
19	10 PPB ICC	VI022341.D	Initial Calibration not passing	Not Ok
20	20 PPB ICC	VI022342.D	Initial Calibration not passing	Not Ok
21	50 PPB ICC	VI022343.D	Initial Calibration not passing	Not Ok

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAI

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	apatel	Review On	10/21/2008 12:00:00 AM
Tune/Reschk	MSVI-13488	Initial Calibration Stds	N/A
CCC	MSV1-13489,13490	SubDirectory	VI102008
Internal Standard/PEM	MSVI-13068	HP Acquire Method	MSVOA_I
ICV/I.BLK	N/A	HP Processing Method	SOMILM101908S.M

Sr#	SampleId/DILF	Data File Name	Comment	Status
22	75 PPB ICC	VI022344.D	Initial Calibration not passing	Not Ok
23	100 PPB ICC	VI022345.D	Initial Calibration not passing	Not Ok
24	50 PPB ICV	VI022346.D	Initial Calibration not passing	Not Ok
25	VBI1020S3	VI022347.D	Initial Calibration not passing	Not Ok
26	VBI1020S4	VI022348.D	Initial Calibration not passing	Not Ok
27	BSI1020S1	VI022349.D	Initial Calibration not passing	Not Ok
28	BSI1020S2	VI022350.D	Initial Calibration not passing	Not Ok
29	Z5035-01	VI022351.D	Initial Calibration not passing	Not Ok
30	Z5035-01MS	VI022352.D	Initial Calibration not passing	Not Ok
31	Z5035-01MSD	VI022353.D	Initial Calibration not passing	Not Ok
32	Z5035-02	VI022354.D	Initial Calibration not passing	Not Ok
33	Z4975-06	VI022355.D	Initial Calibration not passing	Not Ok
34	Z4975-07	VI022356.D	Initial Calibration not passing	Not Ok
35	Z4975-08	VI022357.D	Initial Calibration not passing	Not Ok
36	Z4975-09	VI022358.D	Initial Calibration not passing	Not Ok
37	Z4975-10	VI022359.D	Initial Calibration not passing	Not Ok
38	Z4975-11	VI022360.D	Initial Calibration not passing	Not Ok
39	Z4975-12	VI022361.D	Initial Calibration not passing	Not Ok
40	Z4975-13	VI022362.D	Initial Calibration not passing	Not Ok
41	Z4975-14	VI022363.D	Initial Calibration not passing	Not Ok

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAI

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	apatel	Review On	10/21/2008 12:00:00 AM
Tune/Reschk	MSVI-13488	Initial Calibration Stds	N/A
CCC	MSV1-13489,13490	SubDirectory	VI102008
Internal Standard/PEM	MSVI-13068	HP Acquire Method	MSVOA_I
ICV/I.BLK	N/A	HP Processing Method	SOMILM101908S.M

Sr#	SampleId/DILF	Data File Name	Comment	Status
42	BLANK	VI022364.D	Initial Calibration not passing	Not Ok
43	BLANK	VI022365.D	Initial Calibration not passing	Not Ok
44	BLANK	VI022366.D	Initial Calibration not passing	Not Ok
45	BLANK	VI022367.D	Initial Calibration not passing	Not Ok

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAI

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	apatel	Review On	10/21/2008 12:00:00 AM
Tune/Reschk	MSVI-13488	Initial Calibration Stds	N/A
CCC	MSV1-13489,13490	SubDirectory	VI102008
Internal Standard/PEM	MSVI-13068	HP Acquire Method	MSVOA_I
ICV/I.BLK	N/A	HP Processing Method	SOMILM101908S.M

Sr#	SampleId/DILF	Data File Name	Date-Time	Operator	Status
1	BFB TUNE CHECK	VI022322.D	20 Oct 2008 8:36	MS	Not Ok
2	BFB TUNE CHECK	VI022323.D	20 Oct 2008 9:05	MS	Not Ok
3	BFB TUNE CHECK	VI022325.D	20 Oct 2008 9:56	MS	Ok
4	25 PPB CCC	VI022326.D	20 Oct 2008 10:42	MS	Ok,M
5	VBI1020S1	VI022327.D	20 Oct 2008 11:30	MS	Ok
6	VBI1020S2	VI022328.D	20 Oct 2008 11:55	MS	Not Ok
7	Z4932-16	VI022329.D	20 Oct 2008 12:36	MS	Ok
8	Z4983-01	VI022330.D	20 Oct 2008 13:01	MS	Ok
9	Z4983-03RE	VI022331.D	20 Oct 2008 13:25	MS	Confirms
10	Z4983-05	VI022332.D	20 Oct 2008 13:51	MS	Ok
11	Z4983-09RE	VI022333.D	20 Oct 2008 14:16	MS	Confirms
12	Z4983-07MS	VI022334.D	20 Oct 2008 14:41	MS	Ok
13	Z4983-08MSD	VI022335.D	20 Oct 2008 15:05	MS	Ok
14	Z4983-11	VI022336.D	20 Oct 2008 15:44	MS	Ok
15	25 PPB CCC	VI022337.D	20 Oct 2008 16:21	MS	Ok,M
16	BFB TUNE CHECK	VI022338.D	20 Oct 2008 16:49	MS	Not Ok
17	BFB TUNE CHECK	VI022339.D	20 Oct 2008 17:18	MS	Ok
18	5 PPB ICC	VI022340.D	20 Oct 2008 18:00	MS	Not Ok
19	10 PPB ICC	VI022341.D	20 Oct 2008 18:24	MS	Not Ok
20	20 PPB ICC	VI022342.D	20 Oct 2008 18:49	MS	Not Ok
21	50 PPB ICC	VI022343.D	20 Oct 2008 19:14	MS	Not Ok

