Trace level analyses for Soils -01, -02, -03, -04, -05, -07, -08, -09, -10, -11, -16

GC/MS Volatile Organics (VOCs) Technical Review Checklist (TRC) Checklist

☑ CLP Equivalent (trace) ☐ 5030B/8260C ☐ 624 ☐ 524.2 ☐ 5035A/8260C ☐ Other:

For Internal Use Only

Site Name: West Virginia Chemical Leak WO#: 1401014

Analyst: P Bowers Date given to Reviewer: 2-19-14

Matrix (circle): Solid / Aqueous / Other: SOP: R3-QA210.032812

Program (circle): Superfund / RCRA / WPD (NPDES) / SDWA / Other:

The signature below indicates the following:

- This data meets the needs of the customer according to the request.
- The analysis was performed as per the SOP, or exceptions documented.
- All documentation needed to recreate the analyses has been reviewed.
- Data Review status set to Peer Reviewed in Element.

Peer Reviewer signature Sue Warner Date accepted 2-24-14

If any data for this case is stored with another case file, give Site Name and WO:

Peer Reviewer Completes Section Below:

General:	YES	NO	Comments
Raw data is identified with sample ID, site name, WO#, analyst name, date of analysis.	✓		
Quality Control:			
Instrument Conditions:			
BFB frequency and acceptance criteria met	✓		Except 3 or 4 cmpds outside limits for each BS. Data not affected.
Initial curve acceptable	✓		
Continuing calibration acceptable	✓		
Internal standard area counts within criteria	✓		
Lab blank frequency and acceptance criteria met	✓		
Second source (QCS/LCS) acceptable	✓		
Sample Analysis:			
Surrogate recovery acceptance criteria met	✓		Except 5 surrogates just outside limits - see #4 comment
Matrix spike frequency and accept. criteria met	NA		Not analyzed - see #3 comment.
Technical holding times met	✓		Except for Sample 10; noted in narrative.
Documentation:			
Run logs, supporting documentation reviewed	✓		
Sample preparation described	✓		
Spectral and retention time verification	✓		
Manual integration verified and documented	✓		
Data qualified as appropriate	✓		
Documentation is legible and complete	✓		
Calculations/Report:			
Calculations and transcriptions checked	✓		
Element Draft Report reviewed	✓		
Deviations and problems documented	✓		

Freedom_0005792_0001

Additional Comments by Peer Reviewer:

(1) Good work!

Done ✓ (2) 0.5 std for vinyl chloride on 2-4-14 needs initials & date for the manual integration.

OK ✓ (3) Note in narrative that there was no MS/MSD performed.
← an MS/MSD pair was added w/ the receipt of sam -12

Done ✓ (4) Since the surrogate dy-1,2-DCA is outside limits, do you want to qualify results in sample 1401014-16 for acetone, $CHCl_3$ and methylene chloride as "J"?
just slightly out at 115% - but okay

Done ✓ (5) Correct expiration dates for standards as noted. Noted that standard 1400065 was expired (1-31-14) when it was used on 2-4-14 and 2-6-14.
see corrected log page for std & associated second source analysis. PSJ 2/21/2014

Analyst Ensures that the Data Case File is Complete and Accurate:

- ✓ Sample list (bench sheet or work order report)
- ✓ Sample prep / Instrument run logs
- ✓ Standard/Reagent prep logs (cmpd list and TVs)
- ✓ Raw data
- ✓ Element Peer Review report
- ✓ Data status set to analyzed

Manual Integration was used **Yes** ✓ **No** ____

Additional Comments by Analyst on data issues:

Manual Integration Summary Form

Site Name: West Virginia Chemical Leak Work Order Number: 1401014
trace level analyses

Check all reasons that apply:

( ) Manual integration performed to properly integrate unresolved peaks.

( ) Manual integration performed to separate closely eluting peaks with the same quantitation ion.

( ) Manual integration performed to remove coeluting interferent.

( ) Manual integration performed to add a non-detected peak.

(✓) Manual integration performed to identify correct peak.

(✓) Manual integration performed due to peak splitting.

(✓) Manual integration performed due to failure of the instrument response to return to baseline or a rise in the baseline.

( ) Manual integration performed to employ peak skimming due to coeluting peaks.

( ) Manual integration performed due to poor chromatography (peak shape).

Additional Notes:

Analyst: Peggy S Zamodra Date: 2/19/2014

Peer Reviewer: Sue Warner Date: 2-21-14

Rev. 5/4/11

Case File Contents

Volatile Organic Compounds

VOCs by CLP Equivalent (trace)

WO 1401014

West Virginia Chemical Leak

DAS R34317

Summary of Results / Project Information

Ex. 5 - Deliberative

Ex. 5 - Deliberative

Ex. 5 - Deliberative

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Ex. 5 - Deliberative

Ex. 5 - Deliberative

Case File Contents

Volatile Organic Compounds

VOCs by CLP Equivalent (trace)

WO 1401014

West Virginia Chemical Leak

DAS R34317

Log Book Copies, Run Logs

VOC PURGE & TRAP PREPARATION BENCH SHEET

BA43003

U.S. EPA Region 3

bch_voc_purge.rpt

Project: DAS R34317
Work Order No: 1401014
Site Name: West Virginia Chemical Leak
Analysis: VOCs by CLP Equivalent (trace)
Matrix: Water

Printed: 2/5/2014 10:36:42AM

Prepared using: ORGANIC-GCMS - VOC Purge and Trap

Surrogate used: 1300466

LabNumber	Container ID	Prepared	Initial (mL)	Final (mL)	Surrogate (µL)	Source ID	Spike 1 ID	Spike 1 (µL)	Spike 2 ID	Spike 2 (µL)	Notes
1401014-01	A	01/30/14 15:11	5	5	2						
1401014-02	A	01/30/14 15:39	5	5	2						
1401014-03	A	01/30/14 16:07	5	5	2						
1401014-04	A	01/30/14 14:44	5	5	2						
1401014-05	A	01/30/14 14:16	5	5	2						
BA43003-BLK1		01/30/14 13:48	5	5	2						
BA43003-BS1		01/30/14 12:51	5	5	2		1400059	0.125			

VOC PURGE & TRAP PREPARATION BENCH SHEET

BB41006

U.S. EPA Region 3

bch_voc_purge.rpt

Project: DAS R34317
Work Order No: 1401014
Site Name: West Virginia Chemical Leak
Analysis: VOCs by CLP Equivalent (trace)
Matrix: Water

Printed: 2/11/2014 4:07:19PM

Prepared using: ORGANIC-GCMS - VOC Purge and Trap

Surrogate used: 1300466

LabNumber	Container ID	Prepared	Initial (mL)	Final (mL)	Surrogate (µL)	Source ID	Spike 1 ID	Spike 1 (µL)	Spike 2 ID	Spike 2 (µL)	Notes
1401014-07	B	02/06/14 12:37	5	5	2						
1401014-08	A	02/04/14 18:11	5	5	2						
BB41006-BLK1		02/04/14 17:42	5	5	2						
BB41006-BLK2		02/06/14 11:41	5	5	2						
BB41006-BLK3		02/06/14 12:09	5	5	2						storage VOA blank in E-206
BB41006-BS1		02/04/14 16:45	5	5	2		1400059	0.125			

VOC PURGE & TRAP PREPARATION BENCH SHEET

BB41203

U.S. EPA Region 3

bch_voc_purge.rpt

Project: DAS R34317
Work Order No: 1401014
Site Name: West Virginia Chemical Leak
Analysis: VOCs by CLP Equivalent (trace)
Matrix: Water

Printed: 2/19/2014 3:00:25PM

Prepared using: ORGANIC-GCMS - VOC Purge and Trap

Surrogate used: 1400072

LabNumber	Container ID	Prepared	Initial (mL)	Final (mL)	Surrogate (µL)	Source ID	Spike 1 ID	Spike 1 (µL)	Spike 2 ID	Spike 2 (µL)	Notes
1401014-09	B	02/12/14 16:53	5	5	2						
1401014-10	B	02/12/14 15:30	5	5	2						
1401014-11	A	02/12/14 15:58	5	5	2						
1401014-16	A	02/12/14 16:26	5	5	2						
BB41203-BLK1		02/12/14 14:35	5	5	2						
BB41203-BLK2		02/12/14 15:03	5	5	2						
BB41203-BS1		02/12/14 13:40	5	5	2		1400086	0.125			

Starting sequence Thu Jan 30 07:55:47 2014

Instrument Name: PZ1-AG5975
Sequence File: C:\msdchem\1\sequence\Trace calibration ext.S
Comment: Trace Level Calibration
Operator: PZ PZ1-AG5975 QS3
Data Path: D:\DATA\L01302014\
Method Path: C:\msdchem\1\METHODS\

WO 1401014
West Virginia Chemical Leak

Line	Type	Vial	DataFile	Method	Sample Name
1)	COMMENT: '5 ML SAMPLE PURGED; IS/SS = 5 PPB'				
2)	COMMENT: 'STANDARDS' 1300466, 1400060, 1400058, 1400061, 1400017				
3)	COMMENT: 'SEE ANALYSIS LOG FOR MORE INFORMATION '				
4)	Blank	1	0130RIN1	TRACEVOC	Blank
5)	Sample	2	0130BFB	TRACEVOC	25 ng BFB, 2uL IS/SS in 5mL
6)	Sample	3	0130SYS	TRACEVOC	System Check, 0.25uL - 100mL
7)	Sample	4	0130C005	TRACEVOC	0.5 ppb; 0.25uL - 100mL
8)	Sample	5	0130C01	TRACEVOC	1 ppb; 0.5uL - 100mL
9)	Sample	6	0130C05	TRACEVOC	5 ppb; 2.5uL - 100mL
10)	Sample	7	0130C10	TRACEVOC	10 ppb; 5uL - 100mL
11)	Sample	8	0130C20	TRACEVOC	20 ppb; 10uL - 100mL
12)	Sample	9	0130C50	TRACEVOC	50 ppb; 25uL - 100mL
13)	Blank	10	0130RIN2	TRACEVOC	Blank
14)	Sample	11	0130BS1	TRACEVOC	Batch-BS1 1400059 .25ul → 100ml
15)	Blank	12	0130RIN3	TRACEVOC	Blank
16)	Sample	13	0130BLK	TRACEVOC	Batch-BLK1
17)	Sample	14	1401014-05	A	pH 8
	Datafile		140101405		
	Method		TRACEVOC		
18)	Sample	15	1401014-04	A	8
	Datafile		140101404		
	Method		TRACEVOC		
19)	Sample	16	1401014-01	A	8
	Datafile		140101401		
	Method		TRACEVOC		
20)	Sample	17	1401014-02	A	8
	Datafile		140101402		
	Method		TRACEVOC		
21)	Sample	18	1401014-03	A	8
	Datafile		140101403		
	Method		TRACEVOC		
22)	Blank	19	0130RIN4	TRACEVOC	Blank
23)	Blank	20	0130RIN5	TRACEVOC	Blank
24)	Blank	21	0130RIN6	TRACEVOC	Blank
25)	Blank	22	0130RIN7	TRACEVOC	Blank
26)	Blank	23	0130RIN8	TRACEVOC	Blank
27)	Blank	24	0130RIN9	TRACEVOC	Blank
28)	COMMAND: 'PRINTSEQLOG'				

Executing Command: PRINTSEQLOG

Freedom_0005792_0070

Analysis Log

Date	Filename	Lab ID	Sample Info
30 Jan 2014 8:06	0130RIN1.D	Blank	
30 Jan 2014 8:34	0130BFB.D	25 ng BFB, 2uL IS/SS in 5mL	
30 Jan 2014 9:09	0130SYS.D	System Check, 0.25uL - 100mL	
30 Jan 2014 9:37	0130C005.D	0.5 ppb; 0.25uL - 100mL	
30 Jan 2014 10:05	0130C01.D	1 ppb; 0.5uL - 100mL	
30 Jan 2014 10:32	0130C05.D	5 ppb; 2.5uL - 100mL	
30 Jan 2014 11:00	0130C10.D	10 ppb; 5uL - 100mL	
30 Jan 2014 11:28	0130C20.D	20 ppb; 10uL - 100mL	
30 Jan 2014 11:56	0130C50.D	50 ppb; 25uL - 100mL	
30 Jan 2014 12:24	0130RIN2.D	Blank	
30 Jan 2014 12:51	0130BS1.D	Batch-BS1	R-MegaMix w/Gases 2.5uL - 100mL
30 Jan 2014 13:20	0130RIN3.D	Blank	
30 Jan 2014 13:48	0130BLK.D	Batch-BLK1	
30 Jan 2014 14:16	140101405.D	1401014-05	A, TB01
30 Jan 2014 14:44	140101404.D	1401014-04	A, FB01
30 Jan 2014 15:11	140101401.D	1401014-01	A, CU
30 Jan 2014 15:39	140101402.D	1401014-02	A, CD
30 Jan 2014 16:07	140101403.D	1401014-03	A, CD1
30 Jan 2014 16:35	0130RIN4.D	Blank	
30 Jan 2014 17:03	0130RIN5.D	Blank	
30 Jan 2014 17:31	0130RIN6.D	Blank	
30 Jan 2014 17:59	0130RIN7.D	Blank	
30 Jan 2014 18:27	0130RIN8.D	Blank	
30 Jan 2014 18:55	0130RIN9.D	Blank	

Freedom_0005792_0071

Starting sequence Tue Feb 04 08:00:49 2014

Instrument Name: PZ1-AG5975
Sequence File: C:\msdchem\1\sequence\Trace calibration ext.S
Comment: Trace Level Calibration
Operator: PZ PZ1-AG5975 BS
Data Path: D:\DATA\L02042014\
Method Path: C:\msdchem\1\METHODS\

WO1401014
West Virginia
Chemical Leak

Line	Type	Vial	DataFile	Method	Sample Name
1)	COMMENT:				'5 ML SAMPLE PURGED; IS/SS = 5 PPB'
2)	COMMENT:				'STANDARDS' 1300466, 1400065, 1400064, 1400017
3)	COMMENT:				'SEE ANALYSIS LOG FOR MORE INFORMATION '
4)	Blank	1	0204RIN1	TRACEVOC	Blank
5)	Sample	2	0204BFB	TRACEVOC	25 ng BFB, 2uL IS/SS in 5mL
6)	Sample	3	0204BFB2	TRACEVOC	25 ng BFB, 2uL IS/SS in 5mL
7)	PAUSE: ' '				

Sequence paused Tue Feb 04 09:31:38 2014

D:\DATA\L02042014\ Quality Log 2014 Feb 04 0800.LOG
D:\DATA\L02042014\Sequence Log 2014 Feb 04 0800.LOG

Resuming sequence Tue Feb 04 11:13:32 2014

Instrument Name: PZ1-AG5975
Sequence File: C:\msdchem\1\sequence\Trace calibration ext.S
Comment: Trace Level Calibration
Operator: PZ PZ1-AG5975
Data Path: D:\DATA\L02042014\
Method Path: C:\msdchem\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
8)	COMMENT:				'SOURCE TUNED TO PFTBA'
9)	Sample	4	0204BFB3	TRACEVOC	25 ng BFB, 2uL IS/SS in 5mL
10)	Sample	5	0204SYS	TRACEVOC	System Check, 0.25uL - 100mL
11)	Sample	6	0204C005	TRACEVOC	0.5 ppb; 0.25uL - 100mL
12)	Sample	7	0204C01	TRACEVOC	1 ppb; 0.5uL - 100mL
13)	Sample	8	0204C05	TRACEVOC	5 ppb; 2.5uL - 100mL
14)	Sample	9	0204C10	TRACEVOC	10 ppb; 5uL - 100mL
15)	Sample	10	0204C20	TRACEVOC	20 ppb; 10uL - 100mL
16)	Sample	11	0204C50	TRACEVOC	50 ppb; 25uL - 100mL
17)	Blank	12	0204RIN2	TRACEVOC	Blank
18)	Sample	13	0204D005	TRACEVOC	0.5 ppb; 0.25uL - 100mL
19)	Sample	14	0204E005	TRACEVOC	0.5 ppb; 0.25uL - 100mL
20)	Sample	15	0204BS1	TRACEVOC	Batch-BS1 1400059 2.5µL → 100mL of W
21)	Blank	16	0204RIN3	TRACEVOC	Blank
22)	Sample	17	0204BLK	TRACEVOC	Batch-BLK1
23)	Sample	18	1401014-08		pH = 7
	Datafile		140101408		
	Method		TRACEVOC		

Freedom_0005792_0072

```
24) Sample          19  1401014-06
     Datafile           140101406      pH = 8
     Method             TRACEVOC

25) Blank           20  0204RIN4  TRACEVOC  Blank

26) Sample          21  1401014-07
     Datafile           140101407      pH = 7
     Method             TRACEVOC

27) Blank           22  0204RIN5  TRACEVOC  Blank
28) COMMAND: 'PRINTSEQLOG'
Executing Command: PRINTSEQLOG
```


Freedom_0005792_0073

Analysis Log

Date	Filename	Lab ID	Sample Info
4 Feb 2014 8:12	0204RIN1.D	Blank	
4 Feb 2014 8:40	0204BFB.D	25 ng BFB, 2uL IS/SS in 5mL	
4 Feb 2014 9:12	0204BFB2.D	25 ng BFB, 2uL IS/SS in 5mL	
4 Feb 2014 11:26	0204BFB3.D	25 ng BFB, 2uL IS/SS in 5mL	
4 Feb 2014 12:01	0204SYS.D	System Check, 0.25uL - 100mL	
4 Feb 2014 12:29	0204C005.D	0.5 ppb; 0.25uL - 100mL	
4 Feb 2014 12:57	0204C01.D	1 ppb; 0.5uL - 100mL	
4 Feb 2014 13:26	0204C05.D	5 ppb; 2.5uL - 100mL	
4 Feb 2014 13:54	0204C10.D	10 ppb; 5uL - 100mL	
4 Feb 2014 14:23	0204C20.D	20 ppb; 10uL - 100mL	
4 Feb 2014 14:51	0204C50.D	50 ppb; 25uL - 100mL	
4 Feb 2014 15:19	0204RIN2.D	Blank	
4 Feb 2014 15:48	0204D005.D	0.5 ppb; 0.25uL - 100mL	
4 Feb 2014 16:17	0204E005.D	0.5 ppb; 0.25uL - 100mL	
4 Feb 2014 16:45	0204BS1.D	Batch-BS1	R-MegaMix w/Gases 2.5uL
4 Feb 2014 17:14	0204RIN3.D	Blank	
4 Feb 2014 17:42	0204BLK.D	Batch-BLK1	
4 Feb 2014 18:11	140101408.D	1401014-08	A, TB02
4 Feb 2014 18:39	140101406.D	1401014-06	A, Pipe-1
4 Feb 2014 19:07	0204RIN4.D	Blank	
4 Feb 2014 19:35	140101407.D	1401014-07	A, Seep-1
4 Feb 2014 20:03	0204RIN5.D	Blank	

Freedom_0005792_0074

Starting sequence Thu Feb 06 09:10:28 2014

WO 1401014
West Virginia Chemical Leak

Instrument Name: PZ1-AG5975
Sequence File: C:\msdchem\1\sequence\Trace continuing.S
Comment:
Operator: PZ PZ1-AG5975 PS3
Data Path: D:\DATA\L02062014\
Method Path: C:\msdchem\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	COMMENT: '5 ML SAMPLE PURGED; IS/SS = 5 PPB'				
2)	COMMENT: 'STANDARDS' 1300466, 1400065, 1400064, 1400017				
3)	COMMENT: 'INITIAL CALIBRATION: 02/04/2014'				
4)	COMMENT: 'SEE ANALYSIS LOG FOR MORE INFORMATION '				
5)	Blank	1	0206RIN1	TRACEVOC	Blank
6)	Sample	2	0206BFB	TRACEVOC	25 ng BFB, 2uL IS/SS in 5mL
7)	PAUSE: ' '				

Sequence paused Thu Feb 06 10:09:12 2014

D:\DATA\L02062014\ Quality Log 2014 Feb 06 0910.LOG
D:\DATA\L02062014\Sequence Log 2014 Feb 06 0910.LOG

Resuming sequence Thu Feb 06 10:31:37 2014

Instrument Name: PZ1-AG5975
Sequence File: C:\msdchem\1\sequence\Trace continuing.S
Comment:
Operator: PZ PZ1-AG5975
Data Path: D:\DATA\L02062014\
Method Path: C:\msdchem\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
8)	Sample	3	0206CC05	TRACEVOC	5 ppb; 2.5uL - 100mL
9)	Blank	4	0206RIN2	TRACEVOC	Blank
10)	Sample	5	0206BLK	TRACEVOC	Batch-BLK1
11)	Sample	6	0206HBK	TRACEVOC	Storage Blank
12)	Sample	7	1401014-07		
	Datafile		140101407	pH = 7	
	Method		TRACEVOC		
13)	Blank	8	0206RIN3	TRACEVOC	Blank
14)	COMMAND: 'PRINTSEQLOG'				

Executing Command: PRINTSEQLOG

Freedom_0005792_0075

Analysis Log

Date	Filename	Lab ID	Sample Info
6 Feb 2014 9:21	0206RIN1.D	Blank	
6 Feb 2014 9:49	0206BFB.D	25 ng BFB, 2uL IS/SS in 5mL	
6 Feb 2014 10:44	0206CC05.D	5 ppb; 2.5uL - 100mL	
6 Feb 2014 11:12	0206RIN2.D	Blank	
6 Feb 2014 11:41	0206BLK.D	Batch-BLK1	
6 Feb 2014 12:09	0206HBK.D	Storage Blank	Prep'd 2-4-14, rm G20
6 Feb 2014 12:37	140101407.D	1401014-07	B, Seep-1
6 Feb 2014 13:06	0206RIN3.D	Blank	

Freedom_0005792_0076

Starting sequence Wed Feb 12 08:18:10 2014

WO 1401014
West Virginia Chemical Leak.

Instrument Name: PZ1-AG5975
Sequence File: C:\msdchem\1\sequence\Trace calibration.S
Comment: Trace Level Calibration
Operator: PZ PZ1-AG5975 PS3
Data Path: D:\DATA\L02122014\
Method Path: C:\msdchem\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	COMMENT:				'5 ML SAMPLE PURGED; IS/SS = 5 PPB'
2)	COMMENT:				'STANDARDS' 1400072, 1400084, 1400085, 1400076
3)	COMMENT:				'SEE ANALYSIS LOG FOR MORE INFORMATION '
4)	Blank	1	0212RIN1	TRACEVOC	Blank
5)	Sample	2	0212BFB	TRACEVOC	25 ng BFB, 2uL IS/SS in 5mL
6)	Sample	3	0212SYS	TRACEVOC	System Check, 0.25uL - 100mL
7)	Sample	4	0212C005	TRACEVOC	0.5 ppb; 0.25uL - 100mL
8)	Sample	5	02121C01	TRACEVOC	1 ppb; 0.5uL - 100mL
9)	Sample	6	0212C05	TRACEVOC	5 ppb; 2.5uL - 100mL
10)	Sample	7	0212C10	TRACEVOC	10 ppb; 5uL - 100mL
11)	Sample	8	0212C20	TRACEVOC	20 ppb; 10uL - 100mL
12)	Sample	9	0212C50	TRACEVOC	50 ppb; 25uL - 100mL
13)	Blank	10	0212RIN2	TRACEVOC	Blank
14)	Sample	11	0212BS1	TRACEVOC	Batch-BS1 1400086 2.5µL → 100mL of W
15)	Blank	12	0212RIN3	TRACEVOC	Blank
16)	Sample	13	0212BLK	TRACEVOC	Batch-BLK1
17)	Sample	14	0212BLK2	TRACEVOC	VOA Storage Blank
18)	Sample	15	1401014-10	B	pH = 8
	Datafile		140101410		
	Method		TRACEVOC		
19)	Sample	16	1401014-11	A	pH = 8
	Datafile		140101411		
	Method		TRACEVOC		
20)	Sample	17	1401014-16	A	pH = 8
	Datafile		140101416		
	Method		TRACEVOC		
21)	Sample	18	1401014-09	B	pH = 7
	Datafile		140101409		
	Method		TRACEVOC		
22)	Sample	19	1401014-12	A	pH = 7
	Datafile		140101412		
	Method		TRACEVOC		
23)	Sample	20	1401014-13	A	pH = 7
	Datafile		140101413		
	Method		TRACEVOC		
24)	Sample	21	1401014-14	A	pH = 7
	Datafile		140101414		
	Method		TRACEVOC		

Freedom_0005792_0077

```
 25) Sample        22  1401014-15
     Datafile          140101415
     Method            TRACEVOC
 26) PAUSE: ' '
```

A

pH = 7

Sequence paused Wed Feb 12 19:05:01 2014

D:\DATA\L02122014\ Quality Log 2014 Feb 12 0818.LOG
D:\DATA\L02122014\Sequence Log 2014 Feb 12 0818.LOG

Resuming sequence Tue Feb 18 08:10:14 2014

```
  Instrument Name: PZ1-AG5975
    Sequence File: C:\msdchem\1\sequence\Trace calibration.S
          Comment: Trace Level Calibration
         Operator: PZ  PZ1-AG5975
        Data Path: D:\DATA\L02122014\
      Method Path: C:\msdchem\1\METHODS\

    Line Type        Vial  DataFile  Method    Sample Name
    ---------------------------------------------------------------------
     27) COMMAND: 'PRINTSEQLOG'
    Executing Command: PRINTSEQLOG
```


Freedom_0005792_0078

Analysis Log

Date		Filename	Lab ID	Sample Info
12 Feb 2014	8:26	0212RIN1.D	Blank	
12 Feb 2014	9:20	0212BFB.D	25 ng BFB, 2uL IS/SS in 5mL	
12 Feb 2014	9:58	0212SYS.D	System Check, 0.25uL - 100mL	
12 Feb 2014	10:25	0212C005.D	0.5 ppb; 0.25uL - 100mL	
12 Feb 2014	10:53	02121C01.D	1 ppb; 0.5uL - 100mL	
12 Feb 2014	11:21	0212C05.D	5 ppb; 2.5uL - 100mL	
12 Feb 2014	11:49	0212C10.D	10 ppb; 5uL - 100mL	
12 Feb 2014	12:17	0212C20.D	20 ppb; 10uL - 100mL	
12 Feb 2014	12:44	0212C50.D	50 ppb; 25uL - 100mL	
12 Feb 2014	13:12	0212RIN2.D	Blank	
12 Feb 2014	13:40	0212BS1.D	Batch-BS1	R-MegaMix w/Gases 2.5uL - 100mL
12 Feb 2014	14:07	0212RIN3.D	Blank	
12 Feb 2014	14:35	0212BLK.D	Batch-BLK1	
12 Feb 2014	15:03	0212BLK2.D	VOA Storage Blank	prep'd 1-30-2014 rm G206
12 Feb 2014	15:30	140101410.D	1401014-10	B, TB03
12 Feb 2014	15:58	140101411.D	1401014-11	A, TB04
12 Feb 2014	16:26	140101416.D	1401014-16	A, FB02
12 Feb 2014	16:53	140101409.D	1401014-09	B, MW-2
12 Feb 2014	17:21	140101412.D	1401014-12	A, MW-5
12 Feb 2014	17:49	140101413.D	1401014-13	A, MW-6
12 Feb 2014	18:17	140101414.D	1401014-14	A, MW-3
12 Feb 2014	18:45	140101415.D	1401014-15	A, MW-4

Freedom_0005792_0079

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1300466

std_Org_analytical.rpt

Description:	PSZ IS/SS 12-18-2013 (PZ1-AG5975)	Expires:	03/18/2014
Standard Type:	Surrogate Spike	Prepared:	12/18/2013
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	Methanol Lot # 13464	Vendor:	NA
Final Volume (mls):	20	Vendor Lot:	NA
Vials:	1		
Reagent Purity Checked	PS3		

Storage: Room temperature Note: 2 uL injected into each 5 mL sample.
12.5 ug/mL x 0.002 mL = 0.025 ug or 25 ng BFB purged for daily tune check
0.025 ug in 5 mL = 0.025 ug / 0.005 L = 5 ug/L or 5 ppb IS/SS

Analyte	CAS Number	Concentration	Units
1,2-Dichloroethane-d4	17060-07-0	12.5	ug/mL
1,4-Dichlorobenzene-d4	3855-82-1	12.5	ug/mL
1,4-Difluorobenzene	540-36-3	12.5	ug/mL
4-Bromofluorobenzene	460-00-4	12.5	ug/mL
Chlorobenzene-d5	3114-55-4	12.5	ug/mL
Toluene-d8	2037-26-5	12.5	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Expires	Prepared By	Vendor	Vendor Lot	Conc.	(mls)
1300414	PSZ Surrogates 11-05-2013	11/05/2013	02/05/2014	Peggy Zawodny	AccuStandard	209061243	2500	0.1
1300465	PSZ Internal Stds 12-18-2013	12/18/2013	03/18/2014	Peggy Zawodny	Supelco	LB91236	2000	0.125

Freedom_0005792_0080

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1300465

std_Org_analytical.rpt

Description:	PSZ Internal Stds 12-18-2013	Expires:	03/18/2014
Standard Type:	Other	Prepared:	12/18/2013
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Supelco
Final Volume (mls):	1	Vendor Lot:	LB91236
Vials:	1	Received:	07/09/2013
Reagent Purity Checked	RSS	Mfgr Expiration:	03/31/2015

Storage: Room temperature

Analyte	CAS Number	Concentration	Units
1,4-Dichlorobenzene-d4	3855-82-1	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL

NOTEBOOK INSERT LABEL

CLP VOA Internal Standard Spiking Solution **47568-U**

Lot: LB91236 EXP: MAR/2015 STORAGE: ROOM TEMP. 1 x 1ml

DATE RECEIVED: 7-9-2013

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16823-0048 USA • Phone 814-359-3441

Freedom_0005792_0081

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1300414

std_Org_analytical.rpt

Description:	PSZ Surrogates 11-05-2013	Expires:	02/05/2014
Standard Type:	Other	Prepared:	11/05/2013
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	AccuStandard
Final Volume (mls):	1	Vendor Lot:	209061243
Vials:	1	Received:	10/25/2012
Reagent Purity Checked	PSZ	Mfgr Expiration:	06/24/2019

Storage: Room temperature

Analyte	CAS Number	Concentration	Units
1,2-Dichloroethane-d4	17060-07-0	2500	ug/mL
4-Bromofluorobenzene	460-00-4	2500	ug/mL
Toluene-d8	2037-26-5	2500	ug/mL

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FOR LABORATORY USE ONLY

CLP-PS-10X 1 mL

Purgeable Surrogate Standard rec'd 10-25-12

2.5 mg/mL in MeOH

Lot: 209061243

Exp: Jun 24,2019

3 comps.

HIGHLY FLAMMABLE

STORAGE Ambient

Freedom_0005792_0082

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400060

std_Org_analytical.rpt

Description:	SCW M502A Target Mix 1-27-2014	Expires:	02/27/2014
Standard Type:	Analyte Spike	Prepared:	01/27/2014
Department:	ORGANIC-GCMS	Prepared By:	Sue Warner
Solvent:	NA	Vendor:	AccuStandard
Final Volume (mls):	1	Vendor Lot:	212081333
Vials:	1	Received:	01/07/2014
Reagent Purity Checked	ACW	Mfgr Expiration:	08/16/2015

Storage: Freezer

Analyte	CAS Number	Concentration	Units
1,1,1,2-Tetrachloroethane	630-20-6	200	ug/mL
1,1,1-Trichloroethane	71-55-6	200	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	200	ug/mL
1,1,2-Trichloroethane	79-00-5	200	ug/mL
1,1-Dichloroethane	75-34-3	200	ug/mL
1,1-Dichloroethene	75-35-4	200	ug/mL
1,1-Dichloropropene	563-58-6	200	ug/mL
1,2,3-Trichlorobenzene	87-61-6	200	ug/mL
1,2,3-Trichloropropane	96-18-4	200	ug/mL
1,2,4-Trichlorobenzene	120-82-1	200	ug/mL
1,2,4-Trimethylbenzene	95-63-6	200	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	200	ug/mL
1,2-Dibromoethane (EDB)	106-93-4	200	ug/mL
1,2-Dichlorobenzene	95-50-1	200	ug/mL
1,2-Dichloroethane	107-06-2	200	ug/mL
1,2-Dichloropropane	78-87-5	200	ug/mL
1,3,5-Trimethylbenzene	108-67-8	200	ug/mL
1,3-Dichlorobenzene	541-73-1	200	ug/mL
1,3-Dichloropropane	142-28-9	200	ug/mL
1,4-Dichlorobenzene	106-46-7	200	ug/mL
2,2-Dichloropropane	594-20-7	200	ug/mL
2-Chlorotoluene	95-49-8	200	ug/mL
4-Chlorotoluene	106-43-4	200	ug/mL
Benzene	71-43-2	200	ug/mL
Bromobenzene	108-86-1	200	ug/mL
Bromochloromethane	74-97-5	200	ug/mL
Bromodichloromethane	75-27-4	200	ug/mL
Bromoform	75-25-2	200	ug/mL
Carbon Tetrachloride	56-23-5	200	ug/mL
Chlorobenzene	108-90-7	200	ug/mL

Freedom_0005792_0083

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400060

std_Org_analytical.rpt

Chlorodibromomethane	124-48-1	200	ug/mL
Chloroform	67-66-3	200	ug/mL
cis-1,2-Dichloroethene	156-59-2	200	ug/mL
cis-1,3-Dichloropropene	10061-01-5	200	ug/mL
Dibromomethane	74-95-3	200	ug/mL
Ethylbenzene	100-41-4	200	ug/mL
Hexachlorobutadiene	87-68-3	200	ug/mL
Isopropylbenzene	98-82-8	200	ug/mL
Methylene Chloride	75-09-2	200	ug/mL
m-Xylene/p-Xylene		400	ug/mL
Naphthalene	91-20-3	200	ug/mL
n-Butylbenzene	104-51-8	200	ug/mL
n-Propylbenzene	103-65-1	200	ug/mL
o-Xylene	95-47-6	200	ug/mL
p-Isopropyltoluene	99-87-6	200	ug/mL
sec-Butylbenzene	135-98-8	200	ug/mL
Styrene	100-42-5	200	ug/mL
tert-Butylbenzene	98-06-6	200	ug/mL
Tetrachloroethene	127-18-4	200	ug/mL
Toluene	108-88-3	200	ug/mL
trans-1,2-Dichloroethene	156-60-5	200	ug/mL
trans-1,3-Dichloropropene	10061-02-6	200	ug/mL
Trichloroethene	79-01-6	200	ug/mL

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M-502A-R 1 mL

Volatile Organic Compounds - Liquids

0.2 mg/mL in MeOH

Lot: 212081333 54 comps.

Exp: Aug 16,2015 HIGHLY FLAMMABLE

Redd 1-7-14

FOR LABORATORY USE ONLY

WARNING: This product contains chemicals known to the State of Califon to cause cancer and birth defects or ott reproductive harm.

STORAGE Refrig (0-5° C)

Danger

Freedom_0005792_0084

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400058

std_Org_analytical.rpt

Description:	SCW Gases+HSL 1-27-2014	Expires:	02/10/2014
Standard Type:	Analyte Spike	Prepared:	01/27/2014
Department:	ORGANIC-GCMS	Prepared By:	Sue Warner
Solvent:	Methanol Lot # 13704	Vendor:	NA
Final Volume (mls):	1	Vendor Lot:	NA
Vials:	1		
Reagent Purity Checked	DCW		

Storage: Freezer

Analyte	CAS Number	Concentration	Units
2-Butanone	78-93-3	200	ug/mL
2-Hexanone	591-78-6	200	ug/mL
4-Methyl-2-pentanone	108-10-1	200	ug/mL
Acetone	67-64-1	200	ug/mL
Bromomethane	74-83-9	200	ug/mL
Carbon disulfide	75-15-0	200	ug/mL
Chloroethane	75-00-3	200	ug/mL
Chloromethane	74-87-3	200	ug/mL
Dichlorodifluoromethane	75-71-8	200	ug/mL
o-Xylene	95-47-6	200	ug/mL
Styrene	100-42-5	200	ug/mL
Trichlorofluoromethane	75-69-4	200	ug/mL
Vinyl acetate	108-05-4	200	ug/mL
Vinyl chloride	75-01-4	200	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Expires	Prepared By	Vendor	Vendor Lot	Conc.	(mls)
1400056	SCW M-HSL 1-27-2014	01/27/2014	04/04/2014	Sue Warner	AccuStandard	213091383	2000	0.1
1400057	SCW VOC#6 1-27-2014	01/27/2014	04/27/2014	Sue Warner	Supelco	LC02822	2000	0.1

Freedom_0005792_0085

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400057

std_Org_analytical.rpt

Description:	SCW VOC#6 1-27-2014	Expires:	04/27/2014
Standard Type:	Other	Prepared:	01/27/2014
Department:	ORGANIC-GCMS	Prepared By:	Sue Warner
Solvent:	NA	Vendor:	Supelco
Final Volume (mls):	1	Vendor Lot:	LC02822
Vials:	1	Received:	11/05/2013
Reagent Purity Checked	SCW	Mfgr Expiration:	12/31/2014

Storage: Refrigerate upon receipt; after opening: Freezer

Analyte	CAS Number	Concentration	Units
Bromomethane	74-83-9	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Vinyl chloride	75-01-4	2000	ug/mL

NOTEBOOK INSERT LABEL

Volatile Organic Compounds Mix 6 **48799-U**
Lot: LC02822 EXP: DEC/2014 STORAGE: REFRIGERATE 1 x 1.5ml

DATE RECEIVED: 11-5-13

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Freedom_0005792_0086

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400056

std_Org_analytical.rpt

Description:	SCW M-HSL 1-27-2014	Expires:	04/04/2014
Standard Type:	Other	Prepared:	01/27/2014
Department:	ORGANIC-GCMS	Prepared By:	Sue Warner
Solvent:	NA	Vendor:	AccuStandard
Final Volume (mls):	1	Vendor Lot:	213091383
Vials:	1	Received:	01/07/2014
Reagent Purity Checked	SCW	Mfgr Expiration:	04/04/2014

Storage: Freezer

Analyte	CAS Number	Concentration	Units
2-Butanone	78-93-3	2000	ug/mL
2-Hexanone	591-78-6	2000	ug/mL
4-Methyl-2-pentanone	108-10-1	2000	ug/mL
Acetone	67-64-1	2000	ug/mL
Carbon disulfide	75-15-0	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
Vinyl acetate	108-05-4	2000	ug/mL

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M-HSL 1 mL

Hazardous Substance List Compounds
2.0 mg/mL in MeOH

Lot: 213091383
Exp: Apr 4,2014

Rec'd 1-7-14

8 comps.

HIGHLY FLAMMABLE

FOR LABORATORY USE ONLY

WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or othe reproductive harm.

STORAGE Freeze (<-10° C)

Danger

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400061

std_Org_analytical.rpt

Description:	PSZ R-Custom Mix Secondary 01-30-2014	Expires:	02/28/2014
Standard Type:	Analyte Spike	Prepared:	01/30/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	Methanol Lot # 13464	Vendor:	NA
Final Volume (mls):	1	Vendor Lot:	NA
Vials:	1		
Reagent Purity Checked	PS3		

Storage: Freezer

Analyte	CAS Number	Concentration	Units
Cyclohexane	110-82-7	200	ug/mL
Freon 113	76-13-1	200	ug/mL
Methyl Acetate	79-20-9	200	ug/mL
Methylcyclohexane	108-87-2	200	ug/mL
Methyl-tert-butyl ether	1634-04-4	200	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Expires	Prepared By	Vendor	Vendor Lot	Conc.	(mls)
1400024	PSZ R-Custom Mix 01-13-2014	01/13/2014	02/28/2014	Peggy Zawodny	Restek	A090152	2000	0.1

Freedom_0005792_0088

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400024 ✓

std_Org_analytical.rpt

Description:	PSZ R-Custom Mix 01-13-2014	Expires:	~~04/13/2014~~ 2/28/2014 PS3 1/15/14
Standard Type:	Other	Prepared:	01/13/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Restek ✓
Final Volume (mls):	1	Vendor Lot:	A090152 ✓
Vials:	1	Received:	08/14/2012 ✓
Reagent Purity Checked	PS3	Mfgr Expiration:	02/28/2014 ✓

Storage: Freezer

Analyte	CAS Number	Concentration	Units
Cyclohexane	110-82-7	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Methyl Acetate	79-20-9	2000	ug/mL
Methylcyclohexane	108-87-2	2000	ug/mL
Methyl-tert-butyl ether	1634-04-4	2000	ug/mL

RESTEK 110 Benner Circle Bellefonte, PA 16823 Made in USA

Catalog # 57670 Recd 8-14-12

Custom Volatiles Standard

2000 ug/mL each in P&T Methanol

Lot# A090152 Exp. Date: 02/2014 Store. 0°C or colder

Freedom_0005792_0089

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400017

std_Org_analytical.rpt

Description:	SCW 2-CEVE 1-9-2014	Expires:	04/09/2014
Standard Type:	Analyte Spike	Prepared:	01/09/2014
Department:	ORGANIC-GCMS	Prepared By:	Sue Warner
Solvent:	NA	Vendor:	Supelco
Final Volume (mls):	1	Vendor Lot:	LB84071
Vials:	1	Received:	08/12/2013
Reagent Purity Checked	SCW	Mfgr Expiration:	04/30/2014

Storage: Refrigerator (before opening); Freezer (after opening)

Analyte	CAS Number	Concentration	Units
2-Chloroethylvinyl ether	110-75-8	200	ug/mL

NOTEBOOK INSERT LABEL

2-Chloroethyl vinyl ether **4-8672**

Lot: LB84071 EXP: APR/2014 STORAGE: REFRIGERATE 1 x 1ml

DATE RECEIVED: 8-12-13

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Freedom_0005792_0090

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400059

std_Org_analytical.rpt

Description:	SCW R-V MegaMix w/gases 1-27-2014	Expires:	02/27/2014
Standard Type:	Analyte Spike	Prepared:	01/27/2014
Department:	ORGANIC-GCMS	Prepared By:	Sue Warner
Solvent:	NA	Vendor:	Restek
Final Volume (mls):	1	Vendor Lot:	A095693
Vials:	1	Received:	01/09/2014
Reagent Purity Checked	DCN	Mfgr Expiration:	05/31/2018

Storage: Freezer

Analyte	CAS Number	Concentration	Units
1,1,1,2-Tetrachloroethane	630-20-6	200	ug/mL
1,1,1-Trichloroethane	71-55-6	200	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	200	ug/mL
1,1,2-Trichloroethane	79-00-5	200	ug/mL
1,1-Dichloroethane	75-34-3	200	ug/mL
1,1-Dichloroethene	75-35-4	200	ug/mL
1,1-Dichloropropene	563-58-6	200	ug/mL
1,2,3-Trichlorobenzene	87-61-6	200	ug/mL
1,2,3-Trichloropropane	96-18-4	200	ug/mL
1,2,4-Trichlorobenzene	120-82-1	200	ug/mL
1,2,4-Trimethylbenzene	95-63-6	200	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	200	ug/mL
1,2-Dibromoethane (EDB)	106-93-4	200	ug/mL
1,2-Dichlorobenzene	95-50-1	200	ug/mL
1,2-Dichloroethane	107-06-2	200	ug/mL
1,2-Dichloropropane	78-87-5	200	ug/mL
1,3,5-Trimethylbenzene	108-67-8	200	ug/mL
1,3-Dichlorobenzene	541-73-1	200	ug/mL
1,3-Dichloropropane	142-28-9	200	ug/mL
1,4-Dichlorobenzene	106-46-7	200	ug/mL
2,2-Dichloropropane	594-20-7	200	ug/mL
2-Chlorotoluene	95-49-8	200	ug/mL
4-Chlorotoluene	106-43-4	200	ug/mL
Benzene	71-43-2	200	ug/mL
Bromobenzene	108-86-1	200	ug/mL
Bromochloromethane	74-97-5	200	ug/mL
Bromodichloromethane	75-27-4	200	ug/mL
Bromoform	75-25-2	200	ug/mL
Bromomethane	74-83-9	200	ug/mL
Carbon Tetrachloride	56-23-5	200	ug/mL

Freedom_0005792_0091

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400059

std_Org_analytical.rpt

Chlorobenzene	108-90-7	200	ug/mL
Chlorodibromomethane	124-48-1	200	ug/mL
Chloroethane	75-00-3	200	ug/mL
Chloroform	67-66-3	200	ug/mL
Chloromethane	74-87-3	200	ug/mL
cis-1,2-Dichloroethene	156-59-2	200	ug/mL
cis-1,3-Dichloropropene	10061-01-5	200	ug/mL
Dibromomethane	74-95-3	200	ug/mL
Dichlorodifluoromethane	75-71-8	200	ug/mL
Ethylbenzene	100-41-4	200	ug/mL
Hexachlorobutadiene	87-68-3	200	ug/mL
Isopropylbenzene	98-82-8	200	ug/mL
Methylene Chloride	75-09-2	200	ug/mL
m-Xylene/p-Xylene		400	ug/mL
Naphthalene	91-20-3	200	ug/mL
n-Butylbenzene	104-51-8	200	ug/mL
n-Propylbenzene	103-65-1	200	ug/mL
o-Xylene	95-47-6	200	ug/mL
p-Isopropyltoluene	99-87-6	200	ug/mL
sec-Butylbenzene	135-98-8	200	ug/mL
Styrene	100-42-5	200	ug/mL
tert-Butylbenzene	98-06-6	200	ug/mL
Tetrachloroethene	127-18-4	200	ug/mL
Toluene	108-88-3	200	ug/mL
trans-1,2-Dichloroethene	156-60-5	200	ug/mL
trans-1,3-Dichloropropene	10061-02-6	200	ug/mL
Trichloroethene	79-01-6	200	ug/mL
Trichlorofluoromethane	75-69-4	200	ug/mL
Vinyl chloride	75-01-4	200	ug/mL

RESTEK
Catalog# 30603
110 Benner Circle
Bellefonte, PA 16823
Made in USA
Rec'd 1-9-14
Volatiles MegaMix™ with Gases
200 ug/mL each in P&T Methanol
Lot# A095693 Exp Date: 05/2018 Store: 0°C or colder

Freedom_0005792_0092

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400065

std_Org_analytical.rpt

Description:	PSZ Target Mix 02-04-2014	Expires:	02/28/2014*
Standard Type:	Analyte Spike	Prepared:	02/04/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	Methanol BC #13464	Vendor:	NA
Final Volume (mls):	1	Vendor Lot:	NA
Vials:	1		
Reagent Purity Checked	PSZ		

Storage: Freezer * components from VOC mix # 4 expired on 4/31/2014. Confirm with second source PSZ 2/21/2014

Analyte	CAS Number	Concentration	Units
1,1,1,2-Tetrachloroethane	630-20-6	200	ug/mL
1,1,1-Trichloroethane	71-55-6	200	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	200	ug/mL
1,1,2-Trichloroethane	79-00-5	200	ug/mL
1,1-Dichloroethane	75-34-3	200	ug/mL
1,1-Dichloroethene	75-35-4	200	ug/mL
1,1-Dichloropropene	563-58-6	200	ug/mL
1,2,3-Trichlorobenzene	87-61-6	200	ug/mL
1,2,3-Trichloropropane	96-18-4	200	ug/mL
1,2,4-Trichlorobenzene	120-82-1	200	ug/mL
1,2,4-Trimethylbenzene	95-63-6	200	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	200	ug/mL
1,2-Dibromoethane (EDB)	106-93-4	200	ug/mL
1,2-Dichlorobenzene	95-50-1	200	ug/mL
1,2-Dichloroethane	107-06-2	200	ug/mL
1,2-Dichloropropane	78-87-5	200	ug/mL
1,3,5-Trimethylbenzene	108-67-8	200	ug/mL
1,3-Dichlorobenzene	541-73-1	200	ug/mL
1,3-Dichloropropane	142-28-9	200	ug/mL
1,4-Dichlorobenzene	106-46-7	200	ug/mL
2,2-Dichloropropane	594-20-7	200	ug/mL
2-Chlorotoluene	95-49-8	200	ug/mL
4-Chlorotoluene	106-43-4	200	ug/mL
Benzene	71-43-2	200	ug/mL
Bromobenzene	108-86-1	200	ug/mL
Bromochloromethane	74-97-5	200	ug/mL
Bromodichloromethane	75-27-4	200	ug/mL
Bromoform	75-25-2	200	ug/mL
Carbon Tetrachloride	56-23-5	200	ug/mL
Chlorobenzene	108-90-7	200	ug/mL

Freedom_0005792_0093

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400065

std_Org_analytical.rpt

Chlorodibromomethane	124-48-1	200	ug/mL
Chloroform	67-66-3	200	ug/mL
cis-1,2-Dichloroethene	156-59-2	200	ug/mL
cis-1,3-Dichloropropene	10061-01-5	200	ug/mL
Cyclohexane	110-82-7	200	ug/mL
Dibromomethane	74-95-3	200	ug/mL
Ethylbenzene	100-41-4	200	ug/mL
Freon 113	76-13-1	200	ug/mL
Hexachlorobutadiene	87-68-3	200	ug/mL
Isopropylbenzene	98-82-8	200	ug/mL
Methyl Acetate	79-20-9	200	ug/mL
Methylcyclohexane	108-87-2	200	ug/mL
Methylene Chloride	75-09-2	200	ug/mL
Methyl-tert-butyl ether	1634-04-4	200	ug/mL
m-Xylene/p-Xylene		400	ug/mL
Naphthalene	91-20-3	200	ug/mL
n-Butylbenzene	104-51-8	200	ug/mL
n-Propylbenzene	103-65-1	200	ug/mL
o-Xylene	95-47-6	200	ug/mL
p-Isopropyltoluene	99-87-6	200	ug/mL
sec-Butylbenzene	135-98-8	200	ug/mL
Styrene	100-42-5	200	ug/mL
tert-Butylbenzene	98-06-6	200	ug/mL
Tetrachloroethene	127-18-4	200	ug/mL
Toluene	108-88-3	200	ug/mL
trans-1,2-Dichloroethene	156-60-5	200	ug/mL
trans-1,3-Dichloropropene	10061-02-6	200	ug/mL
Trichloroethene	79-01-6	200	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Expires	Prepared By	Vendor	Vendor Lot	Conc.	(mls)
1400024	PSZ R-Custom Mix 01-13-2014	01/13/2014	02/28/2014	Peggy Zawodny	Restek	A090152	2000	0.1
1400025	PSZ VOC#1 01-13-2014	01/13/2014	04/13/2014	Peggy Zawodny	Supelco	LB85136	2000	0.1
1400026	PSZ VOC#2 01-13-2014	01/13/2014	02/28/2014	Peggy Zawodny	Supelco	LB82193	2000	0.1
1400027	PSZ VOC#3 01-13-2014	01/13/2014	04/13/2014	Peggy Zawodny	Supelco	LC00368	2000	0.1
1400028	PSZ VOC#4 01-13-2014	01/13/2014	01/31/2014	Peggy Zawodny	Supelco	LB98402	2000	0.1
1400029	PSZ VOC#5 01-13-2014	01/13/2014	04/13/2014	Peggy Zawodny	Supelco	LB98120	2000	0.1

Freedom_0005792_0094

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400024

std_Org_analytical.rpt

Description:	PSZ R-Custom Mix 01-13-2014	Expires:	~~04/13/2014~~ 2/28/2014 PS3 1/15/14
Standard Type:	Other	Prepared:	01/13/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Restek
Final Volume (mls):	1	Vendor Lot:	A090152
Vials:	1	Received:	08/14/2012
Reagent Purity Checked	PS3	Mfgr Expiration:	02/28/2014

Storage: Freezer

Analyte	CAS Number	Concentration	Units
Cyclohexane	110-82-7	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Methyl Acetate	79-20-9	2000	ug/mL
Methylcyclohexane	108-87-2	2000	ug/mL
Methyl-tert-butyl ether	1634-04-4	2000	ug/mL

RESTEK 110 Benner Circle Bellefonte, PA 16823 Made in USA

Catalog # 57670 Recd 8-14-12

Custom Volatiles Standard

2000 ug/mL each in P&T Methanol

Lot# A090152 Exp. Date: 02/2014 Store: 0°C or colder

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400025

std_Org_analytical.rpt

Description:	PSZ VOC#1 01-13-2014	Expires:	04/13/2014
Standard Type:	Other	Prepared:	01/13/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Supelco
Final Volume (mls):	1	Vendor Lot:	LB85136
Vials:	1	Received:	07/25/2013
Reagent Purity Checked	PSZ	Mfgr Expiration:	05/31/2014

Storage: Refrigerate (before opening); Freezer (after opening)

Analyte	CAS Number	Concentration	Units
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
m-Xylene/p-Xylene		2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL

NOTEBOOK INSERT LABEL

EPA Volatile Organic Compounds Mix 1 **4-8775**
Lot: LB85136 EXP: MAY/2014 STORAGE: REFRIGERATE 1 x 1ml

DATE RECEIVED: 7-25-13

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EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400026

std_Org_analytical.rpt

Description:	PSZ VOC#2 01-13-2014	Expires:	~~04/13/2014~~ 2/28/2014 PS3 4/15/14
Standard Type:	Other	Prepared:	01/13/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Supelco
Final Volume (mls):	1	Vendor Lot:	LB82193
Vials:	1	Received:	07/25/2013
Reagent Purity Checked	PS3	Mfgr Expiration:	02/28/2014

Storage: Refrigerate (before opening); Freezer (after opening)

Analyte	CAS Number	Concentration	Units
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
m-Xylene/p-Xylene		2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL

NOTEBOOK INSERT LABEL

EPA Volatile Organic Compounds Mix 2 **4-8777**

Lot: LB82193 EXP: FEB/2014 STORAGE: REFRIGERATE 1 x 1ml

DATE RECEIVED: 7-25-13

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EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400027

std_Org_analytical.rpt

Description:	PSZ VOC#3 01-13-2014	Expires:	04/13/2014
Standard Type:	Other	Prepared:	01/13/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Supelco
Final Volume (mls):	1	Vendor Lot:	LC00368
Vials:	1	Received:	07/25/2013
Reagent Purity Checked	PS	Mfgr Expiration:	05/31/2014

Storage: Refrigerate (before opening); Freezer (after opening)

Analyte	CAS Number	Concentration	Units
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
Trichloroethene	79-01-6	2000	ug/mL

NOTEBOOK INSERT LABEL

EPA Volatile Organic Compounds Mix 3 **4-8779**

Lot: LC00368 EXP: MAY/2014 STORAGE: REFRIGERATE 1 x 1ml

DATE RECEIVED: 7-25-13

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EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400028

std_Org_analytical.rpt

Description:	PSZ VOC#4 01-13-2014	Expires:	~~04/13/2014~~ 1/31/2014 PS3 1/15/14
Standard Type:	Other	Prepared:	01/13/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Supelco
Final Volume (mls):	1	Vendor Lot:	LB98402
Vials:	1	Received:	07/25/2013
Reagent Purity Checked	PS3	Mfgr Expiration:	01/31/2014

Storage: Refrigerate (before opening); Freezer (after opening)

Analyte	CAS Number	Concentration	Units
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
Carbon Tetrachloride	56-23-5	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL

NOTEBOOK INSERT LABEL

EPA Volatile Organic Compounds **4-8786**

Lot: LB98402 EXP: JAN/2014 STORAGE: REFRIGERATE 1 x 1ml

DATE RECEIVED: 7-25-13

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Freedom_0005792_0099

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400029

std_Org_analytical.rpt

Description:	PSZ VOC#5 01-13-2014	Expires:	04/13/2014
Standard Type:	Other	Prepared:	01/13/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Supelco
Final Volume (mls):	1	Vendor Lot:	LB98120
Vials:	1	Received:	07/25/2013
Reagent Purity Checked	PSZ	Mfgr Expiration:	01/31/2015

Storage: Refrigerate (before opening); Freezer (after opening)

Analyte	CAS Number	Concentration	Units
1,1-Dichloroethene	75-35-4	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
Chlorodibromomethane	124-48-1	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL

NOTEBOOK INSERT LABEL

EPA Volatile Organic Compounds Mix 5 **4-8797**
Lot: LB98120 EXP: JAN/2015 STORAGE: REFRIGERATE 1 x 1ml

DATE RECEIVED: 7-25-13

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EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400064

std_Org_analytical.rpt

Description:	PSZ Gases+HSL 02-04-2014	Expires:	02/18/2014
Standard Type:	Analyte Spike	Prepared:	02/04/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	Methanol Lot # 13464	Vendor:	NA
Final Volume (mls):	1	Vendor Lot:	NA
Vials:	1		

Reagent Purity Checked PS3

Storage: Freezer

Analyte	CAS Number	Concentration	Units
2-Butanone	78-93-3	200	ug/mL
2-Hexanone	591-78-6	200	ug/mL
4-Methyl-2-pentanone	108-10-1	200	ug/mL
Acetone	67-64-1	200	ug/mL
Bromomethane	74-83-9	200	ug/mL
Carbon disulfide	75-15-0	200	ug/mL
Chloroethane	75-00-3	200	ug/mL
Chloromethane	74-87-3	200	ug/mL
Dichlorodifluoromethane	75-71-8	200	ug/mL
o-Xylene	95-47-6	200	ug/mL
Styrene	100-42-5	200	ug/mL
Trichlorofluoromethane	75-69-4	200	ug/mL
Vinyl acetate	108-05-4	200	ug/mL
Vinyl chloride	75-01-4	200	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Expires	Prepared By	Vendor	Vendor Lot	Conc.	(mls)
1400030	PSZ VOC#6 01-13-2014	01/13/2014	04/13/2014	Peggy Zawodny	Supelco	LB97832	2000	0.1
1400031	PSZ M-HSL 01-13-2014	01/13/2014	04/04/2014	Peggy Zawodny	AccuStandard	213091383	2000	0.1

Freedom_0005792_0101

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400030

std_Org_analytical.rpt

Description:	PSZ VOC#6 01-13-2014	Expires:	04/13/2014
Standard Type:	Other	Prepared:	01/13/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Supelco
Final Volume (mls):	1	Vendor Lot:	LB97832
Vials:	1	Received:	07/25/2013
Reagent Purity Checked	153	Mfgr Expiration:	04/30/2014

Storage: Refrigerate upon receipt; after opening: Freezer

Analyte	CAS Number	Concentration	Units
Bromomethane	74-83-9	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Vinyl chloride	75-01-4	2000	ug/mL

NOTEBOOK INSERT LABEL

Volatile Organic Compounds Mix 6 **48799-U**
Lot: LB97832 EXP: APR/2014 STORAGE: REFRIGERATE 1 x 1.5ml

DATE RECEIVED: 7-25-13

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Freedom_0005792_0102

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400031

std_Org_analytical.rpt

Description:	PSZ M-HSL 01-13-2014	Expires:	~~04/13/2014~~ 4/4/2014
Standard Type:	Other	Prepared:	01/13/2014 PS3 1/15/14
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	AccuStandard
Final Volume (mls):	1	Vendor Lot:	213091383
Vials:	1	Received:	01/07/2014
Reagent Purity Checked	153	Mfgr Expiration:	04/04/2014

Storage: Freezer

Analyte	CAS Number	Concentration	Units
2-Butanone	78-93-3	2000	ug/mL
2-Hexanone	591-78-6	2000	ug/mL
4-Methyl-2-pentanone	108-10-1	2000	ug/mL
Acetone	67-64-1	2000	ug/mL
Carbon disulfide	75-15-0	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
Vinyl acetate	108-05-4	2000	ug/mL

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M-HSL rec'd 1-7-14 1 mL

Hazardous Substance List Compounds

2.0 mg/mL in MeOH

Lot: 213091383

Exp: Apr 4,2014

8 comps.