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAI

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	apatel	Review On	10/21/2008 12:00:00 AM
Tune/Reschk	MSVI-13488	Initial Calibration Stds	N/A
CCC	MSV1-13489,13490	SubDirectory	VI102008
Internal Standard/PEM	MSVI-13068	HP Acquire Method	MSVOA_I
ICV/I.BLK	N/A	HP Processing Method	SOMILM101908S.M

Sr#	SampleId/DILF	Data File Name	Date-Time	Operator	Status
22	75 PPB ICC	VI022344.D	20 Oct 2008 19:38	MS	Not Ok
23	100 PPB ICC	VI022345.D	20 Oct 2008 20:03	MS	Not Ok
24	50 PPB ICV	VI022346.D	20 Oct 2008 20:27	MS	Not Ok
25	VBI1020S3	VI022347.D	20 Oct 2008 20:53	MS	Not Ok
26	VBI1020S4	VI022348.D	20 Oct 2008 21:17	MS	Not Ok
27	BSI1020S1	VI022349.D	20 Oct 2008 21:42	MS	Not Ok
28	BSI1020S2	VI022350.D	20 Oct 2008 22:07	MS	Not Ok
29	Z5035-01	VI022351.D	20 Oct 2008 22:32	MS	Not Ok
30	Z5035-01MS	VI022352.D	20 Oct 2008 22:56	MS	Not Ok
31	Z5035-01MSD	VI022353.D	20 Oct 2008 23:21	MS	Not Ok
32	Z5035-02	VI022354.D	20 Oct 2008 23:46	MS	Not Ok
33	Z4975-06	VI022355.D	21 Oct 2008 00:11	MS	Not Ok
34	Z4975-07	VI022356.D	21 Oct 2008 00:36	MS	Not Ok
35	Z4975-08	VI022357.D	21 Oct 2008 1:00	MS	Not Ok
36	Z4975-09	VI022358.D	21 Oct 2008 1:25	MS	Not Ok
37	Z4975-10	VI022359.D	21 Oct 2008 1:49	MS	Not Ok
38	Z4975-11	VI022360.D	21 Oct 2008 2:14	MS	Not Ok
39	Z4975-12	VI022361.D	21 Oct 2008 2:38	MS	Not Ok
40	Z4975-13	VI022362.D	21 Oct 2008 3:03	MS	Not Ok
41	Z4975-14	VI022363.D	21 Oct 2008 3:27	MS	Not Ok

CHEMTECH

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # MSVOAI

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	apatel	Review On	10/21/2008 12:00:00 AM
Tune/Reschk	MSVI-13488	Initial Calibration Stds	N/A
CCC	MSV1-13489,13490	SubDirectory	VI102008
Internal Standard/PEM	MSVI-13068	HP Acquire Method	MSVOA_I
ICV/I.BLK	N/A	HP Processing Method	SOMILM101908S.M

Sr#	SampleId/DILF	Data File Name	Date-Time	Operator	Status
42	BLANK	VI022364.D	21 Oct 2008 3:52	MS	Not Ok
43	BLANK	VI022365.D	21 Oct 2008 4:17	MS	Not Ok
44	BLANK	VI022366.D	21 Oct 2008 4:43	MS	Not Ok
45	BLANK	VI022367.D	21 Oct 2008 5:08	MS	Not Ok

CHEMTECH

QC: LB40908

PERCENT SOLIDS

ANALYST: [illegible]
DATE: 10/16/08

Lab ID	Client ID	Dish #	Dish Weight (g)	Dish Wt.+ Sample (g)	Dish Wt.+ Dry Sample (g)	% Solids
Z4983-01	A0C-1-1A[0.0-0.5]	1	1.17	8.9	8.2	91.0
Z4983-02	A0C-1-1B[7.0-7.5]	2	1.18	8.8	7.73	86.0
Z4983-03	A0C-1-2A[0.0-0.5]	3	1.11	8.86	8.23	91.9
Z4983-04	A0C-1-2B[7.0-7.5]	4	1.11	8.57	7.67	88.0
Z4983-05	A0C-1-3A[0.0-0.5]	5	1.1	8.95	8.21	90.6
Z4983-06	A0C-1-3B[7.0-7.5]	6	1.1	9.05	7.99	86.7
Z4983-07	Z4983-03MS	7	NR	NR	NR	NR
Z4983-08	Z4983-03MSD	8	NR	NR	NR	NR
Z4983-09	DUP	9	1.17	8.46	7.78	90.7
Z4984-01	HPJS-05N	10	1.16	8.82	7.24	79.4
Z4986-01	B-PE-C4-24.5-25	11	1.18	8.68	7.1	79.0
Z4986-02	B-PE-C4D-24.5-25	12	1.19	8.86	7.27	79.3
Z4991-01	E6(0-1.35)	13	1.16	8.89	4.71	46.0
Z4991-02	E6(0-1.35)	14	1.18	8.83	4.05	37.6
Z4991-03	E6(1.35-2.7)	15	1.19	8.17	3.36	31.1
Z4991-04	E6(1.35-2.7)	16	1.19	8.87	3.63	31.8
Z4991-05	E6(2.7-4.5)	17	1.18	8.99	5.39	54.0
Z4991-06	E6(2.7-4.5)	18	1.17	9.06	4.33	40.1
Z4991-07	C6(0-1.35)	19	1.16	8.7	7.31	81.6
Z4991-08	C6(0-1.35)	20	1.19	8.93	7.29	78.9
Z4991-09	C6(1.35-2.7)	21	1.19	8.67	7.11	79.2
Z4991-10	C6(1.35-2.7)	22	1.19	8.75	7.5	83.5
Z4991-11	C6(2.7-4.05)	23	1.18	9.11	5.84	58.8
Z4991-12	C6(2.7-4.05)	24	1.2	8.94	4.95	48.5
Z4991-13	C6(4.05-5.4)	25	1.17	8.99	6.01	61.9
Z4991-14	C6(4.05-5.4)	26	1.2	8.87	6.09	63.8
Z4991-15	C5(0-1.35)	27	1.18	9.08	4.03	36.1
Z4991-16	C5(0-1.35)	28	1.18	8.62	3.68	33.7
Z4991-17	C5(1.35-2.7)	29	1.19	9.14	3.46	28.6
Z4991-18	C5(1.35-2.7)	30	1.18	8.81	3.29	27.7
Z4991-19	C5(2.7-4.05)	31	1.2	9.17	3.37	27.3
Z4991-20	C5(2.7-4.05)	32	1.2	8.9	3.41	28.8
Z4991-21	E5(0-1.35)	33	1.2	8.53	3.05	25.3
Z4991-22	E5(0-1.35)	34	1.19	9.22	2.63	18.0

OVEN TEMP: 106°C
TIME IN: 10/15/08 7:30AM
TIME OUT: 10/16/08 10:30AM

CHEMTECH

QC: LB410908

PERCENT SOLIDS

ANALYST: [illegible]
DATE: 10/16/08

Lab ID	Client ID	Dish #	Dish Weight (g)	Dish Wt.+ Sample (g)	Dish Wt.+ Dry Sample (g)	% Solids
Z4993-01	HPKS-01N	35	1.19	8.96	7.64	83.1
Z4995-01	BS1	36	1.18	8.79	8	89.7
Z4996-01	MB-BS-E-01	37	1.17	9.05	7.68	82.7
Z4983-03D	A0C-1-2A[0.0-0.5]D	3D	1.11	8.89	8.33	92.9
Z4991-21D	E5(0-1.35)D	33D	1.2	8.56	3.15	26.5
BLANK	DISH	B1	1.19	1.19	1.19	0.0
BLANK	DISH	B2	1.18	1.18	1.18	0.0

OVEN TEMP: 106°C
TIME IN: 10/15/08 7:30 PM OK
TIME OUT: 10/16/08 10:30 AM

CHEMTECH

QC: LB40908 Z4915

PERCENT SOLIDS

ANALYST: [illegible]
DATE: 10/16/08

Lab ID	Client ID	Dish #	Dish Weight (g)	Dish Wt.+ Sample (g)	Dish Wt.+ Dry Sample (g)	% Solids
Z4915-01	MC02X9	1	1.19	8.69	8	90.8
Z4915-02	MC02X9D	2	1.18	8.94	8.2	90.5
Z4915-03	MC02X9S	3	NR	NR	NR	NR
Z4915-04	MC02Y0	4	1.17	8.81	8.05	90.1
Z4915-05	MC02Y1	5	1.18	8.89	8.11	89.9
Z4915-06	MC02Y2	6	1.19	8.92	7.67	83.9
Z4915-07	MC02Y3	7	1.18	9.06	7.61	81.6
BLANK	DISH	B1	1.18	1.18	1.18	0.0