HIGHLY FLAMMABLE

FOR LABORATORY USE ONLY

WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or othe reproductive harm.

STORAGE Freeze (<-10° C)

2 Danger

Freedom_0005792_0103

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400072

std_Org_analytical.rpt

Description:	PSZ IS/SS 02-11-2014 (PZ1-AG5975)	Expires:	05/11/2014
Standard Type:	Surrogate Spike	Prepared:	02/11/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	Methanol Lot # 13464	Vendor:	NA
Final Volume (mls):	20	Vendor Lot:	NA
Vials:	1		
Reagent Purity Checked	PSZ		

Storage: Room temperature Note: 2 uL injected into each 5 mL sample.
12.5 ug/mL x 0.002 mL = 0.025 ug or 25 ng BFB purged for daily tune check
0.025 ug in 5 mL = 0.025 ug / 0.005 L = 5 ug/L or 5 ppb IS/SS

Analyte	CAS Number	Concentration	Units
1,2-Dichloroethane-d4	17060-07-0	12.5	ug/mL
1,4-Dichlorobenzene-d4	3855-82-1	12.5	ug/mL
1,4-Difluorobenzene	540-36-3	12.5	ug/mL
4-Bromofluorobenzene	460-00-4	12.5	ug/mL
Chlorobenzene-d5	3114-55-4	12.5	ug/mL
Toluene-d8	2037-26-5	12.5	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Expires	Prepared By	Vendor	Vendor Lot	Conc.	(mls)
1300465	PSZ Internal Stds 12-18-2013	12/18/2013	03/18/2014	Peggy Zawodny	Supelco	LB91236	2000	0.125
1400071	PSZ Surrogates 02-11-2014	02/11/2014	05/11/2014	Peggy Zawodny	AccuStandard	209061243	2500	0.1

Freedom_0005792_0104

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400071

std_Org_analytical.rpt

Description:	PSZ Surrogates 02-11-2014	Expires:	05/11/2014
Standard Type:	Other	Prepared:	02/11/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	AccuStandard
Final Volume (mls):	1	Vendor Lot:	209061243
Vials:	1	Received:	08/09/2013
Reagent Purity Checked	RS3	Mfgr Expiration:	06/24/2019

Storage: Room temperature

Analyte	CAS Number	Concentration	Units
1,2-Dichloroethane-d4	17060-07-0	2500	ug/mL
4-Bromofluorobenzene	460-00-4	2500	ug/mL
Toluene-d8	2037-26-5	2500	ug/mL

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FOR LABORATORY USE ONLY

CLP-PS-10X Rcd 8-9-2013 1 mL

Purgeable Surrogate Standard

2.5 mg/mL in MeOH

3 comps.

Lot: 209061243

Exp: Jun 24,2019

HIGHLY FLAMMABLE

STORAGE Ambient

2 Danger

Freedom_0005792_0105

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1300465

std_Org_analytical.rpt

Description:	PSZ Internal Stds 12-18-2013	Expires:	03/18/2014
Standard Type:	Other	Prepared:	12/18/2013
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Supelco
Final Volume (mls):	1	Vendor Lot:	LB91236
Vials:	1	Received:	07/09/2013
Reagent Purity Checked	RS	Mfgr Expiration:	03/31/2015

Storage: Room temperature

Analyte	CAS Number	Concentration	Units
1,4-Dichlorobenzene-d4	3855-82-1	2000	ug/mL
1,4-Difluorobenzene	540-36-3	2000	ug/mL
Chlorobenzene-d5	3114-55-4	2000	ug/mL

NOTEBOOK INSERT LABEL

CLP VOA Internal Standard Spiking Solution **47568-U**

Lot: LB91236 EXP: MAR/2015 STORAGE: ROOM TEMP. 1 x 1ml

DATE RECEIVED: 7-9-2013

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Freedom_0005792_0106

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400084

std_Org_analytical.rpt

Description:	PSZ Target Mix 02-11-2014	Expires:	03/11/2014
Standard Type:	Analyte Spike	Prepared:	02/11/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	Methanol BC #13464	Vendor:	NA
Final Volume (mls):	1	Vendor Lot:	NA
Vials:	1		
Reagent Purity Checked	PS3		

Storage: Freezer

Analyte	CAS Number	Concentration	Units
1,1,1,2-Tetrachloroethane	630-20-6	200	ug/mL
1,1,1-Trichloroethane	71-55-6	200	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	200	ug/mL
1,1,2-Trichloroethane	79-00-5	200	ug/mL
1,1-Dichloroethane	75-34-3	200	ug/mL
1,1-Dichloroethene	75-35-4	200	ug/mL
1,1-Dichloropropene	563-58-6	200	ug/mL
1,2,3-Trichlorobenzene	87-61-6	200	ug/mL
1,2,3-Trichloropropane	96-18-4	200	ug/mL
1,2,4-Trichlorobenzene	120-82-1	200	ug/mL
1,2,4-Trimethylbenzene	95-63-6	200	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	200	ug/mL
1,2-Dibromoethane (EDB)	106-93-4	200	ug/mL
1,2-Dichlorobenzene	95-50-1	200	ug/mL
1,2-Dichloroethane	107-06-2	200	ug/mL
1,2-Dichloropropane	78-87-5	200	ug/mL
1,3,5-Trimethylbenzene	108-67-8	200	ug/mL
1,3-Dichlorobenzene	541-73-1	200	ug/mL
1,3-Dichloropropane	142-28-9	200	ug/mL
1,4-Dichlorobenzene	106-46-7	200	ug/mL
2,2-Dichloropropane	594-20-7	200	ug/mL
2-Chlorotoluene	95-49-8	200	ug/mL
4-Chlorotoluene	106-43-4	200	ug/mL
Benzene	71-43-2	200	ug/mL
Bromobenzene	108-86-1	200	ug/mL
Bromochloromethane	74-97-5	200	ug/mL
Bromodichloromethane	75-27-4	200	ug/mL
Bromoform	75-25-2	200	ug/mL
Carbon Tetrachloride	56-23-5	200	ug/mL
Chlorobenzene	108-90-7	200	ug/mL

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EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400084

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Chlorodibromomethane	124-48-1	200	ug/mL
Chloroform	67-66-3	200	ug/mL
cis-1,2-Dichloroethene	156-59-2	200	ug/mL
cis-1,3-Dichloropropene	10061-01-5	200	ug/mL
Cyclohexane	110-82-7	200	ug/mL
Dibromomethane	74-95-3	200	ug/mL
Ethylbenzene	100-41-4	200	ug/mL
Freon 113	76-13-1	200	ug/mL
Hexachlorobutadiene	87-68-3	200	ug/mL
Isopropylbenzene	98-82-8	200	ug/mL
Methyl Acetate	79-20-9	200	ug/mL
Methylcyclohexane	108-87-2	200	ug/mL
Methylene Chloride	75-09-2	200	ug/mL
Methyl-tert-butyl ether	1634-04-4	200	ug/mL
m-Xylene/p-Xylene		400	ug/mL
Naphthalene	91-20-3	200	ug/mL
n-Butylbenzene	104-51-8	200	ug/mL
n-Propylbenzene	103-65-1	200	ug/mL
o-Xylene	95-47-6	200	ug/mL
p-Isopropyltoluene	99-87-6	200	ug/mL
sec-Butylbenzene	135-98-8	200	ug/mL
Styrene	100-42-5	200	ug/mL
tert-Butylbenzene	98-06-6	200	ug/mL
Tetrachloroethene	127-18-4	200	ug/mL
Toluene	108-88-3	200	ug/mL
trans-1,2-Dichloroethene	156-60-5	200	ug/mL
trans-1,3-Dichloropropene	10061-02-6	200	ug/mL
Trichloroethene	79-01-6	200	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Expires	Prepared By	Vendor	Vendor Lot	Conc.	(mls)
1400077	PSZ R-Custom Mix 02-11-2014	02/11/2014	05/11/2014	Peggy Zawodny	Restek	A0100936	2000	0.1
1400078	PSZ VOC#1 02-11-2014	02/11/2014	05/11/2014	Peggy Zawodny	Supelco	LB87088	2000	0.1
1400079	PSZ VOC#2 02-11-2014	02/11/2014	05/11/2014	Peggy Zawodny	Supelco	LC02830	2000	0.1
1400080	PSZ VOC#3 02-11-2014	02/11/2014	05/11/2014	Peggy Zawodny	Supelco	LC04229	2000	0.1
1400081	PSZ VOC#4 02-11-2014	02/11/2014	05/11/2014	Peggy Zawodny	Supelco	LC01655	2000	0.1
1400082	PSZ VOC#5 02-11-2014	02/11/2014	05/11/2014	Peggy Zawodny	Supelco	LB98120	2000	0.1

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EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400077

std_Org_analytical.rpt

Description:	PSZ R-Custom Mix 02-11-2014	Expires:	05/11/2014
Standard Type:	Other	Prepared:	02/11/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Restek
Final Volume (mls):	1	Vendor Lot:	A0100936
Vials:	1	Received:	02/04/2014
Reagent Purity Checked	BS	Mfgr Expiration:	07/31/2015

Storage: Freezer

Analyte	CAS Number	Concentration	Units
Cyclohexane	110-82-7	2000	ug/mL
Freon 113	76-13-1	2000	ug/mL
Methyl Acetate	79-20-9	2000	ug/mL
Methylcyclohexane	108-87-2	2000	ug/mL
Methyl-tert-butyl ether	1634-04-4	2000	ug/mL

RESTEK
110 Benner Circle
Bellefonte, PA 16823
Made in USA
Catalog# 57670 rec'd 2-4-14
Custom Volatiles Standard
2000 ug/mL each in P&T Methanol
Lot# A0100936 Exp. Date: 07/2015 Store: 0°C or colder

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400078

std_Org_analytical.rpt

Description:	PSZ VOC#1 02-11-2014	Expires:	05/11/2014
Standard Type:	Other	Prepared:	02/11/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Supelco
Final Volume (mls):	1	Vendor Lot:	LB87088
Vials:	1	Received:	01/22/2014
Reagent Purity Checked	PSZ	Mfgr Expiration:	08/31/2014

Storage: Refrigerate (before opening); Freezer (after opening)

Analyte	CAS Number	Concentration	Units
1,2-Dichlorobenzene	95-50-1	2000	ug/mL
1,3-Dichlorobenzene	541-73-1	2000	ug/mL
1,4-Dichlorobenzene	106-46-7	2000	ug/mL
2-Chlorotoluene	95-49-8	2000	ug/mL
4-Chlorotoluene	106-43-4	2000	ug/mL
Chlorobenzene	108-90-7	2000	ug/mL
Isopropylbenzene	98-82-8	2000	ug/mL
m-Xylene/p-Xylene		2000	ug/mL
n-Propylbenzene	103-65-1	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
sec-Butylbenzene	135-98-8	2000	ug/mL
tert-Butylbenzene	98-06-6	2000	ug/mL

NOTEBOOK INSERT LABEL

EPA Volatile Organic Compounds Mix 1 **4-8775**

Lot: LB87088 EXP: AUG/2014 STORAGE: REFRIGERATE 1 x 1ml

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EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400079

std_Org_analytical.rpt

Description:	PSZ VOC#2 02-11-2014	Expires:	05/11/2014
Standard Type:	Other	Prepared:	02/11/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Supelco
Final Volume (mls):	1	Vendor Lot:	LC02830
Vials:	1	Received:	01/22/2014
Reagent Purity Checked	RS3	Mfgr Expiration:	09/30/2016

Storage: Refrigerate (before opening); Freezer (after opening)

Analyte	CAS Number	Concentration	Units
1,2,3-Trichlorobenzene	87-61-6	2000	ug/mL
1,2,4-Trichlorobenzene	120-82-1	2000	ug/mL
1,2,4-Trimethylbenzene	95-63-6	2000	ug/mL
1,3,5-Trimethylbenzene	108-67-8	2000	ug/mL
Benzene	71-43-2	2000	ug/mL
Bromobenzene	108-86-1	2000	ug/mL
Ethylbenzene	100-41-4	2000	ug/mL
m-Xylene/p-Xylene		2000	ug/mL
Naphthalene	91-20-3	2000	ug/mL
n-Butylbenzene	104-51-8	2000	ug/mL
p-Isopropyltoluene	99-87-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
Toluene	108-88-3	2000	ug/mL

NOTEBOOK INSERT LABEL

EPA Volatile Organic Compounds Mix 2 4-8777
Lot: LC02830 EXP: SEP/2016 STORAGE: REFRIGERATE 1 x 1ml

DATE RECEIVED: 1.22.2014

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EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400080

std_Org_analytical.rpt

Description:	PSZ VOC#3 02-11-2014	Expires:	05/11/2014
Standard Type:	Other	Prepared:	02/11/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Supelco
Final Volume (mls):	1	Vendor Lot:	LC04229
Vials:	1	Received:	01/22/2014
Reagent Purity Checked	053	Mfgr Expiration:	10/31/2014

Storage: Refrigerate (before opening); Freezer (after opening)

Analyte	CAS Number	Concentration	Units
1,1,1,2-Tetrachloroethane	630-20-6	2000	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000	ug/mL
1,1,2-Trichloroethane	79-00-5	2000	ug/mL
1,1-Dichloropropene	563-58-6	2000	ug/mL
1,2,3-Trichloropropane	96-18-4	2000	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000	ug/mL
1,2-Dibromoethane (EDB)	106-93-4	2000	ug/mL
1,2-Dichloroethane	107-06-2	2000	ug/mL
1,2-Dichloropropane	78-87-5	2000	ug/mL
1,3-Dichloropropane	142-28-9	2000	ug/mL
cis-1,3-Dichloropropene	10061-01-5	2000	ug/mL
Hexachlorobutadiene	87-68-3	2000	ug/mL
trans-1,3-Dichloropropene	10061-02-6	2000	ug/mL
Trichloroethene	79-01-6	2000	ug/mL

NOTEBOOK INSERT LABEL

EPA Volatile Organic Compounds Mix 3 **4-8779**
Lot: LC04229 EXP: OCT/2014 STORAGE: REFRIGERATE 1 x 1ml

DATE RECEIVED: 1-22-2014

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EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400081

std_Org_analytical.rpt

Description:	PSZ VOC#4 02-11-2014	Expires:	05/11/2014
Standard Type:	Other	Prepared:	02/11/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Supelco
Final Volume (mls):	1	Vendor Lot:	LC01655
Vials:	1	Received:	01/22/2014
Reagent Purity Checked	PSZ	Mfgr Expiration:	08/31/2014

Storage: Refrigerate (before opening); Freezer (after opening)

Analyte	CAS Number	Concentration	Units
1,1,1-Trichloroethane	71-55-6	2000	ug/mL
1,1-Dichloroethane	75-34-3	2000	ug/mL
2,2-Dichloropropane	594-20-7	2000	ug/mL
Bromochloromethane	74-97-5	2000	ug/mL
Bromoform	75-25-2	2000	ug/mL
Carbon Tetrachloride	56-23-5	2000	ug/mL
Chloroform	67-66-3	2000	ug/mL
Dibromomethane	74-95-3	2000	ug/mL
Tetrachloroethene	127-18-4	2000	ug/mL

NOTEBOOK INSERT LABEL

EPA Volatile Organic Compounds **4-8786**

Lot: LC01655 EXP: AUG/2014 STORAGE: REFRIGERATE 1 x 1ml

DATE RECEIVED: 1-22-2014

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EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400082

std_Org_analytical.rpt

Description:	PSZ VOC#5 02-11-2014	Expires:	05/11/2014
Standard Type:	Other	Prepared:	02/11/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Supelco
Final Volume (mls):	1	Vendor Lot:	LB98120
Vials:	1	Received:	01/22/2014
Reagent Purity Checked	PS3	Mfgr Expiration:	01/31/2015

Storage: Refrigerate (before opening); Freezer (after opening)

Analyte	CAS Number	Concentration	Units
1,1-Dichloroethene	75-35-4	2000	ug/mL
Bromodichloromethane	75-27-4	2000	ug/mL
Chlorodibromomethane	124-48-1	2000	ug/mL
cis-1,2-Dichloroethene	156-59-2	2000	ug/mL
Methylene Chloride	75-09-2	2000	ug/mL
trans-1,2-Dichloroethene	156-60-5	2000	ug/mL

NOTEBOOK INSERT LABEL

EPA Volatile Organic Compounds Mix 5 **4-8797**

Lot: LB98120 EXP: JAN/2015 STORAGE: REFRIGERATE 1 x 1ml

DATE RECEIVED: 1-22-2014

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EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400085

std_Org_analytical.rpt

Description:	PSZ Gases+HSL 02-11-2014	Expires:	02/25/2014
Standard Type:	Analyte Spike	Prepared:	02/11/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	Methanol Lot # 13464	Vendor:	NA
Final Volume (mls):	1	Vendor Lot:	NA
Vials:	1		
Reagent Purity Checked	PSZ		

Storage: Freezer

Analyte	CAS Number	Concentration	Units
2-Butanone	78-93-3	200	ug/mL
2-Hexanone	591-78-6	200	ug/mL
4-Methyl-2-pentanone	108-10-1	200	ug/mL
Acetone	67-64-1	200	ug/mL
Bromomethane	74-83-9	200	ug/mL
Carbon disulfide	75-15-0	200	ug/mL
Chloroethane	75-00-3	200	ug/mL
Chloromethane	74-87-3	200	ug/mL
Dichlorodifluoromethane	75-71-8	200	ug/mL
o-Xylene	95-47-6	200	ug/mL
Styrene	100-42-5	200	ug/mL
Trichlorofluoromethane	75-69-4	200	ug/mL
Vinyl acetate	108-05-4	200	ug/mL
Vinyl chloride	75-01-4	200	ug/mL

Parent Standards used in this standard:

Standard	Description	Prepared	Expires	Prepared By	Vendor	Vendor Lot	Conc.	(mls)
1400031	PSZ M-HSL 01-13-2014	01/13/2014	04/04/2014	Peggy Zawodny	AccuStandard	213091383	2000	0.1
1400083	PSZ VOC#6 02-11-2014	02/11/2014	05/11/2014	Peggy Zawodny	Supelco	LC03821	2000	0.1

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EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400083

std_Org_analytical.rpt

Description:	PSZ VOC#6 02-11-2014	Expires:	05/11/2014
Standard Type:	Other	Prepared:	02/11/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Supelco
Final Volume (mls):	1	Vendor Lot:	LC03821
Vials:	1	Received:	01/22/2014
Reagent Purity Checked	PS3	Mfgr Expiration:	01/31/2015

Storage: Refrigerate upon receipt; after opening: Freezer

Analyte	CAS Number	Concentration	Units
Bromomethane	74-83-9	2000	ug/mL
Chloroethane	75-00-3	2000	ug/mL
Chloromethane	74-87-3	2000	ug/mL
Dichlorodifluoromethane	75-71-8	2000	ug/mL
Trichlorofluoromethane	75-69-4	2000	ug/mL
Vinyl chloride	75-01-4	2000	ug/mL

NOTEBOOK INSERT LABEL

Volatile Organic Compounds Mix 6 **48799-U**

Lot: LC03821 EXP: JAN/2015 STORAGE: REFRIGERATE 1 x 1.5ml

DATE RECEIVED: 1-22-2014

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1400031

std_Org_analytical.rpt

Description:	PSZ M-HSL 01-13-2014	Expires:	~~04/13/2014~~ 4/4/2014
Standard Type:	Other	Prepared:	01/13/2014 PS3 1/15/14
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	AccuStandard
Final Volume (mls):	1	Vendor Lot:	213091383
Vials:	1	Received:	01/07/2014
Reagent Purity Checked	PS3	Mfgr Expiration:	04/04/2014

Storage: Freezer

Analyte	CAS Number	Concentration	Units
2-Butanone	78-93-3	2000	ug/mL
2-Hexanone	591-78-6	2000	ug/mL
4-Methyl-2-pentanone	108-10-1	2000	ug/mL
Acetone	67-64-1	2000	ug/mL
Carbon disulfide	75-15-0	2000	ug/mL
o-Xylene	95-47-6	2000	ug/mL
Styrene	100-42-5	2000	ug/mL
nyl acetate	108-05-4	2000	ug/mL

AccuStandard® 125 Market St. · New Haven, CT 06513 · USA Tel. 203-786-5290 · www.accustandard.com

M-HSL rec'd 1-7-14 1 mL

Hazardous Substance List Compounds

2.0 mg/mL in MeOH

Lot: 213091383

Exp: Apr 4,2014

8 comps.

HIGHLY FLAMMABLE

FOR LABORATORY USE ONLY

WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or othe reproductive harm.

STORAGE Freeze (<-10° C)

2 Danger

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400076

std_Org_analytical.rpt

Description:	PSZ 2-CEVE 02-11-2014	Expires:	04/30/2014
Standard Type:	Analyte Spike	Prepared:	02/11/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Supelco
Final Volume (mls):	1	Vendor Lot:	LB84071
Vials:	1	Received:	08/12/2013
Reagent Purity Checked	PS3	Mfgr Expiration:	04/30/2014

Storage: Refrigerator (before opening); Freezer (after opening)

Analyte	CAS Number	Concentration	Units
2-Chloroethylvinyl ether	110-75-8	200	ug/mL

NOTEBOOK INSERT LABEL

2-Chloroethyl vinyl ether **4-8672**

Lot: LB84071 EXP: APR/2014 STORAGE: REFRIGERATE 1 x 1ml

DATE RECEIVED: 8·12·2013

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EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400086

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Description:	PSZ R-V MegaMix w/gases 02-12-2014	Expires:	03/12/2014
Standard Type:	Analyte Spike	Prepared:	02/12/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	Restek
Final Volume (mls):	1	Vendor Lot:	A095693
Vials:	1	Received:	01/09/2014
Reagent Purity Checked	PS3	Mfgr Expiration:	05/31/2018

Storage: Freezer

Analyte	CAS Number	Concentration	Units
1,1,1,2-Tetrachloroethane	630-20-6	200	ug/mL
1,1,1-Trichloroethane	71-55-6	200	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	200	ug/mL
1,1,2-Trichloroethane	79-00-5	200	ug/mL
1,1-Dichloroethane	75-34-3	200	ug/mL
1,1-Dichloroethene	75-35-4	200	ug/mL
1,1-Dichloropropene	563-58-6	200	ug/mL
1,2,3-Trichlorobenzene	87-61-6	200	ug/mL
1,2,3-Trichloropropane	96-18-4	200	ug/mL
1,2,4-Trichlorobenzene	120-82-1	200	ug/mL
1,2,4-Trimethylbenzene	95-63-6	200	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	200	ug/mL
1,2-Dibromoethane (EDB)	106-93-4	200	ug/mL
1,2-Dichlorobenzene	95-50-1	200	ug/mL
1,2-Dichloroethane	107-06-2	200	ug/mL
1,2-Dichloropropane	78-87-5	200	ug/mL
1,3,5-Trimethylbenzene	108-67-8	200	ug/mL
1,3-Dichlorobenzene	541-73-1	200	ug/mL
1,3-Dichloropropane	142-28-9	200	ug/mL
1,4-Dichlorobenzene	106-46-7	200	ug/mL
2,2-Dichloropropane	594-20-7	200	ug/mL
2-Chlorotoluene	95-49-8	200	ug/mL
4-Chlorotoluene	106-43-4	200	ug/mL
Benzene	71-43-2	200	ug/mL
Bromobenzene	108-86-1	200	ug/mL
Bromochloromethane	74-97-5	200	ug/mL
Bromodichloromethane	75-27-4	200	ug/mL
Bromoform	75-25-2	200	ug/mL
Bromomethane	74-83-9	200	ug/mL
Carbon Tetrachloride	56-23-5	200	ug/mL

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EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400086

std_Org_analytical.rpt

Chlorobenzene	108-90-7	200	ug/mL
Chlorodibromomethane	124-48-1	200	ug/mL
Chloroethane	75-00-3	200	ug/mL
Chloroform	67-66-3	200	ug/mL
Chloromethane	74-87-3	200	ug/mL
cis-1,2-Dichloroethene	156-59-2	200	ug/mL
cis-1,3-Dichloropropene	10061-01-5	200	ug/mL
Dibromomethane	74-95-3	200	ug/mL
Dichlorodifluoromethane	75-71-8	200	ug/mL
Ethylbenzene	100-41-4	200	ug/mL
Hexachlorobutadiene	87-68-3	200	ug/mL
Isopropylbenzene	98-82-8	200	ug/mL
Methylene Chloride	75-09-2	200	ug/mL
m-Xylene/p-Xylene		400	ug/mL
Naphthalene	91-20-3	200	ug/mL
n-Butylbenzene	104-51-8	200	ug/mL
n-Propylbenzene	103-65-1	200	ug/mL
o-Xylene	95-47-6	200	ug/mL
p-Isopropyltoluene	99-87-6	200	ug/mL
sec-Butylbenzene	135-98-8	200	ug/mL
Styrene	100-42-5	200	ug/mL
tert-Butylbenzene	98-06-6	200	ug/mL
Tetrachloroethene	127-18-4	200	ug/mL
Toluene	108-88-3	200	ug/mL
trans-1,2-Dichloroethene	156-60-5	200	ug/mL
trans-1,3-Dichloropropene	10061-02-6	200	ug/mL
Trichloroethene	79-01-6	200	ug/mL
Trichlorofluoromethane	75-69-4	200	ug/mL
Vinyl chloride	75-01-4	200	ug/mL

RESTEK 110 Banner Circle Bellefonte, PA 16823 Made in USA

Catalog# 30603 rec'd 1-9-2014

Volatiles MegaMix™ with Gases

200 ug/mL each in P&T Methanol

Lot# A095693 Exp. Date: 05/2018 Store: 0°C or colder

Freedom_0005792_0120

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400087

std_Org_analytical.rpt

Description:	PSZ Virtual Matrix Spike	Expires:	12/31/2014
Standard Type:	Analyte Spike	Prepared:	02/12/2014
Department:	ORGANIC-GCMS	Prepared By:	Peggy Zawodny
Solvent:	NA	Vendor:	NA
Final Volume (mls):	1	Vendor Lot:	NA
Vials:	1		

Reagent Purity Checked PS3

This is a VIRTUAL standard to describe the analytes and concentrations spiked into the sample matrix using multiple spiking solutions. Refer to the sequence run log for the list of spike standards used for a specific case.

Analyte	CAS Number	Concentration	Units
1,1,1,2-Tetrachloroethane	630-20-6	200	ug/mL
1,1,1-Trichloroethane	71-55-6	200	ug/mL
1,1,2,2-Tetrachloroethane	79-34-5	200	ug/mL
1,1,2-Trichloroethane	79-00-5	200	ug/mL
1,1-Dichloroethane	75-34-3	200	ug/mL
1,1-Dichloroethene	75-35-4	200	ug/mL
1,1-Dichloropropene	563-58-6	200	ug/mL
1,2,3-Trichlorobenzene	87-61-6	200	ug/mL
1,2,3-Trichloropropane	96-18-4	200	ug/mL
1,2,4-Trichlorobenzene	120-82-1	200	ug/mL
1,2,4-Trimethylbenzene	95-63-6	200	ug/mL
1,2-Dibromo-3-chloropropane	96-12-8	200	ug/mL
1,2-Dibromoethane (EDB)	106-93-4	200	ug/mL
1,2-Dichlorobenzene	95-50-1	200	ug/mL
1,2-Dichloroethane	107-06-2	200	ug/mL
1,2-Dichloropropane	78-87-5	200	ug/mL
1,3,5-Trimethylbenzene	108-67-8	200	ug/mL
1,3-Dichlorobenzene	541-73-1	200	ug/mL
1,3-Dichloropropane	142-28-9	200	ug/mL
1,4-Dichlorobenzene	106-46-7	200	ug/mL
2,2-Dichloropropane	594-20-7	200	ug/mL
2-Butanone	78-93-3	200	ug/mL
2-Chlorotoluene	95-49-8	200	ug/mL
2-Hexanone	591-78-6	200	ug/mL
4-Chlorotoluene	106-43-4	200	ug/mL
4-Methyl-2-pentanone	108-10-1	200	ug/mL
Acetone	67-64-1	200	ug/mL
Benzene	71-43-2	200	ug/mL
Bromobenzene	108-86-1	200	ug/mL
Bromochloromethane	74-97-5	200	ug/mL

Freedom_0005792_0121

EPA REGION 3 OASQA STANDARD/REAGENT PREPARATION LOG

1400087

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Bromodichloromethane	75-27-4	200	ug/mL
Bromoform	75-25-2	200	ug/mL
Bromomethane	74-83-9	200	ug/mL
Carbon disulfide	75-15-0	200	ug/mL
Carbon Tetrachloride	56-23-5	200	ug/mL
Chlorobenzene	108-90-7	200	ug/mL
Chlorodibromomethane	124-48-1	200	ug/mL
Chloroethane	75-00-3	200	ug/mL
Chloroform	67-66-3	200	ug/mL
Chloromethane	74-87-3	200	ug/mL
cis-1,2-Dichloroethene	156-59-2	200	ug/mL
cis-1,3-Dichloropropene	10061-01-5	200	ug/mL
Cyclohexane	110-82-7	200	ug/mL
Dibromomethane	74-95-3	200	ug/mL
Dichlorodifluoromethane	75-71-8	200	ug/mL
Ethylbenzene	100-41-4	200	ug/mL
Freon 113	76-13-1	200	ug/mL
Hexachlorobutadiene	87-68-3	200	ug/mL
Isopropylbenzene	98-82-8	200	ug/mL
Methyl Acetate	79-20-9	200	ug/mL
Methylcyclohexane	108-87-2	200	ug/mL
Methylene Chloride	75-09-2	200	ug/mL
Methyl-tert-butyl ether	1634-04-4	200	ug/mL
m-Xylene/p-Xylene		400	ug/mL
Naphthalene	91-20-3	200	ug/mL
n-Butylbenzene	104-51-8	200	ug/mL
n-Propylbenzene	103-65-1	200	ug/mL
o-Xylene	95-47-6	400	ug/mL
p-Isopropyltoluene	99-87-6	200	ug/mL
sec-Butylbenzene	135-98-8	200	ug/mL
Styrene	100-42-5	400	ug/mL
tert-Butylbenzene	98-06-6	200	ug/mL
Tetrachloroethene	127-18-4	200	ug/mL
Toluene	108-88-3	200	ug/mL
trans-1,2-Dichloroethene	156-60-5	200	ug/mL
trans-1,3-Dichloropropene	10061-02-6	200	ug/mL
Trichloroethene	79-01-6	200	ug/mL
Trichlorofluoromethane	75-69-4	200	ug/mL
Vinyl acetate	108-05-4	200	ug/mL
Vinyl chloride	75-01-4	200	ug/mL

Freedom_0005792_0122

Case File Contents

Volatile Organic Compounds

VOCs by CLP Equivalent (trace)

WO 1401014

West Virginia Chemical Leak

DAS R34317

Quality Control Data

GC/MS QA-QC Check Report

Tune File : D:\DATA\L01302014\0130RIN1.D
Tune Time : 30 Jan 2014 8:06

Daily Calibration File : D:\DATA\L01302014\0130C05.D

	[DCA]	[T]	[BFB]	[DFB]	[CB]	[DCB]
				116187	110635	68493

File	Sample	Surrogate Recovery %			Internal Standard Responses		
0130BLK.D	Batch-BLK1	106	93	104	112667	108953	52864
0130BS1.D	Batch-BS1	96	96	99	130900	125734	78652
0130C005.D	0.5 ppb; 0	120*	93	96	102276	101176	54534
0130C01.D	1 ppb; 0.5	117*	98	93	107388	104807	60595
0130C05.D	5 ppb; 2.5	106	95	104	116187	110635	68493
0130C10.D	10 ppb; 5u	102	104	106	119472	113298	71837
0130C20.D	20 ppb; 10	95	104	102	130210	125164	80686
0130C50.D	50 ppb; 25	88	106	96	144272	132383	89763
140101401.D	1401014-01	108	88	95	103486	100558	48792
140101402.D	1401014-02	113	92	102	103959	98881	46396
140101403.D	1401014-03	116*	90	111	95151	94811	43240
140101404.D	1401014-04	108	93	98	102980	99248	48183
140101405.D	1401014-05	112	92	100	108744	105668	50632

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

Created: Mon Feb 03 08:44:54 2014 PZ1-AG5975

GC/MS QA-QC Check Report

Tune File : D:\DATA\L02042014\0204BFB3.D
Tune Time : 4 Feb 2014 11:26

Daily Calibration File : D:\DATA\L02042014\0204C05.D

	[DCA]	[T]	[BFB]	[DFB]	[CB]	[DCB]
				150536	136128	86844

File	Sample	Surrogate Recovery %			Internal Standard Responses		
0204BLK.D							
	Batch-BLK1	111	89	101	135064	133781	62021
0204BS1.D							
	Batch-BS1	102	99	97	152204	142814	90953
0204C005.D							
	0.5 ppb; 0	95	92	103	145366	142085	76050
0204C01.D							
	1 ppb; 0.5	105	100	97	137039	132736	83706
0204C05.D							
	5 ppb; 2.5	100	107	107	150536	136128	86844
0204C10.D							
	10 ppb; 5u	94	103	108	152212	144005	91924
0204C20.D							
	20 ppb; 10	98	101	106	161311	153278	97557
0204C50.D							
	50 ppb; 25	93	104	107	172580	164269	108187
0204D005.D							
	0.5 ppb; 0	107	97	101	152885	149732	81821
0204E005.D							
	0.5 ppb; 0	109	95	99	144618	139401	78672
140101406.D							
	1401014-06	112	91	71*	130194	129249	87214
140101407.D							
	1401014-07	92	92	95	201353	190292	96591
140101408.D							
	1401014-08	116*	92	101	127373	126708	60836

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

Created: Wed Feb 05 07:55:40 2014 PZ1-AG5975

GC/MS QA-QC Check Report

Tune File : D:\DATA\L02062014\0206BFB.D
Tune Time : 6 Feb 2014 9:49

Daily Calibration File : D:\DATA\L02062014\0206CC05.D

		[DCA]	[T]	[BFB]	[DFB]	[CB]	[DCB]
					134154	131994	79945
File	Sample	Surrogate Recovery %			Internal Standard Responses		
0206BLK.D							
	Batch-BLK1	120*	85*	98	119366	119213	53084
0206HBK.D							
	Storage Bl	119*	91-	98	113517	112701	52727
140101407.D							
	1401014-07	120*	93	97	112964	107231	51298

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

Created: Tue Feb 11 10:33:02 2014 PZ1-AG5975

GC/MS QA-QC Check Report

Tune File : D:\DATA\L02122014\0212BFB.D
Tune Time : 12 Feb 2014 9:20

Daily Calibration File : D:\DATA\L02122014\0212C05.D

	[DCA]	[T]	[BFB]	[DFB]	[CB]	[DCB]
				132982	124290	76637

File	Sample	Surrogate Recovery %			Internal Standard Responses		
02121C01.D							
	1 ppb; 0.5	125*	103	97	129383	115069	69237
0212BLK.D							
	Batch-BLK1	109	96	102	130546	124192	59090
0212BLK2.D							
	VOA Storag	115*	93	106	124044	120145	54334
0212BS1.D							
	Batch-BS1	96	93	97	153629	136818	84118
0212C005.D							
	0.5 ppb; 0	140*	101	102	128182	118550	62825
0212C05.D							
	5 ppb; 2.5	121*	99	99	132982	124290	76637
0212C10.D							
	10 ppb; 5u	113	110*	103	146039	123460	82568
0212C20.D							
	20 ppb; 10	100	106	94	151575	133199	93597
0212C50.D							
	50 ppb; 25	93	97	105	169184	155606	96482
140101409.D							
	1401014-09	117*	98	95	114574	107910	51189
140101410.D							
	1401014-10	112	91	100	123030	115354	56152
140101411.D							
	1401014-11	111	100	99	119966	106116	52539
140101412.D							
	1401014-12	87	98	115	150695	147946	81844
140101413.D							
	1401014-13	77	96	138*	219169	202527	109466
140101414.D							
	1401014-14	79	92	95	251507	230617	133765
140101415.D							
	1401014-15	69*	98	107	288650*	259378*	146662
140101416.D							
	1401014-16	115*	96	104	116363	110145	51213

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

Sample 15 not reported in this sample set.

Created: Tue Feb 18 09:00:22 2014 PZ1-AG5975

Quantitation Report (QT Reviewed)

no TTC

Data Path : D:\DATA\L01302014\
Data File : 0130BLK.D
Acq On : 30 Jan 2014 13:48
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc : BA43003-BLK1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 30 14:36:00 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.529	114	112667	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	108953	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.811	152	52864	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.498	65	62725	5.32	ug/L	-0.01
Spiked Amount 5.000	Range	76 - 114	Recovery	=	106.40%	
41) TOLUENE-d8	8.620	98	131266	4.67	ug/L	0.00
Spiked Amount 5.000	Range	88 - 110	Recovery	=	93.40%	
59) 4-BROMOFLUOROBENZENE	11.645	95	51550	5.19	ug/L	0.00
Spiked Amount 5.000	Range	86 - 115	Recovery	=	103.80%	

Target Compounds None detected Qvalue

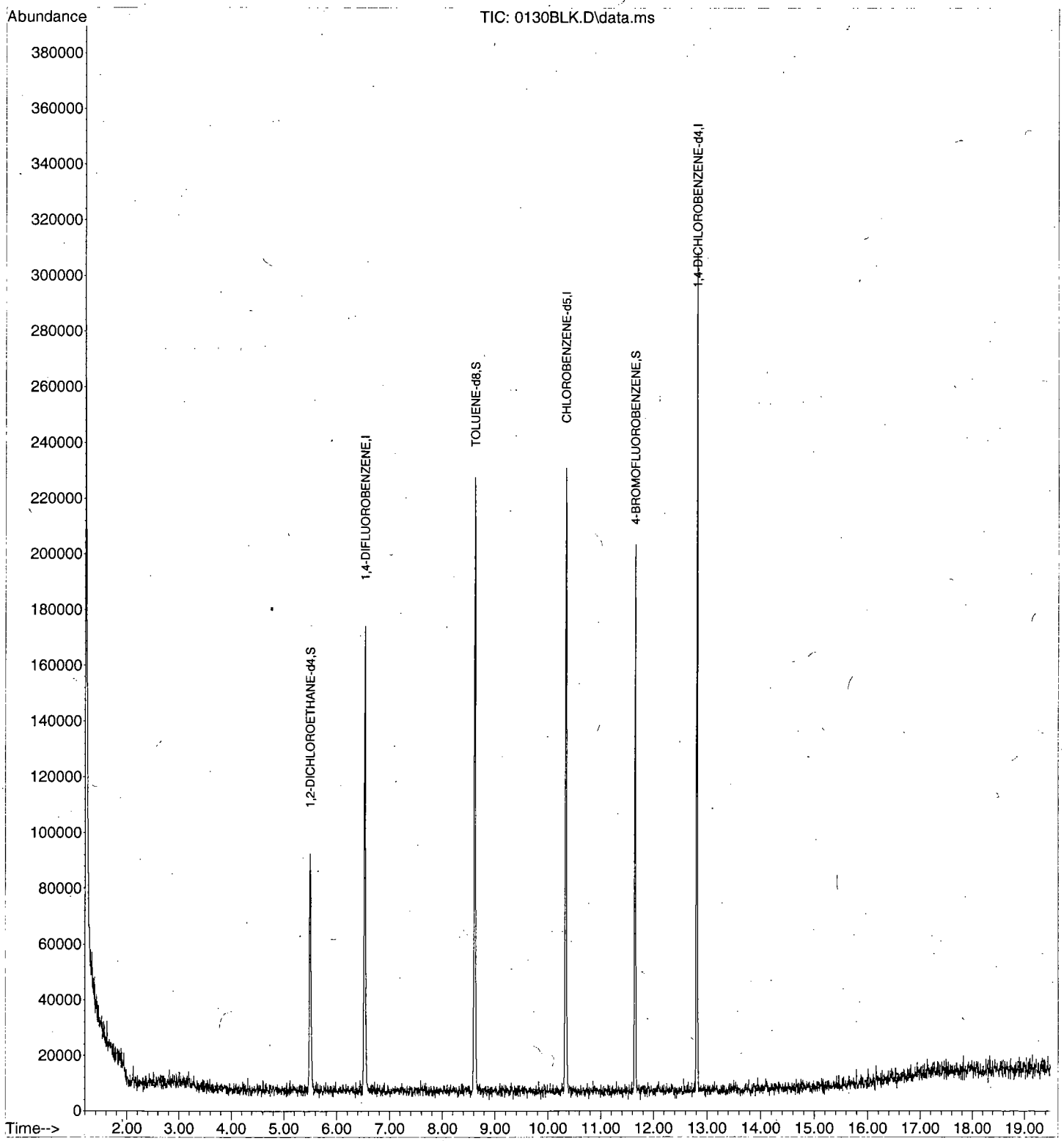
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0128

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 0130BLK.D
Acq On : 30 Jan 2014 13:48
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 30 14:36:00 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



Freedom_0005792_0129

LSC Area Percent Report

Data Path : D:\DATA\L01302014\
Data File : 0130BLK.D
Acq On : 30 Jan 2014 13:48
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 0130BLK.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.895	188	189	194	rVB2	7444	5306	1.38%	0.238%
2	2.004	216	218	225	rVB	3837	5135	1.33%	0.230%
3	2.120	246	249	254	rVB2	8066	5824	1.51%	0.261%
4	2.203	268	271	275	rBV3	5701	4772	1.24%	0.214%
5	2.311	299	300	306	rBV2	5143	5015	1.30%	0.225%
6	2.615	377	381	384	rBV4	4047	4626	1.20%	0.207%
7	3.001	480	484	486	rBV2	5852	4179	1.08%	0.187%
8	3.189	532	534	542	rBV3	5698	5109	1.32%	0.229%
9	3.541	625	628	631	rBV2	5240	4006	1.04%	0.179%
10	4.317	828	835	841	rVB2	6624	7744	2.01%	0.347%
11	4.358	841	846	850	rBV2	3792	4603	1.19%	0.206%
12	4.501	879	884	886	rVB	4342	4531	1.17%	0.203%
13	4.733	940	946	948	rVB2	4520	4586	1.19%	0.205%
14	4.755	948	952	955	rBV2	4385	4879	1.26%	0.218%
15	4.797	962	963	968	rVB	3992	3959	1.03%	0.177%
16	5.055	1030	1032	1038	rBV2	5292	4487	1.16%	0.201%
17	5.411	1126	1127	1133	rBV	3735	3965	1.03%	0.178%
18	5.498	1140	1150	1164	rBV3	85678	175168	45.40%	7.844%
19	5.689	1197	1201	1205	rBV	4746	5161	1.34%	0.231%
20	5.715	1205	1208	1215	rVV2	4059	4705	1.22%	0.211%
21	5.760	1215	1220	1223	rVV2	3878	3947	1.02%	0.177%
22	5.794	1227	1229	1237	rVV2	4744	5054	1.31%	0.226%
23	5.895	1255	1256	1263	rVB2	3929	4093	1.06%	0.183%
24	6.529	1413	1425	1442	rBV2	168412	297888	77.21%	13.339%
25	6.881	1514	1519	1522	rBV	4225	4227	1.10%	0.189%
26	7.230	1611	1612	1619	rVB2	4675	4479	1.16%	0.201%
27	7.409	1655	1660	1662	rVB	3702	4159	1.08%	0.186%
28	7.507	1680	1686	1688	rBV2	3315	4672	1.21%	0.209%
29	7.653	1720	1725	1730	rBV	4655	5231	1.36%	0.234%
30	8.155	1853	1859	1862	rBV2	4028	4024	1.04%	0.180%
31	8.515	1954	1955	1961	rVB	4422	3900	1.01%	0.175%
32	8.617	1967	1982	1998	rBV2	221895	385795	100.00%	17.276%
33	8.823	2035	2037	2043	rVB2	3869	4221	1.09%	0.189%
34	8.868	2043	2049	2054	rBV2	3922	5273	1.37%	0.236%
35	9.145	2122	2123	2128	rBV	3892	3891	1.01%	0.174%
36	9.366	2176	2182	2184	rBV2	5048	5692	1.48%	0.255%
37	9.494	2210	2216	2221	rBV2	3425	5458	1.41%	0.244%
38	9.876	2314	2318	2320	rBV2	4062	3963	1.03%	0.177%
39	9.925	2327	2331	2335	rBV2	5140	5433	1.41%	0.243%

Freedom_0005792_0130

Data Path : D:\DATA\L01302014\
Data File : 0130BLK.D
Acq On : 30 Jan 2014 13:48
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

40	10.337	2430	2441	2455	rBV	224918	373050	96.70%	16.705%
41	10.667	2523	2529	2536	rVB2	2944	4647	1.20%	0.208%
42	10.731	2540	2546	2548	rBV	3273	3948	1.02%	0.177%
43	11.432	2728	2733	2735	rBV2	3676	4319	1.12%	0.193%
44	11.537	2757	2761	2767	rBV2	5673	7221	1.87%	0.323%
45	11.649	2780	2791	2800	rVB2	197385	265998	68.95%	11.911%
46	11.893	2852	2856	2858	rBV2	5516	4916	1.27%	0.220%
47	12.358	2978	2980	2987	rVB2	3825	4775	1.24%	0.214%
48	12.808	3092	3100	3111	rBV2	302037	373027	96.69%	16.704%
49	13.017	3153	3156	3163	rVB2	3596	5043	1.31%	0.226%
50	13.415	3255	3262	3264	rBV2	4133	4530	1.17%	0.203%
51	14.513	3550	3555	3559	rBV2	4518	5266	1.36%	0.236%
52	14.667	3593	3596	3601	rVB2	5469	4717	1.22%	0.211%
53	14.779	3624	3626	3630	rBV2	4785	4058	1.05%	0.182%
54	15.042	3691	3696	3700	rBV2	3856	4291	1.11%	0.192%
55	15.207	3736	3740	3742	rBV2	4819	4936	1.28%	0.221%
56	15.795	3894	3897	3903	rVB2	7268	4835	1.25%	0.217%
57	15.956	3935	3940	3947	rVB3	3369	6006	1.56%	0.269%
58	16.009	3952	3954	3958	rVV2	6663	3926	1.02%	0.176%
59	16.159	3989	3994	3998	rBV4	8931	9013	2.34%	0.404%
60	16.537	4094	4095	4099	rVB3	7546	4438	1.15%	0.199%
61	16.961	4206	4208	4215	rVB4	5038	5789	1.50%	0.259%
62	17.055	4230	4233	4236	rBV2	5507	3927	1.02%	0.176%
63	17.133	4252	4254	4261	rBV2	7313	7867	2.04%	0.352%
64	17.373	4316	4318	4324	rBV6	4706	4640	1.20%	0.208%
65	17.471	4341	4344	4348	rVV4	3755	4105	1.06%	0.184%
66	17.493	4348	4350	4353	rVB2	7583	4042	1.05%	0.181%
67	17.786	4426	4428	4431	rBV	4954	4510	1.17%	0.202%
68	17.827	4437	4439	4443	rVB3	8908	5496	1.42%	0.246%
69	17.861	4444	4448	4452	rVB4	4679	5667	1.47%	0.254%
70	18.029	4490	4493	4496	rBV3	6103	4620	1.20%	0.207%
71	18.078	4501	4506	4510	rVV4	6283	7841	2.03%	0.351%
72	18.292	4561	4563	4567	rVB4	7143	6678	1.73%	0.299%
73	18.595	4643	4644	4650	rBV2	6509	5604	1.45%	0.251%
74	18.809	4699	4701	4704	rBV2	5515	4188	1.09%	0.188%
75	18.873	4715	4718	4722	rVB2	5936	4798	1.24%	0.215%
76	19.180	4793	4800	4804	rBV4	6060	9654	2.50%	0.432%
77	19.225	4809	4812	4817	rVB4	5422	4538	1.18%	0.203%
78	19.315	4830	4836	4837	rBV3	6707	7044	1.83%	0.315%