OVEN TEMP: 106 c
TIME IN: 10/15/08 7:30PM on
TIME OUT: 10/16/08 10:30AM on

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

SHIPPING AND RECEIVING DOCUMENTATION

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. Z4983
COC Number 074375

428

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Dowberry
ADDRESS: 600 Parsippany Road
CITY: Parsippany STATE: NJ ZIP: 07054
ATTENTION: Corey Nachshen
PHONE: 973-739-9400 FAX: 973-428-8509

CLIENT PROJECT INFORMATION

PROJECT NAME: FCI - DANBURY
PROJECT NO. 5001.3147 LOCATION: Danbury
PROJECT MANAGER: Corey Nachshen
e-mail: cnachshen@dowberry.com
PHONE: SAME FAX: SAME

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: SAME
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 10 DAYS *
HARD COPY: 10 DAYS *
EDD: 10 DAYS *
PREAPPROVED TAT: ☑ YES ☐ NO
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☑ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other
☑ EDD FORMAT Excel

ANALYSIS

1 TCL VOC +10
2 TCL SVOC +20
3 TCL PESTICIDE
4 PCB15
5 TAL METALS
6 CYANIDE (ELMOS-1)
7
8
9

PRESERVATIVES

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1 SOMO 1.2	2 SOMO 1.2	3 SOMO 1.2	4 SOMO 1.2	5 ILMO 5.4	6 ILMO 5.4	7	8	9	COMMENTS
1.	AOC-1-1A (0.0-0.5)	Soil		X	10/14/08	1035	2	X	X	X	X	X	X				
2.	AOC-1-1B (7.0-7.5)	"		X	"	1310	2	X	X	X	X	X	X				
3.	AOC1-2A (0.0-0.5)	"		X	"	1050	2	X	X	X	X	X	X				
4.	AOC-1-2B (7.0-7.5)	"		X	"	1500	2	X	X	X	X	X	X				
5.	AOC-1-3A (0.0-0.5)	"		X	"	1111	2	X	X	X	X	X	X				
6.	AOC-1-3B (7.0-7.5)	"		X	"	1300	2	X	X	X	X	X	X				
7.	MS-AOC 1-2A (0.0-0.5)	"		X	"	1050	2	X	X	X	X	X	X				
8.	MSD AOC 1-2A (0.0-0.5)	"		X	"	1050	2	X	X	X	X	X	X				
9.	Dup	Soil		X	10/14/08	X	2	X	X	X	X	X	X				
10.	TRIP BLANK	H_2O			10/13/08	X	2	X									

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Damian Cl[illegible]	1700 10/14/08	1.
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3. FED EX	DATE/TIME: 10-15-08 9:30	RECEIVED FOR LAB BY: 3. A Trieste

Conditions of bottles or coolers at receipt: ☑ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 4°C
Ice in Cooler?: Y

Page 1 of 10

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☑ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☑ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

From: Origin ID: CBZA (973)739-9400
Kathleen Buchholtz
Dewberry
600 Parsippany Rd Ste 301

Parsippany, NJ 07054

FedEx Express

CL5080106/21/24

Ship Date: 06OCT08
ActWgt: 20 LB
CAD: 8717900/INET8091
Account#: S *********

Delivery Address Bar Code

Ref # 50013147 E001ODCS
Invoice #
PO #
Dept # 2235 6085

SHIP TO: 9087898922 BILL SENDER

Sample Receiving
Chemtech
284 SHEFFIELD ST

MOUNTAINSIDE, NJ 070922319

TRK# 0201 7919 6272 0486

TUE - 07OCT **A1**
PRIORITY OVERNIGHT

07092
NJ-US
EWR

ZC KBCA

A.T.
10-15-08
9:30

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex com FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic valueof the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $500, e g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide Written claims must be filed within strict time limits, see current FedEx Service Guide

CHEMTECH 284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

LABORATORY CERTIFICATION

STATE	License No.
New Jersey	20012
New York	11376
Florida	E87935
Maryland	296
Massachusetts	M-NJ503
Oklahoma	9705
Rhode Island	LAO00259
Connecticut	PH-0649
Maine	NJ0503
Pennsylvania	68-548

CHEMTECH 284 Sheffield Street, Mountainside, New Jersey 07092 Phone: 908 789 8900 Fax: 908 789 8922

END OF ANALYTICAL RESULTS