Sum of corrected areas: 2233128

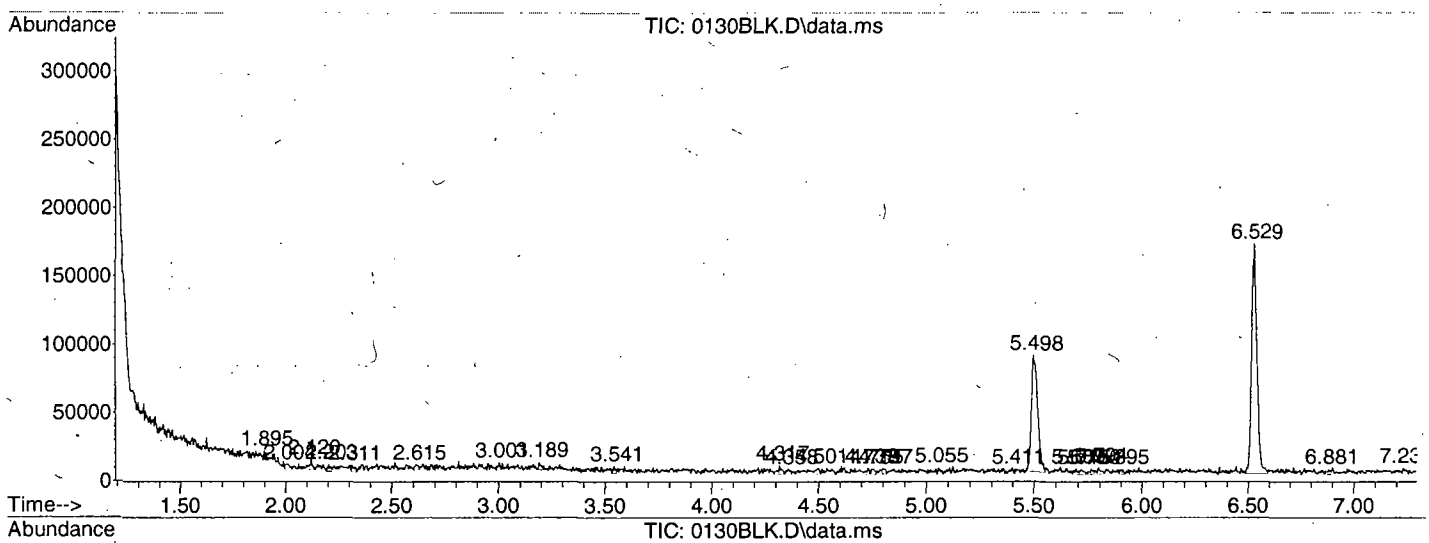
Freedom_0005792_0131

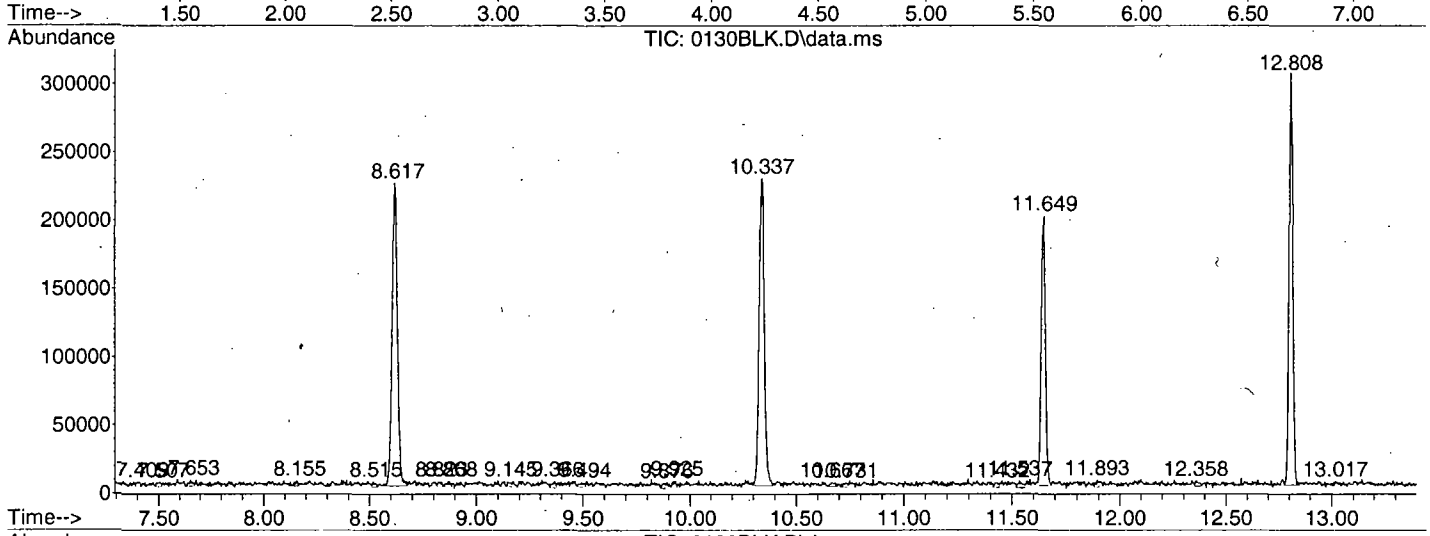
LSC Report - Integrated Chromatogram

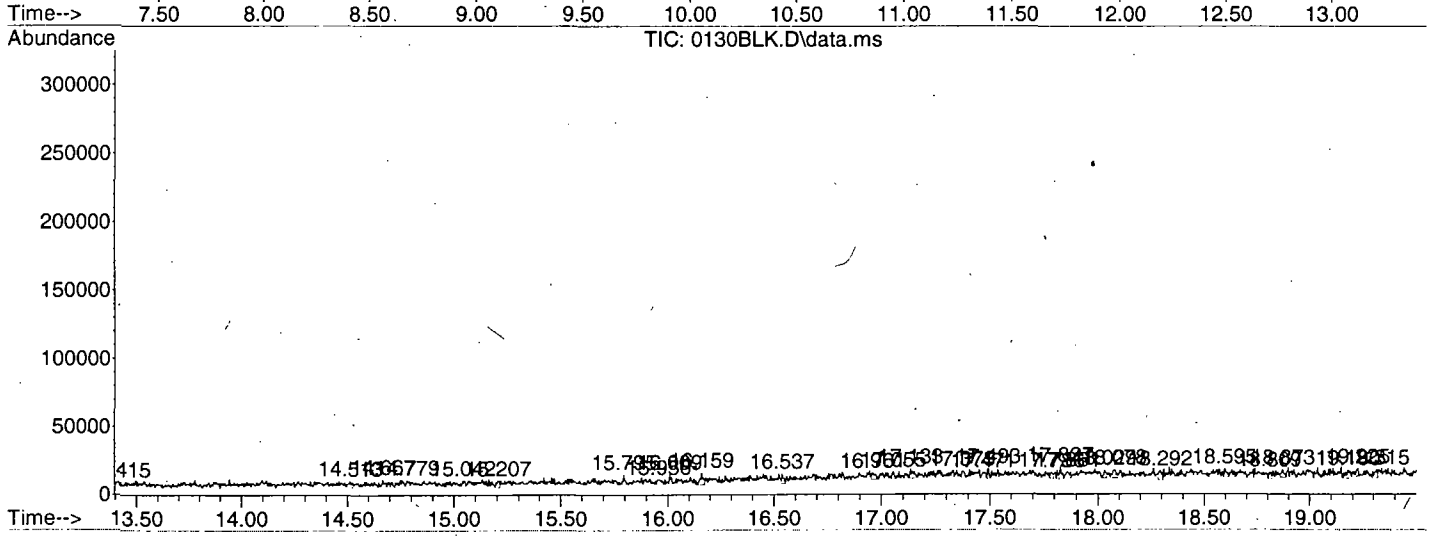
Data Path : D:\DATA\L01302014\
Data File : 0130BLK.D
Acq On : 30 Jan 2014 13:48
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: LSCINT.P







Freedom_0005792_0132

Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L01302014\\
Data File : 0130BLK.D
Acq On : 30 Jan 2014 13:488
Operator : PZ PZ1-AG59755
Sample : Batch-BLK11
Misc :
ALS Vial : 13 Sample Multiplier: 11

Quant Method : D:\METHODS\L01302014.MM
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Methodd

TIC Library : C:\Database\NIST05.LL
TIC Integration Parameters: LSCINT.PP

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

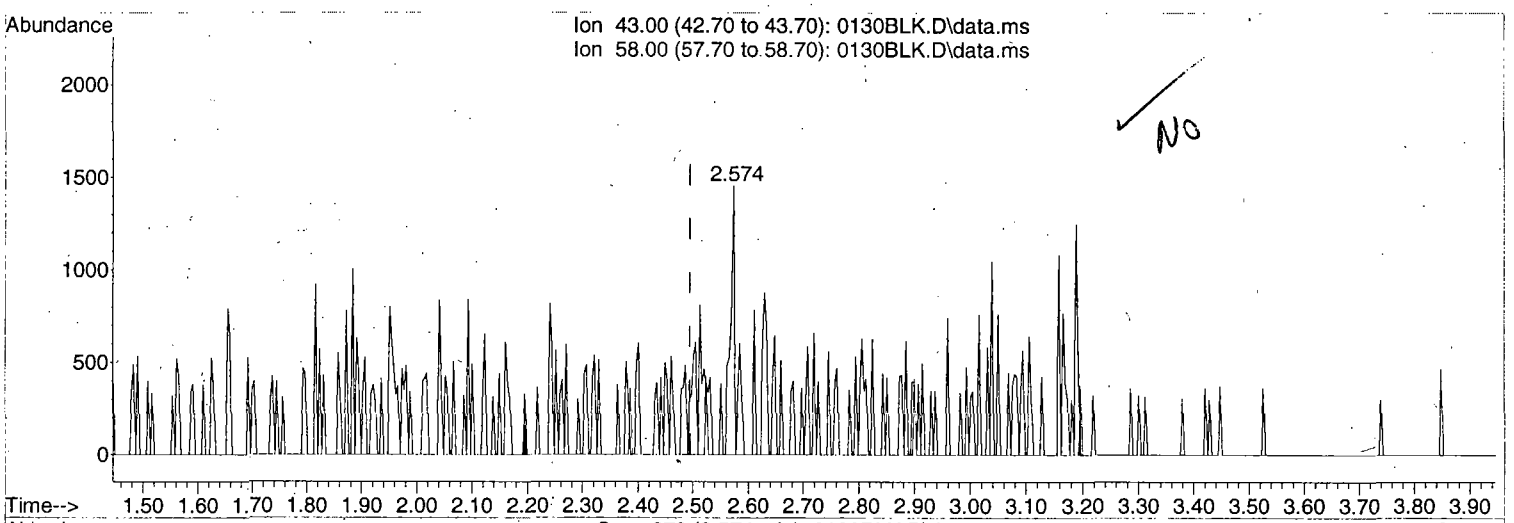
No Library Search Compounds Detected
****

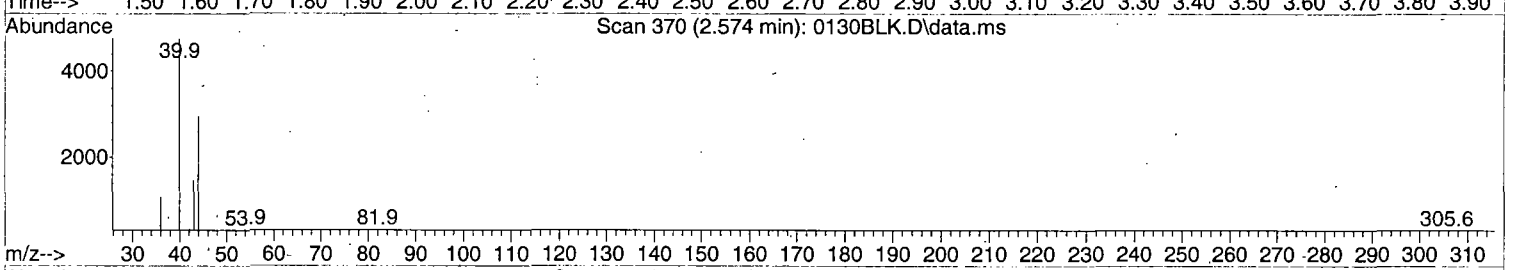
Freedom_0005792_0133

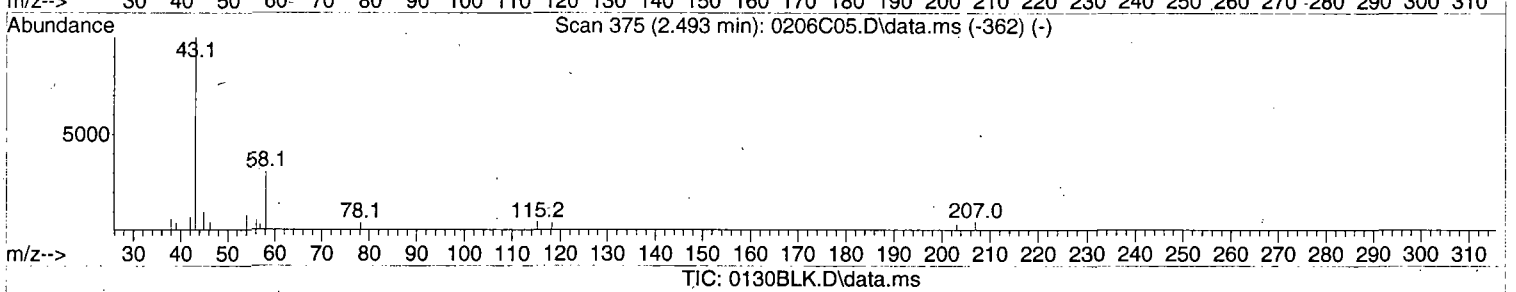
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130BLK.D
Acq On : 30 Jan 2014 13:48
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 30 14:35:49 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







(8) ACETONE (TMCP)

2.574min (+0.079) 0.19 ug/L

response 1000

Ion	Exp%	Act%
43.00	100	100
58.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0134

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 0130BS1.D
Acq On : 30 Jan 2014 12:51
Operator : PZ PZ1-AG5975
Sample : Batch-BS1 BA43003-BS1
Misc : R-MegaMix w/Gases 2.5uL - 100mL
ALS Vial : 11 Sample Multiplier: 1

1400059

TU = 5ppb ± 20%

3 compds out

Quant Time: Jan 30 13:32:15 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.528	114	130900	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.341	117	125734	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.807	152	78652	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.501	65	65574	4.79	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	=	95.80%	
41) TOLUENE-d8	8.620	98	155660	4.80	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	=	96.00%	
59) 4-BROMOFLUOROBENZENE	11.645	95	73485	4.97	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	=	99.40%	
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.310	85	88850 139%	6.97	ug/L	97
3) CHLOROMETHANE	1.423	50	77155	5.32	ug/L	98
4) VINYL CHLORIDE	1.532	62	59158	5.58	ug/L	98
5) BROMOMETHANE	1.790	94	32202 122%	6.09	ug/L	92
6) CHLOROETHANE	1.899	64	31652	5.10	ug/L	93
7) TRICHLOROFLUOROMETHANE	2.334	101	110020	5.18	ug/L	100
9) 1,1-DICHLOROETHENE	2.802	96	37080	5.37	ug/L #	65
10) METHYLENE CHLORIDE	2.982	84	52302	4.85	ug/L #	62
14) TRANS-1,2-DICHLOROETHENE	3.698	96	48837	4.85	ug/L	85
16) 1,1-DICHLOROETHANE	3.968	63	104186	4.90	ug/L	97
19) CIS-1,2-DICHLOROETHENE	4.624	96	51245	4.86	ug/L	92
20) BROMOCHLOROMETHANE	4.785	128	25396	4.94	ug/L #	59
21) CHLOROFORM	4.868	83	97657	4.77	ug/L	99
22) 2,2-DICHLOROPROPANE	4.924	77	62301	4.88	ug/L	100
24) 1,2-DICHLOROETHANE	5.591	62	93524	4.62	ug/L	97
25) 1,1,1-TRICHLOROETHANE	5.681	97	77905	4.80	ug/L #	91
26) 1,1-DICHLOROPROPENE	5.921	75	66496	4.77	ug/L	95
28) CARBON TETRACHLORIDE	6.082	117	71228	4.71	ug/L	94
29) BENZENE	6.154	78	217971	5.07	ug/L	99
30) DIBROMOMETHANE	6.791	93	31767	4.47	ug/L #	85
31) 1,2-DICHLOROPROPANE	6.855	63	56562	4.82	ug/L	99
32) TRICHLOROETHENE	6.922	130	62183	4.72	ug/L	92
33) BROMODICHLOROMETHANE	6.963	83	67502	4.64	ug/L	93
36) CIS-1,3-DICHLOROPROPENE	7.792	75	65626	4.40	ug/L	98
39) TRANS-1,3-DICHLOROPROPENE	8.339	75	54268	4.34	ug/L	99
40) 1,1,2-TRICHLOROETHANE	8.474	97	47720	4.95	ug/L	98
42) TOLUENE	8.703	92	126017	4.97	ug/L	98
43) 1,3-DICHLOROPROPANE	8.770	76	91147	4.69	ug/L	98
44) CHLORODIBROMOMETHANE	9.014	129	45106	4.83	ug/L	100
46) 1,2-DIBROMOETHANE (EDB)	9.299	107	47002	4.77	ug/L #	94
47) TETRACHLOROETHENE	9.550	164	47532	5.17	ug/L	95
48) 1,1,1,2-TETRACHLOROETHANE	10.300	131	43913	4.48	ug/L	98
49) CHLOROBENZENE	10.371	112	146971	5.42	ug/L	99
50) ETHYLBENZENE	10.656	91	233235	4.96	ug/L	97
51) BROMOFORM	10.873	173	27228	4.13	ug/L	94
52) M-XYLENE/P-XYLENE TU = 10ppb	10.884	106	190072	10.96	ug/L	94
53) STYRENE	11.207	104	132183	4.46	ug/L	96
54) O-XYLENE	11.278	106	100693	5.32	ug/L	100
55) ISOPROPYLBENZENE	11.649	105	259912	5.63	ug/L	97
57) 1,1,2,2-TETRACHLOROETHANE	11.263	83	41365	4.64	ug/L	94
58) 1,2,3-TRICHLOROPROPANE	11.405	75	51934	4.40	ug/L	97
60) BROMOBENZENE	11.803	156	65996	4.97	ug/L	87

Freedom_0005792_0135

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 0130BS1.D
Acq On : 30 Jan 2014 12:51
Operator : PZ PZ1-AG5975
Sample : Batch-BS1
Misc : R-MegaMix w/Gases 2.5uL - 100mL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 30 13:32:15 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
61)	N-PROPYLBENZENE	12.065	91	312872	5.52	ug/L		97
62)	2-CHLOROTOLUENE	12.106	91	196599	5.44	ug/L		92
63)	4-CHLOROTOLUENE	12.181	91	209024	5.56	ug/L		95
64)	1,3,5-TRIMETHYLBENZENE	12.361	105	218061	5.02	ug/L		96
65)	TERT-BUTYLBENZENE	12.568	119	184733	5.68	ug/L		94
66)	1,2,4-TRIMETHYLBENZENE	12.684	105	228971	5.17	ug/L		97
67)	SEC-BUTYLBENZENE	12.759	105	310629	5.57	ug/L		98
68)	1,3-DICHLOROBENZENE	12.770	146	141869	5.39	ug/L		96
69)	1,4-DICHLOROBENZENE	12.830	146	140775	4.83	ug/L		97
70)	P-ISOPROPYLTOLUENE	12.935	119	250128	5.53	ug/L		98
71)	1,2-DICHLOROBENZENE	13.111	146	130364	5.22	ug/L		99
72)	N-BUTYLBENZENE	13.265	91	252881	5.21	ug/L		97
73)	1,2-DIBROMO-3-CHLOROPR...	13.490	75	7839 76%	3.80	ug/L	#	81
74)	1,2,4-TRICHLOROBENZENE	14.554	180	92553	4.80	ug/L	#	97
75)	NAPHTHALENE	14.734	128	174290	4.58	ug/L		98
76)	HEXACHLOROBUTADIENE	14.805	225	55164	4.61	ug/L	#	85
77)	1,2,3-TRICHLOROBENZENE	14.880	180	94102	4.85	ug/L	#	93

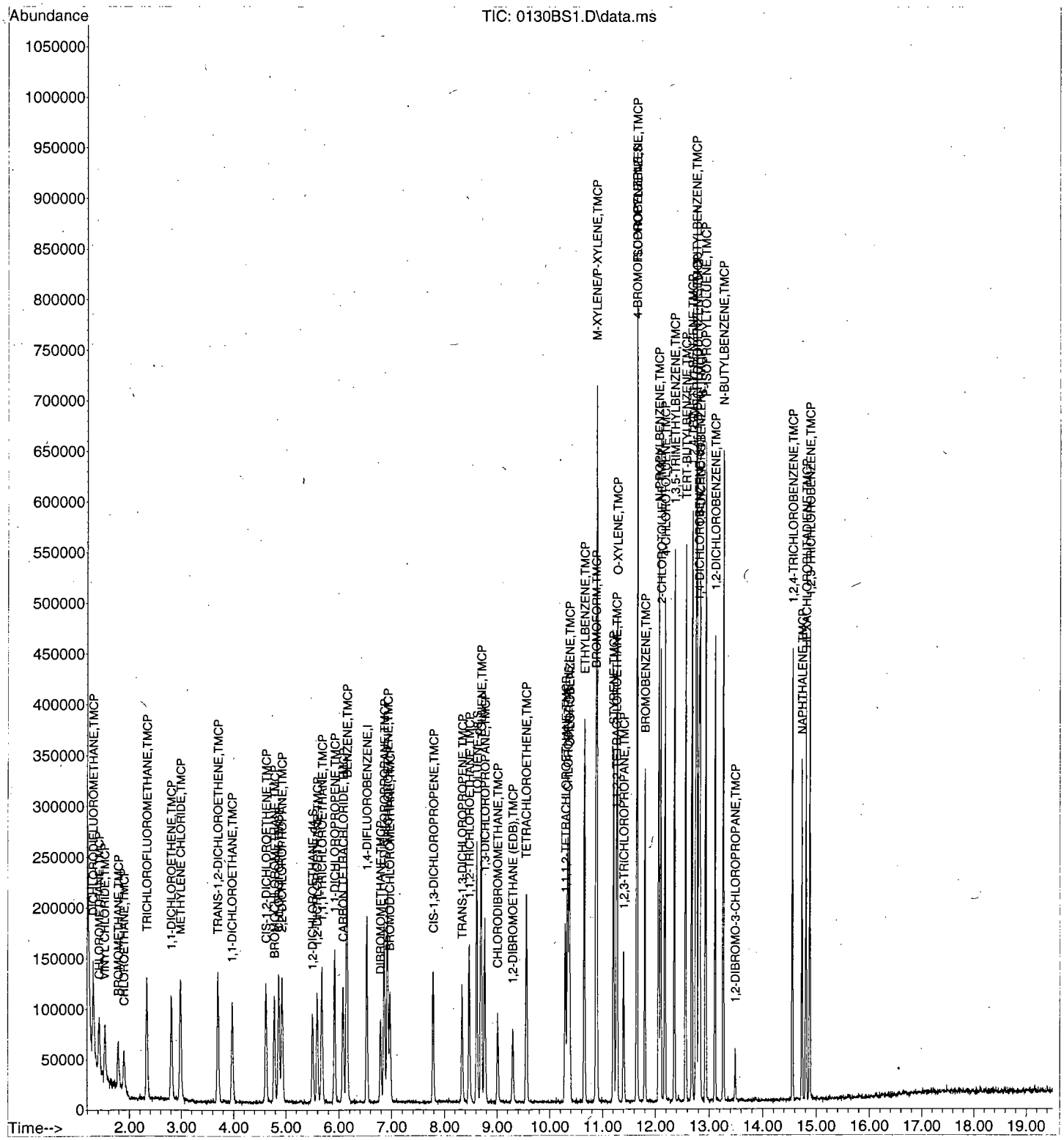
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0136

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 0130BS1.D
Acq On : 30 Jan 2014 12:51
Operator : PZ PZ1-AG5975
Sample : Batch-BS1
Misc : R-MegaMix w/Gases 2.5uL - 100mL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 30 13:32:15 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration

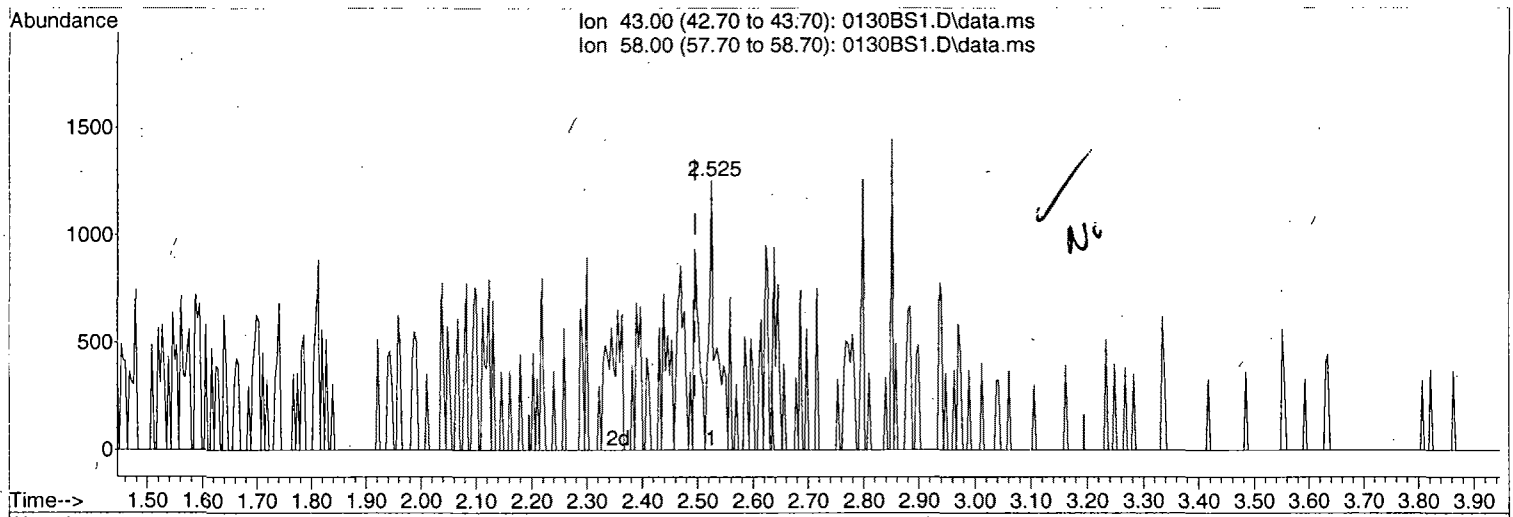


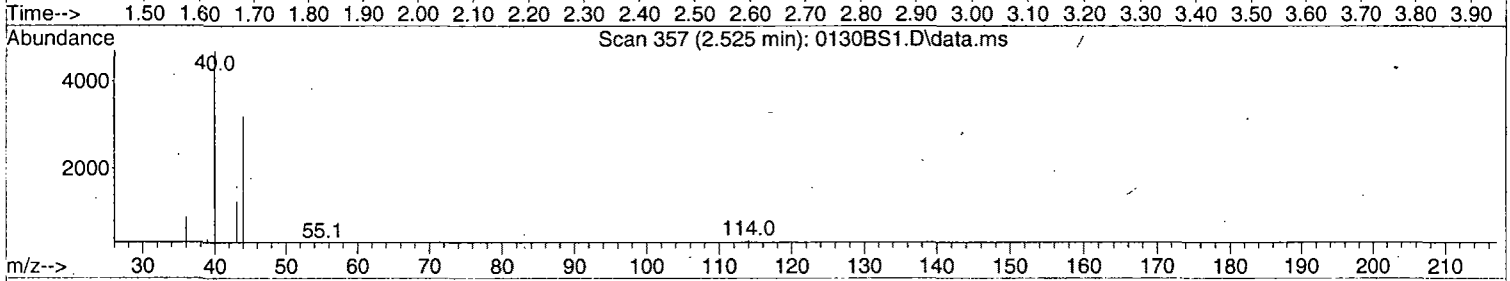
Freedom_0005792_0137

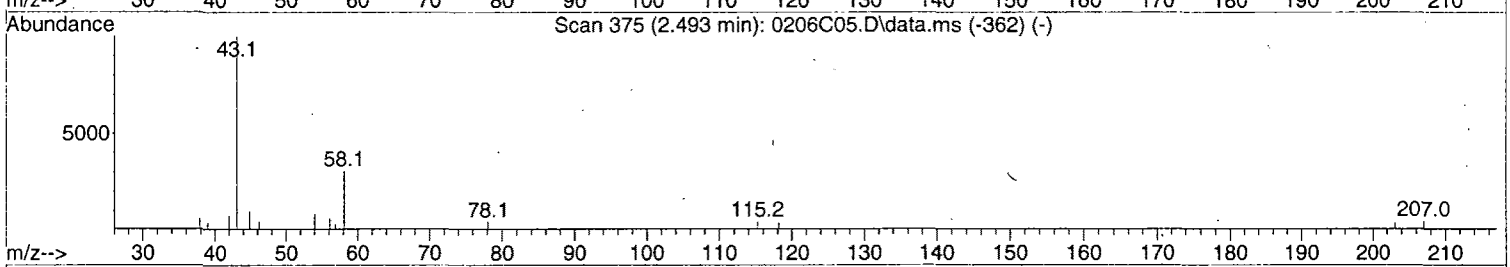
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130BS1.D
Acq On : 30 Jan 2014 12:51
Operator : PZ PZ1-AG5975
Sample : Batch-BS1
Misc : R-MegaMix w/Gases 2.5uL - 100mL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 30 13:31:38 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 0130BS1.D\data.ms

(8) ACETONE (TMCP)

2.525min (+0.030) 0.18 ug/L

response 1111

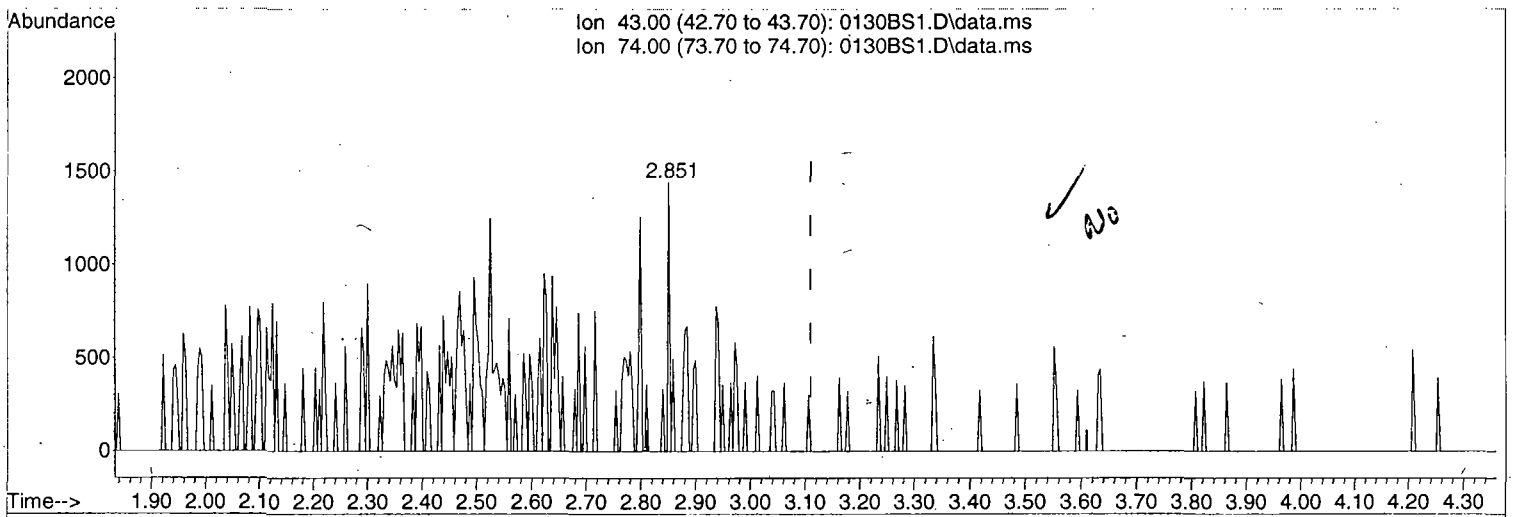
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

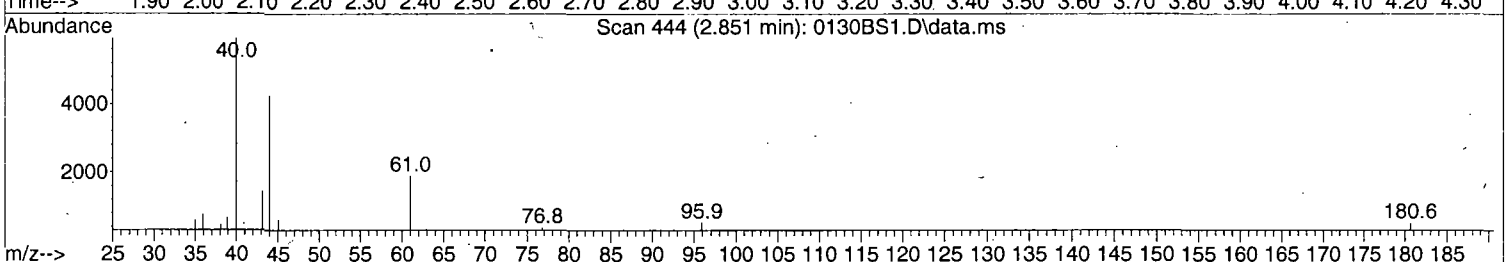
Freedom_0005792_0138

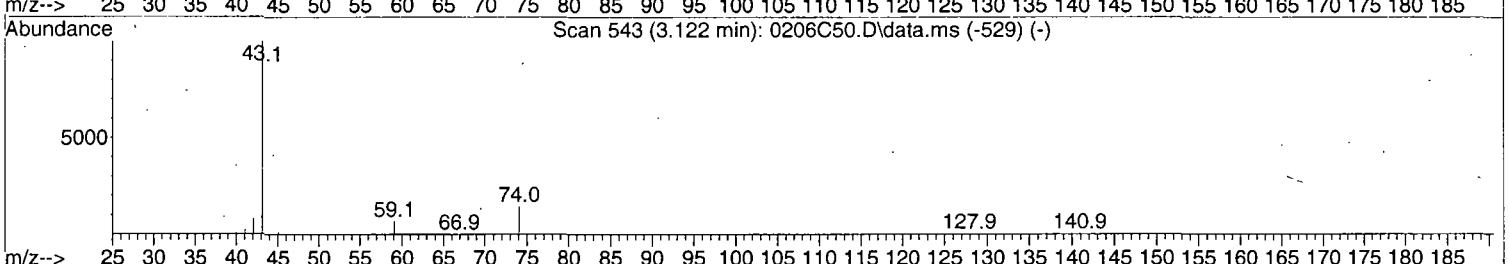
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130BS1.D
Acq On : 30 Jan 2014 12:51
Operator : PZ PZ1-AG5975
Sample : Batch-BS1
Misc : R-MegaMix w/Gases 2.5uL - 100mL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 30 13:31:38 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 0130BS1.D\data.ms

(13) METHYL ACETATE (TMCP)

2.851min (-0.259) 0.05 ug/L

response 512

Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0139

Quantitation Report (QT Reviewed)

no TICs

Data Path : D:\DATA\L02042014\
Data File : 0204BLK.D
Acq On : 4 Feb 2014 17:42
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc : BB41006-BLK1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 05 07:43:15 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-DIFLUOROBENZENE	6.525	114	135064	5.00 ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	133781	5.00 ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.807	152	62021	5.00 ug/L	0.00
System Monitoring Compounds					
23) 1,2-DICHLOROETHANE-d4	5.498	65	74224	5.55 ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 111.00%	
41) TOLUENE-d8	8.616	98	159431	4.47 ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 89.40%	
59) 4-BROMOFLUOROBENZENE	11.645	95	63339	5.05 ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 101.00%	

Target Compounds None detected Qvalue

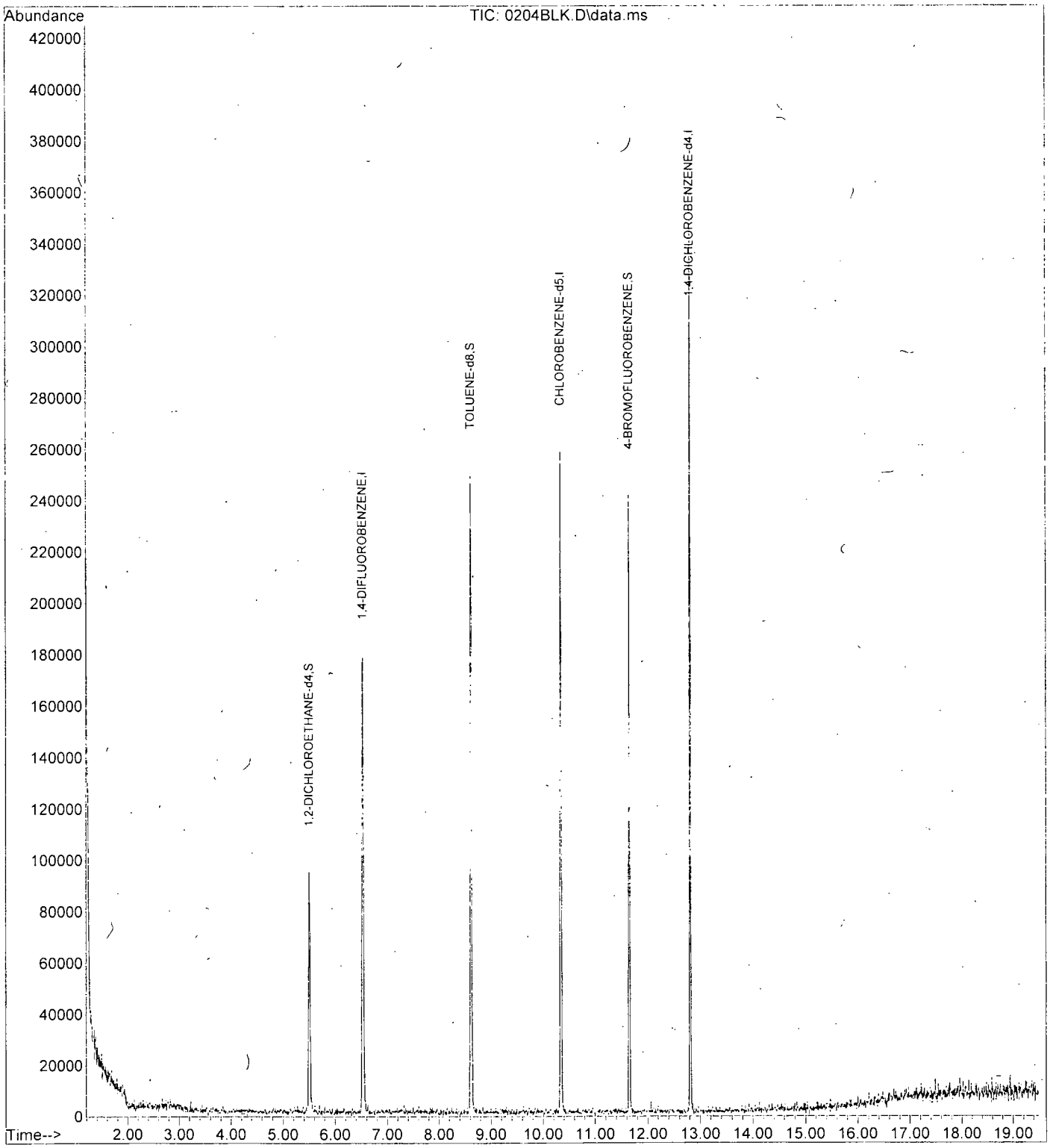
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0140

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204BLK.D
Acq On : 4 Feb 2014 17:42
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 05 07:43:15 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration



LSC Area Percent Report

Data Path : D:\DATA\L02042014\
Data File : 0204BLK.D
Acq On : 4 Feb 2014 17:42
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 95
Peak Location: TOP

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

Method : D:\METHODS\L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 0204BLK.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.404	55	58	63	rVB	10616	9052	2.12%	0.402%
2	1.895	187	189	194	rBV2	5023	4687	1.10%	0.208%
3	1.989	210	214	220	rVB2	5176	4764	1.12%	0.212%
4	5.130	1049	1052	1061	rVB2	3637	5440	1.27%	0.242%
5	5.501	1139	1151	1169	rVB	93727	187909	43.99%	8.347%
6	5.764	1216	1221	1226	rBV2	2897	4613	1.08%	0.205%
7	6.528	1410	1425	1438	rBV3	177786	339879	79.57%	15.098%
8	6.618	1445	1449	1454	rVB	4878	4882	1.14%	0.217%
9	8.616	1970	1982	2000	rBV2	248582	427140	100.00%	18.974%
10	10.337	2429	2441	2454	rBV3	258421	414489	97.04%	18.412%
11	11.645	2782	2790	2804	rVB	240960	308176	72.15%	13.689%
12	12.811	3091	3101	3110	rBV	352505	424060	99.28%	18.837%
13	14.581	3567	3573	3576	rVB3	3247	4786	1.12%	0.213%
14	15.090	3704	3709	3712	rBV2	4311	4955	1.16%	0.220%
15	15.214	3739	3742	3745	rVB2	4958	4378	1.02%	0.194%
16	15.990	3947	3949	3955	rVB3	5143	4381	1.03%	0.195%
17	16.327	4036	4039	4043	rBV3	4300	4766	1.12%	0.212%
18	17.272	4289	4291	4297	rVB3	4860	4395	1.03%	0.195%
19	17.366	4313	4316	4321	rVB4	4789	4411	1.03%	0.196%
20	17.594	4374	4377	4383	rVB5	5194	5268	1.23%	0.234%
21	17.752	4414	4419	4420	rBV2	6895	5512	1.29%	0.245%
22	17.767	4421	4423	4429	rVV5	5984	5450	1.28%	0.242%
23	17.834	4436	4441	4443	rBV3	4540	4524	1.06%	0.201%
24	18.131	4518	4520	4523	rVB	8346	4435	1.04%	0.197%
25	18.325	4564	4572	4576	rVB6	5688	9362	2.19%	0.416%
26	18.588	4641	4642	4645	rBV2	9889	5468	1.28%	0.243%
27	18.753	4681	4686	4689	rBV4	5102	4292	1.00%	0.191%
28	18.895	4721	4724	4728	rVB3	7060	6970	1.63%	0.310%
29	18.944	4731	4737	4739	rVV3	9105	7680	1.80%	0.341%
30	19.109	4775	4781	4783	rVB7	7191	7130	1.67%	0.317%
31	19.120	4783	4784	4790	rBV3	5664	6829	1.60%	0.303%
32	19.356	4844	4847	4851	rVB4	7135	5699	1.33%	0.253%
33	19.435	4865	4868	4871	rBV2	6703	5438	1.27%	0.242%

Sum of corrected areas: 2251220

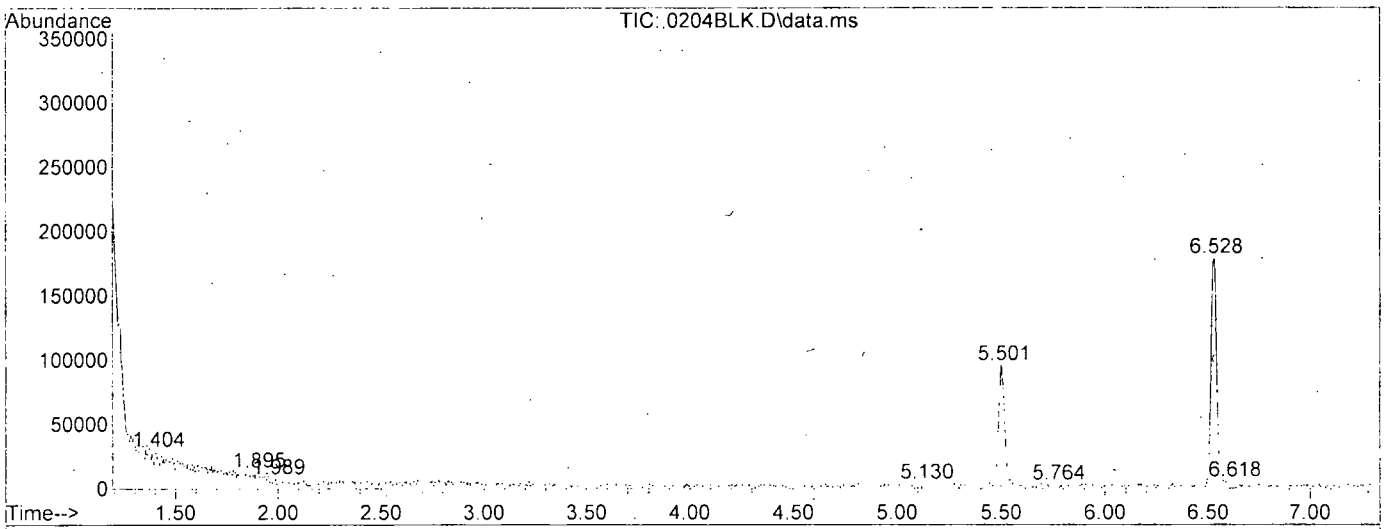
Freedom_0005792_0142

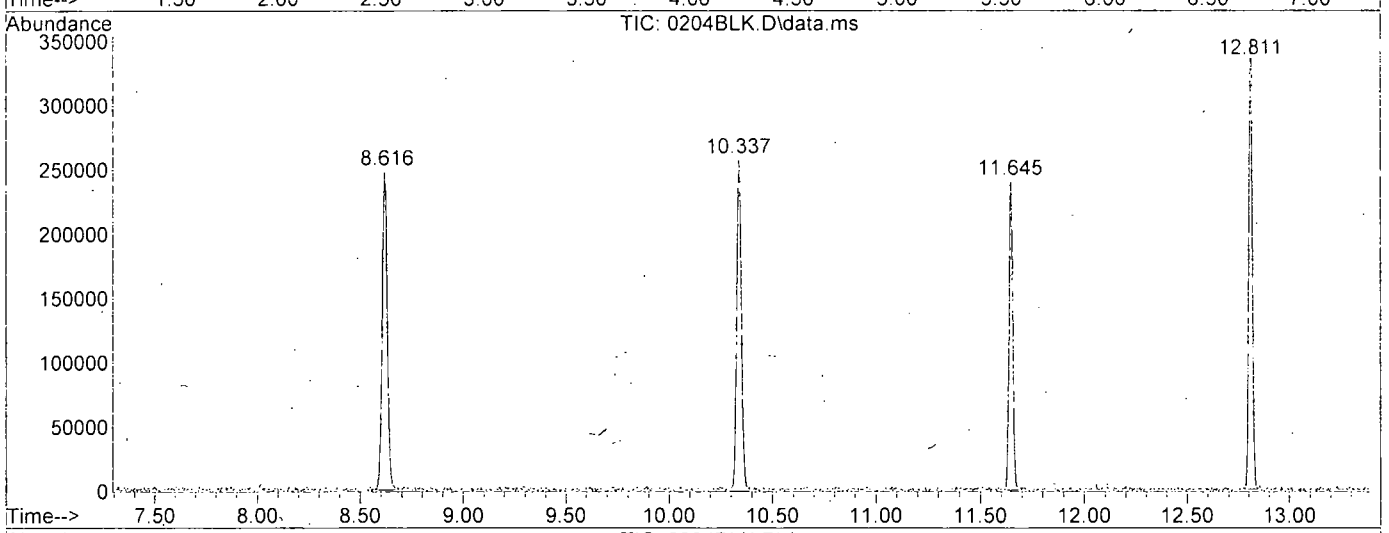
LSC Report - Integrated Chromatogram

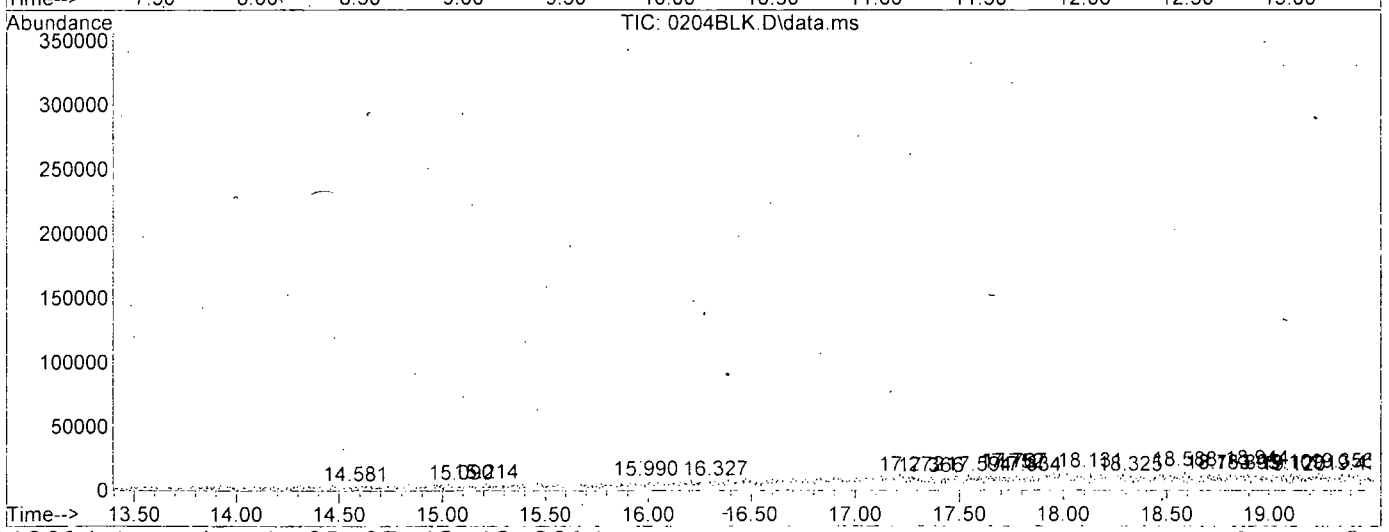
Data Path : D:\DATA\L02042014\
Data File : 0204BLK.D
Acq On : 4 Feb 2014 17:42
Operator : PZ. PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P







Freedom_0005792_0143

Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L02042014\\
Data File : 0204BLK.D
Acq On : 4 Feb 2014 17:422
Operator : PZ PZ1-AG59755
Sample : Batch-BLK11
Misc :
ALS Vial : 17 Sample Multiplier: 11

Quant Method : D:\METHODS\L02042014.MM
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Methodd

TIC Library : C:\Database\NIST05a.LL
TIC Integration Parameters: LSCINT.PP

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

No Library Search Compounds Detected
****

Freedom_0005792_0144

Quantitation Report (QT Reviewed)

No TICs

Data Path : D:\DATA\L02062014\
Data File : 0206BLK.D
Acq On : 6 Feb 2014 11:41
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc : BB41006-BLK2
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 06 12:07:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-DIFLUOROBENZENE	6.529	114	119366	5.00 ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	119213	5.00 ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	53084	5.00 ug/L	0.00
System Monitoring Compounds					
23) 1,2-DICHLOROETHANE-d4	5.501	65	71248	6.02 ug/L	0.00 A
Spiked Amount 5.000	Range 76 - 114		Recovery	= 120.40%#	
41) TOLUENE-d8	8.620	98	135728	4.27 ug/L	0.00 A
Spiked Amount 5.000	Range 88 - 110		Recovery	= 85.40%#	
59) 4-BROMOFLUOROBENZENE	11.649	95	52871	4.92 ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 98.40%	

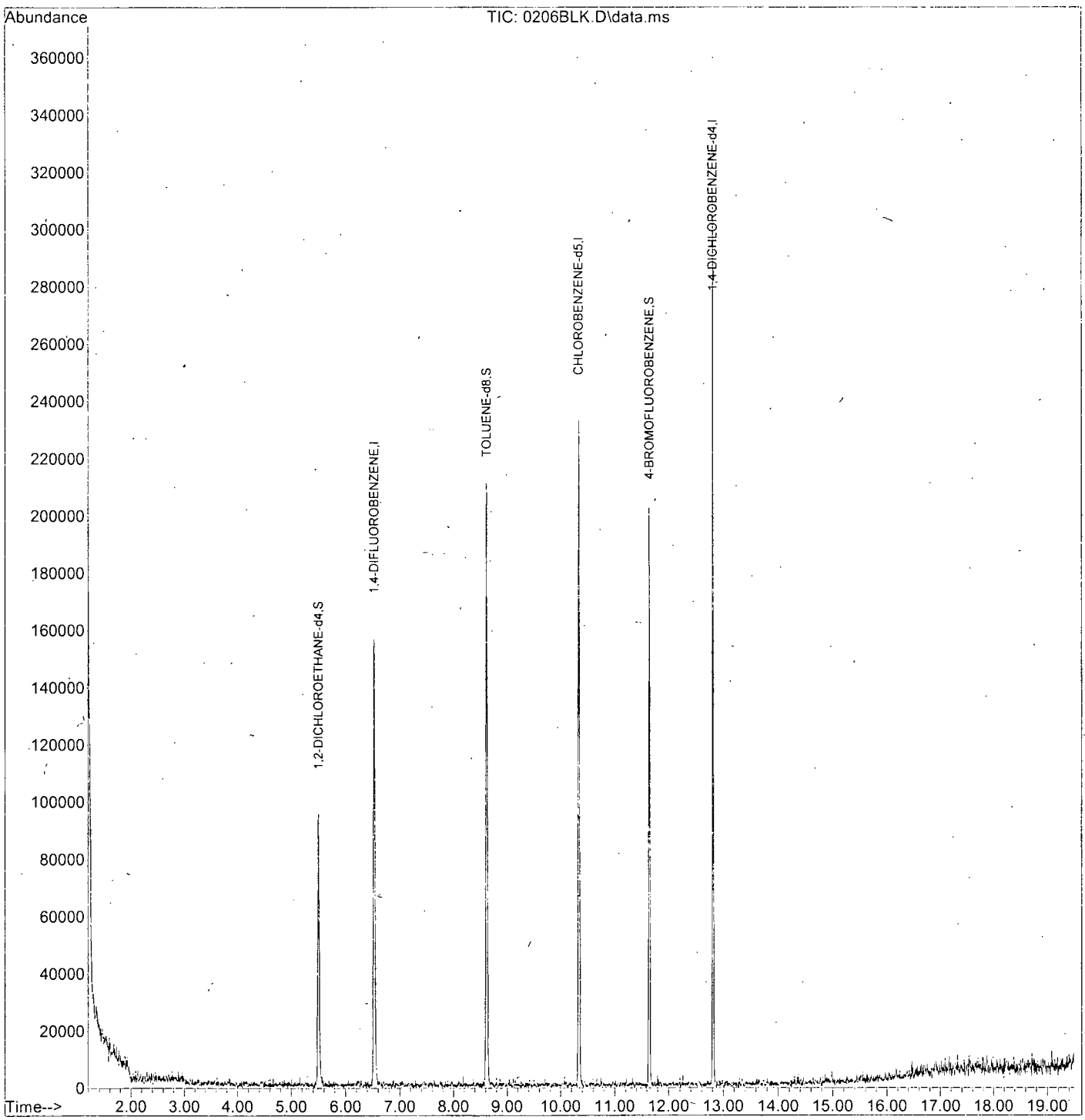
Target Compounds None detected Qvalue

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

Freedom_0005792_0145

Data Path : D:\DATA\L02062014\
Data File : 0206BLK.D
Acq On : 6 Feb 2014 11:41
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 06 12:07:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration



LSC Area Percent Report

Data Path : D:\DATA\L02062014\
Data File : 0206BLK.D
Acq On : 6 Feb 2014 11:41
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 0206BLK.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.592	104	108	111	rBV	8506	7842	2.08%	0.382%
2	1.775	156	157	163	rBV2	5701	4706	1.25%	0.229%
3	1.880	184	185	189	rVB	5330	4447	1.18%	0.217%
4	2.259	282	286	293	rBV	3423	4524	1.20%	0.220%
5	2.424	327	330	335	rBV	4376	4677	1.24%	0.228%
6	3.114	510	514	519	rBV2	3187	3789	1.01%	0.185%
7	5.501	1140	1151	1167	rBV2	94884	177802	47.23%	8.662%
8	6.529	1413	1425	1443	rBV2	157249	308473	81.95%	15.027%
9	7.503	1679	1685	1693	rVB	2064	3832	1.02%	0.187%
10	8.617	1971	1982	1994	rBV3	210788	370358	98.38%	18.042%
11	10.337	2432	2441	2452	rBV3	233550	376439	100.00%	18.338%
12	11.645	2781	2790	2802	rBV2	202437	272835	72.48%	13.291%
13	12.545	3024	3030	3037	rBV	2731	4291	1.14%	0.209%
14	12.808	3089	3100	3108	rBV	308461	375466	99.74%	18.291%
15	13.805	3360	3366	3373	rBV	3186	4587	1.22%	0.223%
16	15.259	3753	3754	3761	rBV2	3664	3785	1.01%	0.184%
17	16.462	4071	4075	4077	rVV2	6920	3805	1.01%	0.185%
18	16.856	4175	4180	4182	rBV	4303	5214	1.39%	0.254%
19	16.939	4200	4202	4208	rVB4	4521	4172	1.11%	0.203%
20	17.088	4238	4242	4244	rBV	6733	3823	1.02%	0.186%
21	17.235	4279	4281	4289	rVB3	4158	5349	1.42%	0.261%
22	17.280	4290	4293	4298	rBV3	4074	4311	1.15%	0.210%
23	17.381	4315	4320	4323	rBV3	3778	4831	1.28%	0.235%
24	17.512	4350	4355	4358	rVB3	4541	5694	1.51%	0.277%
25	17.531	4358	4360	4365	rBV2	7431	6785	1.80%	0.331%
26	17.801	4430	4432	4437	rVB3	6425	4327	1.15%	0.211%
27	17.872	4447	4451	4454	rVB2	6978	4799	1.27%	0.234%
28	18.059	4498	4501	4503	rBV3	5523	4321	1.15%	0.210%

Freedom_0005792_0147

Data Path : D:\DATA\L02062014\
Data File : 0206BLK.D
Acq On : 6 Feb 2014 11:41
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

29	18.119	4511	4517	4519	rBV3	5457	4374	1.16%	0.213%
30	18.483	4608	4614	4617	rVB3	6090	6530	1.73%	0.318%
31	18.502	4617	4619	4622	rBV3	5836	4326	1.15%	0.211%
32	18.550	4626	4632	4635	rVV5	4882	5544	1.47%	0.270%
33	18.719	4675	4677	4682	rBV2	8300	8393	2.23%	0.409%
34	18.824	4701	4705	4708	rBV3	5288	5272	1.40%	0.257%
35	18.884	4720	4721	4727	rVB2	5803	3971	1.05%	0.193%
36	18.914	4727	4729	4734	rBV2	5901	6107	1.62%	0.297%
37	19.008	4747	4754	4755	rBV2	3649	4918	1.31%	0.240%
38	19.023	4755	4758	4763	rBV5	4101	4167	1.11%	0.203%
39	19.079	4766	4773	4776	rBV4	8555	8825	2.34%	0.430%
40	19.461	4870	4875	4878	rBV2	4917	5063	1.34%	0.247%

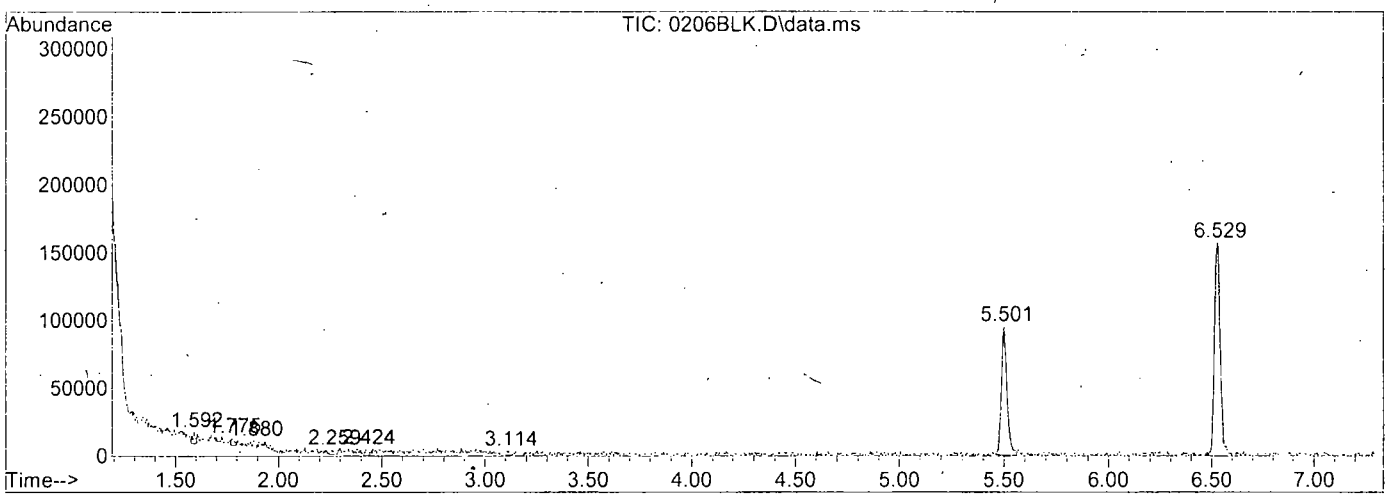
Sum of corrected areas: 2052774

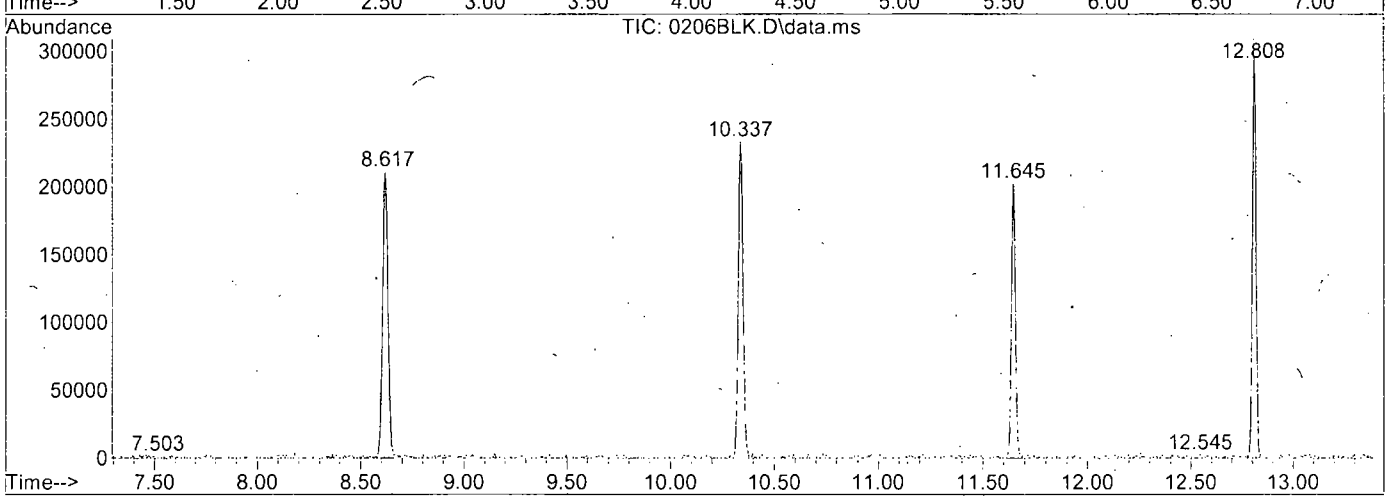
Freedom_0005792_0148

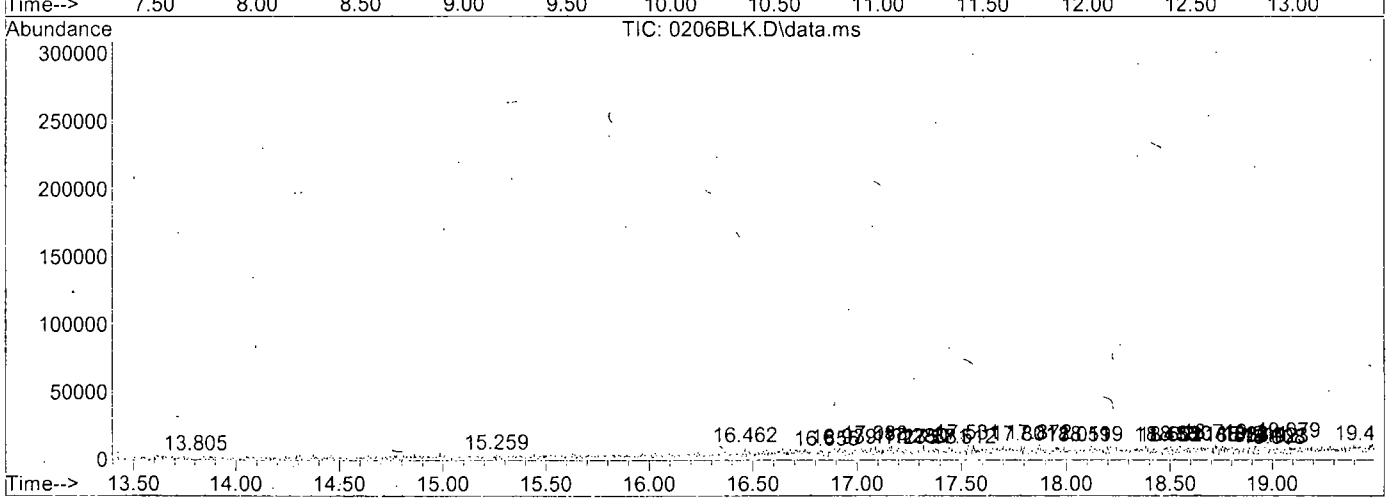
Data Path : D:\DATA\L02062014\
Data File : 0206BLK.D
Acq On : 6 Feb 2014 11:41
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P







Freedom_0005792_0149

Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L02062014\\
Data File : 0206BLK.D
Acq On : 6 Feb 2014 11:411
Operator : PZ PZ1-AG59755
Sample : Batch-BLK11
Misc :
ALS Vial : 5 Sample Multiplier: 11

Quant Method : D:\METHODS\L02042014.MM
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Methodd

TIC Library : C:\Database\NIST05a.LL
TIC Integration Parameters: LSCINT.PP

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

No Library Search Compounds Detected
****

Freedom_0005792_0150

Quantitation Report (QT Reviewed)

To TIC

Data Path : D:\DATA\L02062014\
Data File : 0206HBK.D
Acq On : 6 Feb 2014 12:09
Operator : PZ PZ1-AG5975
Sample : Storage Blank BB41006-BLK3
Misc : Prep'd 2-4-14, rm G206
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 11 10:29:41 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-DIFLUOROBENZENE	6.525	114	113517	5.00 ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	112701	5.00 ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.807	152	52727	5.00 ug/L	0.00
System Monitoring Compounds					
23) 1,2-DICHLOROETHANE-d4	5.501	65	66975	5.96 ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 119.20%#	A
41) TOLUENE-d8	8.620	98	136431	4.54 ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 90.80%	
59) 4-BROMOFLUOROBENZENE	11.645	95	52502	4.92 ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 98.40%	

Target Compounds None detected Qvalue

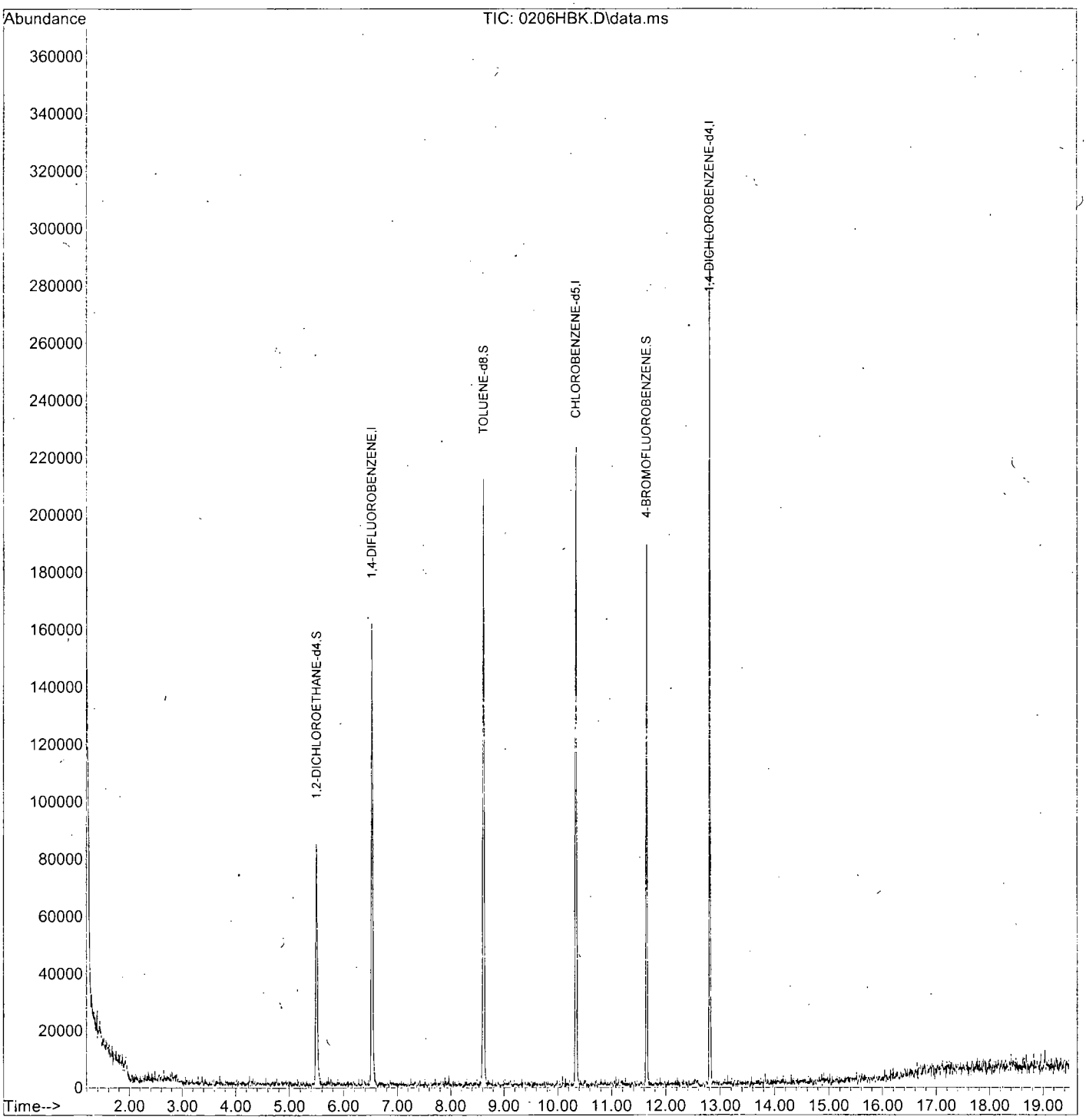
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0151

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02062014\
Data File : 0206HBK.D
Acq On : 6 Feb 2014 12:09
Operator : PZ PZ1-AG5975
Sample : Storage Blank
Misc : Prep'd 2-4-14, rm G206
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 11 10:29:41 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration



Freedom_0005792_0152

LSC.Area Percent Report

Data Path : D:\DATA\L02062014\
Data File : 0206HBK.D
Acq On : 6 Feb 2014 12:09
Operator : PZ PZ1-AG5975
Sample : Storage Blank
Misc : Prep'd 2-4-14, rm G206
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: NOISY.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 0206HBK.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.614	111	114	116	rVB2	5497	4407	1.17%	0.224%
2	1.749	146	150	155	rBV	4933	4937	1.31%	0.251%
3	1.861	179	180	184	rVB	6125	4072	1.08%	0.207%
4	2.551	361	364	373	rBV	3318	5003	1.33%	0.255%
5	2.806	429	432	438	rBV	4452	4104	1.09%	0.209%
6	3.372	579	583	589	rVB	3823	4180	1.11%	0.213%
7	4.257	814	819	824	rBV	4412	4765	1.26%	0.243%
8	5.501	1139	1151	1162	rBV2	84111	159739	42.39%	8.135%
9	6.525	1413	1424	1437	rBV	161580	286602	76.06%	14.595%
10	6.870	1508	1516	1521	rBV2	3065	4338	1.15%	0.221%
11	8.620	1969	1983	1996	rBV	212361	365114	96.90%	18.593%
12	10.341	2429	2442	2458	rVB3	223977	368288	97.74%	18.755%
13	11.649	2780	2791	2801	rBV3	189444	259915	68.98%	13.236%
14	12.807	3092	3100	3110	rVB2	307803	376797	100.00%	19.188%
15	15.608	3841	3847	3851	rBV2	3625	3866	1.03%	0.197%
16	15.780	3888	3893	3898	rBV2	2825	4723	1.25%	0.241%
17	16.406	4054	4060	4064	rVB4	4042	4954	1.31%	0.252%
18	16.676	4127	4132	4133	rBV2	4528	4795	1.27%	0.244%
19	16.826	4166	4172	4175	rVB2	3928	4552	1.21%	0.232%
20	16.920	4192	4197	4198	rBV2	5436	4684	1.24%	0.239%
21	17.096	4239	4244	4246	rBV2	4297	4616	1.23%	0.235%
22	17.291	4292	4296	4299	rVB2	4606	3797	1.01%	0.193%
23	17.400	4321	4325	4331	rBV4	3896	6233	1.65%	0.317%
24	18.052	4497	4499	4505	rBV2	4921	4782	1.27%	0.244%
25	18.119	4511	4517	4519	rBV3	4015	4028	1.07%	0.205%
26	18.153	4524	4526	4530	rBV3	4284	3779	1.00%	0.192%
27	18.299	4561	4565	4568	rBV2	4769	3849	1.02%	0.196%
28	18.378	4580	4586	4589	rVB5	3911	4247	1.13%	0.216%

Freedom_0005792_0153

Data Path : D:\DATA\L02062014\
Data File : 0206HBK.D
Acq On : 6 Feb 2014 12:09
Operator : PZ PZ1-AG5975
Sample : Storage Blank
Misc : Prep'd 2-4-14, rm G206
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: NOISY.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

29	18.404	4589	4593	4598	rBV3	6226	6084	1.61%	0.310%
30	18.520	4622	4624	4628	rVB3	5065	3878	1.03%	0.197%
31	18.693	4667	4670	4672	rVB3	7152	4727	1.25%	0.241%
32	18.772	4686	4691	4692	rBV2	5167	4546	1.21%	0.232%
33	18.963	4737	4742	4744	rBV3	7970	6568	1.74%	0.334%
34	19.038	4757	4762	4766	rVB5	7542	6276	1.67%	0.320%
35	19.244	4815	4817	4822	rVB2	5813	5081	1.35%	0.259%
36	19.326	4838	4839	4845	rVB3	4903	4444	1.18%	0.226%
37	19.398	4855	4858	4863	rVB4	5416	6932	1.84%	0.353%

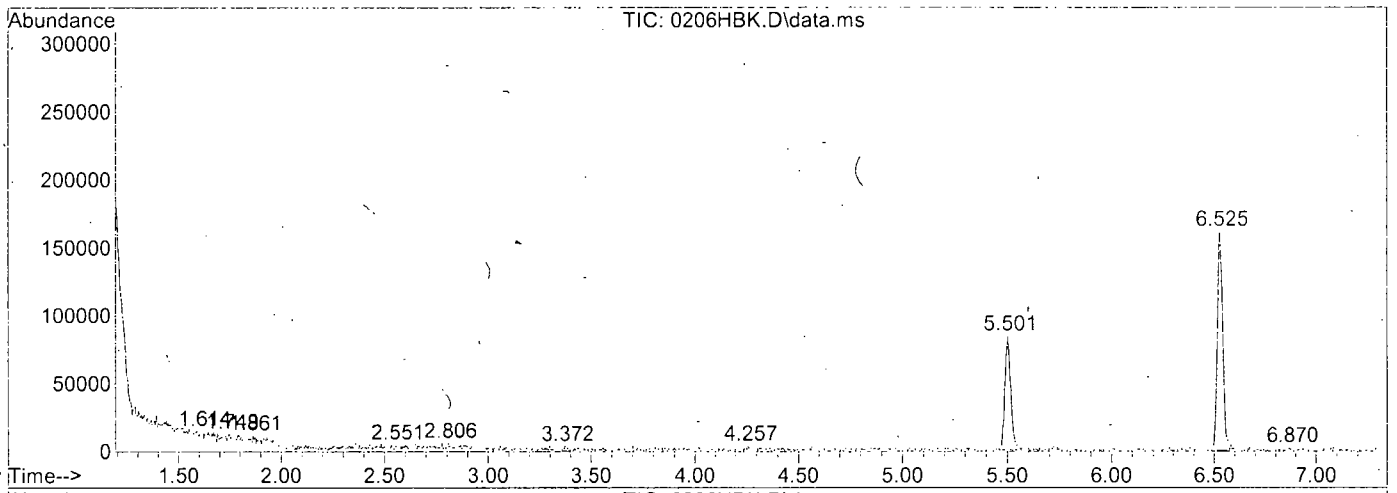
Sum of corrected areas: 1963702

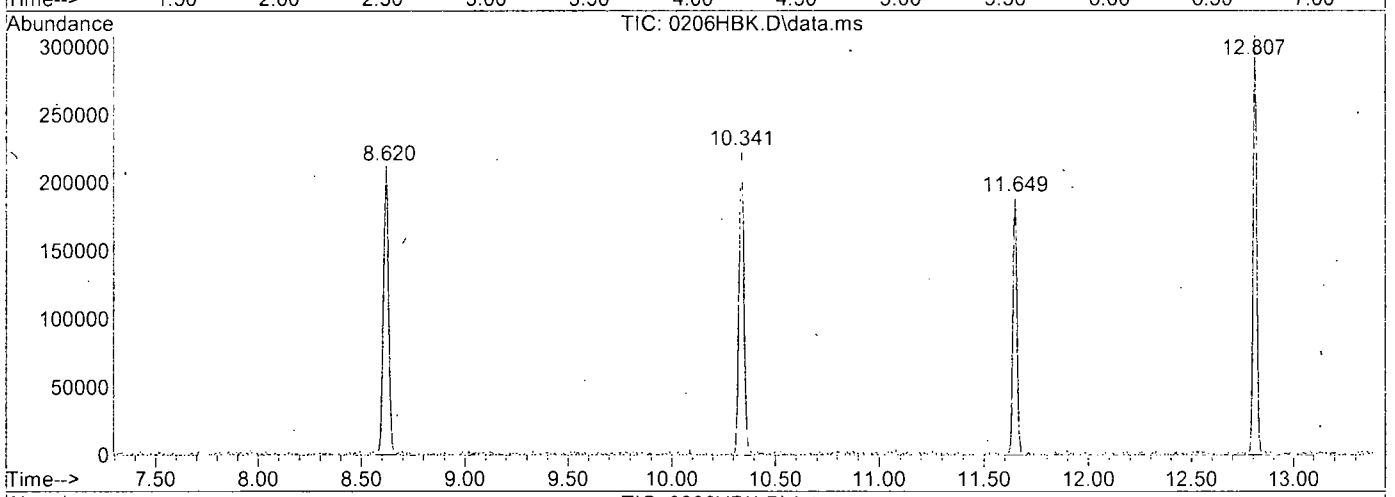
Freedom_0005792_0154

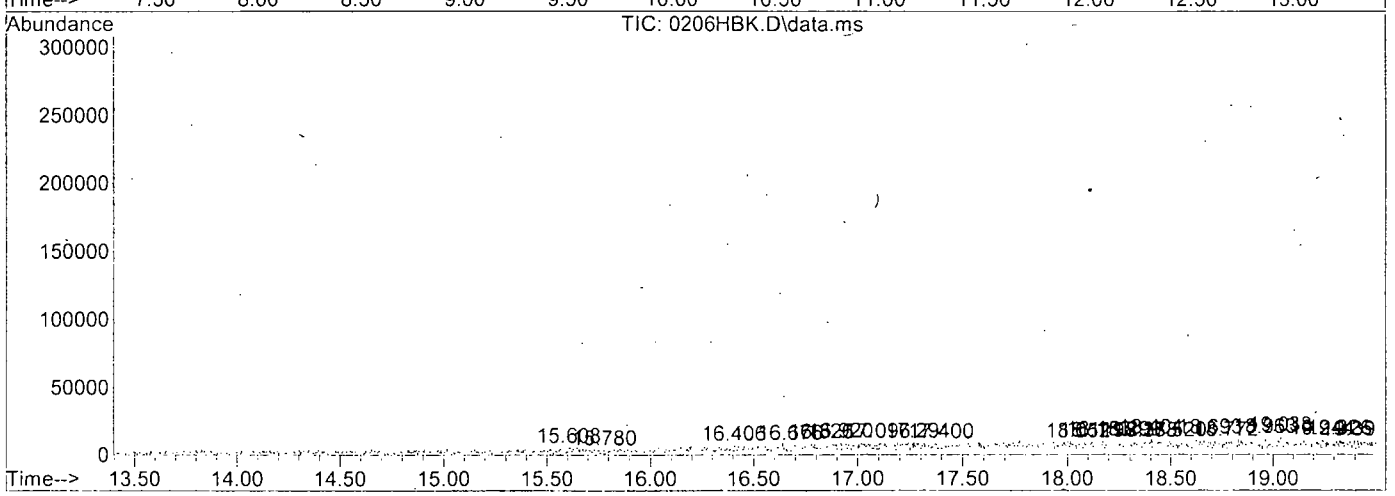
Data Path : D:\DATA\L02062014\
Data File : 0206HBK.D
Acq On : 6 Feb 2014 12:09
Operator : PZ PZ1-AG5975
Sample : Storage Blank
Misc : Prep'd 2-4-14, rm G206
ALS Vial : 6 Sample Multiplier: 1

Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P







Freedom_0005792_0155

Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L02062014\\
Data File : 0206HBK.D
Acq On : 6 Feb 2014 12:099
Operator : PZ PZ1-AG59755
Sample : Storage Blankk
Misc : Prep'd 2-4-14, rm G2066
ALS Vial : 6 Sample Multiplier: 11

Quant Method : D:\METHODS\L02042014.MM
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Methodd

TIC Library : C:\Database\NIST05a.LL
TIC Integration Parameters: LSCINT.PP

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

No Library Search Compounds Detected
****

Freedom_0005792_0156

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204BS1.D
Acq On : 4 Feb 2014 16:45
Operator : PZ PZ1-AG5975
Sample : Batch-BS1 BB41006-BS1
Misc : R-MegaMix w/Gases 2.5uL - 100mL
ALS Vial : 15 Sample Multiplier: 1

1400059 TV = 5ppb ± 20%

3 cmpds out

Quant Time: Feb 05 07:42:04 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-DIFLUOROBENZENE	6.529	114	152204	5.00 ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	142814	5.00 ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	90953	5.00 ug/L	0.00
System Monitoring Compounds					
23) 1,2-DICHLOROETHANE-d4	5.498	65	76810	5.09 ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 101.80%	
41) TOLUENE-d8	8.620	98	187518	4.93 ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 98.60%	
59) 4-BROMOFLUOROBENZENE	11.649	95	89186	4.84 ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 96.80%	
Target Compounds					Qvalue
2) DICHLORODIFLUOROMETHANE	1.307	85	108512 134%	6.71 ug/L	97
3) CHLOROMETHANE	1.416	50	48163	5.74 ug/L #	79
4) VINYL CHLORIDE	1.528	62	55706	5.55 ug/L	99
5) BROMOMETHANE	1.783	94	42152m	6.10 ug/L	
6) CHLOROETHANE	1.892	64	35764 122%	5.51 ug/L	89
7) TRICHLOROFLUOROMETHANE	2.326	101	148314	5.90 ug/L	99
9) 1,1-DICHLOROETHENE	2.803	96	49624 123%	6.15 ug/L	93
10) METHYLENE CHLORIDE	2.975	84	55900	4.62 ug/L	87
14) TRANS-1,2-DICHLOROETHENE	3.698	96	62160	5.41 ug/L	94
16) 1,1-DICHLOROETHANE	3.976	63	119096	5.45 ug/L	99
19) CIS-1,2-DICHLOROETHENE	4.624	96	68354	5.40 ug/L	89
20) BROMOCHLOROMETHANE	4.786	128	31970	5.28 ug/L	98
21) CHLOROFORM	4.868	83	128124	5.22 ug/L	98
22) 2,2-DICHLOROPROPANE	4.924	77	82942	5.18 ug/L	99
24) 1,2-DICHLOROETHANE	5.588	62	108159	5.49 ug/L	98
25) 1,1,1-TRICHLOROETHANE	5.681	97	106456	5.30 ug/L	97
26) 1,1-DICHLOROPROPENE	5.921	75	84601	5.18 ug/L	94
28) CARBON TETRACHLORIDE	6.083	117	92887	5.25 ug/L	99
29) BENZENE	6.150	78	280084	5.63 ug/L	100
30) DIBROMOMETHANE	6.791	93	42267	5.06 ug/L #	81
31) 1,2-DICHLOROPROPANE	6.859	63	64780	5.41 ug/L	99
32) TRICHLOROETHENE	6.919	130	78695	5.45 ug/L	91
33) BROMODICHLOROMETHANE	6.963	83	97007	5.44 ug/L #	98
36) CIS-1,3-DICHLOROPROPENE	7.784	75	81859	4.90 ug/L	95
39) TRANS-1,3-DICHLOROPROPENE	8.335	75	77057	5.14 ug/L	100
40) 1,1,2-TRICHLOROETHANE	8.470	97	60351	5.24 ug/L	94
42) TOLUENE	8.703	92	154489	5.17 ug/L	97
43) 1,3-DICHLOROPROPANE	8.770	76	115062	5.40 ug/L	99
44) CHLORODIBROMOMETHANE	9.021	129	58580	4.99 ug/L #	92
46) 1,2-DIBROMOETHANE (EDB)	9.299	107	58768	5.18 ug/L #	96
47) TETRACHLOROETHENE	9.558	164	53131	5.27 ug/L	95
48) 1,1,1,2-TETRACHLOROETHANE	10.296	131	59631	5.69 ug/L	95
49) CHLOROBENZENE	10.371	112	178139	5.30 ug/L	95
50) ETHYLBENZENE	10.656	91	304661	5.36 ug/L	97
51) BROMOFORM	10.873	173	36405	5.34 ug/L	96
52) M-XYLENE/P-XYLENE TV = 10ppb	10.888	106	236886	11.23 ug/L	84
53) STYRENE	11.211	104	176009	5.09 ug/L	95
54) O-XYLENE	11.282	106	127557	5.52 ug/L	93
55) ISOPROPYLBENZENE	11.649	105	330955	5.39 ug/L	94
57) 1,1,2,2-TETRACHLOROETHANE	11.263	83	54825	5.84 ug/L #	90

Freedom_0005792_0157

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204BS1.D
Acq On : 4 Feb 2014 16:45
Operator : PZ PZ1-AG5975
Sample : Batch-BS1
Misc : R-MegaMix w/Gases 2.5uL - 100mL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 05 07:42:04 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
58) 1,2,3-TRICHLOROPROPANE	11.398	75	69407	5.11 ug/L	98
60) BROMOBENZENE	11.799	156	70764	4.62 ug/L #	69
61) N-PROPYLBENZENE	12.065	91	420359	5.21 ug/L	93
62) 2-CHLOROTOLUENE	12.103	91	262735	5.37 ug/L	89
63) 4-CHLOROTOLUENE	12.182	91	275346	5.22 ug/L	90
64) 1,3,5-TRIMETHYLBENZENE	12.362	105	277547	5.35 ug/L	96
65) TERT-BUTYLBENZENE	12.568	119	230385	5.22 ug/L	85
66) 1,2,4-TRIMETHYLBENZENE	12.684	105	299759	5.61 ug/L	94
67) SEC-BUTYLBENZENE	12.759	105	405706	5.52 ug/L	92
68) 1,3-DICHLOROBENZENE	12.766	146	170797	5.16 ug/L	96
69) 1,4-DICHLOROBENZENE	12.830	146	167580	5.02 ug/L #	93
70) P-ISOPROPYLTOLUENE	12.939	119	317002	5.47 ug/L	96
71) 1,2-DICHLOROBENZENE	13.111	146	159703	5.16 ug/L	97
72) N-BUTYLBENZENE	13.265	91	340205	5.53 ug/L #	96
73) 1,2-DIBROMO-3-CHLOROPR...	13.486	75	10996	5.07 ug/L #	79
74) 1,2,4-TRICHLOROBENZENE	14.555	180	113940	4.99 ug/L #	94
75) NAPHTHALENE	14.734	128	231653	5.14 ug/L	100
76) HEXACHLOROBUTADIENE	14.806	225	66959	5.12 ug/L #	82
77) 1,2,3-TRICHLOROBENZENE	14.877	180	121117	5.40 ug/L #	94

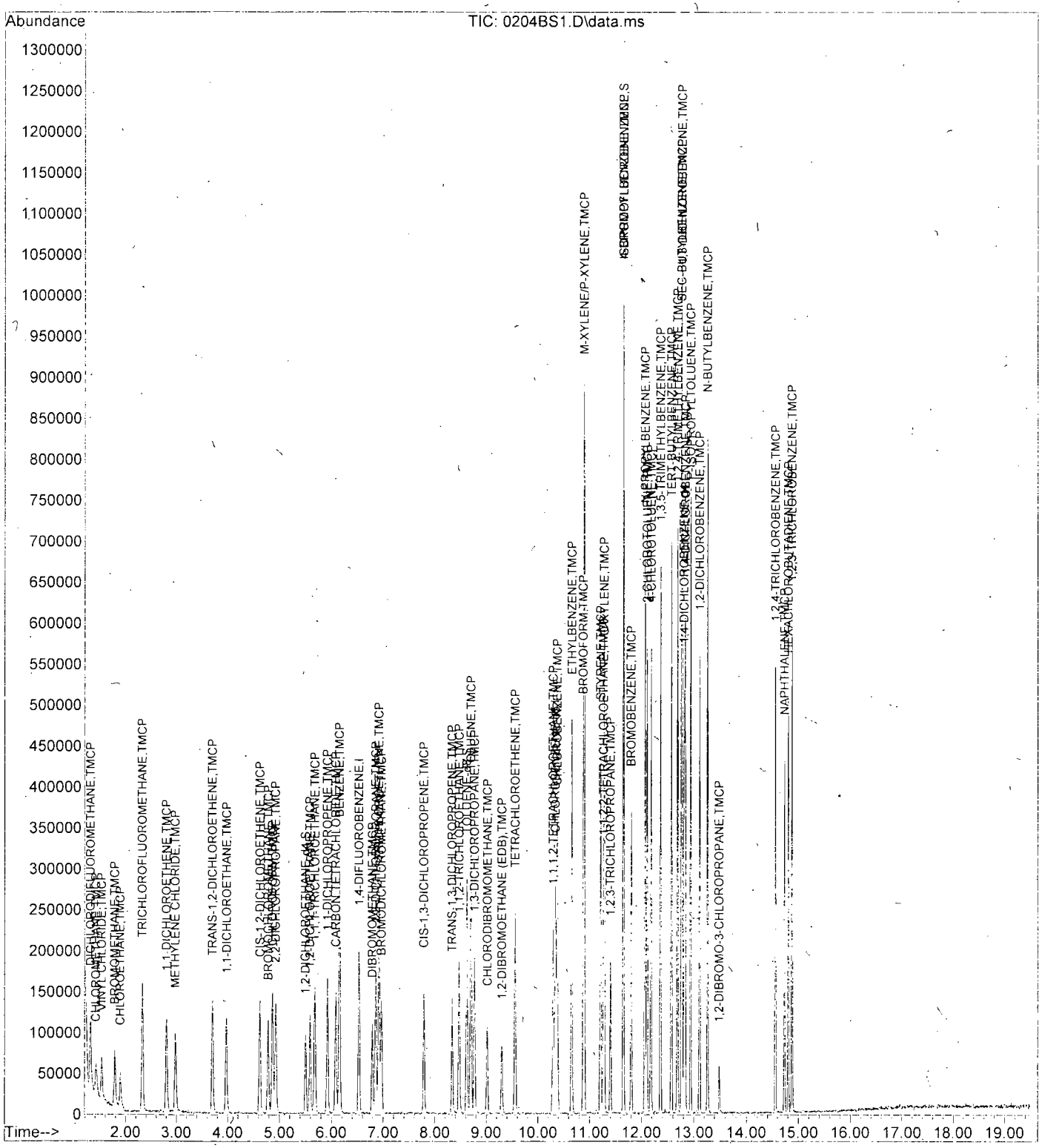
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0158

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204BS1.D
Acq On : 4 Feb 2014 16:45
Operator : PZ PZ1-AG5975
Sample : Batch-BS1
Misc : R-MegaMix w/Gases 2.5uL - 100mL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 05 07:42:04 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration

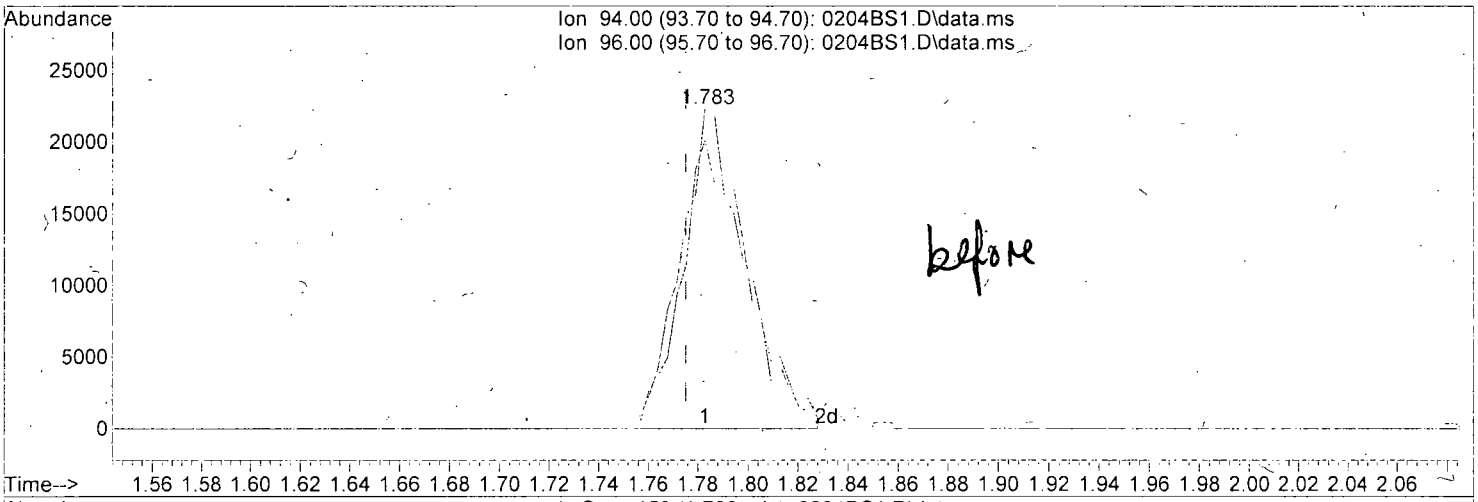


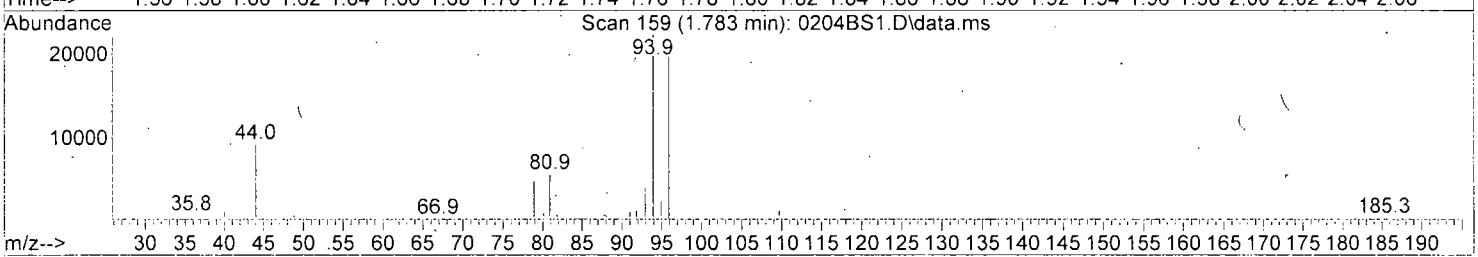
Freedom_0005792_0159

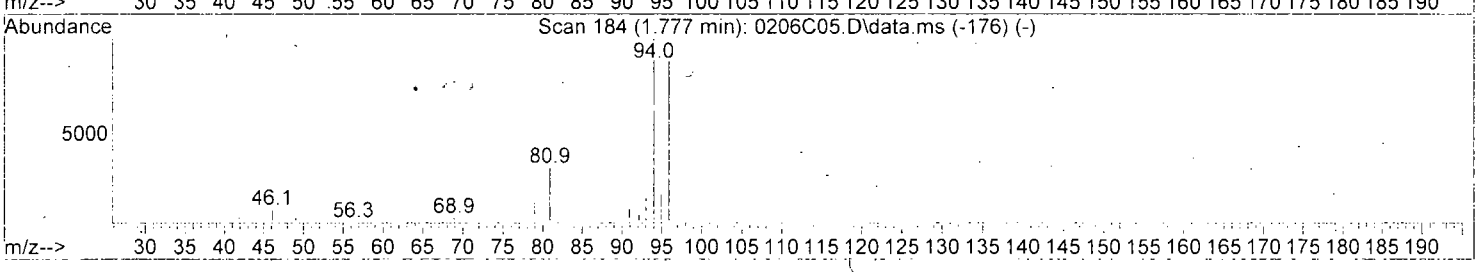
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204BS1.D
Acq On : 4 Feb 2014 16:45
Operator : PZ PZ1-AG5975
Sample : Batch-BS1
Misc : R-MegaMix w/Gases 2.5uL - 100mL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 05 07:41:31 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0204BS1.D\data.ms

(5) BROMOMETHANE (TMCP)

1.783min (+0.008) 5.89 ug/L

response 40693

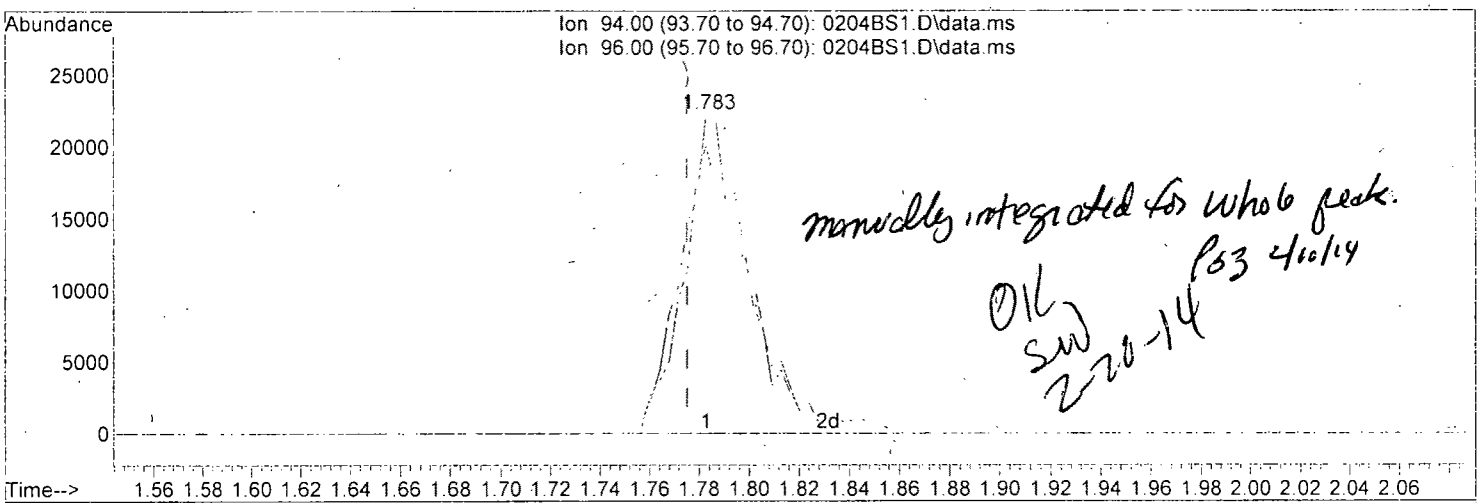
Ion	Exp%	Act%
94.00	100	100
96.00	93.10	91.50
0.00	0.00	0.00
0.00	0.00	0.00

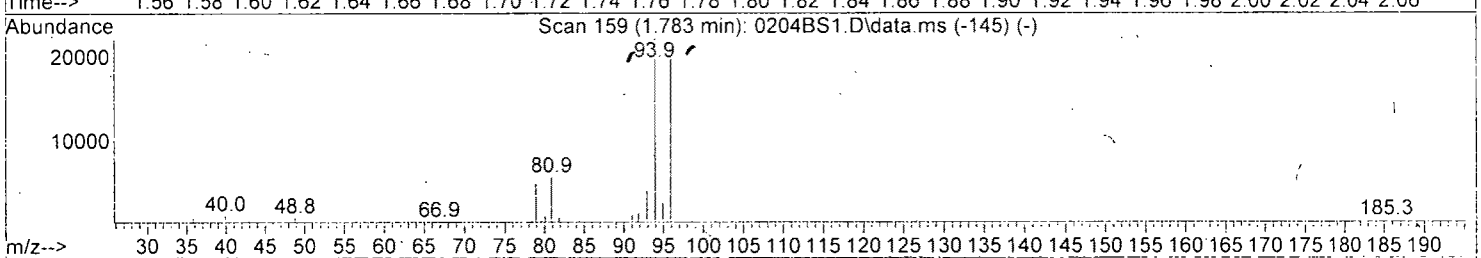
Freedom_0005792_0160

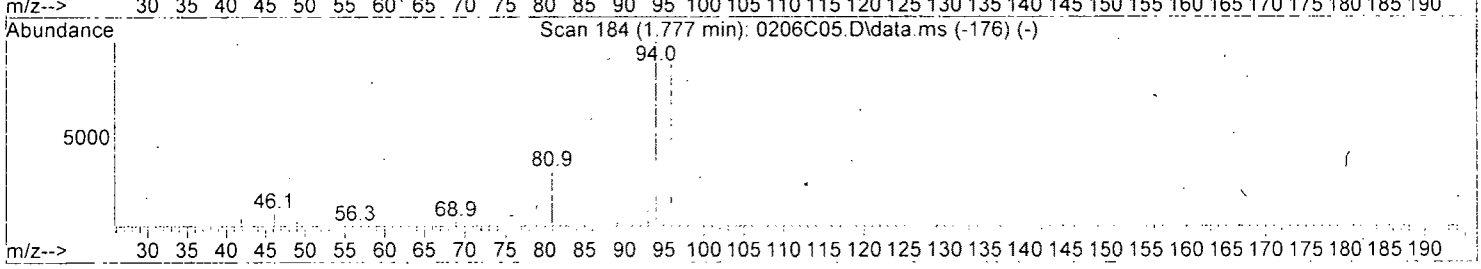
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204BS1.D
Acq On : 4 Feb 2014 16:45
Operator : PZ PZ1-AG5975
Sample : Batch-BS1
Misc : R-MegaMix w/Gases 2.5uL - 100mL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 05 07:41:31 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0204BS1.D\data.ms

(5) BROMOMETHANE (TMCP)

1.783min (+0.008) 6.10 ug/L m

response 42152

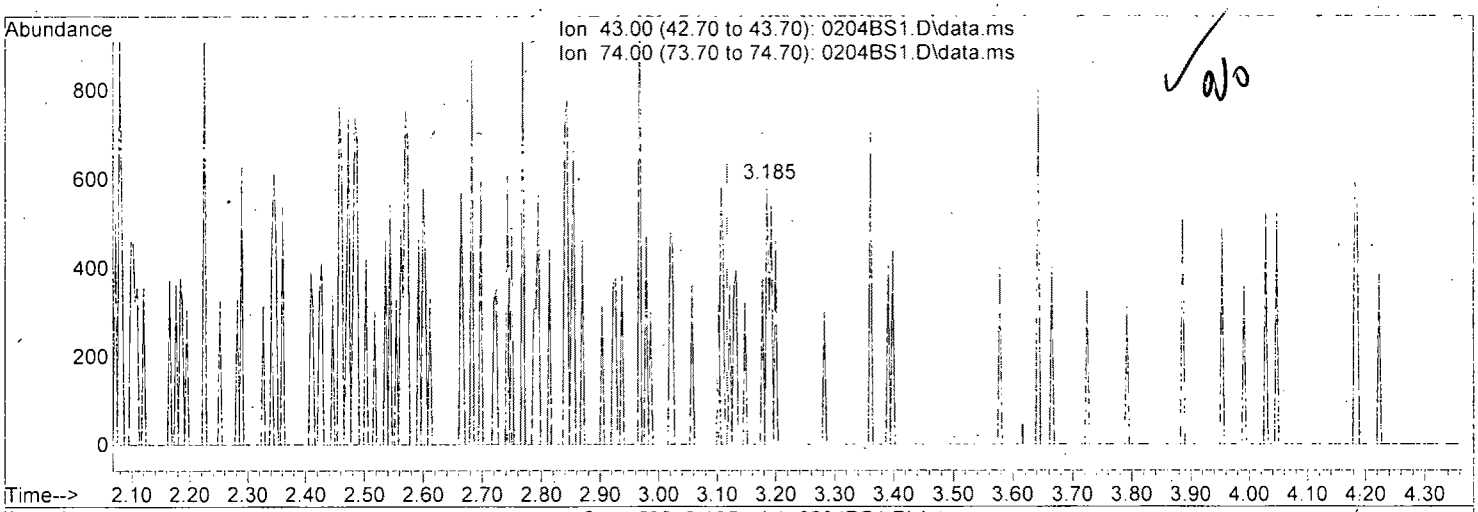
Ion	Exp%	Act%
94.00	100	100
96.00	93.10	88.34
0.00	0.00	0.00
0.00	0.00	0.00

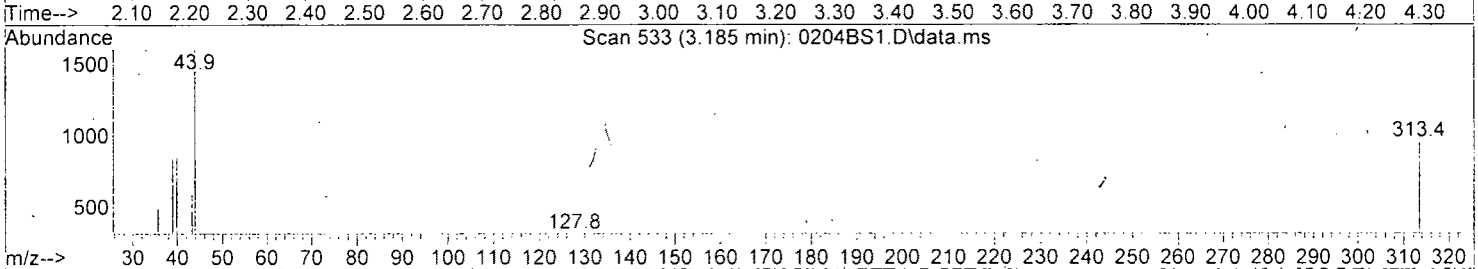
Freedom_0005792_0161

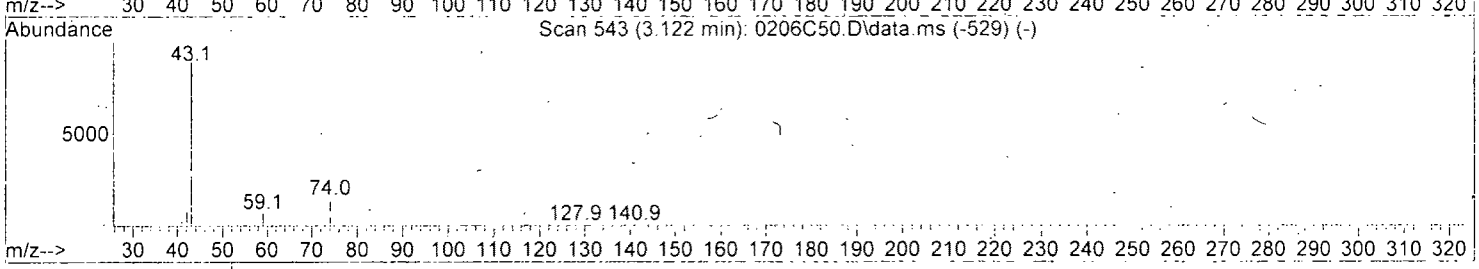
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204BS1.D
Acq On : 4 Feb 2014 16:45
Operator : PZ PZ1-AG5975
Sample : Batch-BS1
Misc : R-MegaMix w/Gases 2.5uL - 100mL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 05 07:41:31 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0204BS1.D\data.ms

(13) METHYL ACETATE (TMCP)

3.185min (+0.067) 0.08 ug/L

response 512

Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0162

Quantitation Report (Not Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204RIN4.D
Acq On : 4 Feb 2014 19:07
Operator : PZ PZ1-AG5975
Sample : Blank
Misc :
ALS Vial : 20 Sample Multiplier: 1

Rinse blanks - for reference only

Quant Time: Feb 05 07:53:19 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.525	114	207050	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	200775	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.807	152	111948	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.501	65	98600	4.81	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	=	96.20%	
41) TOLUENE-d8	8.616	98	242535	4.53	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	=	90.60%	
59) 4-BROMOFLUOROBENZENE	11.649	95	97642	4.31	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	=	86.20%	
Target Compounds						Qvalue
3) CHLOROMETHANE	1.475	50	2252	0.20	ug/L	90
4) VINYL CHLORIDE	1.554	62	1379	0.10	ug/L #	43
5) BROMOMETHANE	2.735	94	1138	0.12	ug/L	96
8) ACETONE	2.465	43	2407	0.47	ug/L #	47
9) 1,1-DICHLOROETHENE	2.840	96	2349	0.21	ug/L #	1
10) METHYLENE CHLORIDE	2.975	84	878	0.05	ug/L #	5
13) METHYL ACETATE	2.907	43	847	0.09	ug/L #	59
34) METHYLCYCLOHEXANE	7.492	83	4444	0.16	ug/L #	54
42) TOLUENE	8.699	92	4895	0.12	ug/L	80
52) M-XYLENE/P-XYLENE	10.903	106	8440	0.28	ug/L #	5
72) N-BUTYLBENZENE	13.239	91	154186	2.04	ug/L #	45
73) 1,2-DIBROMO-3-CHLOROPR...	13.456	75	2109	0.79	ug/L #	1

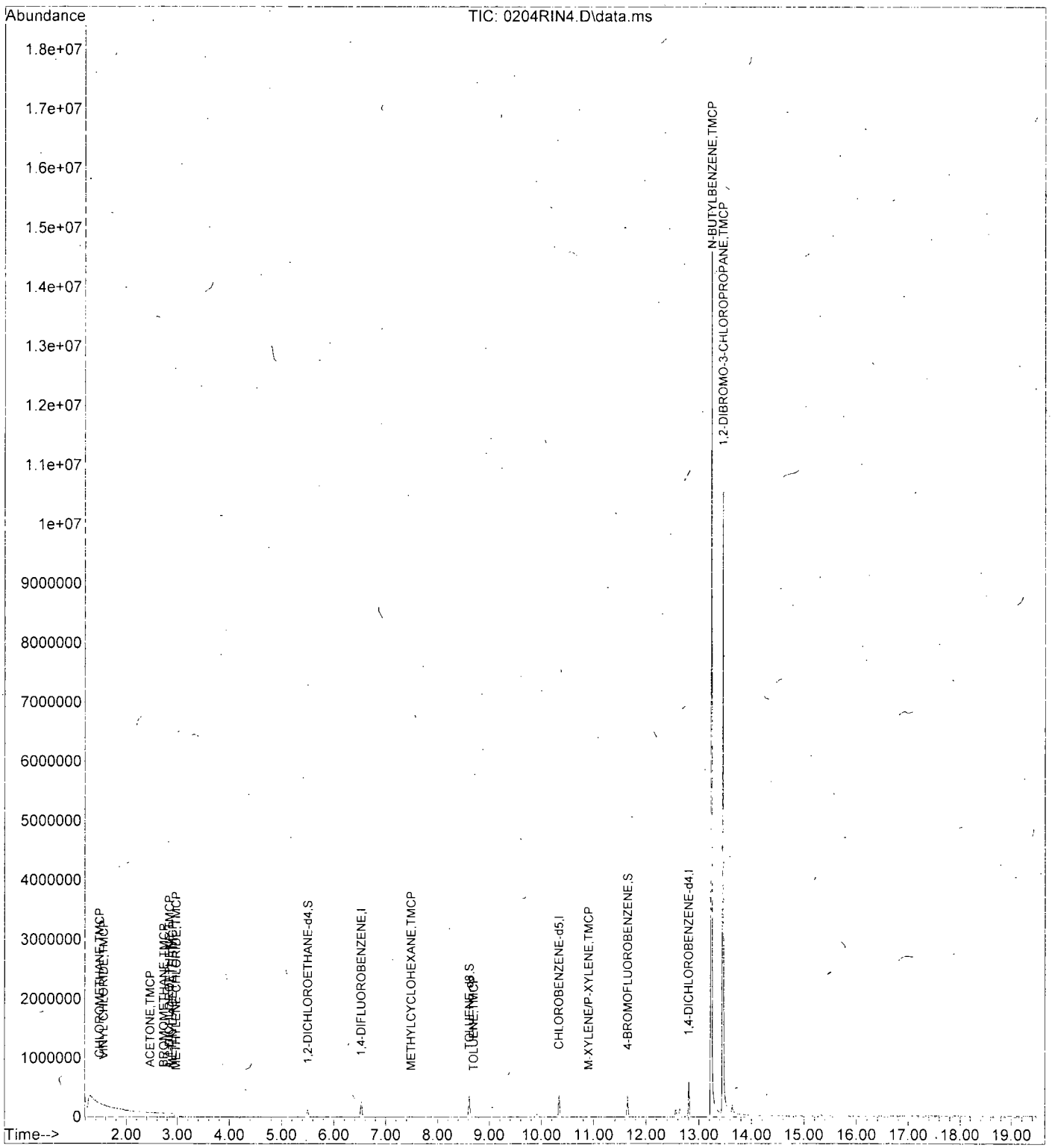
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0163

Quantitation Report (Not Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204RIN4.D
Acq On : 4 Feb 2014 19:07
Operator : PZ PZ1-AG5975
Sample : Blank
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 05 07:53:19 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration



Freedom_0005792_0164

Quantitation Report (Not Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204RIN5.D
Acq On : 4 Feb 2014 20:03
Operator : PZ PZ1-AG5975
Sample : Blank
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 05 07:53:33 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.532	114	176338	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	167641	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	79772	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.498	65	84785	4.85	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery = 97.00%			
41) TOLUENE-d8	8.617	98	205617	4.60	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery = 92.00%			
59) 4-BROMOFLUOROBENZENE	11.646	95	81001	5.02	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery = 100.40%			
Target Compounds						Qvalue
3) CHLOROMETHANE	1.573	50	1213	0.12	ug/L #	43
8) ACETONE	2.488	43	1308	0.30	ug/L #	47

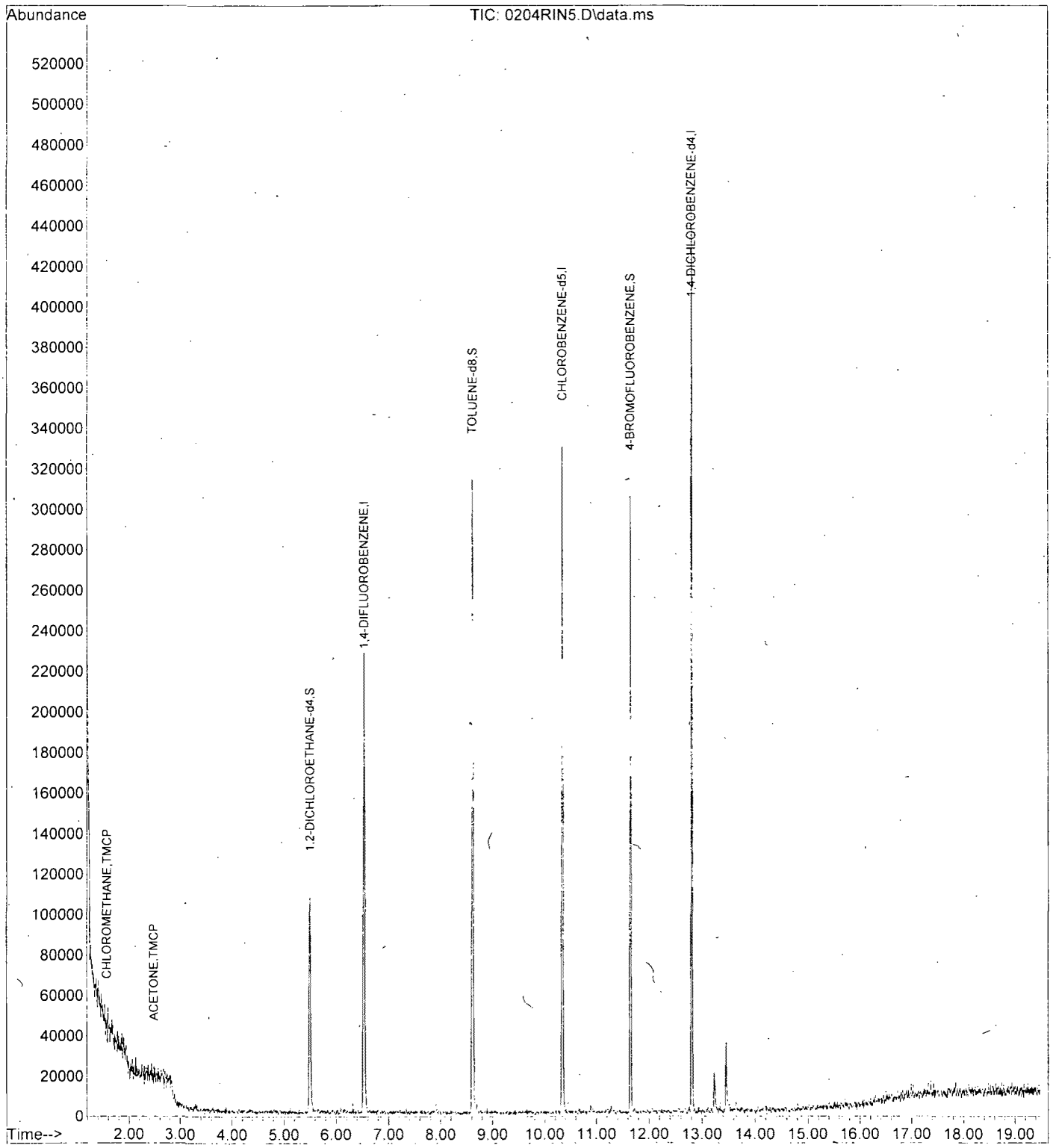
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0165

Quantitation Report (Not Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204RIN5.D
Acq On : 4 Feb 2014 20:03
Operator : PZ PZ1-AG5975
Sample : Blank
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 05 07:53:33 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration



Freedom_0005792_0166

Quantitation Report (QT Reviewed)

no TIG

Data Path : D:\DATA\L02122014\
Data File : 0212BLK.D
Acq On : 12 Feb 2014 14:35
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc : BB41203- BLK1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 12 15:10:45 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.525	114	130546	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	124192	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.811	152	59090	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.494	65	89621	5.46	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	=	109.20%	
41) TOLUENE-d8	8.617	98	166247	4.78	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	=	95.60%	
59) 4-BROMOFLUOROBENZENE	11.645	95	61347	5.08	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	=	101.60%	
Target Compounds						Qvalue
8) ACETONE	2.488	43	2091m	0.43	ug/L	

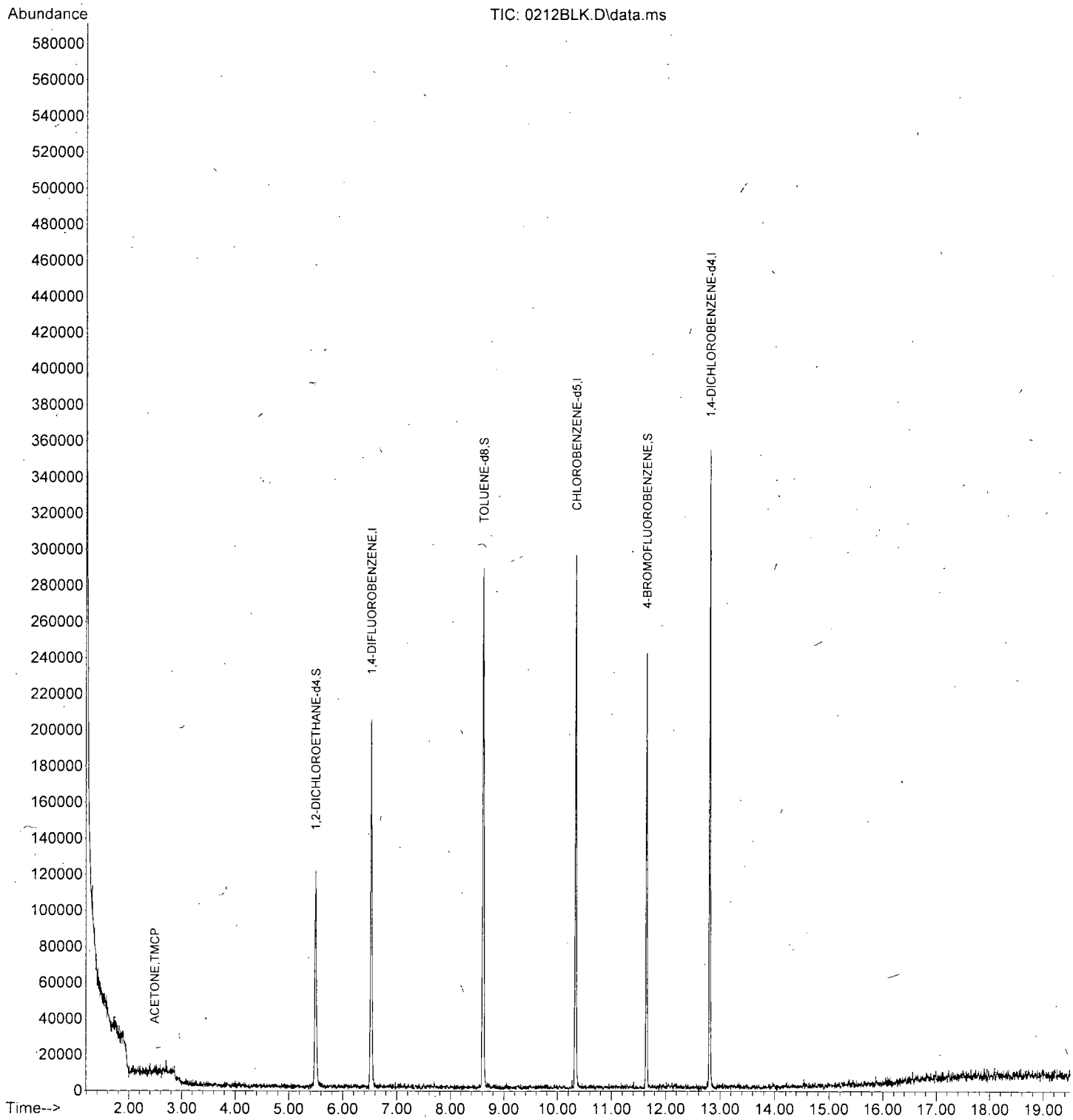
(#) = qualifier out of range (m) = manual integration (+) = signals summed

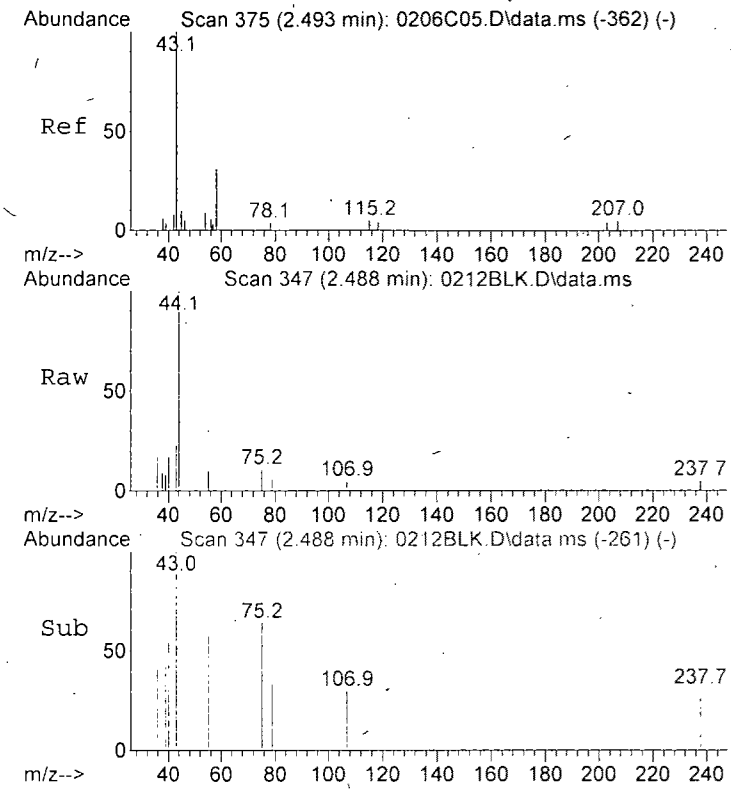
Freedom_0005792_0167

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212BLK.D
Acq On : 12 Feb 2014 14:35
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 12 15:10:45 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration

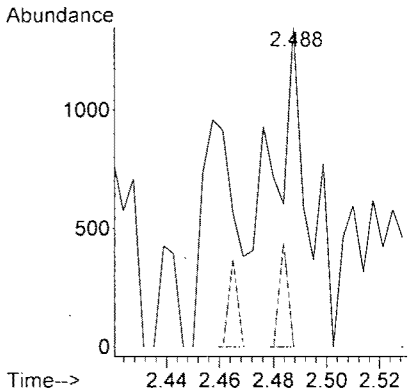




#8
ACETONE
Concen: 0.43 ug/L m
RT: 2.488 min Scan# 347
Delta R.T. 0.023 min
Lab File: 0212BLK.D
Acq: 12 Feb 2014 14:35

Tgt Ion: 43 Resp: 2091

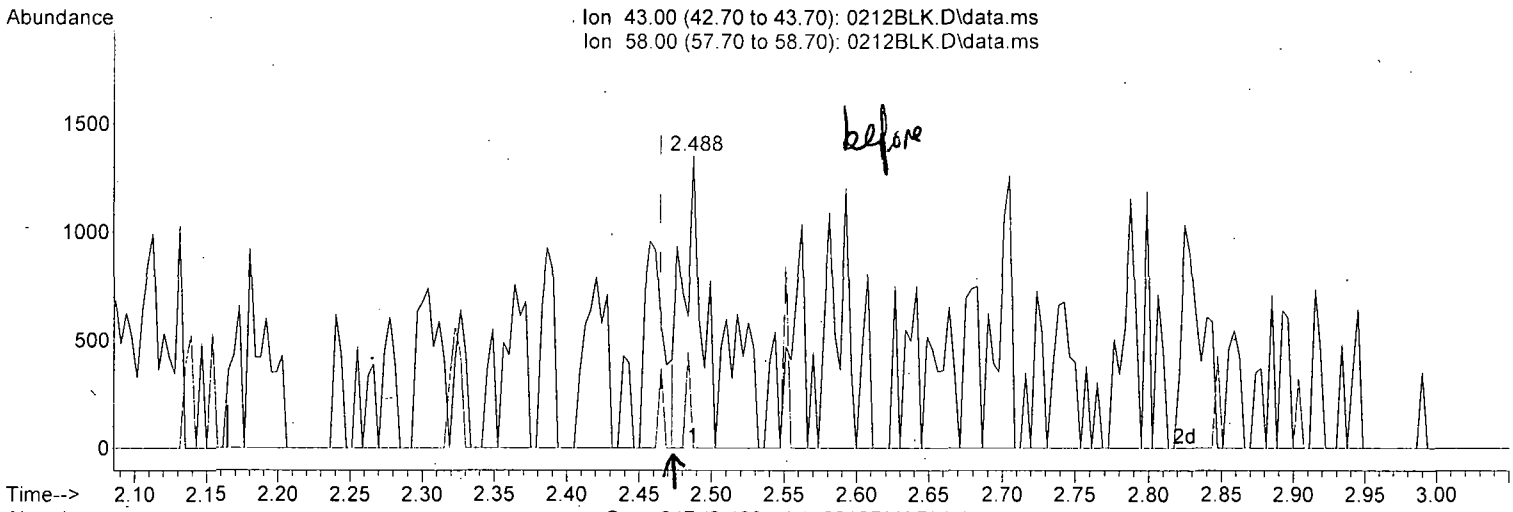
Ion	Ratio	Lower	Upper
43	100		
58	0.0	22.5	33.7#

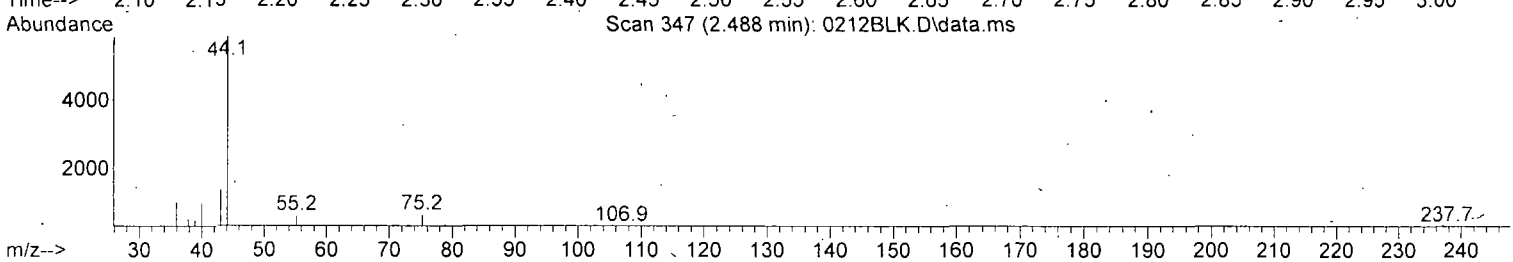


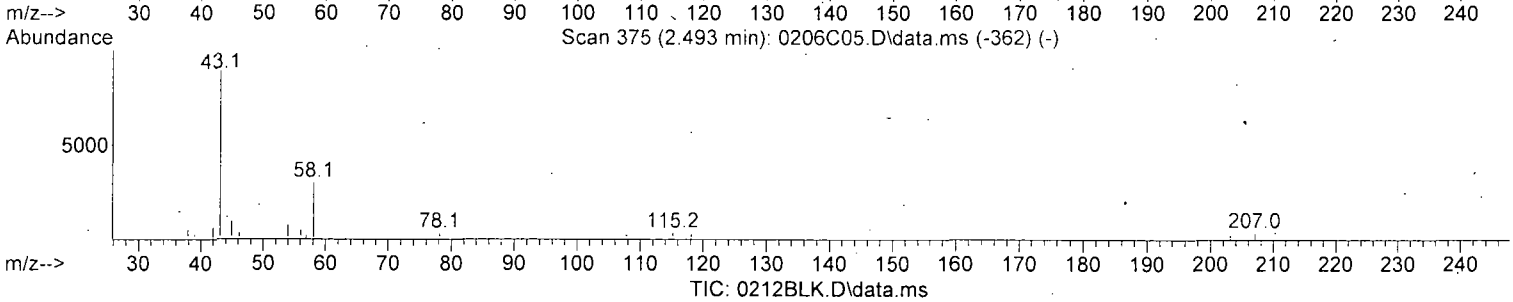
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212BLK.D
Acq On : 12 Feb 2014 14:35
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 12 15:09:57 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







(8) ACETONE (TMCP)

2.488min (+0.023) 0.25 ug/L

response 1201

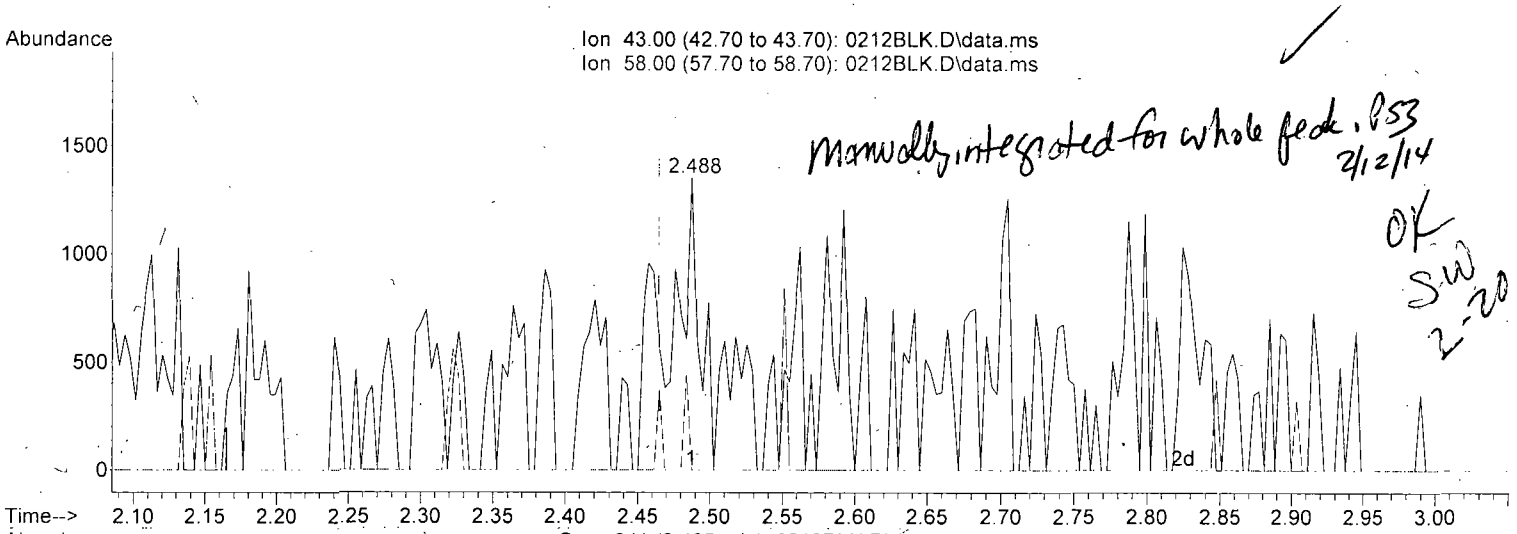
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0170

Quantitation Report (Qedit)

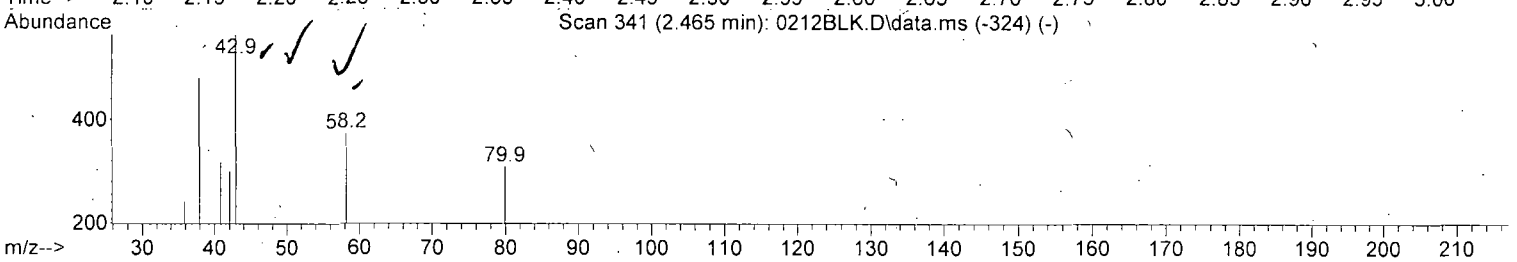
Data Path : D:\DATA\L02122014\
Data File : 0212BLK.D
Acq On : 12 Feb 2014 14:35
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 13 Sample Multiplier: 1

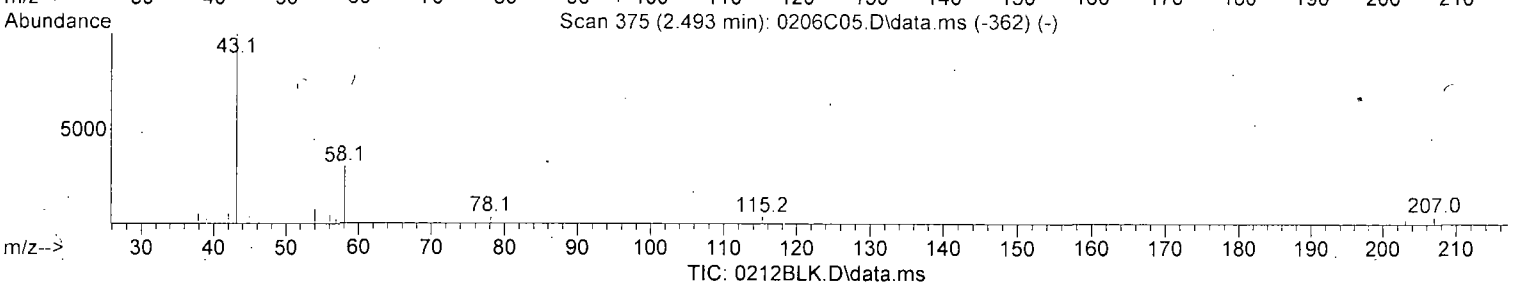
Quant Time: Feb 12 15:09:57 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration



Manually integrated for whole peak. PS3 2/12/14

OK SW 2-20-14





(8) ACETONE (TMCP)

2.488min (+0.023) 0.43 ug/L m

response 2091

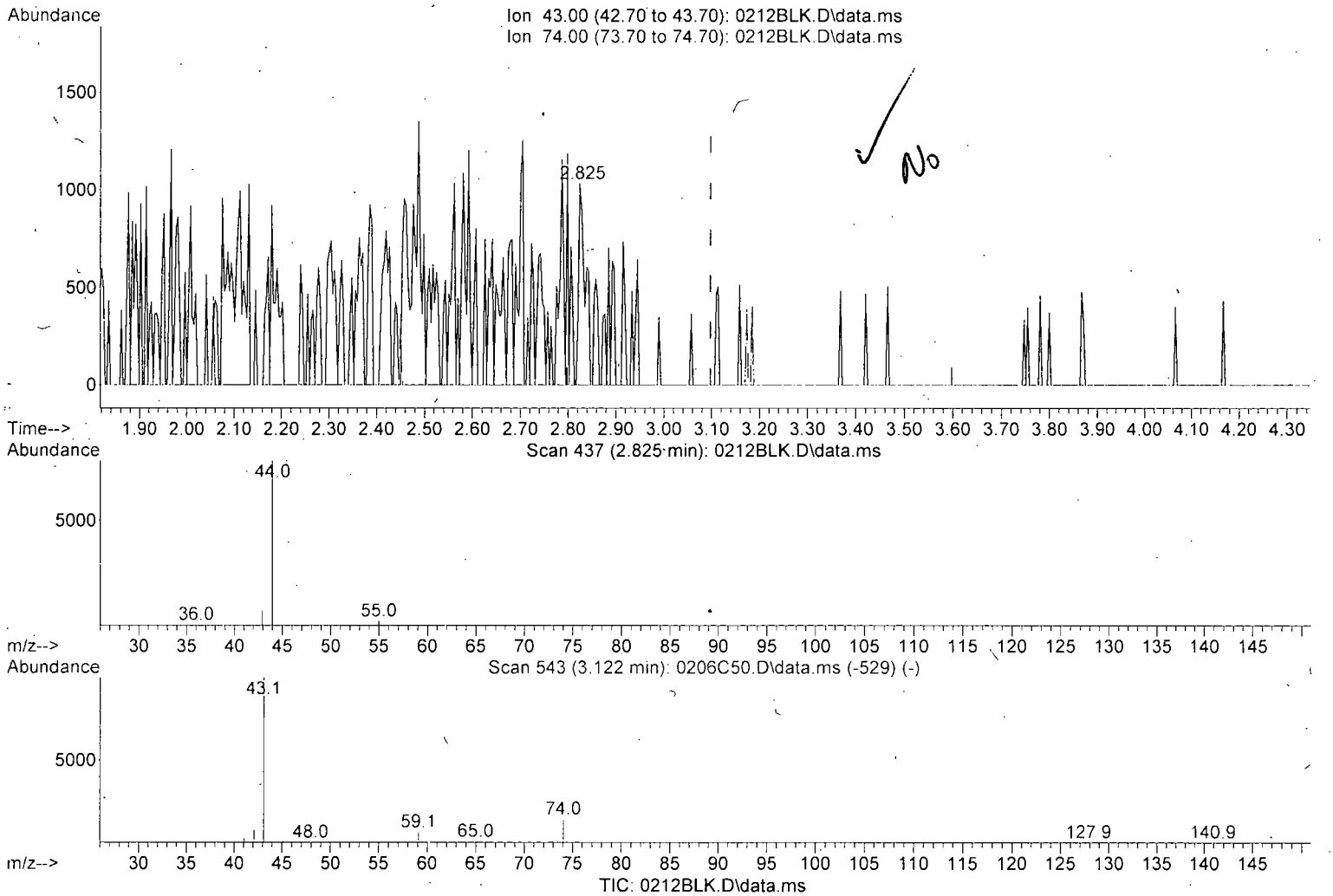
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0171

Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212BLK.D
Acq On : 12 Feb 2014 14:35
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 12 15:09:57 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration



(13) METHYL ACETATE (TMCP)

2.825min (-0.274) 0.09 ug/L

response 1011

Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0172

LSC Area Percent Report

Data Path : D:\DATA\L02122014\
Data File : 0212BLK.D
Acq On : 12 Feb 2014 14:35
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: NOISY.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L02122014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 0212BLK.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.498	1137	1150	1166	rBV2	119599	229700	46.52%	9.483%
2	6.525	1413	1424	1441	rBV3	205531	381450	77.25%	15.748%
3	8.617	1969	1982	1995	rBV	288224	493793	100.00%	20.386%
4	10.270	2419	2423	2431	rVV	5364	5066	1.03%	0.209%
5	10.337	2431	2441	2451	rVV2	295309	462030	93.57%	19.075%
6	11.645	2782	2790	2800	rBV2	241539	313979	63.59%	12.963%
7	12.808	3092	3100	3112	rBV	353895	445202	90.16%	18.380%
8	15.372	3779	3784	3789	rBV2	4751	5068	1.03%	0.209%
9	15.724	3873	3878	3885	rBV3	3484	5524	1.12%	0.228%
10	15.866	3909	3916	3920	rBV3	6307	6947	1.41%	0.287%
11	16.331	4039	4040	4047	rBV3	4676	5716	1.16%	0.236%
12	16.560	4097	4101	4107	rVB4	7958	8249	1.67%	0.341%
13	16.650	4124	4125	4133	rVB4	5164	5433	1.10%	0.224%
14	16.991	4209	4216	4219	rBV4	6828	8018	1.62%	0.331%
15	17.276	4287	4292	4295	rVB4	5841	5519	1.12%	0.228%
16	17.583	4371	4374	4377	rBV3	4904	5002	1.01%	0.207%
17	17.947	4467	4471	4473	rVB3	8142	4958	1.00%	0.205%
18	18.131	4515	4520	4524	rBV5	5498	6953	1.41%	0.287%
19	18.258	4549	4554	4558	rBV4	5818	6012	1.22%	0.248%
20	18.356	4577	4580	4585	rVB4	6601	6082	1.23%	0.251%
21	18.978	4743	4746	4752	rVB4	5827	6547	1.33%	0.270%
22	19.008	4752	4754	4758	rBV3	5515	4956	1.00%	0.205%

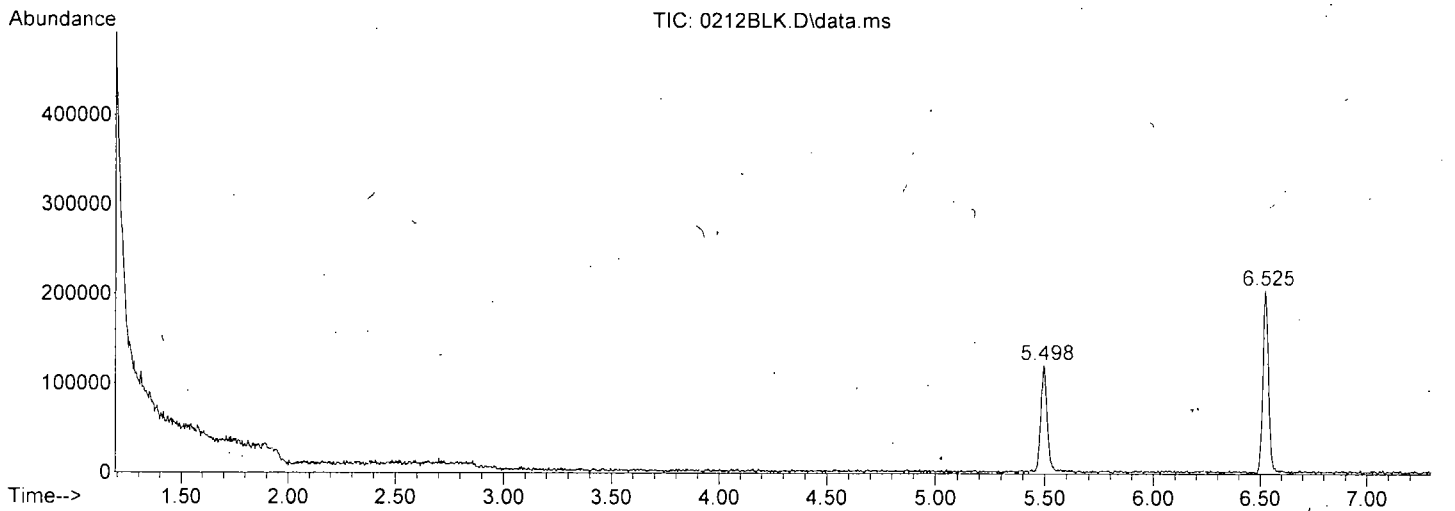
Sum of corrected areas: 2422204

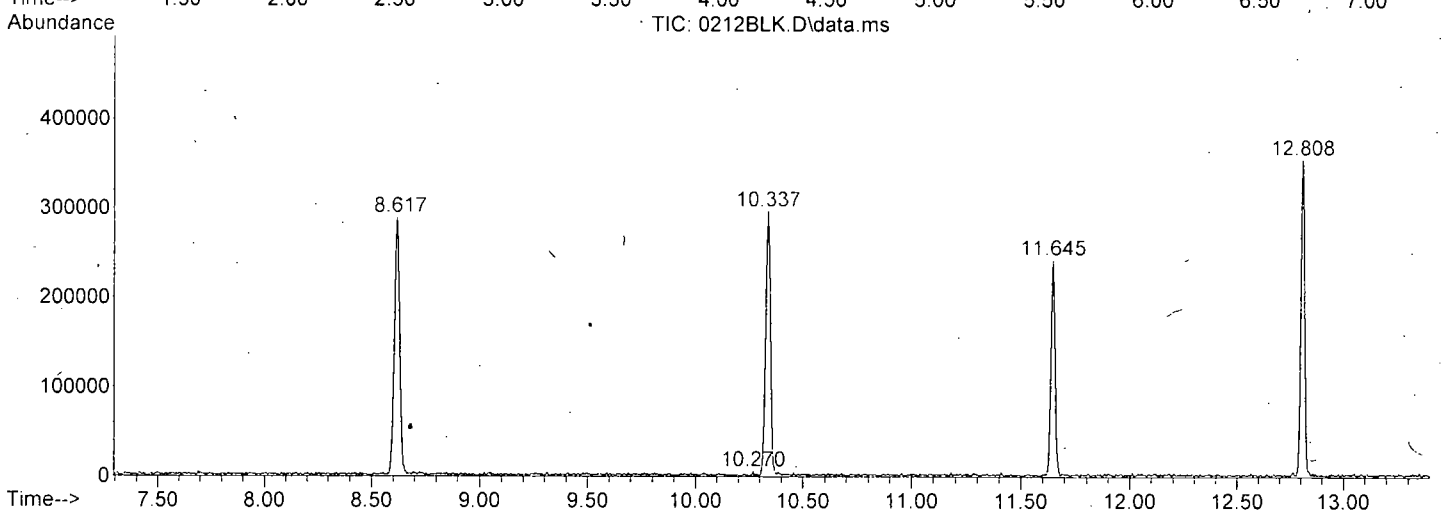
Freedom_0005792_0173

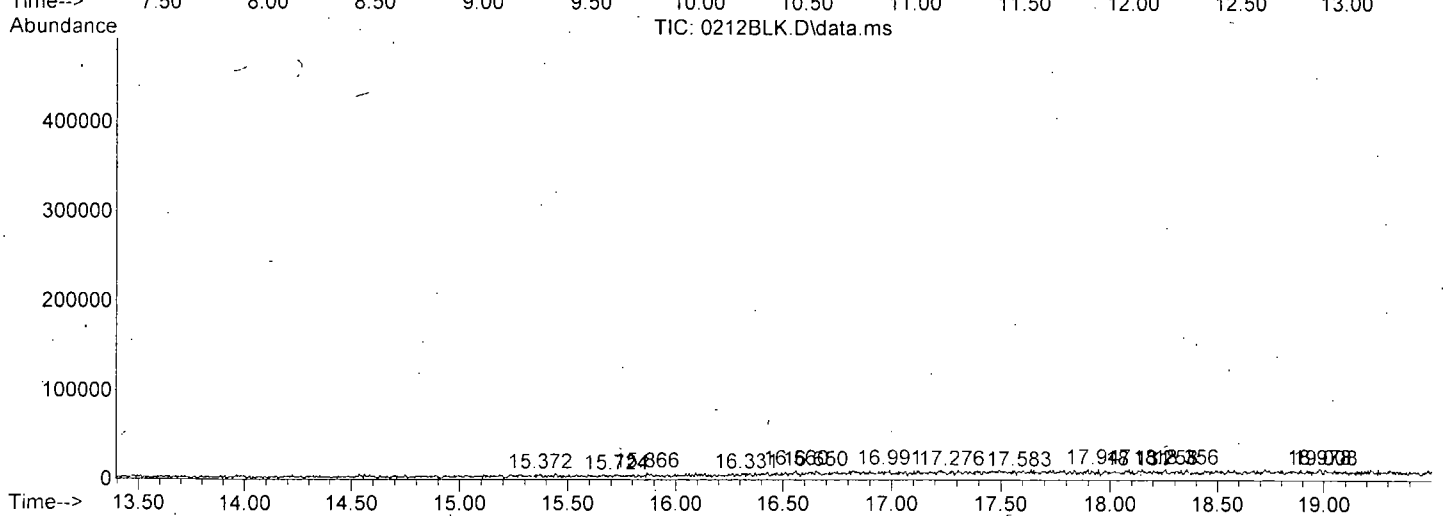
Data Path : D:\DATA\L02122014\
Data File : 0212BLK.D
Acq On : 12 Feb 2014 14:35
Operator : PZ PZ1-AG5975
Sample : Batch-BLK1
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L02122014\\
Data File : 0212BLK.D
Acq On : 12 Feb 2014 14:355
Operator : PZ PZ1-AG59755
Sample : Batch-BLK11
Misc :
ALS Vial : 13 Sample Multiplier: 11

Quant Method : D:\METHODS\L02122014.MM
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Methodd

TIC Library : C:\Database\NIST05a.LL
TIC Integration Parameters: LSCINT.PP

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

No Library Search Compounds Detected
****

Freedom_0005792_0175

Quantitation Report (QT Reviewed)

No TIC

Data Path : D:\DATA\L02122014\
Data File : 0212BLK2.D
Acq On : 12 Feb 2014 15:03
Operator : PZ PZ1-AG5975
Sample : VOA Storage Blank B641303-BLK2
Misc : prep'd 1-30-2014 rm G206
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 12 15:27:34 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-DIFLUOROBENZENE	6.521	114	124044	5.00 ug/L	0.00
37) CHLOROBENZENE-d5	10.341	117	120145	5.00 ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.807	152	54334	5.00 ug/L	0.00
System Monitoring Compounds					
23) 1,2-DICHLOROETHANE-d4	5.494	65	89609	5.75 ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 115.00%#	A
41) TOLUENE-d8	8.620	98	156764	4.66 ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 93.20%	
59) 4-BROMOFLUOROBENZENE	11.645	95	58970	5.31 ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 106.20%	

Target Compounds None detected Qvalue

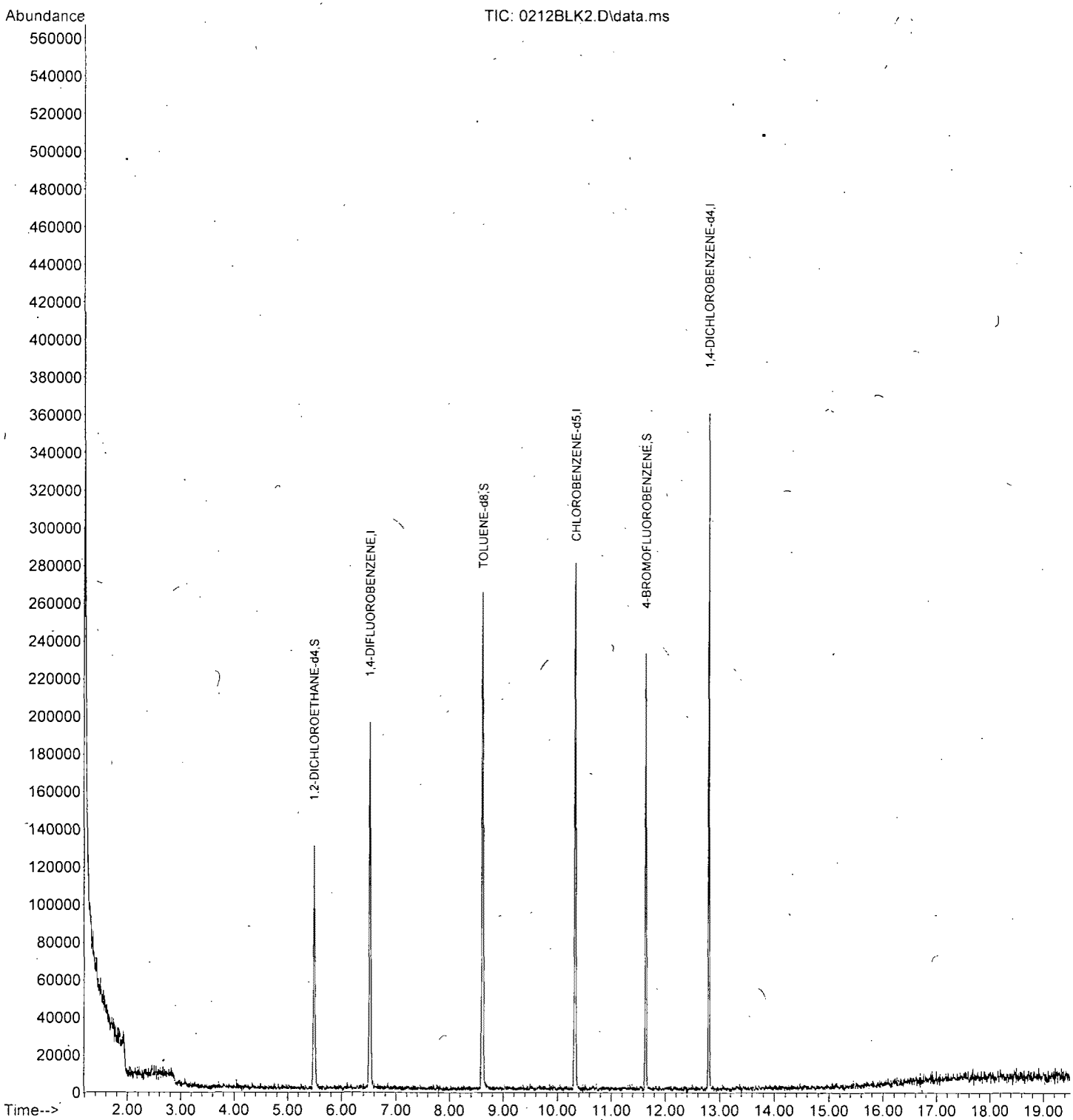
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0176

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212BLK2.D
Acq On : 12 Feb 2014 15:03
Operator : PZ PZ1-AG5975
Sample : VOA Storage Blank
Misc : prep'd 1-30-2014 rm G206
ALS Vial : 14 Sample Multiplier: 1

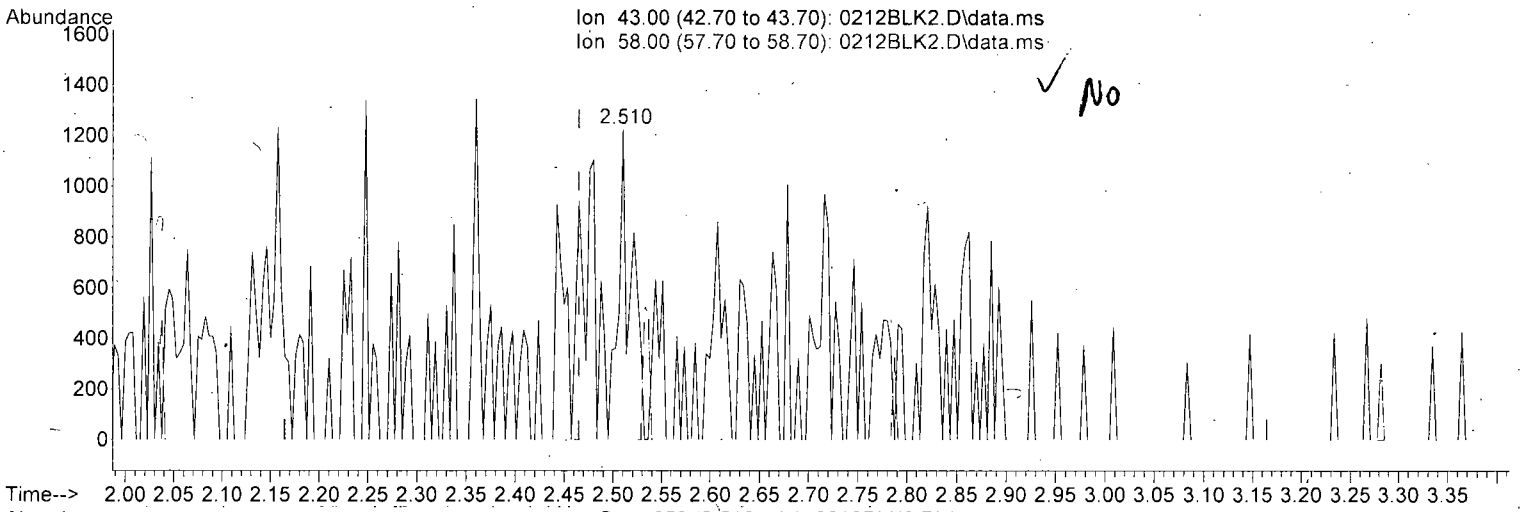
Quant Time: Feb 12 15:27:34 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration

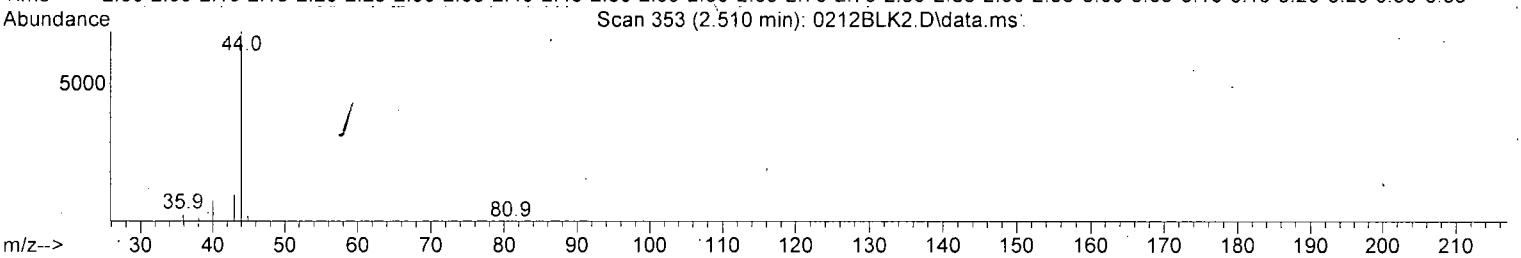


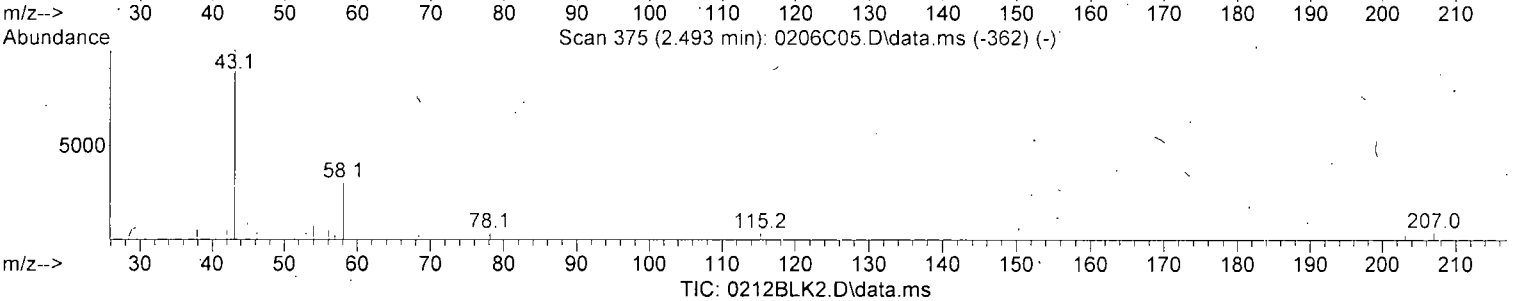
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212BLK2.D
Acq On : 12 Feb 2014 15:03
Operator : PZ PZ1-AG5975
Sample : VOA Storage Blank
Misc : prep'd 1-30-2014 rm G206
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 12 15:26:51 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







(8) ACETONE (TMCP)

2.510min (+0.045) 0.25 ug/L

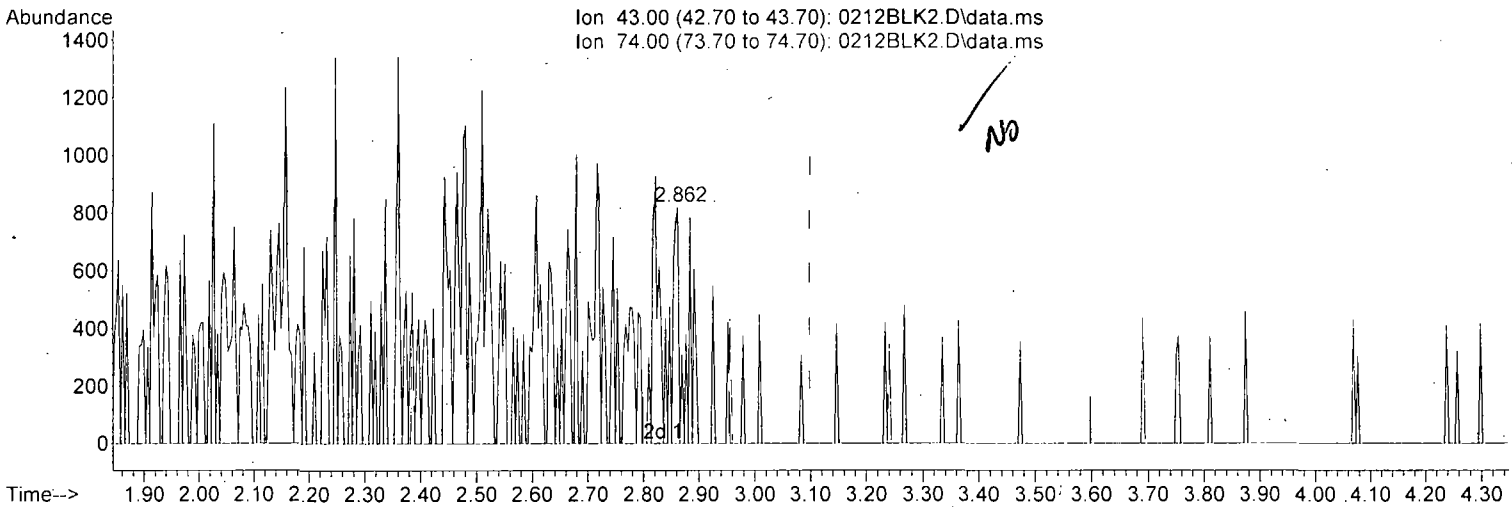
response 1156

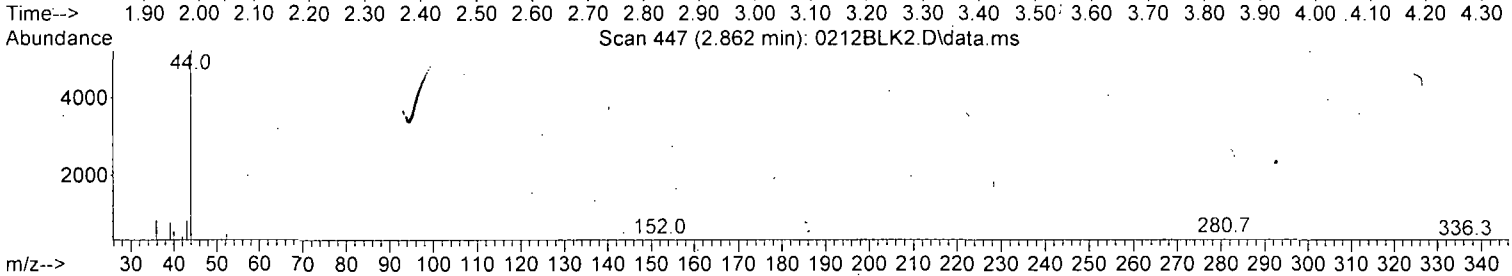
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

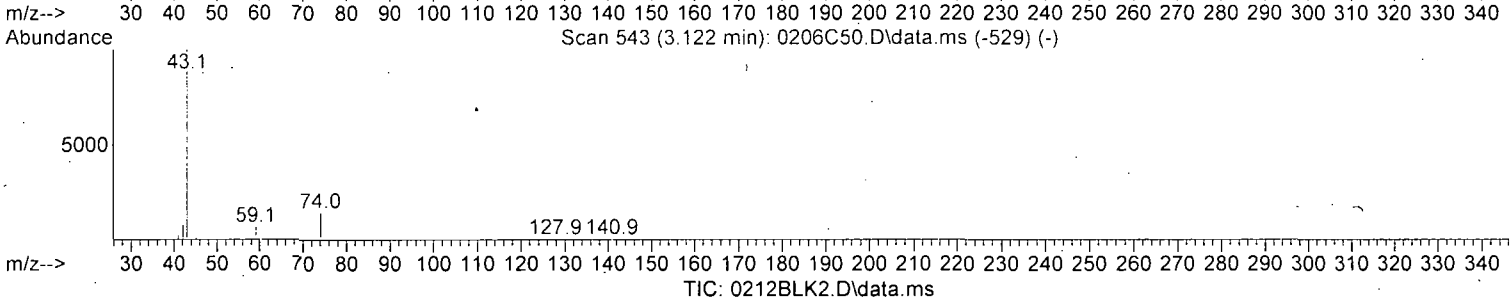
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212BLK2.D
Acq On : 12 Feb 2014 15:03
Operator : PZ PZ1-AG5975
Sample : VOA Storage Blank
Misc : prep'd 1-30-2014 rm G206
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 12 15:26:51 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







(13) METHYL ACETATE (TMCP)

2.862min (-0.236) 0.07 ug/L

response 676

Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

LSC Area Percent Report

Data Path : D:\DATA\L02122014\
Data File : 0212BLK2.D
Acq On : 12 Feb 2014 15:03
Operator : PZ PZ1-AG5975
Sample : VOA Storage Blank
Misc : prep'd 1-30-2014 rm G206
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: NOISY.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L02122014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 0212BLK2.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.820	167	169	172	rBV	8841	4915	1.05%	0.207%
2	2.045	225	229	231	rBV3	6076	4903	1.04%	0.207%
3	2.330	303	305	310	rBV2	6271	6221	1.33%	0.262%
4	2.472	339	343	348	rBV5	7048	7223	1.54%	0.305%
5	2.596	375	376	380	rBV2	6100	5225	1.11%	0.220%
6	5.494	1137	1149	1164	rBV2	130333	233983	49.86%	9.872%
7	6.521	1412	1423	1436	rBV3	194490	358471	76.38%	15.124%
8	8.616	1970	1982	1995	rBV2	263810	469321	100.00%	19.800%
9	10.337	2429	2441	2452	rBV2	280307	455643	97.09%	19.223%
10	11.645	2777	2790	2800	rBV	232707	298960	63.70%	12.613%
11	12.807	3091	3100	3111	rBV	359662	424628	90.48%	17.915%
12	16.567	4097	4103	4108	rVB4	4642	6360	1.36%	0.268%
13	16.698	4135	4138	4141	rBV	7723	5521	1.18%	0.233%
14	17.077	4236	4239	4244	rBV3	6263	6311	1.34%	0.266%
15	17.684	4399	4401	4405	rVB3	9788	6844	1.46%	0.289%
16	17.711	4405	4408	4410	rBV3	6984	5212	1.11%	0.220%
17	17.846	4441	4444	4449	rVB5	6522	5702	1.21%	0.241%
18	17.980	4474	4480	4482	rBV3	4910	5925	1.26%	0.250%
19	18.003	4482	4486	4491	rVB5	6001	8518	1.81%	0.359%
20	18.205	4533	4540	4542	rBV4	7236	7548	1.61%	0.318%
21	18.337	4574	4575	4583	rBV3	5592	7161	1.53%	0.302%
22	18.430	4598	4600	4604	rVB4	6512	5674	1.21%	0.239%
23	18.655	4657	4660	4664	rVB3	7363	5649	1.20%	0.238%
24	18.681	4664	4667	4671	rBV3	4188	5225	1.11%	0.220%
25	18.738	4677	4682	4687	rBV4	6447	7457	1.59%	0.315%
26	18.764	4687	4689	4696	rVB4	5507	5724	1.22%	0.241%
27	19.225	4810	4812	4816	rBV3	8458	5943	1.27%	0.251%

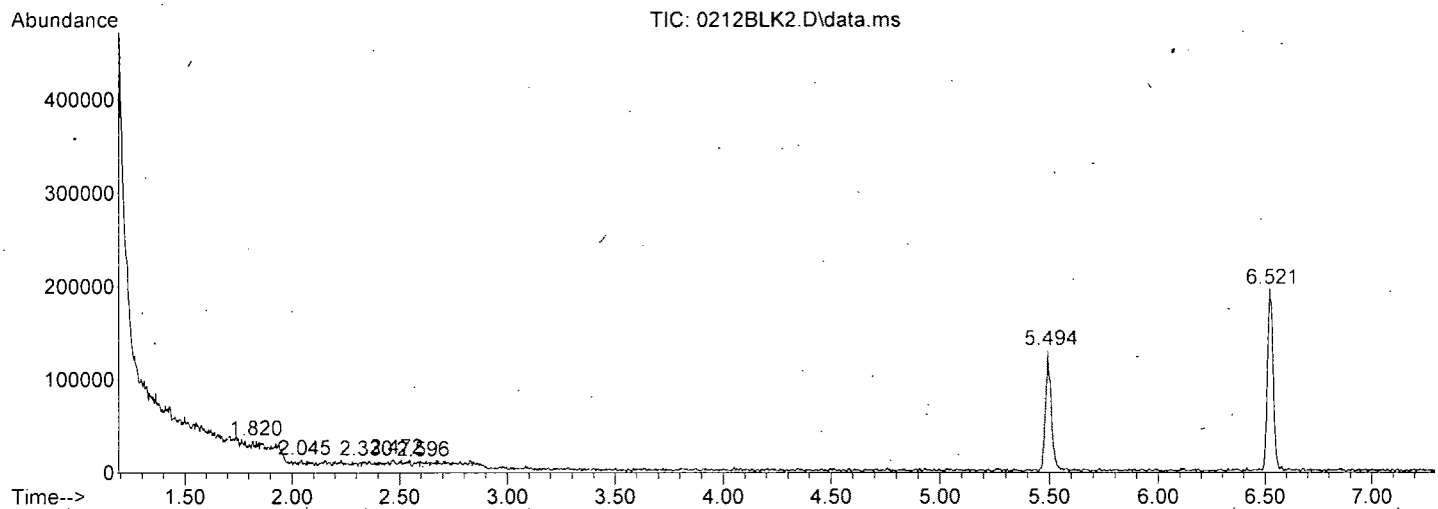
Sum of corrected areas: 2370267

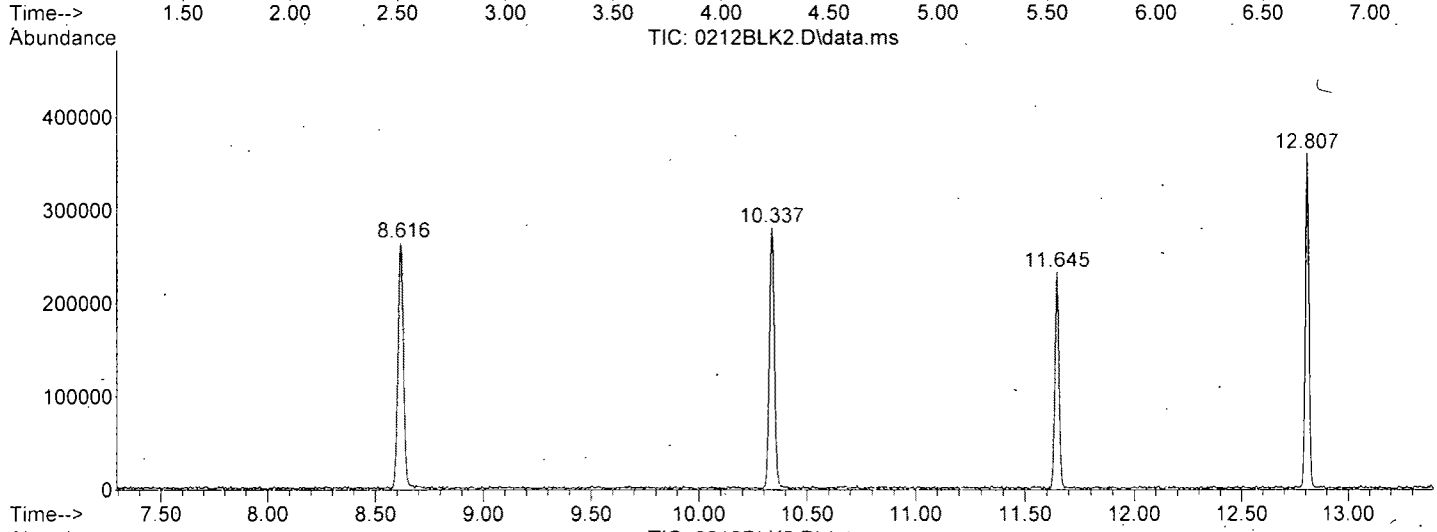
Freedom_0005792_0180

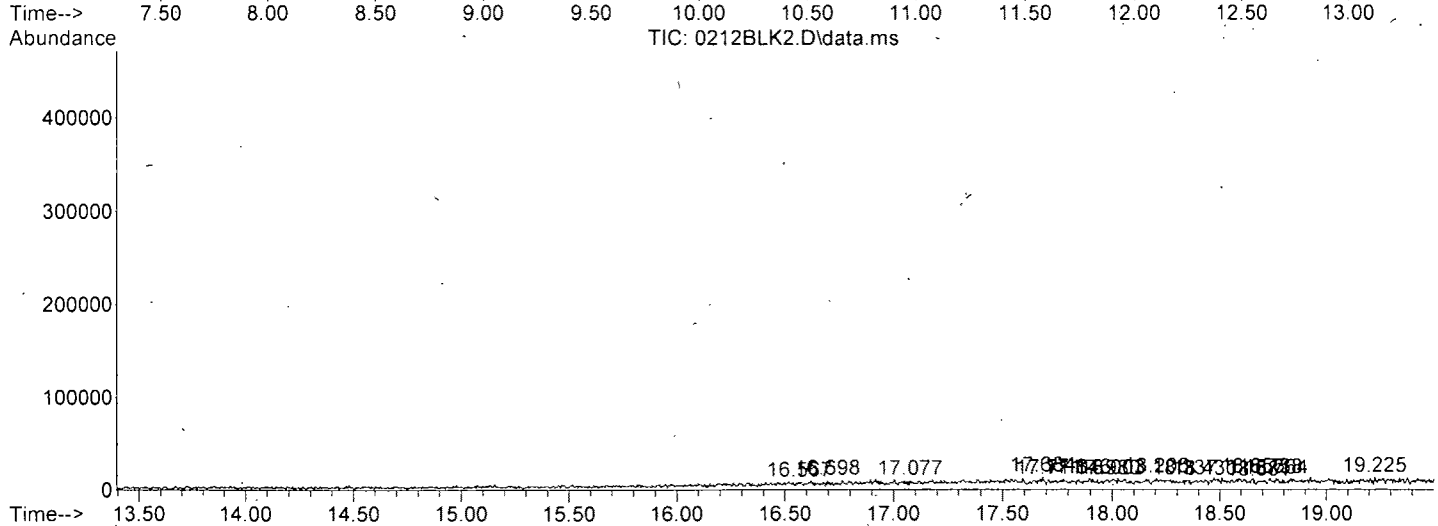
Data Path : D:\DATA\L02122014\
Data File : 0212BLK2.D
Acq On : 12 Feb 2014 15:03
Operator : PZ PZ1-AG5975
Sample : VOA Storage Blank
Misc : prep'd 1-30-2014 rm G206
ALS Vial : 14 Sample Multiplier: 1

Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L02122014\\
Data File : 0212BLK2.D
Acq On : 12 Feb 2014 15:033
Operator : PZ PZ1-AG59755
Sample : VOA Storage Blankk
Misc : prep'd 1-30-2014 rm G2066
ALS Vial : 14 Sample Multiplier: 11

Quant Method : D:\METHODS\L02122014.MM
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Methodd

TIC Library : C:\Database\NIST05a.LL
TIC Integration Parameters: LSCINT.PP

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

No Library Search Compounds Detected
****

Freedom_0005792_0182

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212BS1.D
Acq On : 12 Feb 2014 13:40
Operator : PZ PZ1-AG5975
Sample : Batch-BS1 BB41203-BS1
Misc : R-MegaMix w/Gases 2.5uL - 100mL
ALS Vial : 11 Sample Multiplier: 1

1400086 TV = 5ppb ± 20%

Quant Time: Feb 12 14:01:36 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-DIFLUOROBENZENE	6.525	114	153629	5.00 ug/L	0.00
37) CHLOROBENZENE-d5	10.333	117	136818	5.00 ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.807	152	84118	5.00 ug/L	0.00
System Monitoring Compounds					
23) 1,2-DICHLOROETHANE-d4	5.498	65	92924	4.81 ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 96.20%	
41) TOLUENE-d8	8.620	98	177527	4.64 ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 92.80%	
59) 4-BROMOFLUOROBENZENE	11.645	95	83573	4.86 ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 97.20%	
Target Compounds					Qvalue
2) DICHLORODIFLUOROMETHANE	1.303	85	113775 155%	7.76 ug/L	97
3) CHLOROMETHANE	1.419	50	145965 129%	6.20 ug/L	99
4) VINYL CHLORIDE	1.528	62	89617 122%	6.12 ug/L	94
5) BROMOMETHANE	1.779	94	37308	5.77 ug/L	95
6) CHLOROETHANE	1.895	64	45363	5.39 ug/L	98
7) TRICHLOROFLUOROMETHANE	2.319	101	133700	5.48 ug/L	98
8) ACETONE	2.457	43	2526 J	0.44 ug/L #	47
9) 1,1-DICHLOROETHENE	2.799	96	46367 125%	6.13 ug/L #	35
10) METHYLENE CHLORIDE	2.975	84	66862	5.54 ug/L #	50
14) TRANS-1,2-DICHLOROETHENE	3.695	96	58284	5.54 ug/L #	67
16) 1,1-DICHLOROETHANE	3.964	63	146907	5.38 ug/L #	97
19) CIS-1,2-DICHLOROETHENE	4.613	96	60885	5.47 ug/L #	72
20) BROMOCHLOROMETHANE	4.774	128	30962	5.57 ug/L #	32
21) CHLOROFORM	4.857	83	123272	5.25 ug/L	99
22) 2,2-DICHLOROPROPANE	4.920	77	83186	5.16 ug/L	98
24) 1,2-DICHLOROETHANE	5.588	62	134928	5.27 ug/L #	96
25) 1,1,1-TRICHLOROETHANE	5.678	97	99285	5.17 ug/L #	85
26) 1,1-DICHLOROPROPENE	5.917	75	81165	5.38 ug/L	93
28) CARBON TETRACHLORIDE	6.075	117	88940	5.04 ug/L	98
29) BENZENE	6.150	78	256585	5.60 ug/L	97
30) DIBROMOMETHANE	6.787	93	38666	5.10 ug/L #	78
31) 1,2-DICHLOROPROPANE	6.858	63	76345	5.30 ug/L	99
32) TRICHLOROETHENE	6.915	130	74693	5.80 ug/L	92
33) BROMODICHLOROMETHANE	6.963	83	93765	5.46 ug/L #	99
36) CIS-1,3-DICHLOROPROPENE	7.784	75	85698	5.18 ug/L	97
39) TRANS-1,3-DICHLOROPROPENE	8.332	75	74197	4.92 ug/L	98
40) 1,1,2-TRICHLOROETHANE	8.467	97	52735	5.31 ug/L	95
42) TOLUENE	8.699	92	146345	5.29 ug/L	97
43) 1,3-DICHLOROPROPANE	8.770	76	105981	5.26 ug/L	98
44) CHLORODIBROMOMETHANE	9.014	129	53565	5.05 ug/L	100
46) 1,2-DIBROMOETHANE (EDB)	9.295	107	52016	5.35 ug/L #	96
47) TETRACHLOROETHENE	9.554	164	50943	5.81 ug/L	96
48) 1,1,1,2-TETRACHLOROETHANE	10.288	131	52500	5.11 ug/L	99
49) CHLOROBENZENE	10.375	112	165181	5.49 ug/L	94
50) ETHYLBENZENE	10.656	91	284750	5.48 ug/L	94
51) BROMOFORM	10.873	173	32870	5.01 ug/L	95
52) M-XYLENE/P-XYLENE TV = 10ppb	10.888	106	222860	11.68 ug/L	89
53) STYRENE	11.211	104	160594	5.13 ug/L	92

Freedom_0005792_0183

Data Path : D:\DATA\L02122014\
Data File : 0212BS1.D
Acq On : 12 Feb 2014 13:40
Operator : PZ PZ1-AG5975
Sample : Batch-BS1
Misc : R-MegaMix w/Gases 2.5uL - 100mL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 12 14:01:36 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
54) O-XYLENE	11.274	106	116540	5.42 ug/L	91
55) ISOPROPYLBENZENE	11.649	105	300881	5.50 ug/L	96
57) 1,1,2,2-TETRACHLOROETHANE	11.259	83	43296	5.47 ug/L #	96
58) 1,2,3-TRICHLOROPROPANE	11.398	75	62920	5.51 ug/L	93
60) BROMOBENZENE	11.799	156	73121	5.69 ug/L #	73
61) N-PROPYLBENZENE	12.062	91	377238	5.53 ug/L	96
62) 2-CHLOROTOLUENE	12.103	91	244578	5.80 ug/L	89
63) 4-CHLOROTOLUENE	12.181	91	258789	5.74 ug/L	91
64) 1,3,5-TRIMETHYLBENZENE	12.361	105	253818	5.71 ug/L	93
65) TERT-BUTYLBENZENE	12.568	119	217837	5.86 ug/L	86
66) 1,2,4-TRIMETHYLBENZENE	12.684	105	272867	5.94 ug/L	95
67) SEC-BUTYLBENZENE	12.755	105	368191	5.85 ug/L	95
68) 1,3-DICHLOROBENZENE	12.766	146	157606	5.46 ug/L	95
69) 1,4-DICHLOROBENZENE	12.830	146	158709	5.36 ug/L	95
70) P-ISOPROPYLTOLUENE	12.935	119	291341	6.00 ug/L	96
71) 1,2-DICHLOROBENZENE	13.107	146	145081	5.56 ug/L	96
72) N-BUTYLBENZENE	13.265	91	304532	5.79 ug/L	97
73) 1,2-DIBROMO-3-CHLOROPR...	13.486	75	9449	4.61 ug/L #	66
74) 1,2,4-TRICHLOROBENZENE	14.554	180	98381	5.24 ug/L #	95
75) NAPHTHALENE	14.734	128	177153	5.22 ug/L	99
76) HEXACHLOROBUTADIENE	14.806	225	65806	5.82 ug/L #	84
77) 1,2,3-TRICHLOROBENZENE	14.877	180	103649	5.66 ug/L #	95

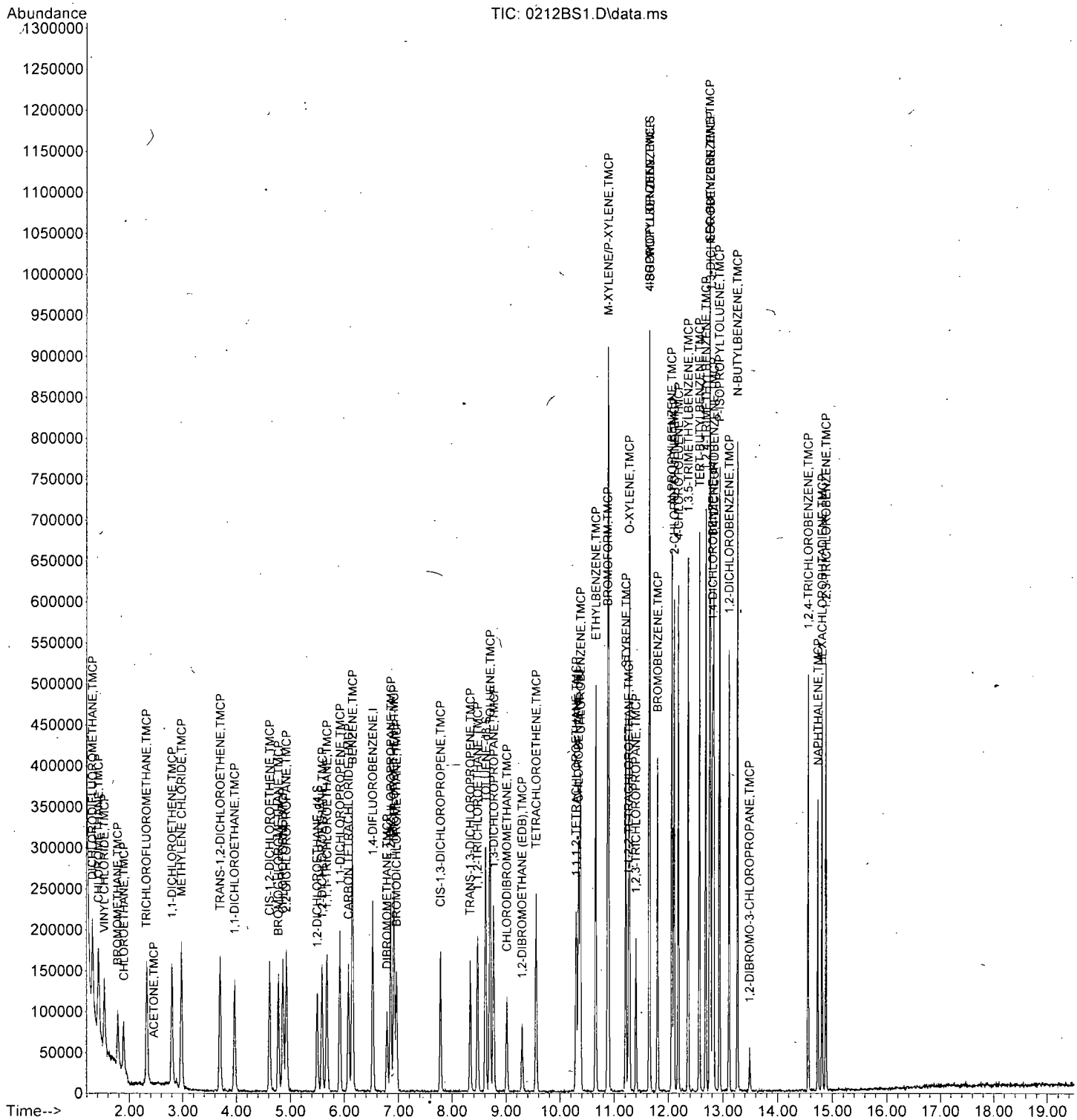
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0184

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212BS1.D
Acq On : 12 Feb 2014 13:40
Operator : PZ PZ1-AG5975
Sample : Batch-BS1
Misc : R-MegaMix w/Gases 2.5uL - 100mL
ALS Vial : 11 Sample Multiplier: 1

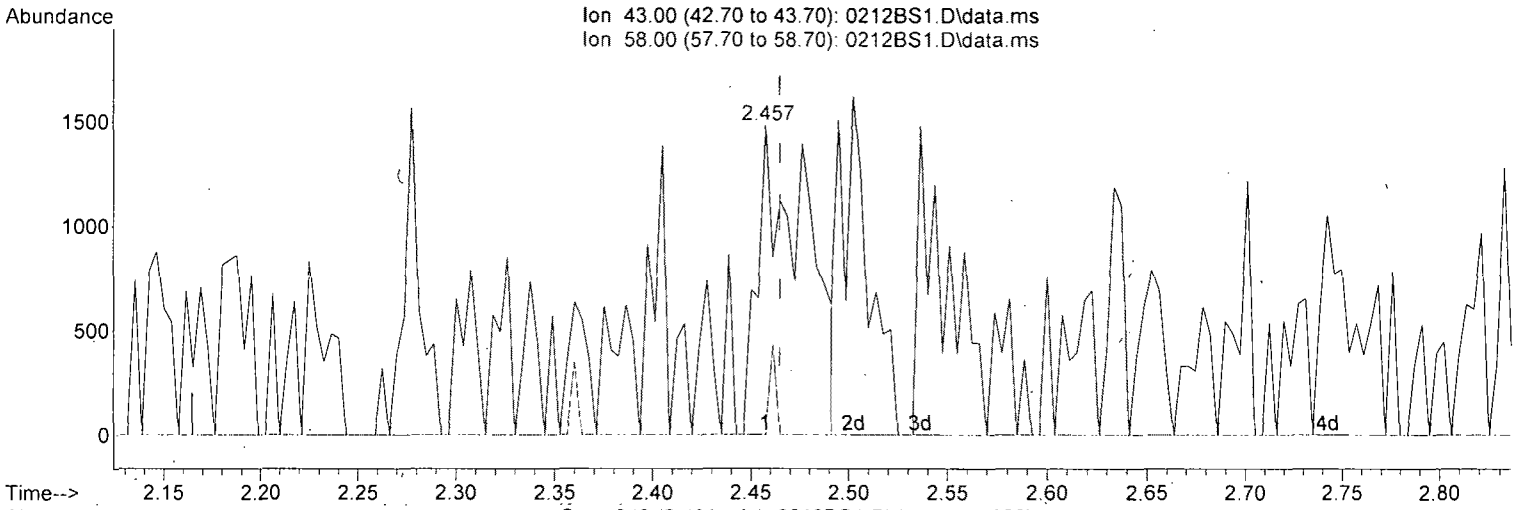
Quant Time: Feb 12 14:01:36 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration

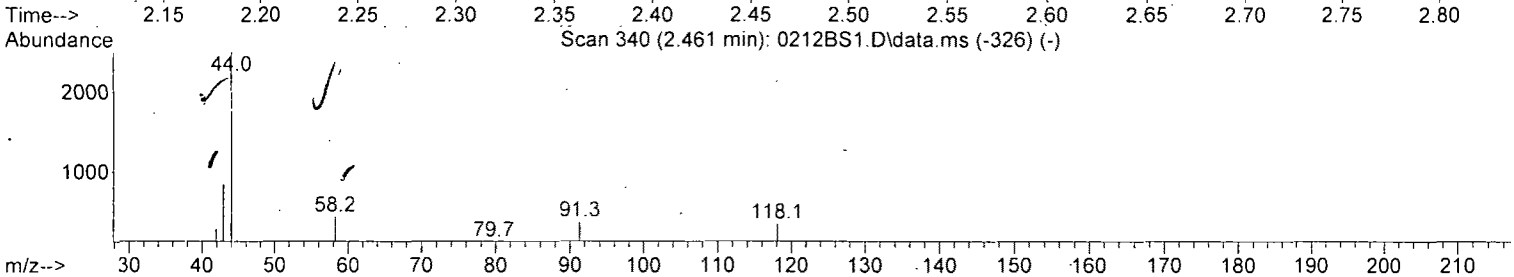


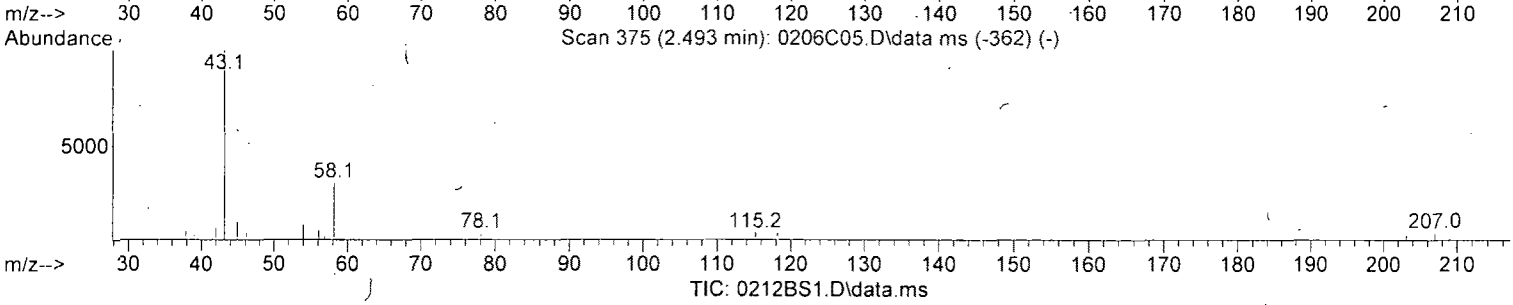
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212BS1.D
Acq On : 12 Feb 2014 13:40
Operator : PZ PZ1-AG5975
Sample : Batch-BS1
Misc : R-MegaMix w/Gases 2.5uL - 100mL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 12 14:01:36 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







(8) ACETONE (TMCP)

2.457min (-0.007) 0.44 ug/L

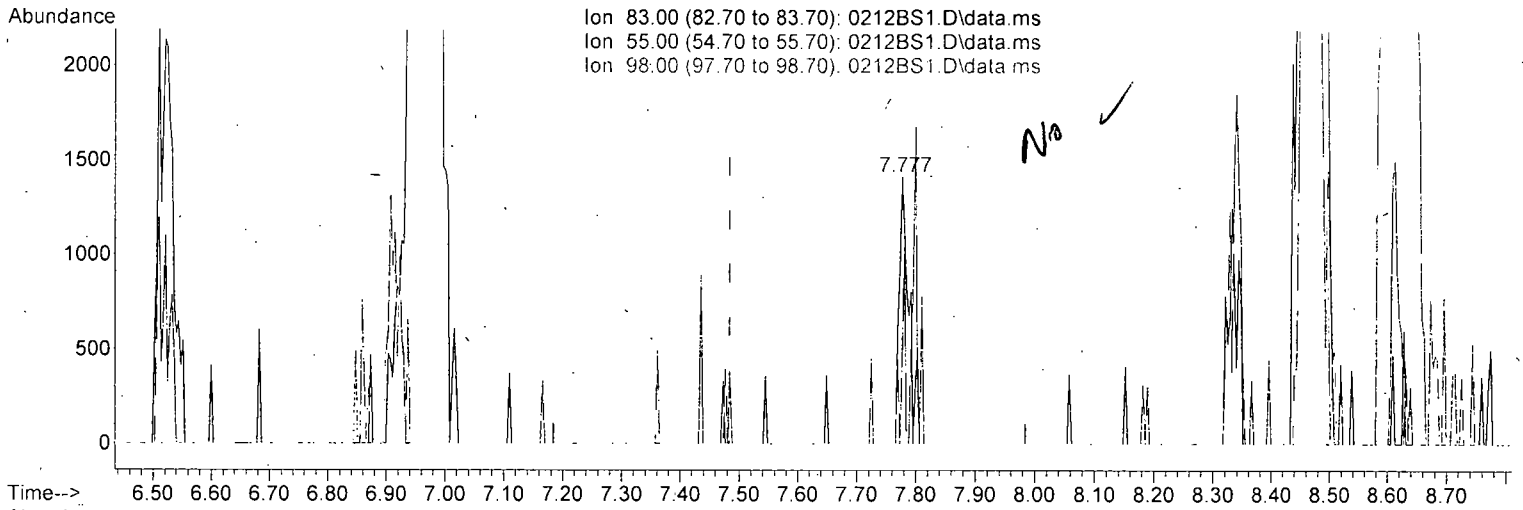
response 2526

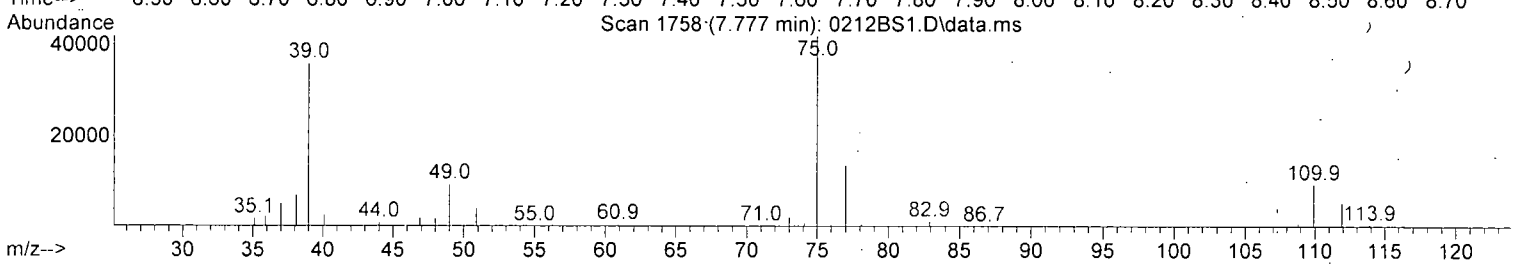
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

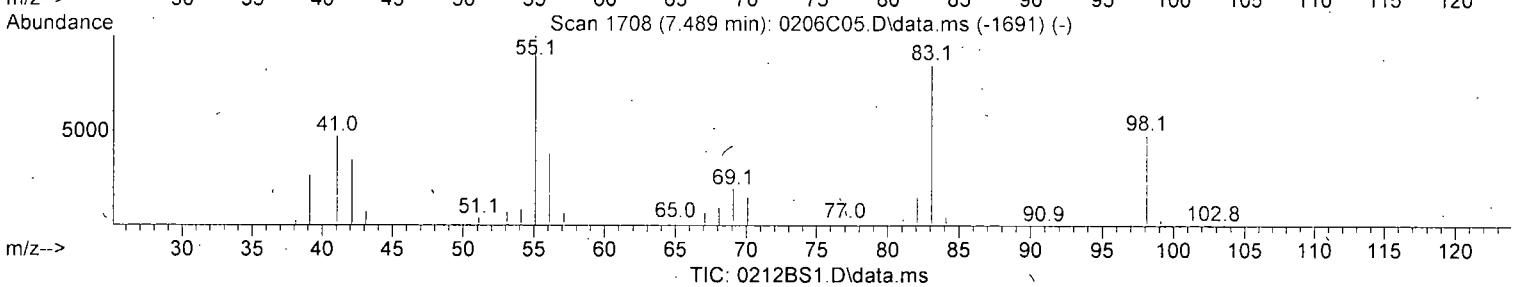
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212BS1.D
Acq On : 12 Feb 2014 13:40
Operator : PZ PZ1-AG5975
Sample : Batch-BS1
Misc : R-MegaMix w/Gases 2.5uL - 100mL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 12 14:00:50 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







TIC: 0212BS1.D\data.ms

(34) METHYLCYCLOHEXANE (TMCP)

7.777min (+0.292) 0.08 ug/L

response 1621

Ion	Exp%	Act%
83.00	100	100
55.00	81.50	44.73#
98.00	46.50	0.00#
0.00	0.00	0.00

Freedom_0005792_0187

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212RIN3.D
Acq On : 12 Feb 2014 14:07
Operator : PZ PZ1-AG5975
Sample : Blank
Misc :
ALS Vial : 12 Sample Multiplier: 1

for reference only

Quant Time: Feb 18 09:02:13 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.529	114	138086	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	129943	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	62781	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.494	65	91577	5.28	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 105.60%		
41) TOLUENE-d8	8.620	98	171500	4.72	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 94.40%		
59) 4-BROMOFLUOROBENZENE	11.642	95	62482	4.87	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 97.40%		
Target Compounds						Qvalue
53) STYRENE	11.218	104	1590	0.05	ug/L #	30

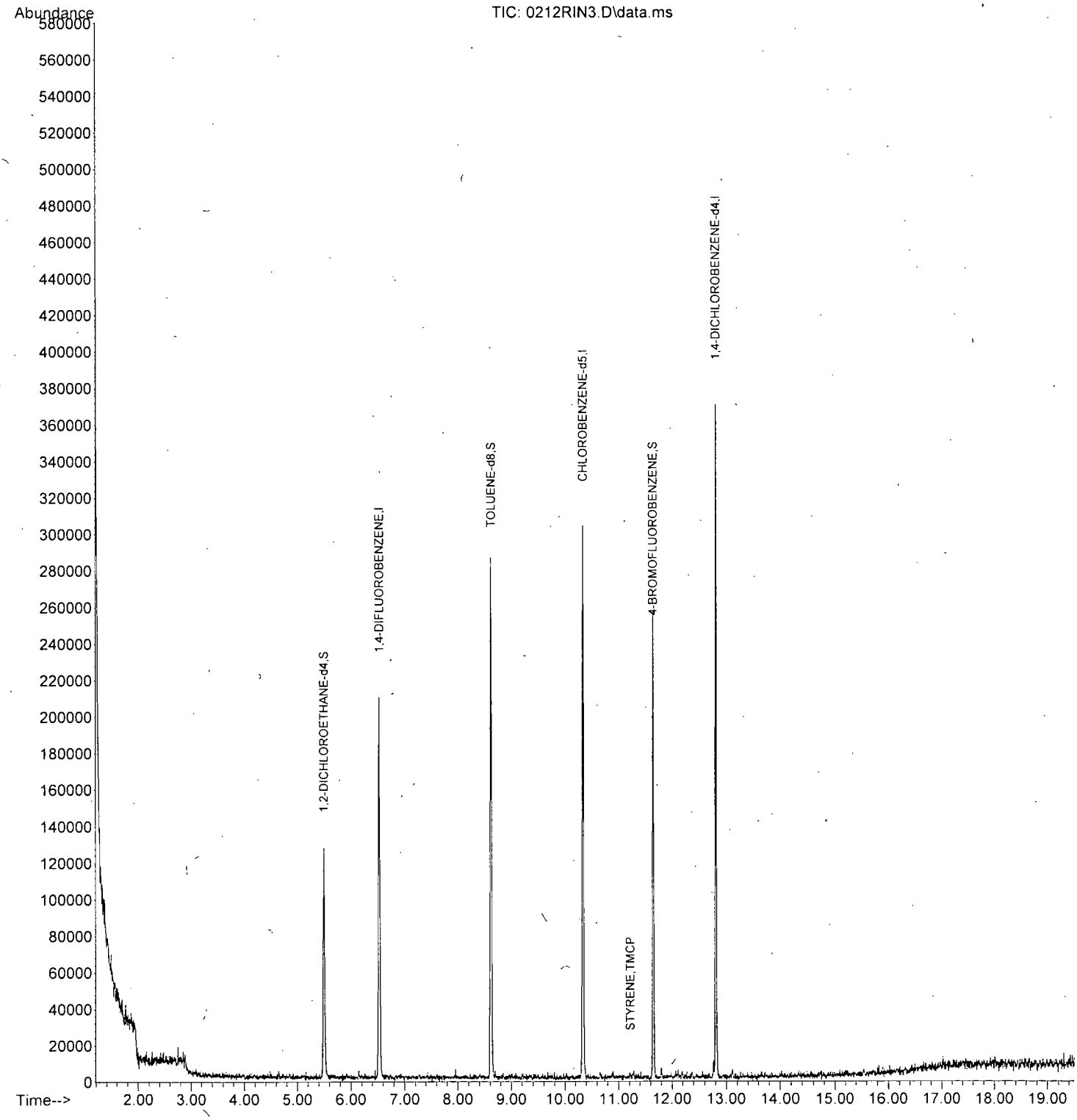
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0188

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212RIN3.D
Acq On : 12 Feb 2014 14:07
Operator : PZ PZ1-AG5975
Sample : Blank
Misc :
ALS Vial : 12 Sample Multiplier: 1

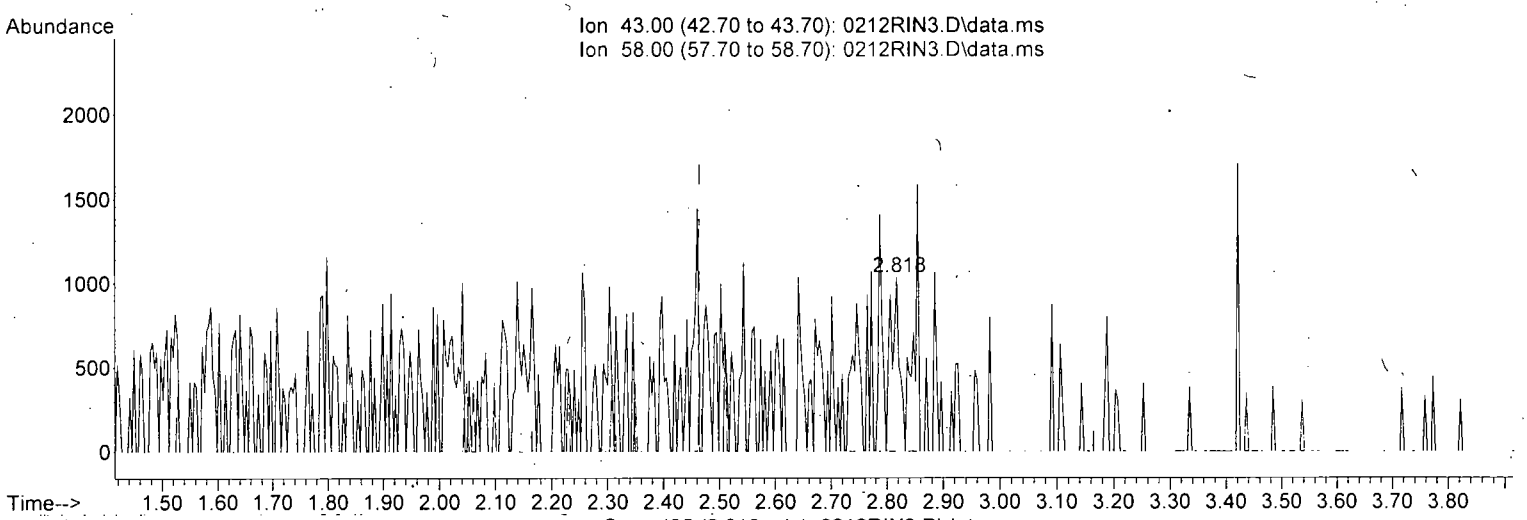
Quant Time: Feb 18 09:02:13 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration

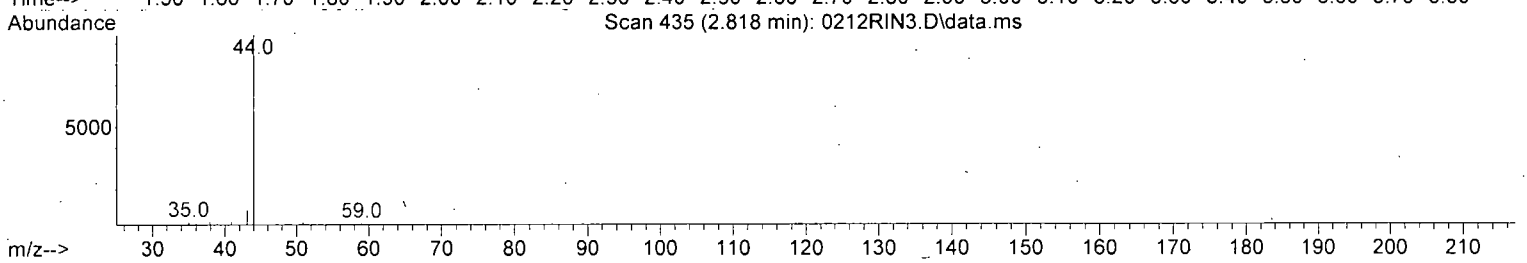


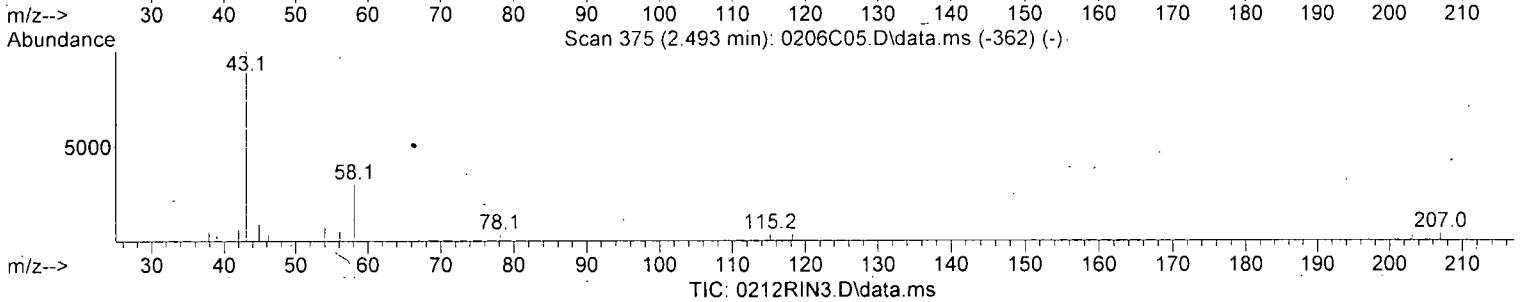
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212RIN3.D
Acq On : 12 Feb 2014 14:07
Operator : PZ PZ1-AG5975
Sample : Blank
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 18 09:01:26 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







(8) ACETONE (TMCP)

2.818min (+0.353) 0.22 ug/L

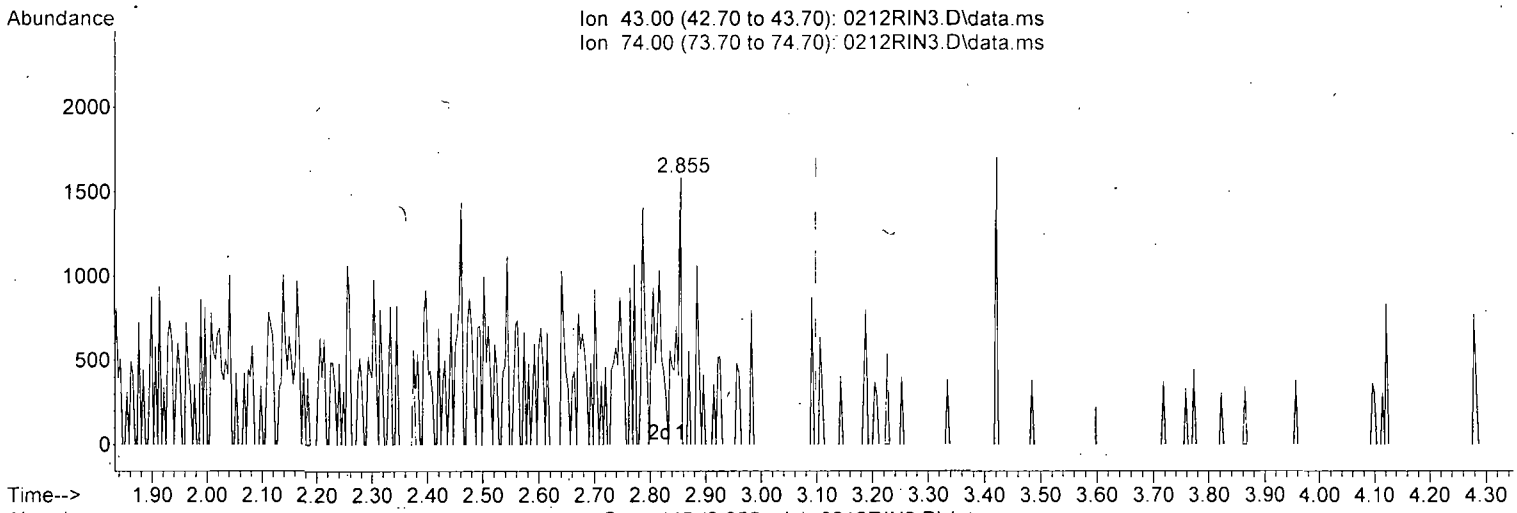
response 1122

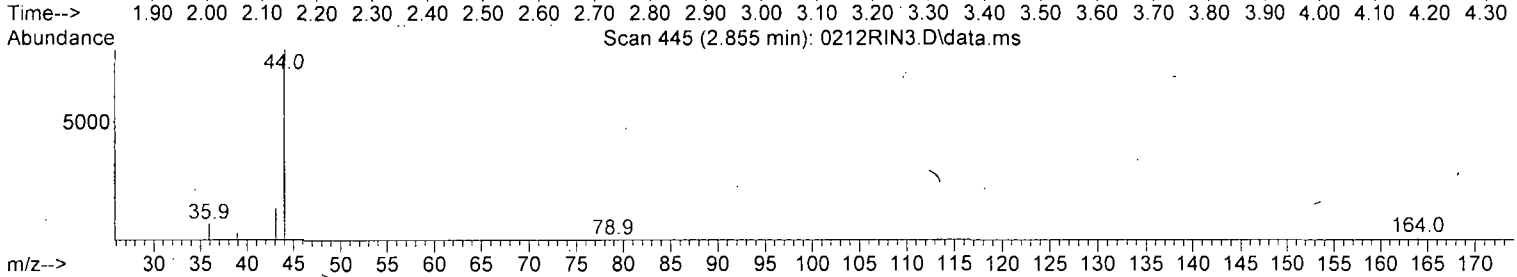
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

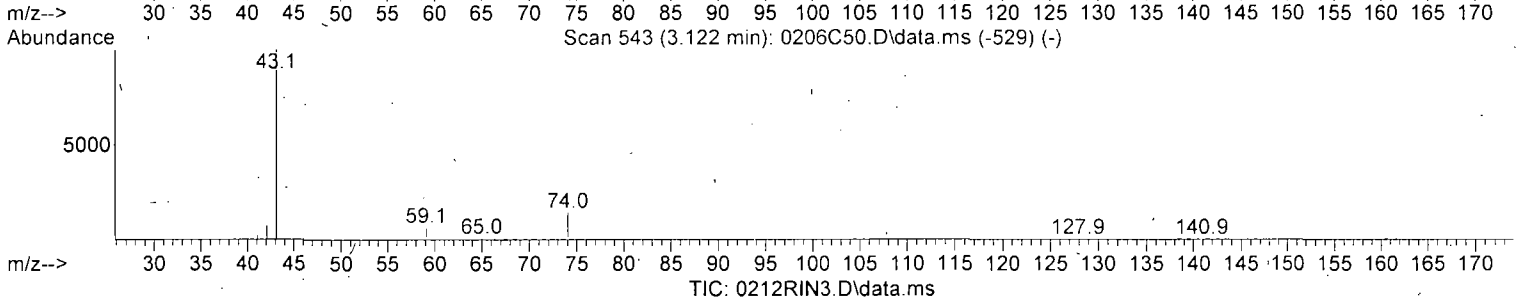
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212RIN3.D
Acq On : 12 Feb 2014 14:07
Operator : PZ PZ1-AG5975
Sample : Blank
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 18 09:01:26 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







(13) METHYL ACETATE (TMCP)

2.855min (-0.243) 0.08 ug/L

response 935

Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Case File Contents

Volatile Organic Compounds

VOCs by CLP Equivalent (trace)

WO 1401014

West Virginia Chemical Leak

DAS R34317

Sample Data

Quantitation Report (QT Reviewed)

Trace at 13.23 min w/ m/z's 55,81,97 area < 10% of IS

Data Path : D:\DATA\L01302014\
Data File : 140101401.D
Acq On : 30 Jan 2014 15:11
Operator : PZ PZ1-AG5975
Sample : 1401014-01
Misc : A, CU
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 30 15:31:49 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration

No TICs to report.

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-DIFLUOROBENZENE	6.529	114	103486	5.00 ug/L	0.00
37) CHLOROBENZENE-d5	10.341	117	100558	5.00 ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	48792	5.00 ug/L	0.00
System Monitoring Compounds					
23) 1,2-DICHLOROETHANE-d4	5.502	65	58425	5.39 ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 107.80%	
41) TOLUENE-d8	8.617	98	114687	4.42 ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 88.40%	
59) 4-BROMOFLUOROBENZENE	11.646	95	43506	4.75 ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 95.00%	

Target Compounds None detected Qvalue

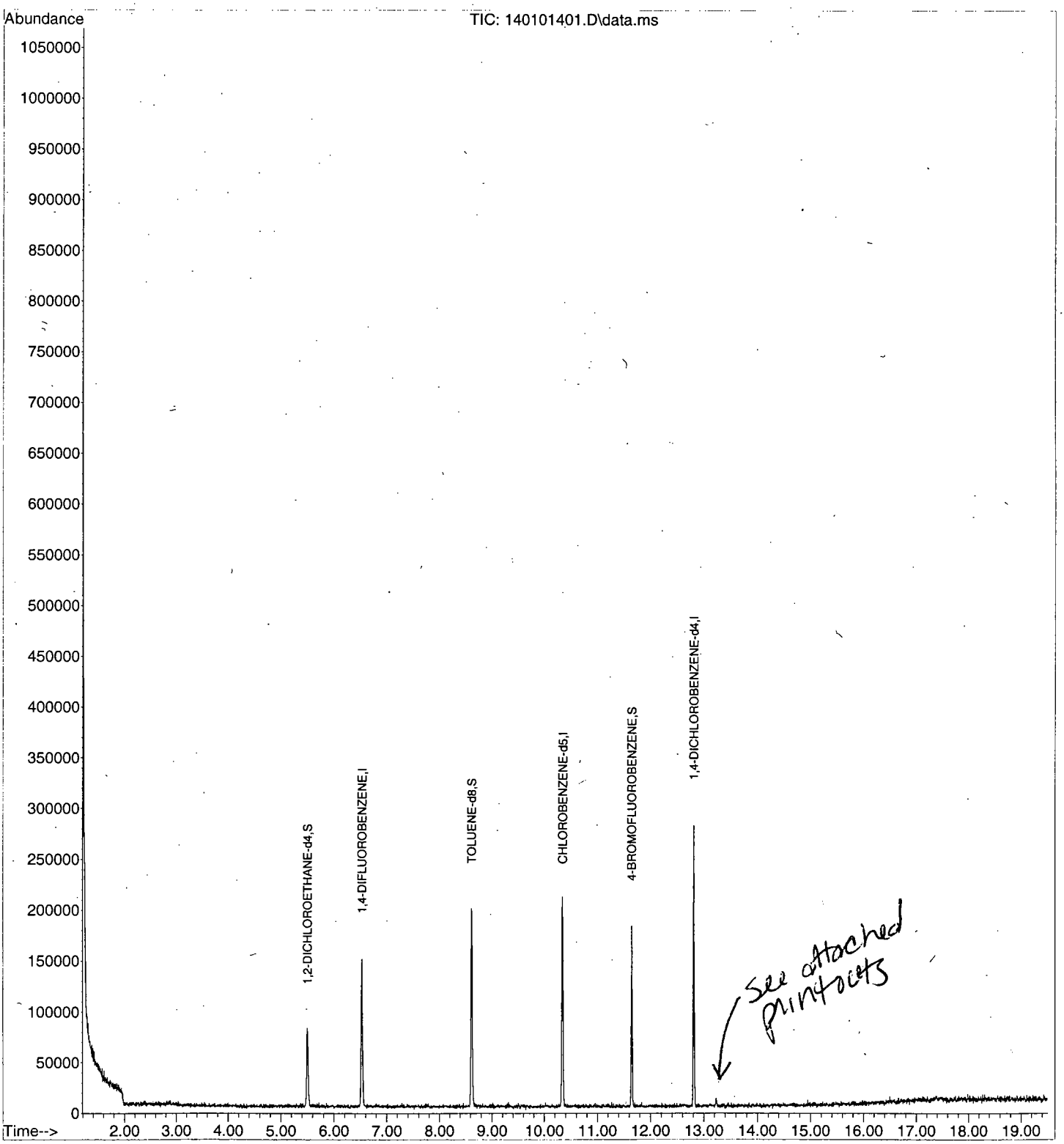
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0193

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 140101401.D
Acq On : 30 Jan 2014 15:11
Operator : PZ PZ1-AG5975
Sample : 1401014-01
Misc : A, CU
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 30 15:31:49 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



LSC Area Percent Report

Data Path : D:\DATA\L01302014\
Data File : 140101401.D
Acq On : 30 Jan 2014 15:11
Operator : PZ PZ1-AG5975
Sample : 1401014-01
Misc : A, CU
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 140101401.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.498	1136	1150	1164	rBV3	78091	158152	45.93%	9.235%
2	6.529	1412	1425	1443	rBV	145921	270254	78.48%	15.781%
3	8.617	1973	1982	1996	rBV2	195996	344364	100.00%	20.108%
4	10.337	2432	2441	2456	rVB2	207044	334808	97.23%	19.550%
5	11.646	2781	2790	2800	rVB2	178577	232145	67.41%	13.555%
6	12.808	3093	3100	3110	rVB3	278185	341059	99.04%	19.915%
7	13.231	3205	3213	3220	rVB4	9616	14747	4.28%	0.861%
8	16.845	4175	4177	4184	rVB4	7202	8453	2.45%	0.494%
9	18.558	4628	4634	4639	rBV4	6224	8575	2.49%	0.501%

Sum of corrected areas: 1712557

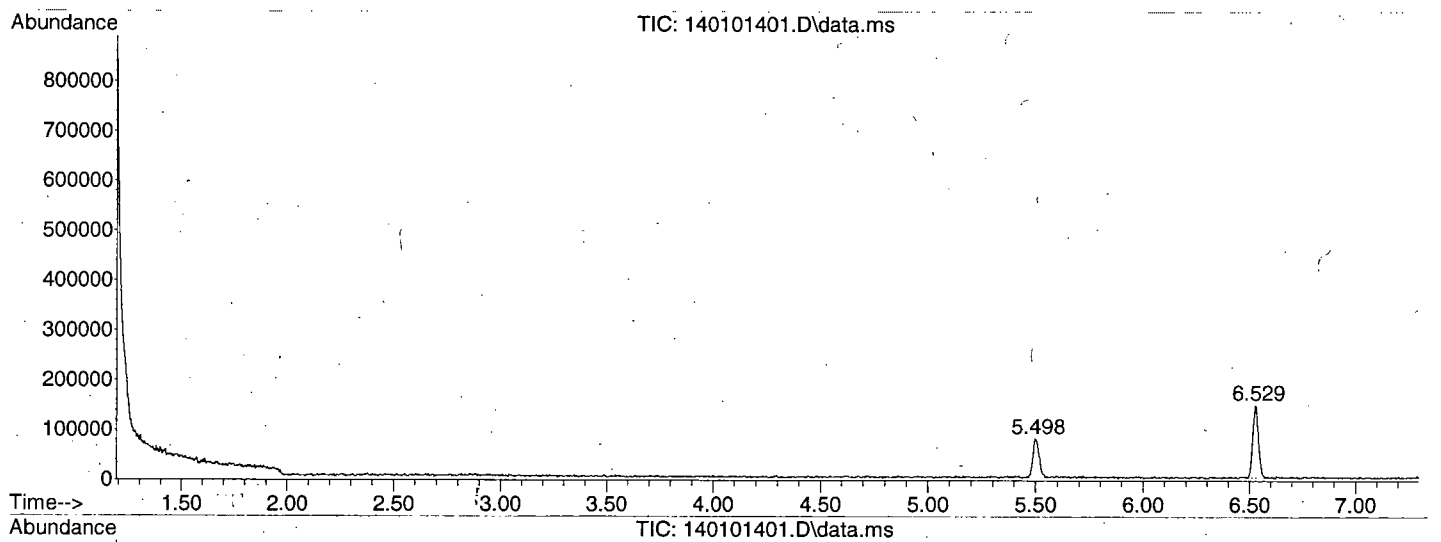
Freedom_0005792_0195

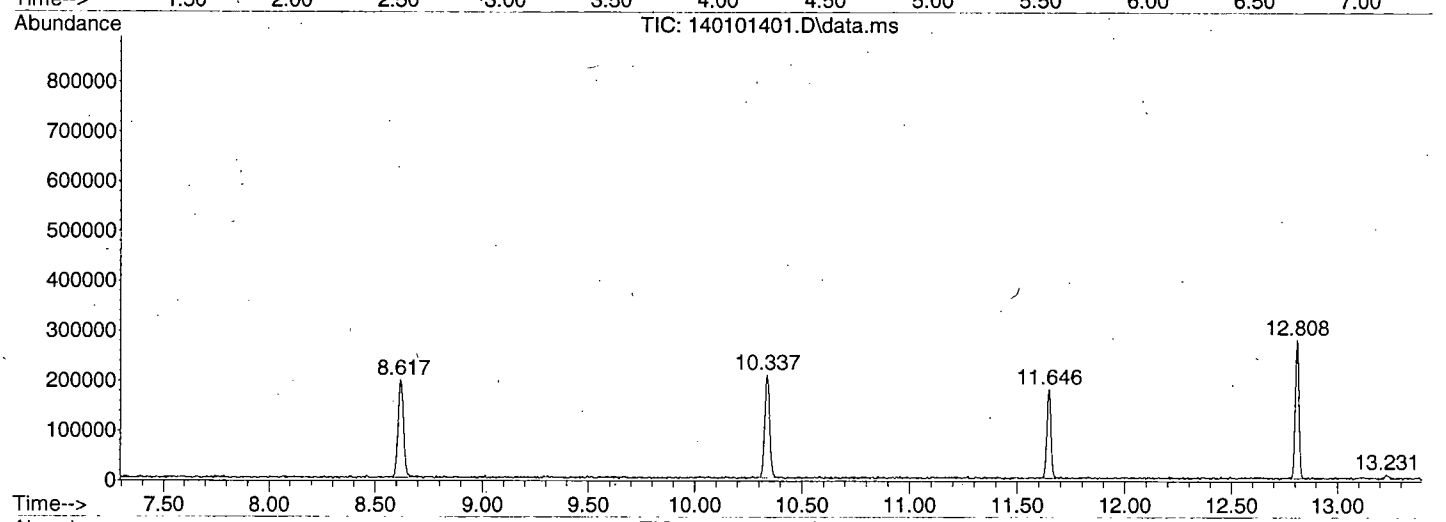
LSC Report - Integrated Chromatogram

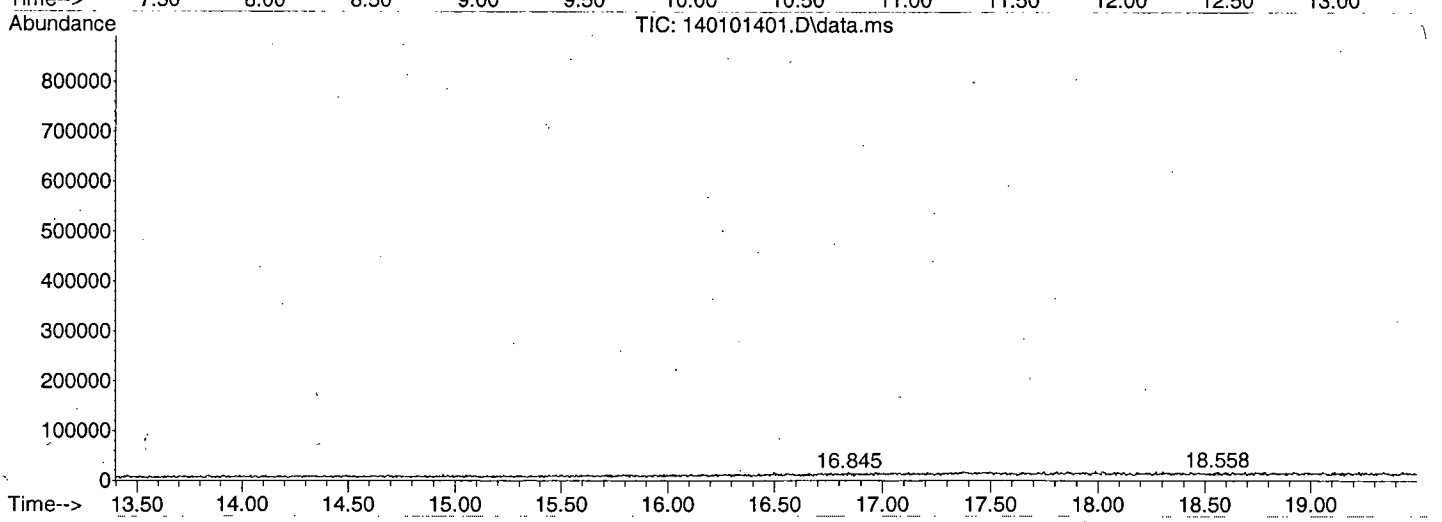
Data Path : D:\DATA\L01302014\
Data File : 140101401.D
Acq On : 30 Jan 2014 15:11
Operator : PZ PZ1-AG5975
Sample : 1401014-01
Misc : A, CU
ALS Vial : 16 Sample Multiplier: 1

Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L01302014\\
Data File : 140101401.D
Acq On : 30 Jan 2014 15:111
Operator : PZ PZ1-AG59755
Sample : 1401014-011
Misc : A, CUU
ALS Vial : 16 Sample Multiplier: 11

Quant Method : D:\METHODS\L01302014.MM
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Methodd

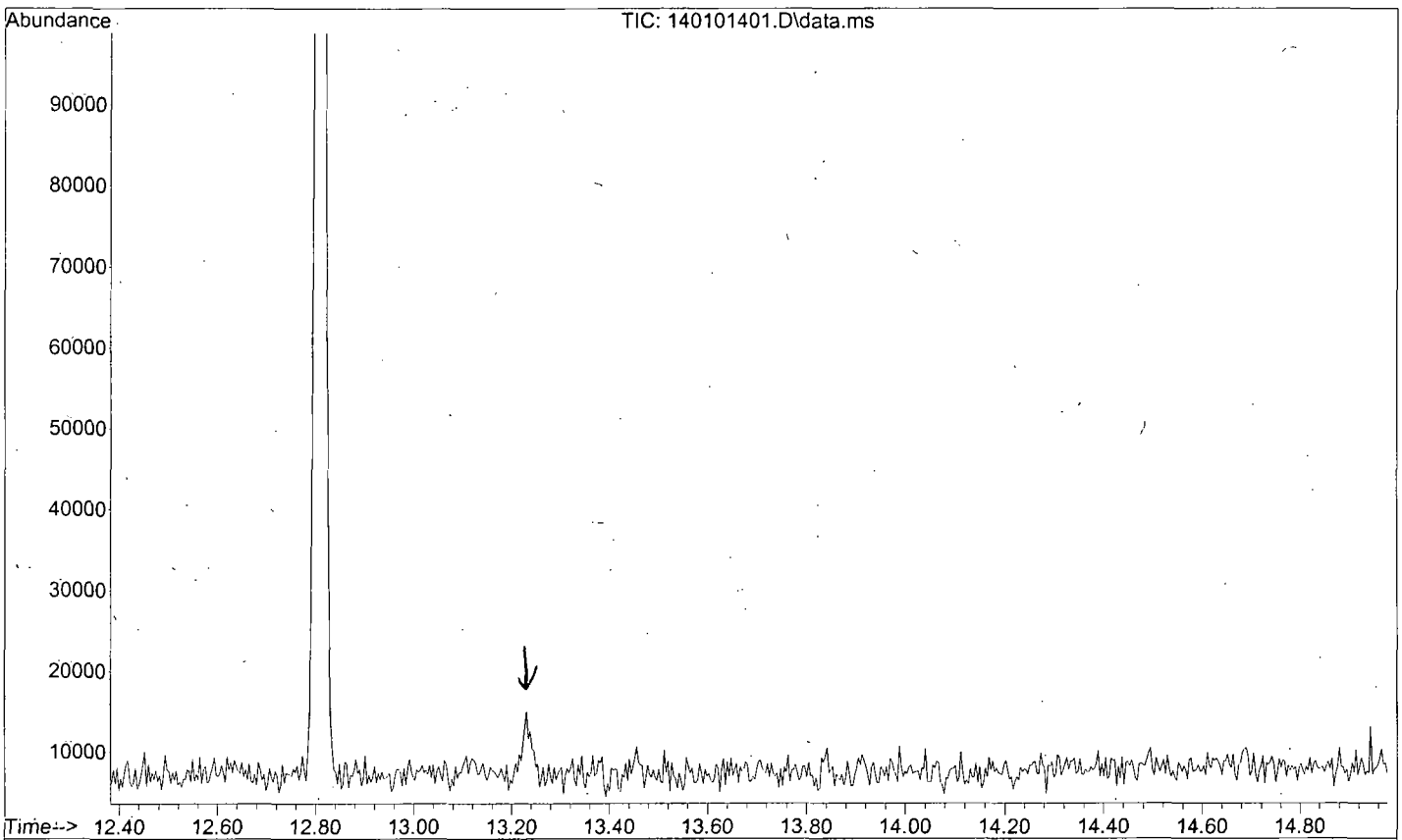
TIC Library : C:\Database\NIST05a.LL
TIC Integration Parameters: LSCINT.PP

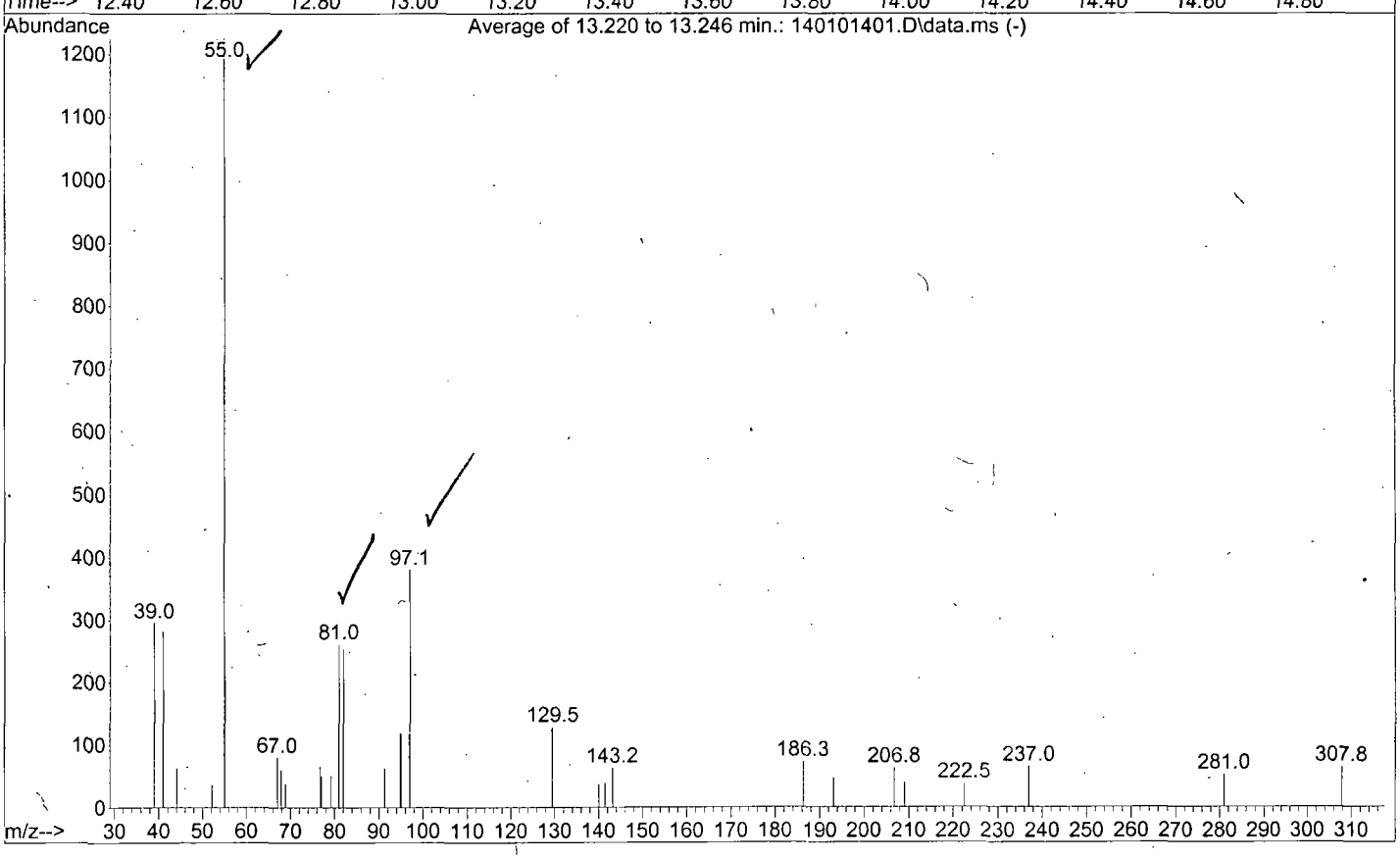
TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

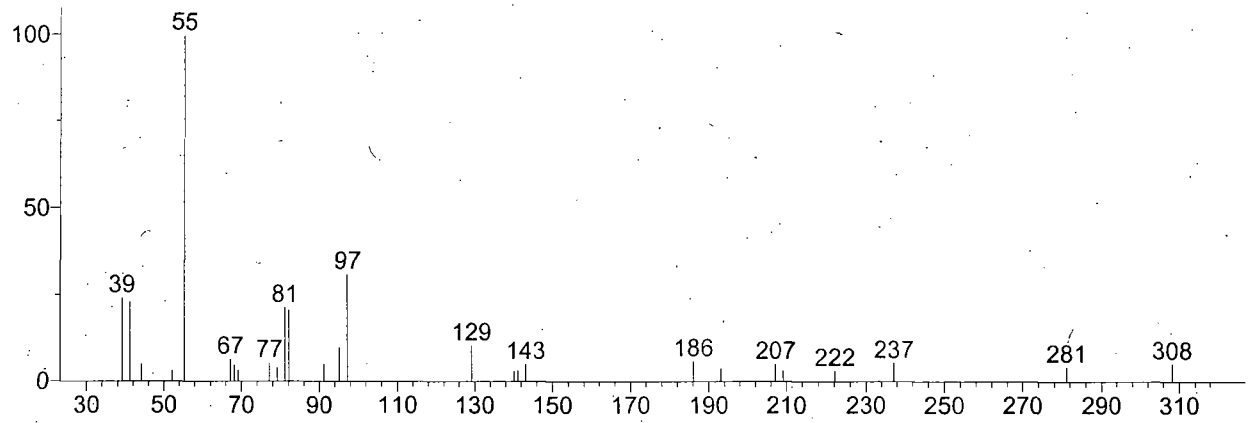
Freedom_0005792_0197

File : D:\DATA\L01302014\140101401.D
Operator : PZ PZ1-AG5975
Acquired : 30 Jan 2014 15:11 using AcqMethod TRACEVOC.M
Instrument : PZ1-AG5975
Sample Name: 1401014-01
Misc Info : A, CU
Vial Number: 16

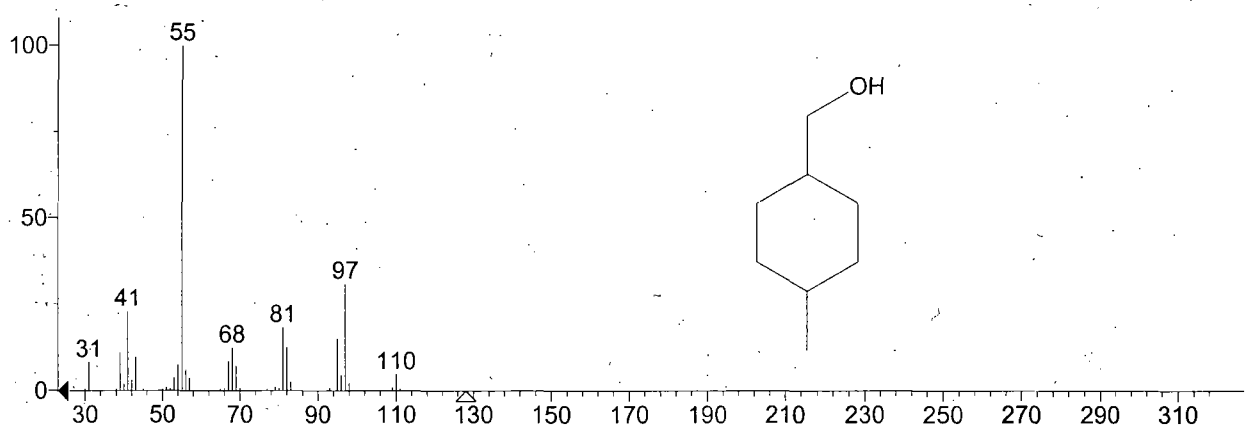




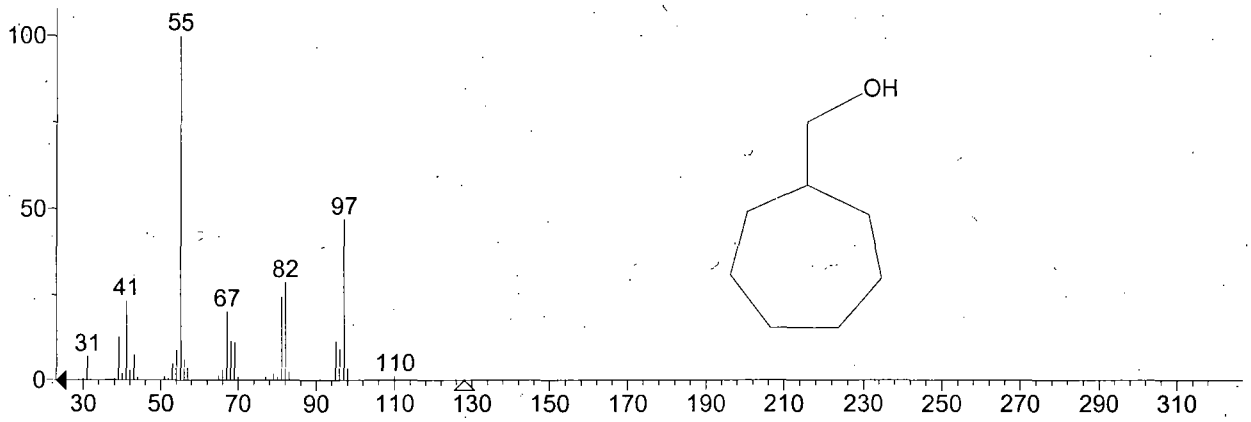
Unknown: Average of 13.220 to 13.246 min.: 140101401.D\data.ms
Compound in Library Factor = -1275



Hit 1 : Cyclohexanemethanol, 4-methyl-, trans-
C8H16O; MF: 532; RMF: 779; Prob 21.9%; CAS: 3937-49-3; Lib: mainlib; ID: 18215.



Hit 2 : Cycloheptanemethanol
C8H16O; MF: 524; RMF: 756; Prob 16.4%; CAS: 4448-75-3; Lib: replib; ID: 4696.



Quantitation Report (QT Reviewed)

1 TIC at 13.239

Data Path : D:\DATA\L01302014\
Data File : 140101402.D
Acq On : 30 Jan 2014 15:39
Operator : PZ PZ1-AG5975
Sample : 1401014-02
Misc : A, CD
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 31 16:54:43 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.529	114	103959	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.341	117	98881	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	46396	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.502	65	61333	5.64	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 112.80%		
41) TOLUENE-d8	8.617	98	117193	4.60	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 92.00%		
59) 4-BROMOFLUOROBENZENE	11.649	95	44321	5.09	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 101.80%		
Target Compounds						Qvalue
75) NAPHTHALENE	14.738	128	2323	0.10	ug/L #	69

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

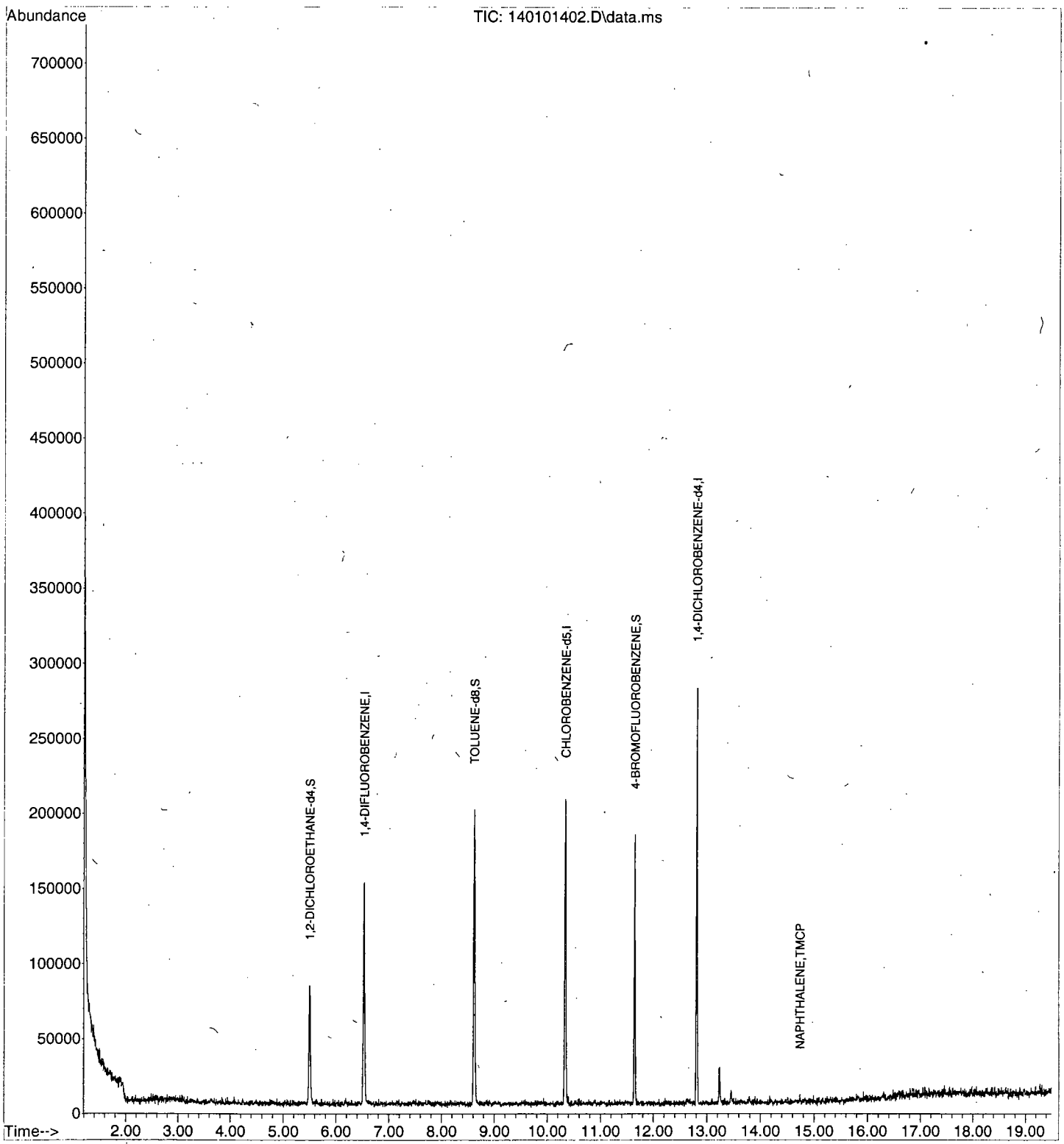
Ex. 5 - Deliberative

Freedom_0005792_0200

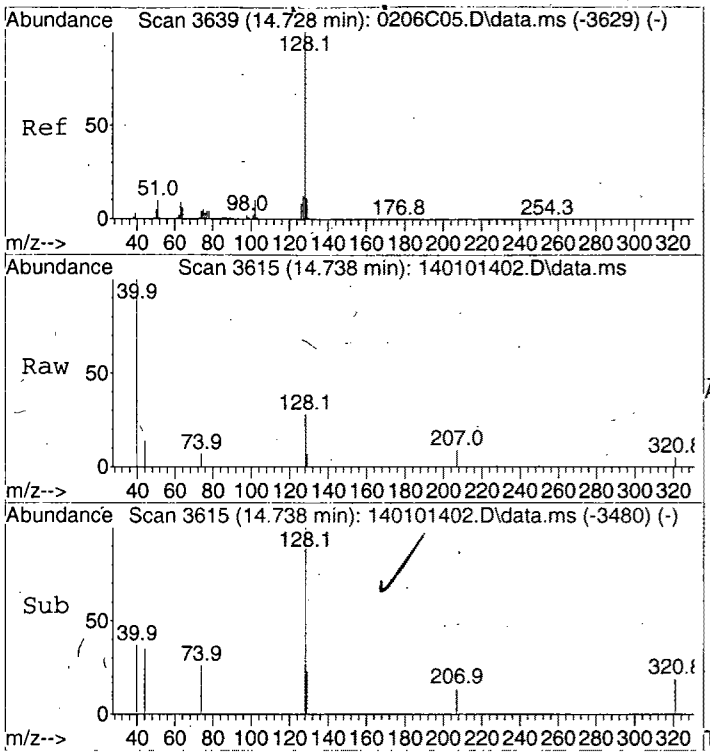
Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 140101402.D
Acq On : 30 Jan 2014 15:39
Operator : PZ PZ1-AG5975
Sample : 1401014-02
Misc : A, CD
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 31 16:54:43 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



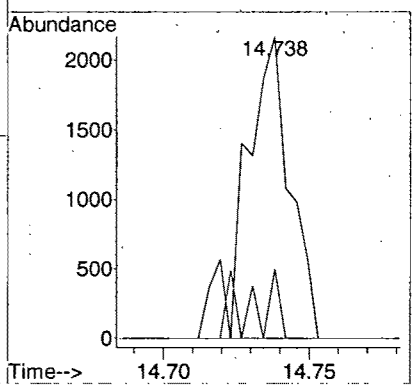
Freedom_0005792_0201



#75
NAPHTHALENE
Concen: 0.10 ug/L
RT: 14.738 min Scan# 3615
Delta R.T. 0.007 min
Lab File: 140101402.D
Acq: 30 Jan 2014 15:39

Tgt Ion:128 Resp: 2323

Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.7	13.1#
127	0.0	10.2	15.2#

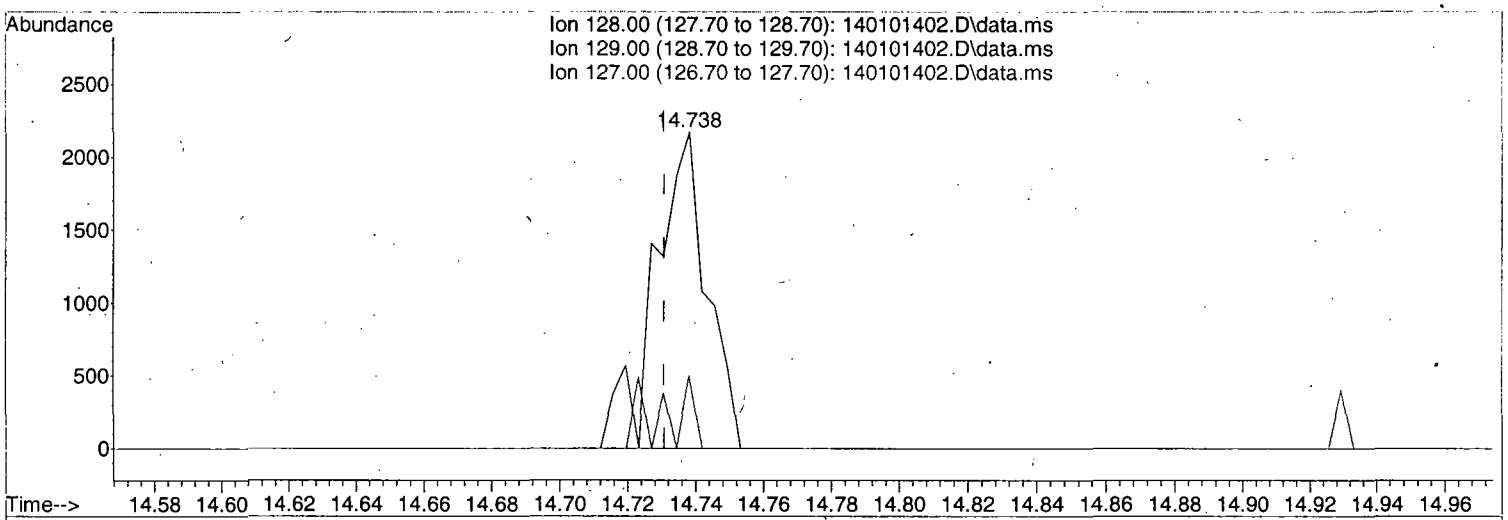


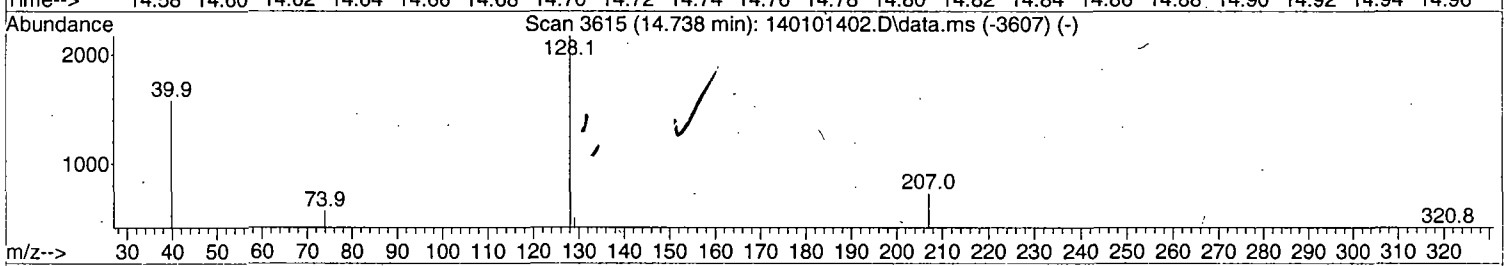
Freedom_0005792_0202

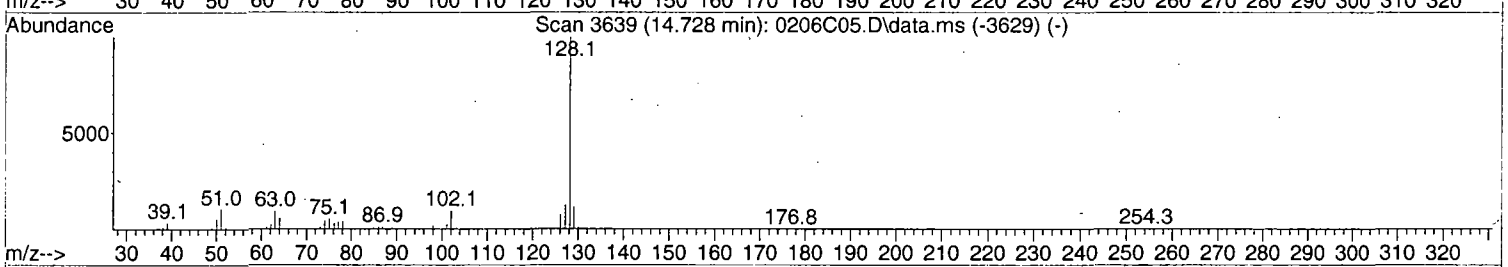
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101402.D
Acq On : 30 Jan 2014 15:39
Operator : PZ PZ1-AG5975
Sample : 1401014-02
Misc : A, CD
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 31 16:33:40 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 140101402.D\data.ms

(75) NAPHTHALENE (TMCP)

14.738min (+0.007) 0.10 ug/L

response 2323

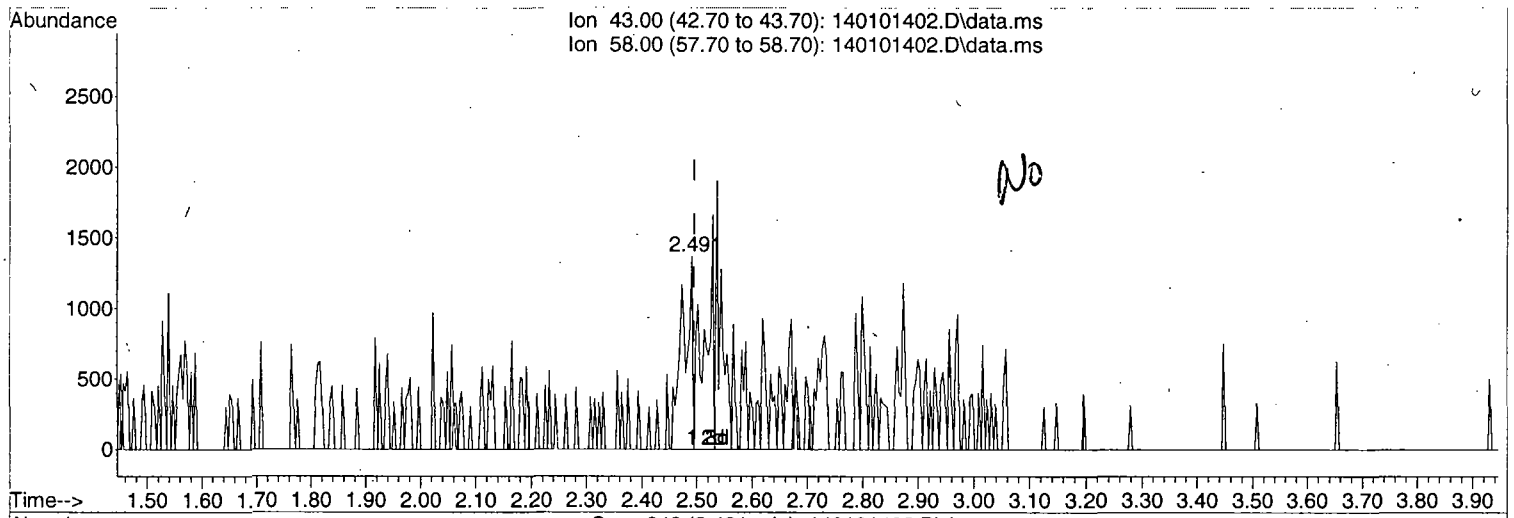
Ion	Exp%	Act%
128.00	100	100
129.00	10.90	0.00#
127.00	12.70	0.00#
0.00	0.00	0.00

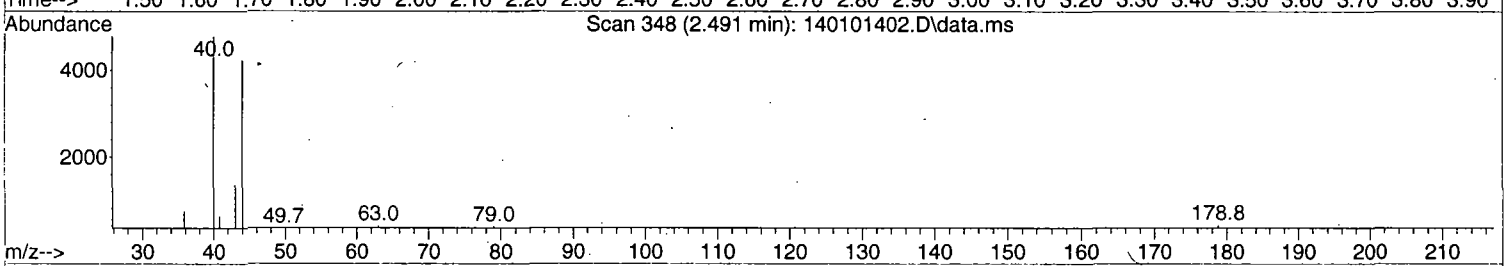
Freedom_0005792_0203

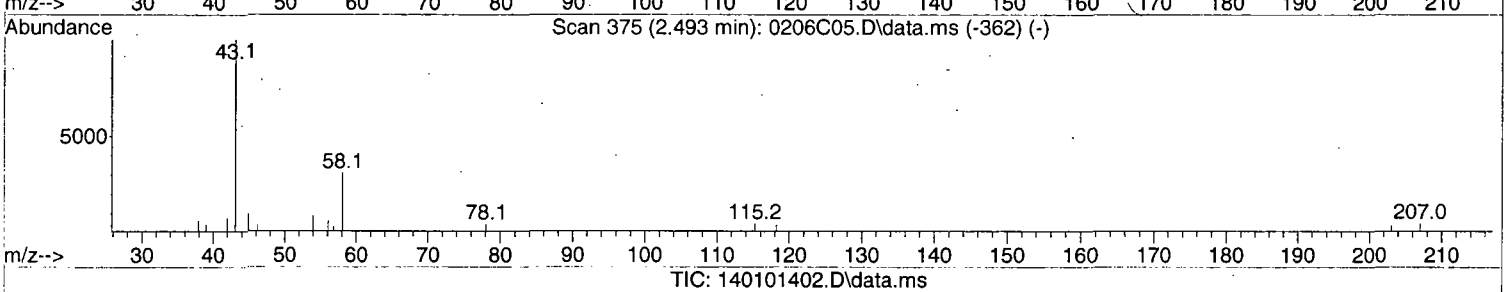
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101402.D
Acq On : 30 Jan 2014 15:39
Operator : PZ PZ1-AG5975
Sample : 1401014-02
Misc : A, CD
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 31 16:33:40 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 140101402.D\data.ms

(8) ACETONE (TMCP)

2.491min (-0.004) 0.33 ug/L

response 1660

Ion	Exp%	Act%
43.00	100	100
58.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0204

LSC Area Percent Report

Data Path : D:\DATA\L01302014\
Data File : 140101402.D
Acq On : 30 Jan 2014 15:39
Operator : PZ PZ1-AG5975
Sample : 1401014-02
Misc : A, CD
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 140101402.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.915	454	461	466	rVB3	4045	6050	1.78%	0.339%
2	4.238	810	814	822	rBV2	4609	6505	1.92%	0.365%
3	5.498	1139	1150	1166	rBV3	79828	162136	47.81%	9.096%
4	6.529	1414	1425	1437	rBV2	147123	266789	78.66%	14.968%
5	8.617	1971	1982	1996	rBV2	195959	334347	98.58%	18.758%
6	10.337	2429	2441	2454	rBV2	203550	337369	99.48%	18.927%
7	11.649	2780	2791	2799	rVB	180879	231790	68.34%	13.004%
8	12.808	3091	3100	3113	rVB2	278349	339149	100.00%	19.027%
9	13.239	3207	3215	3223	rBV6	25420	40787	12.03%	2.288%
10	13.456	3268	3273	3278	rBV4	8556	9615	2.84%	0.539%
11	14.738	3610	3615	3620	rVB2	7197	7934	2.34%	0.445%
12	16.091	3971	3976	3980	rBV2	5248	6373	1.88%	0.358%
13	16.425	4063	4065	4071	rVB4	4755	5717	1.69%	0.321%
14	17.164	4260	4262	4268	rVB4	6548	5817	1.72%	0.326%
15	18.427	4594	4599	4603	rVB5	6378	6286	1.85%	0.353%
16	18.884	4718	4721	4724	rBV3	8679	7261	2.14%	0.407%
17	18.982	4739	4747	4749	rBV3	5948	8504	2.51%	0.477%

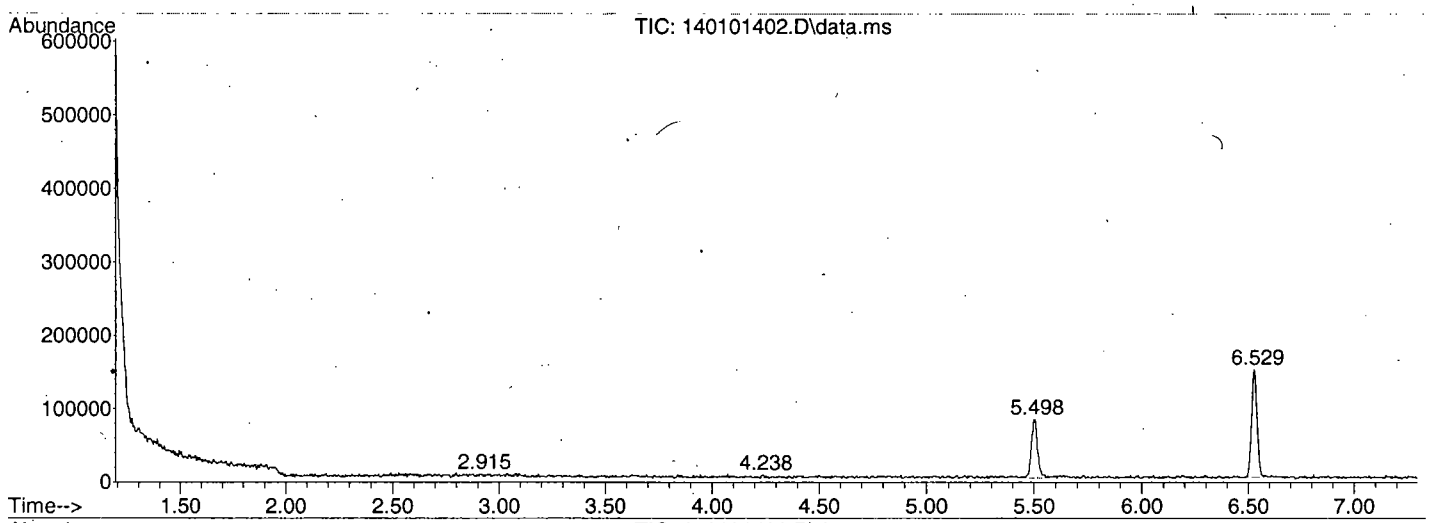
Sum of corrected areas: 1782429

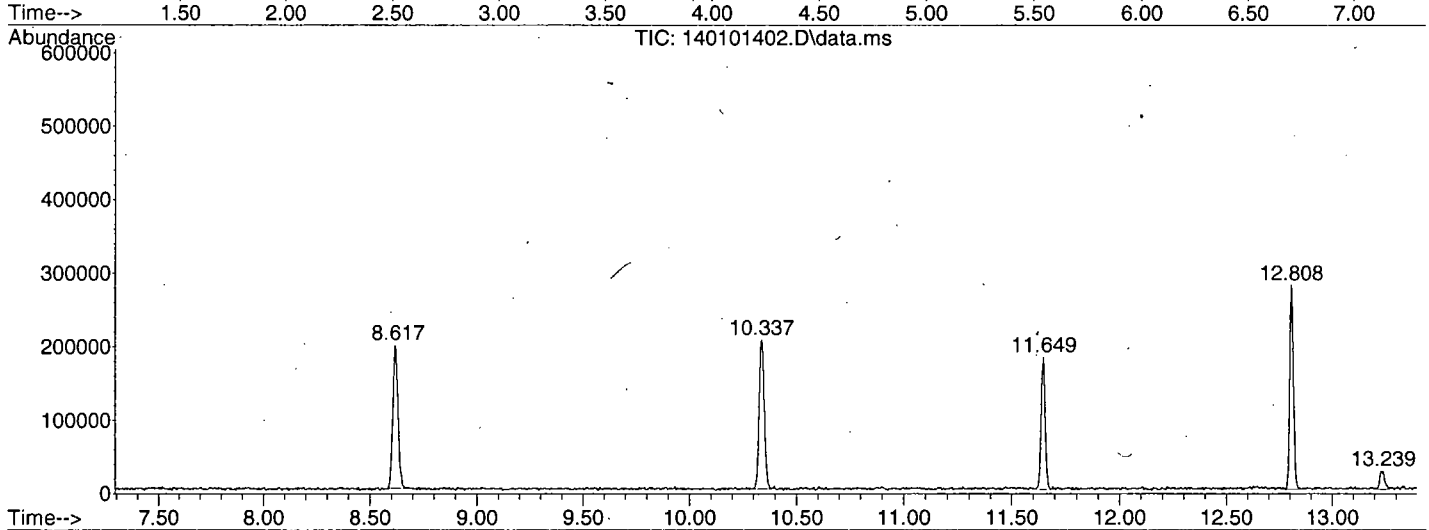
Freedom_0005792_0205

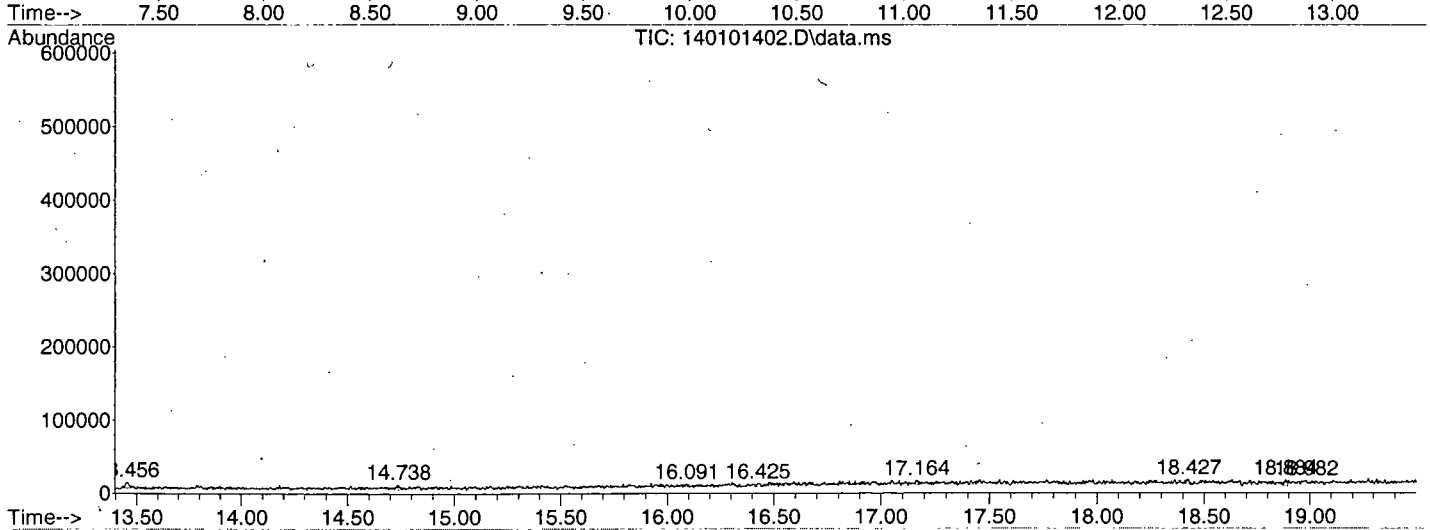
Data Path : D:\DATA\L01302014\
Data File : 140101402.D
Acq On : 30 Jan 2014 15:39
Operator : PZ PZ1-AG5975
Sample : 1401014-02
Misc : A, CD
ALS Vial : 17 Sample Multiplier: 1

Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P







Freedom_0005792_0206

Library Search Compound Report

Data Path : D:\DATA\L01302014\
Data File : 140101402.D
Acq On : 30 Jan 2014 15:39
Operator : PZ PZ1-AG5975
Sample : 1401014-02
Misc : A, CD
ALS Vial : 17 Sample Multiplier: 1

Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

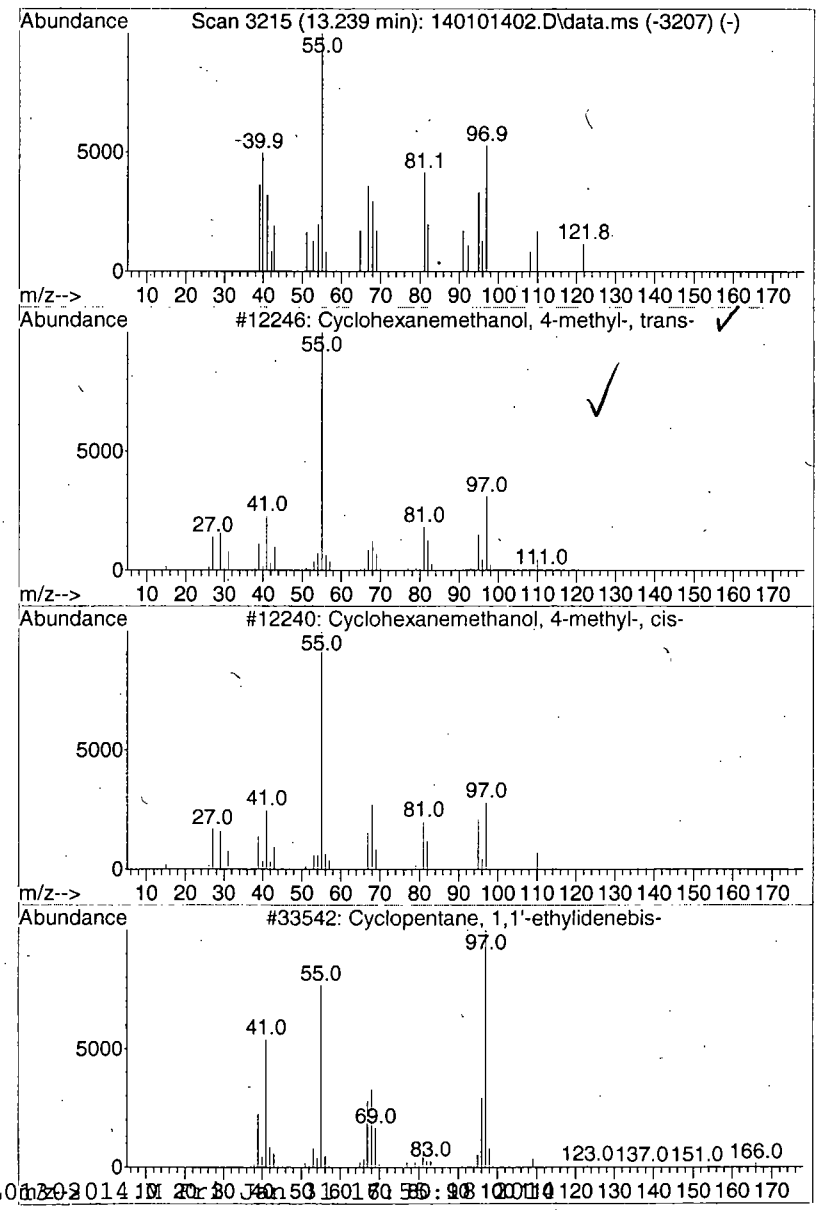
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

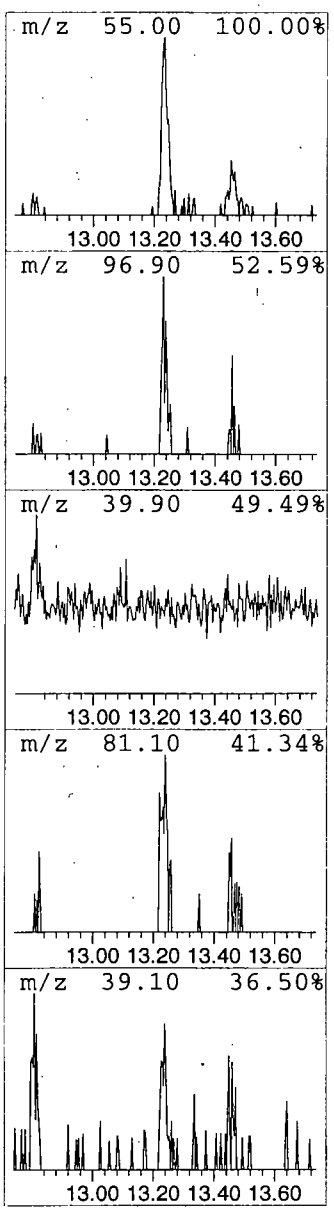
****

Peak Number 1 Cyclohexanemethanol, 4-meth... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.239	0.60 ug/L	40787	1,4-DICHLOROBENZENE-d4	12.808

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanemethanol, 4-methyl-, ...	128	C8H16O	003937-49-3	59
2	Cyclohexanemethanol, 4-methyl-, ...	128	C8H16O	003937-48-2	50
3	Cyclopentane, 1,1'-ethylidenebis-	166	C12H22	004413-21-2	47
4	6-Hepten-1-ol, 5-methyl-	128	C8H16O	026799-28-0	47
5	6-Hepten-1-ol, 3-methyl-	128	C8H16O	004048-32-2	38





Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L01302014\
Data File : 140101402.D
Acq On : 30 Jan 2014 15:39
Operator : PZ PZ1-AG5975
Sample : 1401014-02
Misc : A, CD
ALS Vial : 17 Sample Multiplier: 1

Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Cyclohexanemeth...	13.239	0.6	ug/L	40787	3	12.808	339149	5.0

Freedom_0005792_0208

Quantitation Report (QT Reviewed)

• TIC at 13.235 min

[• trace at 13.456 w/ m/z 55, 67, 81, 97

Data Path : D:\DATA\L01302014\
Data File : 140101403.D
Acq On : 30 Jan 2014 16:07
Operator : PZ PZ1-AG5975
Sample : 1401014-03
Misc : A, CD1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 31 16:55:47 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration

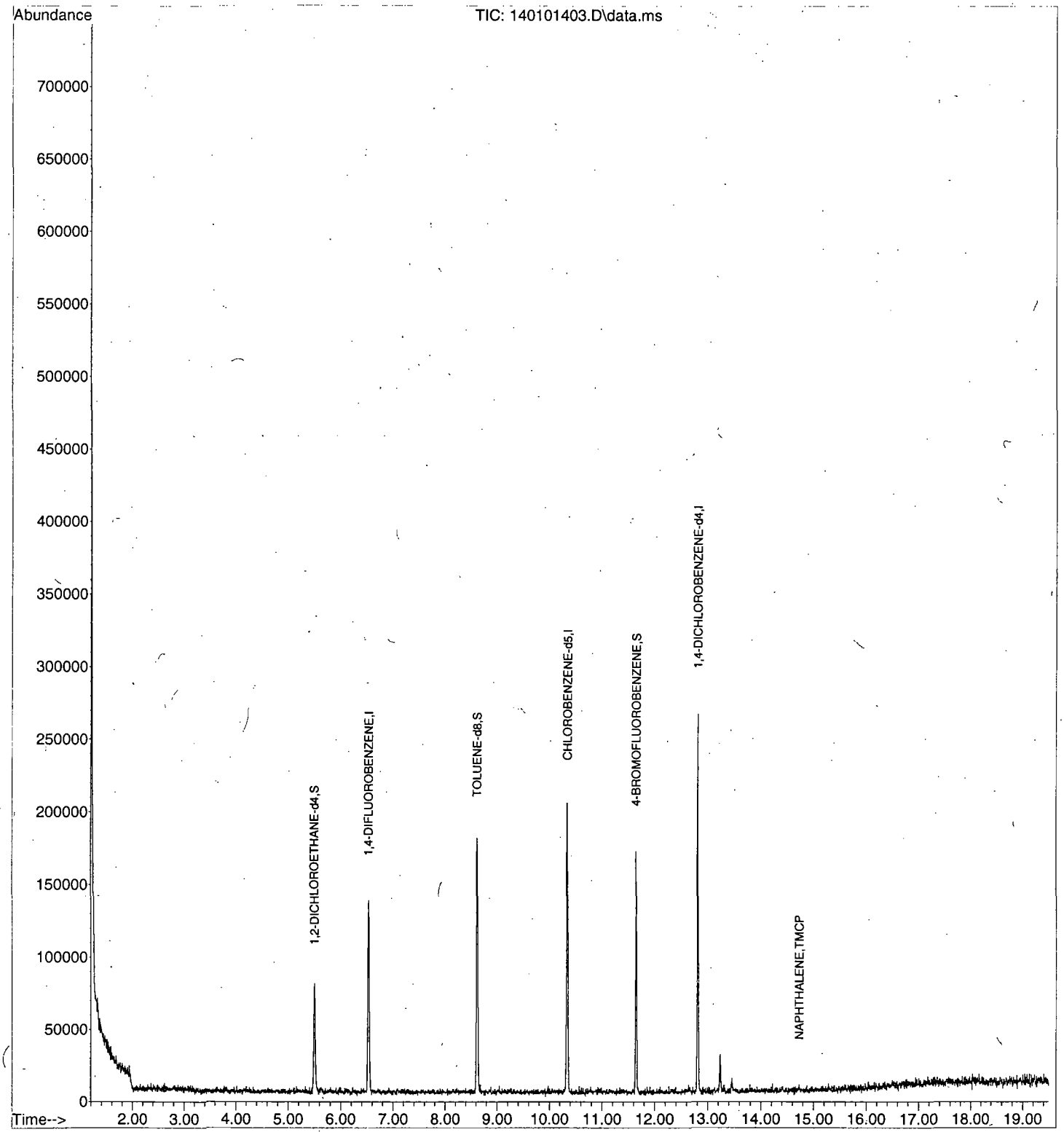
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-DIFLUOROBENZENE	6.529	114	95151	5.00 ug/L	0.00
37) CHLOROBENZENE-d5	10.341	117	94811	5.00 ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	43240	5.00 ug/L	0.00
System Monitoring Compounds					
23) 1,2-DICHLOROETHANE-d4	5.498	65	58011	5.82 ug/L	-0.01
Spiked Amount 5.000	Range 76 - 114		Recovery	= 116.40%#	A
41) TOLUENE-d8	8.617	98	110207	4.51 ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 90.20%	
59) 4-BROMOFLUOROBENZENE	11.646	95	45001	5.54 ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 110.80%	
Target Compounds					Qvalue
75) NAPHTHALENE	14.731	128	1131	0.05 ug/L #	69

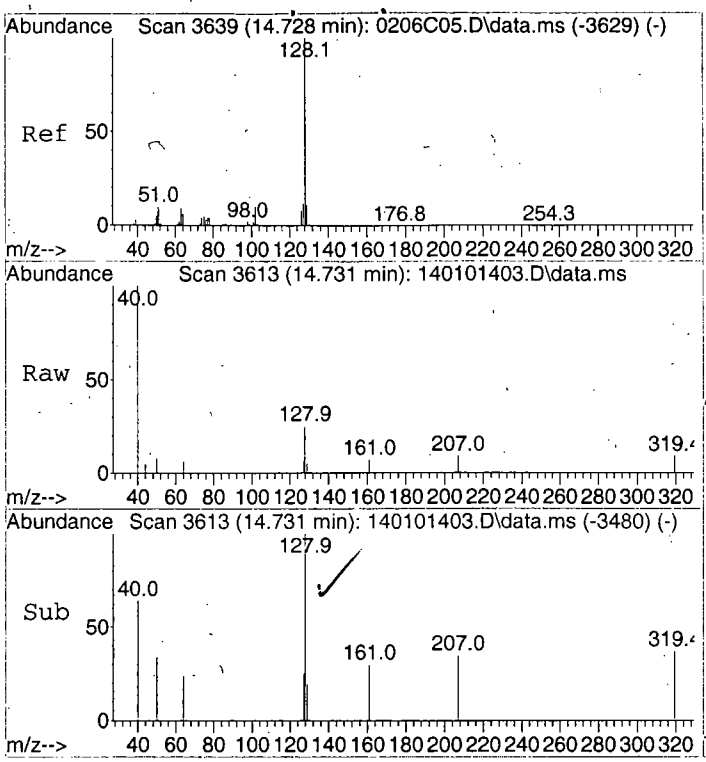
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0209

Data Path : D:\DATA\L01302014\
Data File : 140101403.D
Acq On : 30 Jan 2014 16:07
Operator : PZ PZ1-AG5975
Sample : 1401014-03
Misc : A, CD1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 31 16:55:47 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration

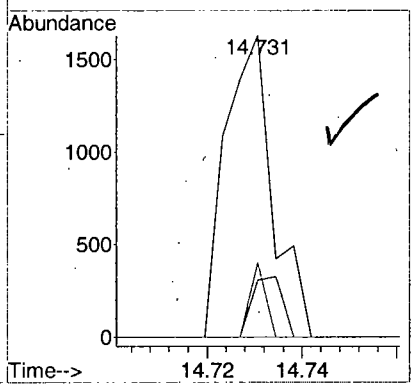




#75
NAPHTHALENE
Concen: 0.05 ug/L
RT: 14.731 min Scan# 3613
Delta R.T. 0.000 min
Lab File: 140101403.D
Acq: 30 Jan 2014 16:07

Tgt Ion:128 Resp: 1131

Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.7	13.1#
127	0.0	10.2	15.2#

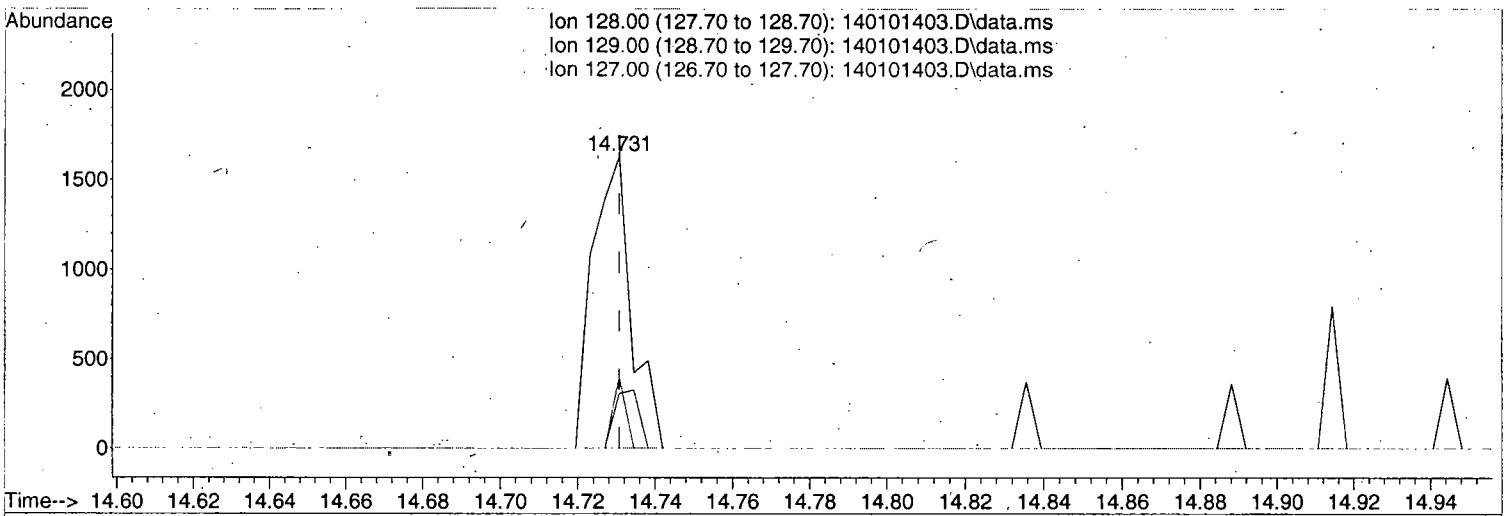


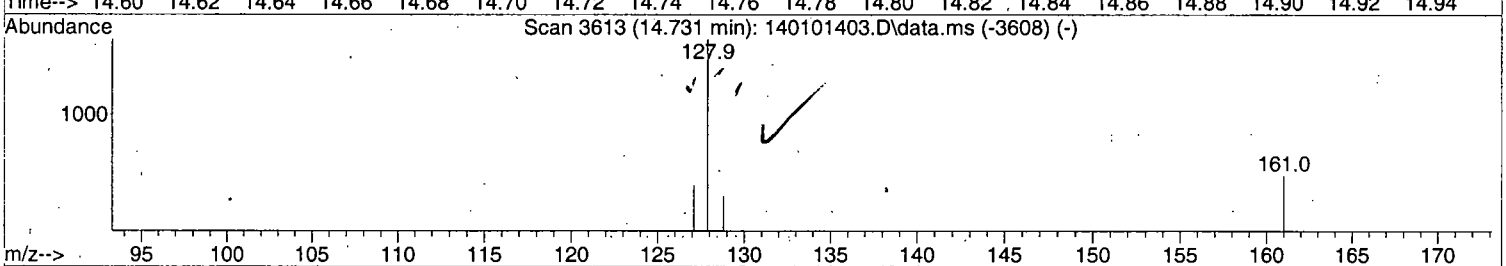
Freedom_0005792_0211

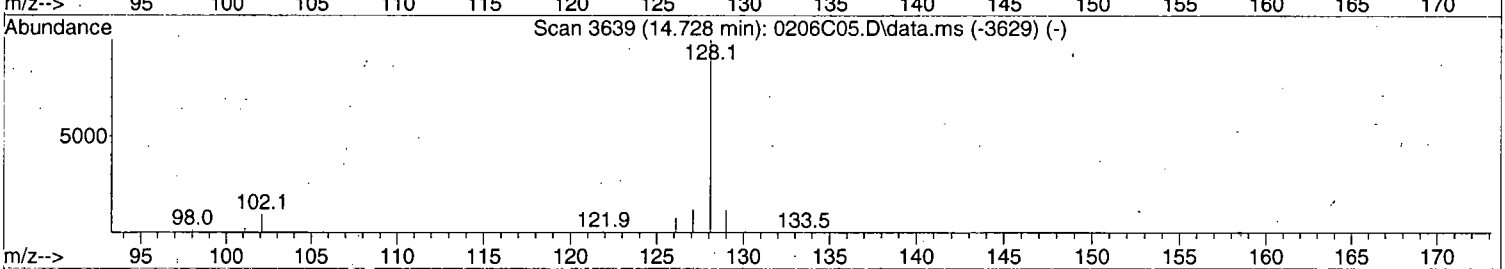
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101403.D
Acq On : 30 Jan 2014 16:07
Operator : PZ PZ1-AG5975
Sample : 1401014-03
Misc : A, CD1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 31 16:55:28 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 140101403.D\data.ms

(75) NAPHTHALENE (TMCP)

14.731min (+0.000) 0.05 ug/L

response 1131

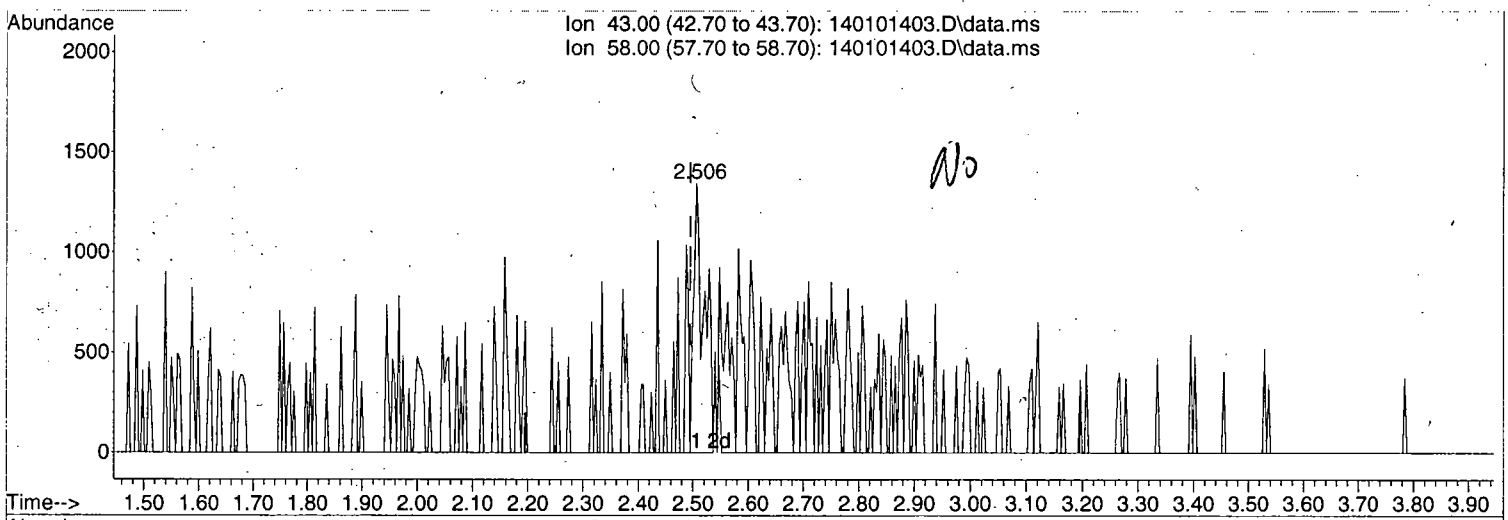
Ion	Exp%	Act%
128.00	100	100
129.00	10.90	0.00#
127.00	12.70	0.00#
0.00	0.00	0.00

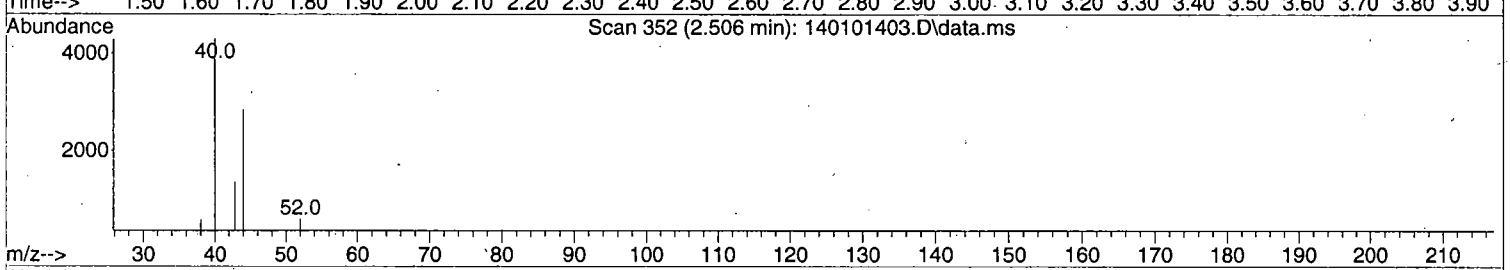
Freedom_0005792_0212

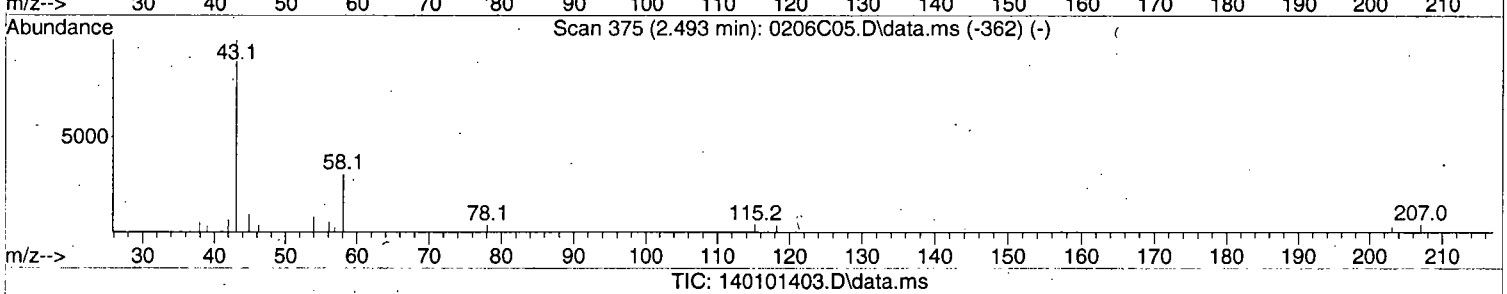
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101403.D
Acq On : 30 Jan 2014 16:07
Operator : PZ PZ1-AG5975
Sample : 1401014-03
Misc : A, CD1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 31 16:55:28 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 140101403.D\data.ms

(8) ACETONE (TMCP)

2.506min (+0.011) 0.39 ug/L

response 1794

Ion	Exp%	Act%
43.00	100	100
58.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0213

LSC Area Percent Report

Data Path : D:\DATA\L01302014\
Data File : 140101403.D
Acq On : 30 Jan 2014 16:07
Operator : PZ PZ1-AG5975
Sample : 1401014-03
Misc : A, CD1
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 140101403.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.940	198	201	214	rVB	16278	26383	7.91%	1.415%
2	5.502	1141	1151	1166	rBV4	76496	159119	47.69%	8.533%
3	6.150	1322	1324	1332	rVB2	4290	6276	1.88%	0.337%
4	6.233	1340	1346	1350	rBV2	5313	6423	1.93%	0.344%
5	6.529	1416	1425	1442	rVB3	133854	262810	78.77%	14.094%
6	7.087	1569	1574	1579	rBV2	4617	6830	2.05%	0.366%
7	8.620	1971	1983	1996	rBV3	177136	330689	99.12%	17.735%
8	10.337	2428	2441	2457	rVB3	200521	333628	100.00%	17.892%
9	11.646	2782	2790	2805	rBV3	168061	231744	69.46%	12.428%
10	12.661	3058	3061	3071	rVB	5643	9362	2.81%	0.502%
11	12.808	3088	3100	3111	rBV2	262340	333307	99.90%	17.875%
12	13.235	3206	3214	3221	rBV3	26406	40316	12.08%	2.162%
13	13.456	3267	3273	3278	rBV3	10852	13433	4.03%	0.720%
14	15.709	3871	3874	3878	rBV4	6383	6292	1.89%	0.337%
15	16.410	4056	4061	4066	rBV3	5218	7832	2.35%	0.420%
16	16.639	4116	4122	4127	rBV4	6132	11092	3.32%	0.595%
17	17.527	4355	4359	4365	rBV5	4750	6751	2.02%	0.362%
18	18.033	4492	4494	4496	rBV	10756	6544	1.96%	0.351%
19	18.569	4633	4637	4643	rVV3	5455	7998	2.40%	0.429%
20	18.607	4643	4647	4652	rVB4	6851	8783	2.63%	0.471%
21	18.689	4665	4669	4674	rVB5	5714	6137	1.84%	0.329%
22	18.791	4691	4696	4701	rVB4	6858	9171	2.75%	0.492%
23	18.828	4701	4706	4709	rBV5	6807	7090	2.13%	0.380%
24	18.892	4719	4723	4724	rVB3	9541	5959	1.79%	0.320%
25	19.000	4748	4752	4758	rBV6	7371	7182	2.15%	0.385%
26	19.165	4791	4796	4798	rBV2	9040	7396	2.22%	0.397%
27	19.222	4809	4811	4817	rVB4	7032	6116	1.83%	0.328%

Sum of corrected areas: 1864663

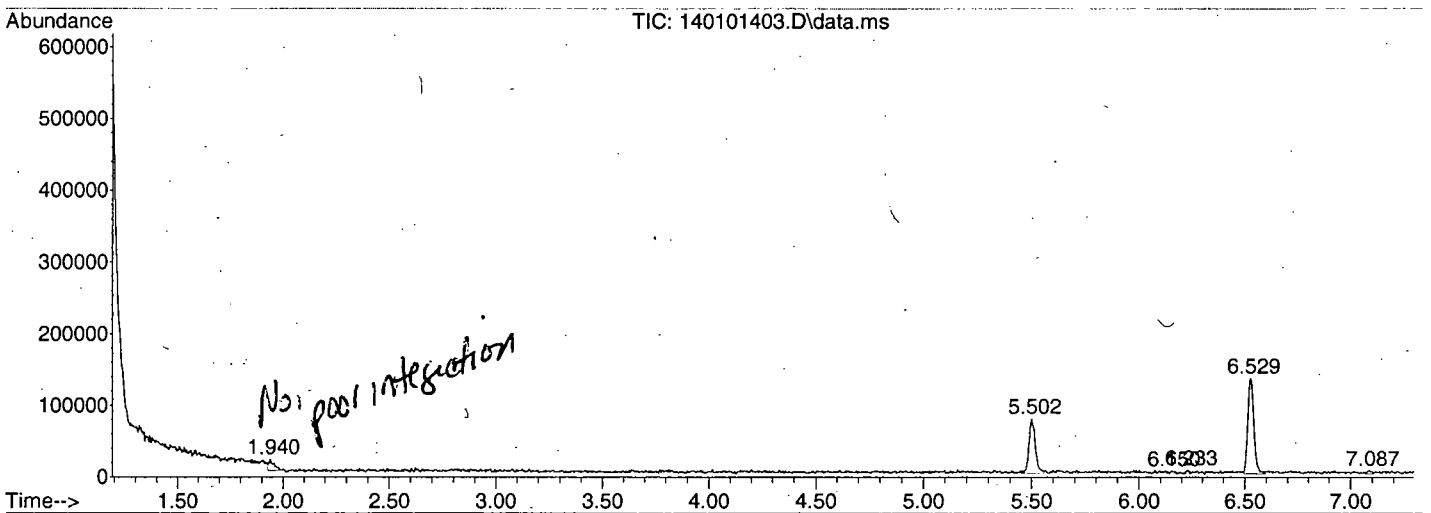
Freedom_0005792_0214

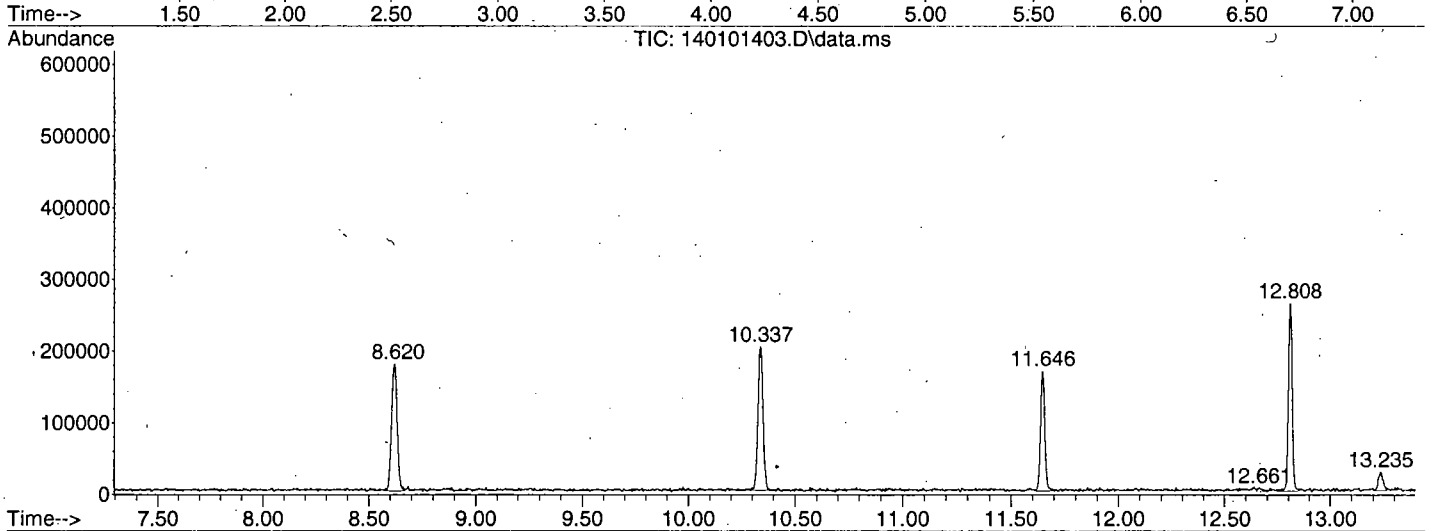
LSC Report - Integrated Chromatogram

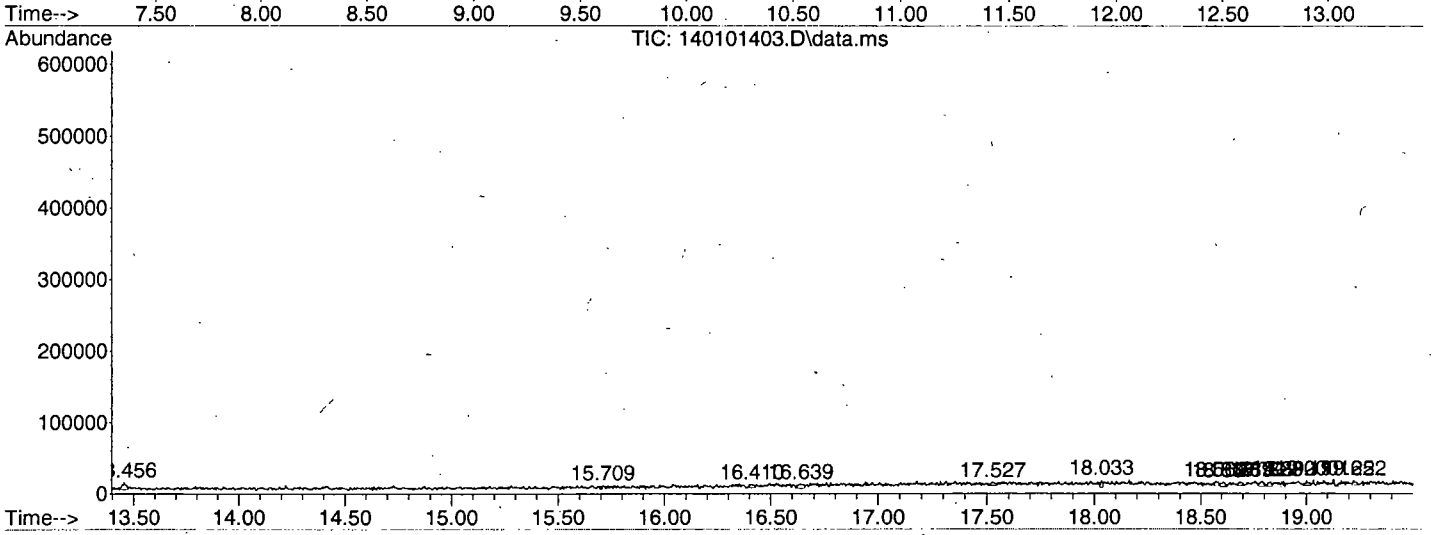
Data Path : D:\DATA\L01302014\
Data File : 140101403.D
Acq On : 30 Jan 2014 16:07
Operator : PZ PZ1-AG5975
Sample : 1401014-03
Misc : A, CD1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P







Freedom_0005792_0215

Library Search Compound Report

Data Path : D:\DATA\L01302014\
Data File : 140101403.D
Acq On : 30 Jan 2014 16:07
Operator : PZ PZ1-AG5975
Sample : 1401014-03
Misc : A, CD1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

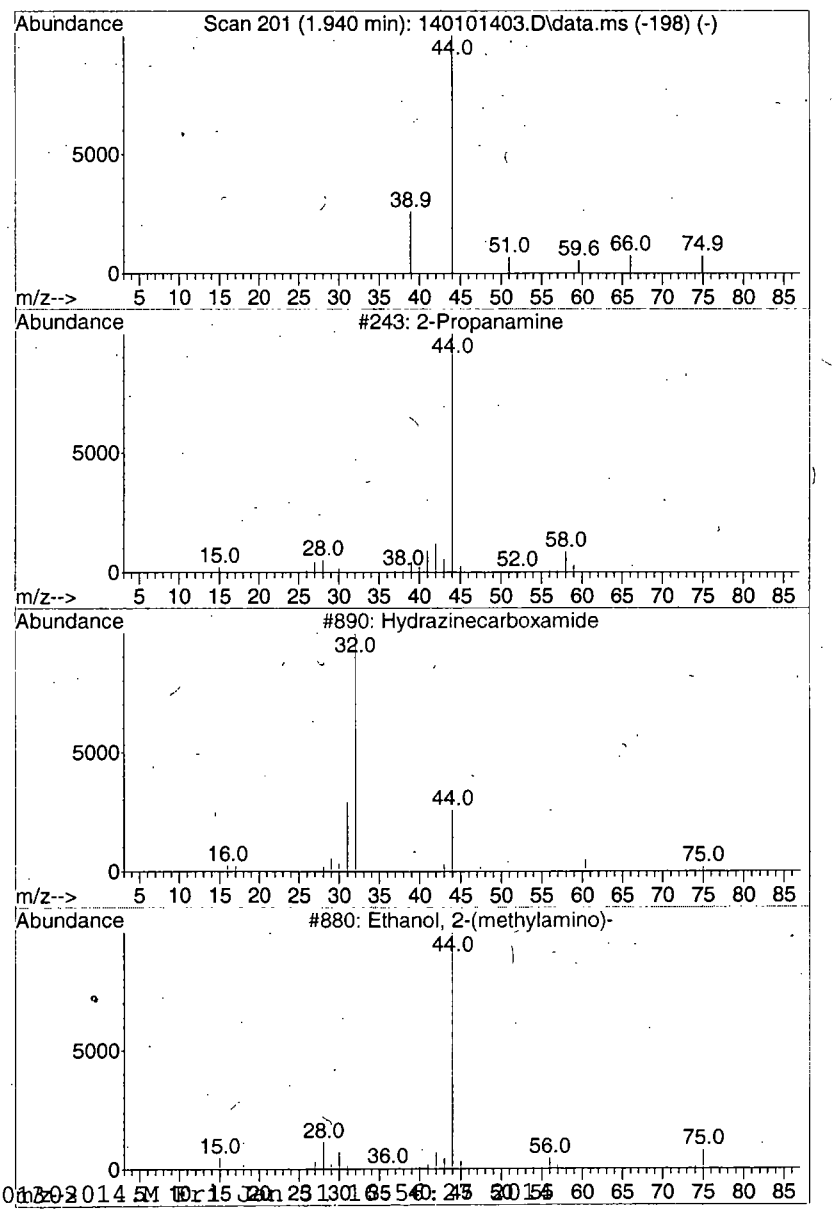
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

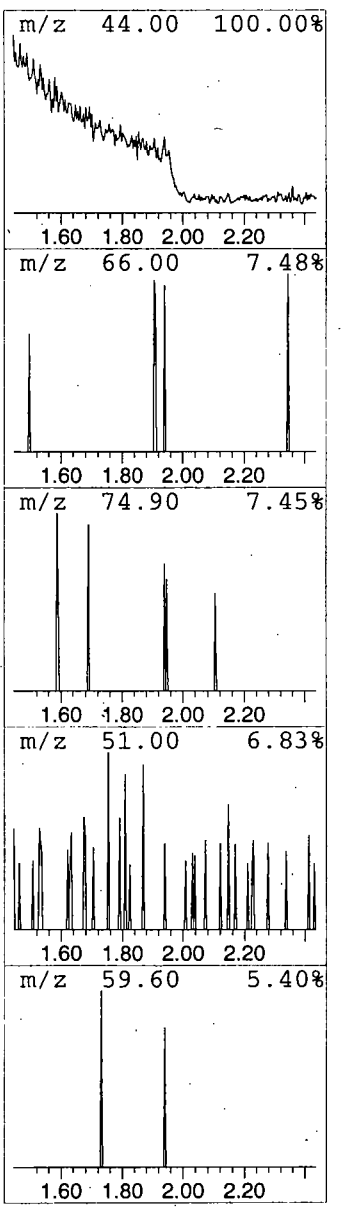
****

Peak Number 1 2-Propanamine Concentration Rank 2

R.T.	EstConc	Area No	Relative to ISTD	R.T.
1.940	0.50 ug/L	26383	1,4-DIFLUOROBENZENE	6.529

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanamine	59	C3H9N	000075-31-0	3
2	Hydrazinecarboxamide	75	CH5N3O	000057-56-7	3
3	Ethanol, 2-(methylamino)-	75	C3H9NO	000109-83-1	3
4	Ethylene oxide	44	C2H4O	000075-21-8	2
5	Carbon dioxide	44	CO2	000124-38-9	2





Data Path : D:\DATA\L01302014\
Data File : 140101403.D
Acq On : 30 Jan 2014 16:07
Operator : PZ PZ1-AG5975
Sample : 1401014-03
Misc : A, CD1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

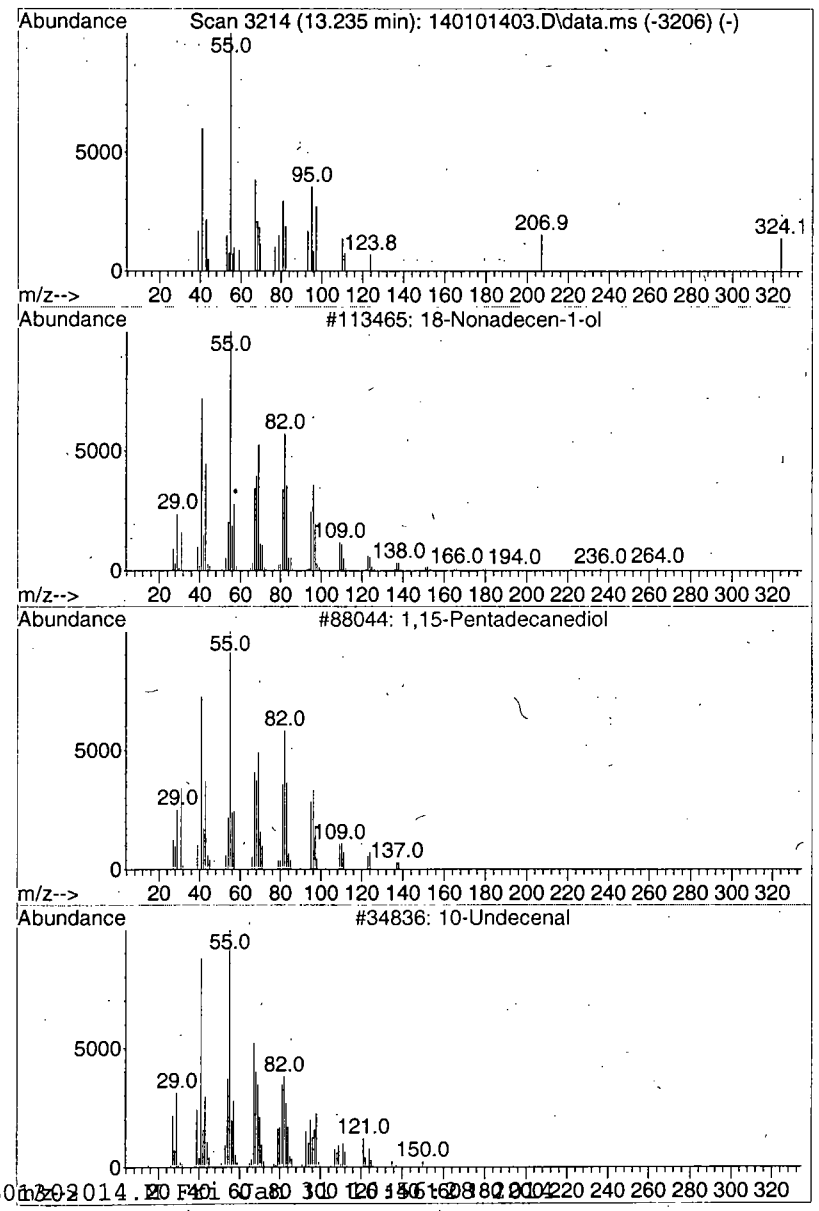
See next page for library search of m/z averaged across the top of the peak at this R.T.
low match - possibly due to background at low level.

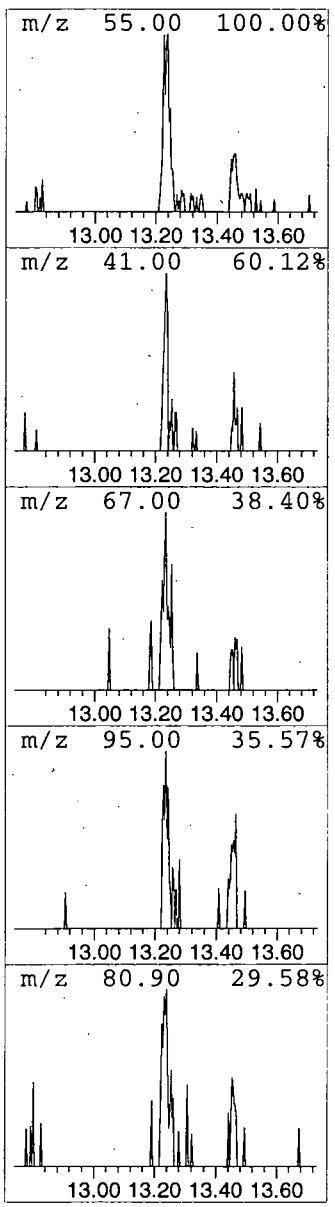
****

Peak Number 2 18-Nonadecen-1-ol Concentration Rank 1

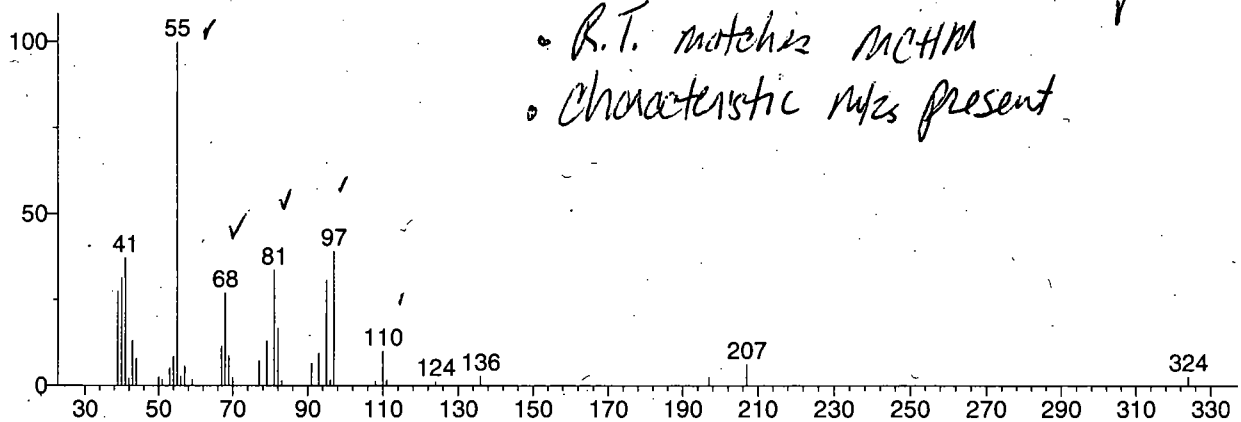
R.T.	EstConc	Area	Relative to ISTD	R.T.
13.235	0.60 ug/L	40316	1,4-DICHLOROBENZENE-d4	12.808

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	18-Nonadecen-1-ol	282	C19H38O	1000142-89-2	59
2	1,15-Pentadecanediol	244	C15H32O2	014722-40-8	40
3	10-Undecenal	168	C11H20O	000112-45-8	38
4	Cyclopropane, hexylidene-	124	C9H16	091509-06-7	38
5	1H-Indene, 5-butyl-6-hexyloctahy...	264	C19H36	055044-36-5	38



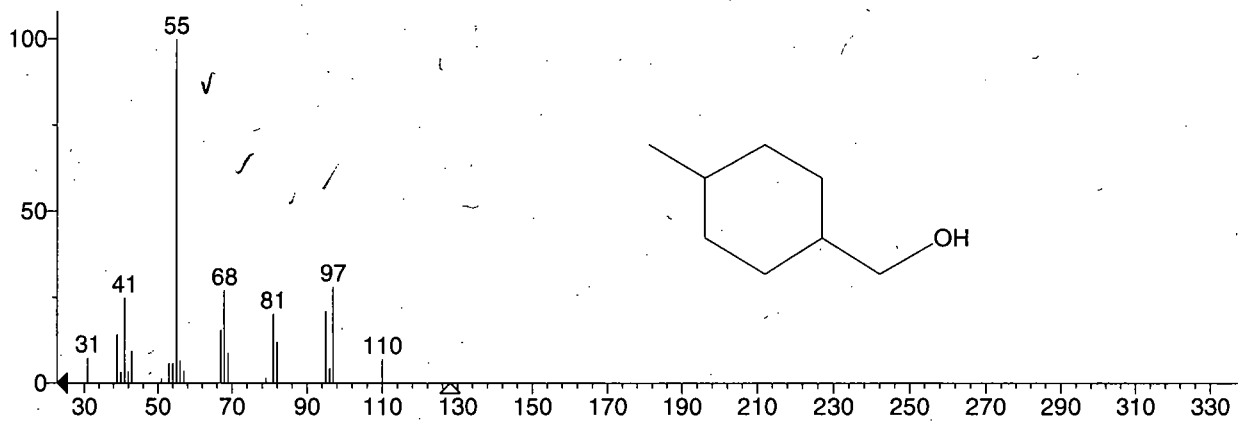


Unknown: Average of 13.224 to 13.243 min.: 140101403.D\data.ms
Compound in Library Factor = -825

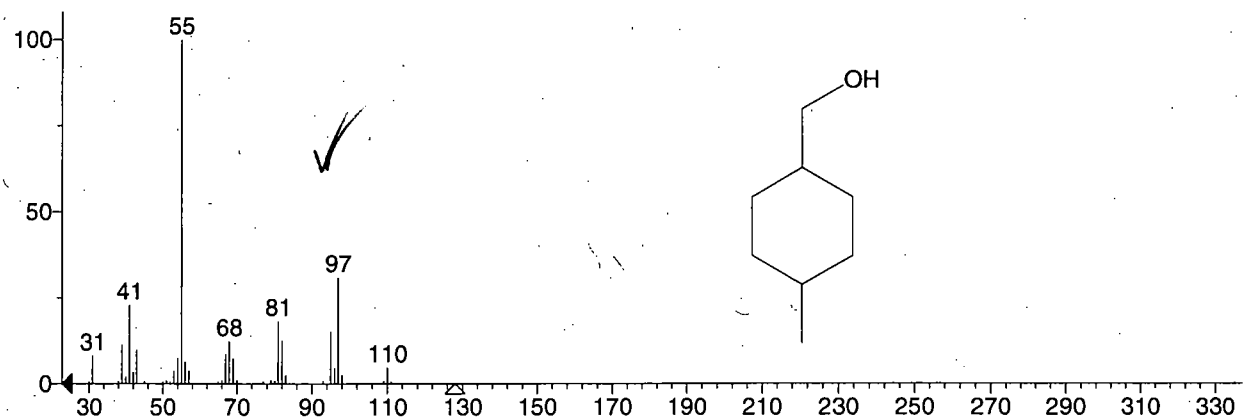


• R.T. matches MCHM
• Characteristic m/z's present

Hit 1 : Cyclohexanemethanol, 4-methyl-, cis-
C8H16O; MF: 726; RMF: 830; Prob 18.8%; CAS: 3937-48-2; Lib: mainlib; ID: 18228.

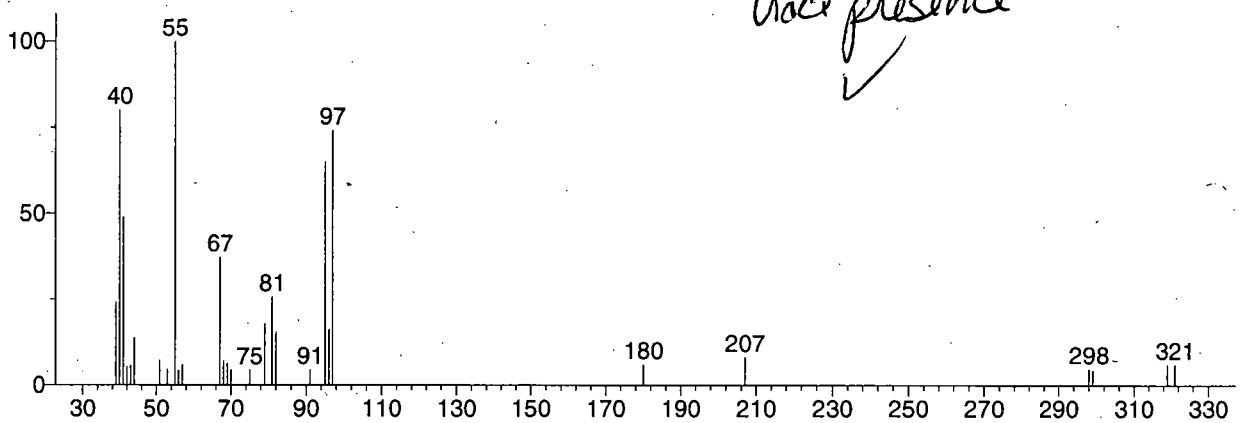


Hit 2 : Cyclohexanemethanol, 4-methyl-, trans-
C8H16O; MF: 723; RMF: 789; Prob 16.6%; CAS: 3937-49-3; Lib: mainlib; ID: 18215.

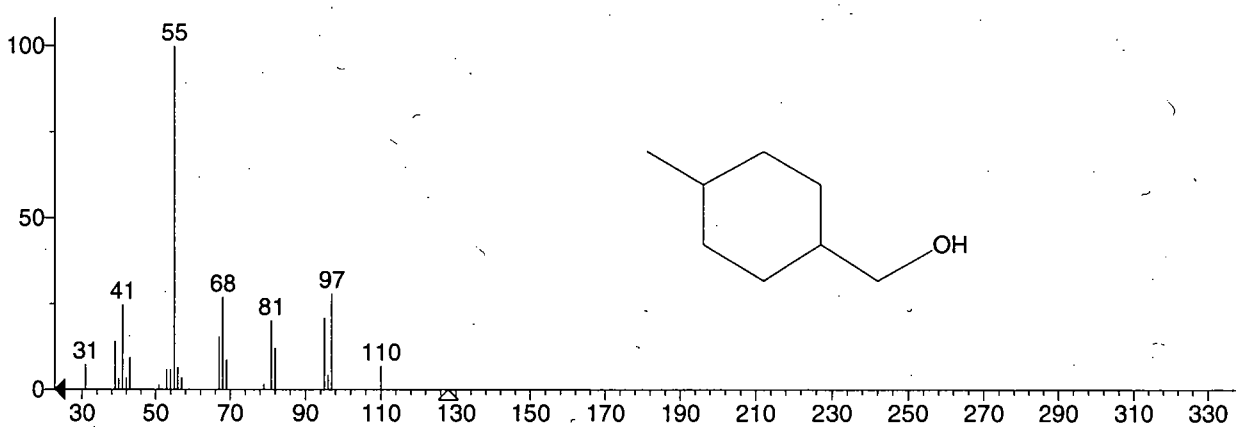


Unknown: Average of 13.445 to 13.467 min.: 140101403.D\data.ms
Compound in Library Factor = -1163

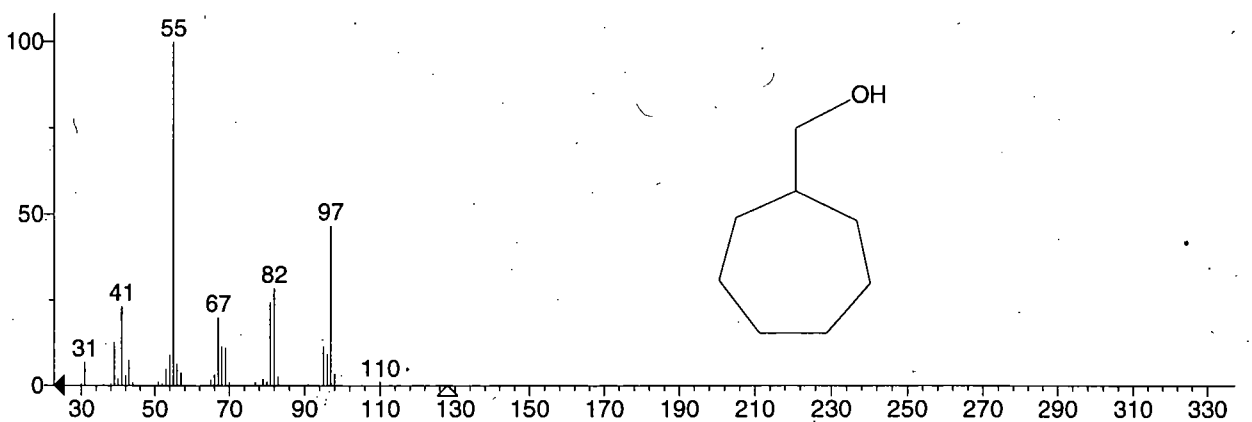
trace presence



Hit 1 : Cyclohexanemethanol, 4-methyl-, cis-
C8H16O; MF: 633; RMF: 741; Prob 19.8%; CAS: 3937-48-2; Lib: mainlib; ID: 18228.



Hit 2 : Cycloheptanemethanol
C8H16O; MF: 629; RMF: 724; Prob 16.7%; CAS: 4448-75-3; Lib: replib; ID: 4696.



Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L01302014\
Data File : 140101403.D
Acq On : 30 Jan 2014 . 16:07
Operator : PZ PZ1-AG5975
Sample : 1401014-03
Misc : A, CD1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
2-Propanamine	1.940	0.5	ug/L	26383	1	6.529	262810	5.0
18-Nonadecen-1-ol	13.235	0.6	ug/L	40316	3	12.808	333307	5.0

Freedom_0005792_0220

Quantitation Report (QT Reviewed)

1 TTC

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:08:31 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.525	114	102980	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.341	117	99248	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	48183	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.509	65	58145	5.39	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 107.80%		
41) TOLUENE-d8	8.620	98	119027	4.65	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 93.00%		
59) 4-BROMOFLUOROBENZENE	11.645	95	44164	4.88	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 97.60%		
Target Compounds						Qvalue
8) ACETONE	2.506	43	2143m	0.43	ug/L	
10) METHYLENE CHLORIDE	2.994	84	769	0.09	ug/L #	59
42) TOLUENE	8.699	92	2976m	0.15	ug/L	

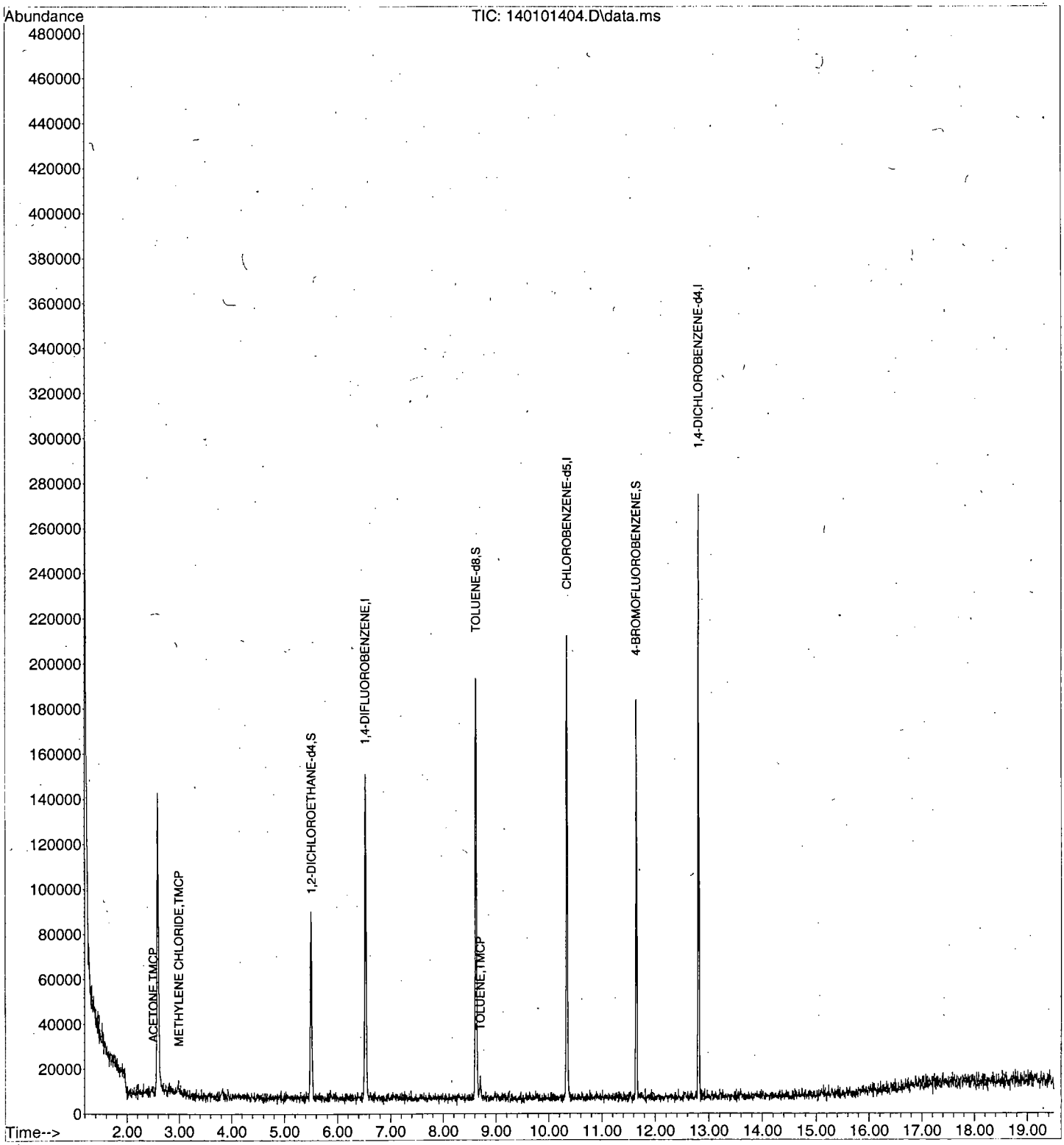
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0221

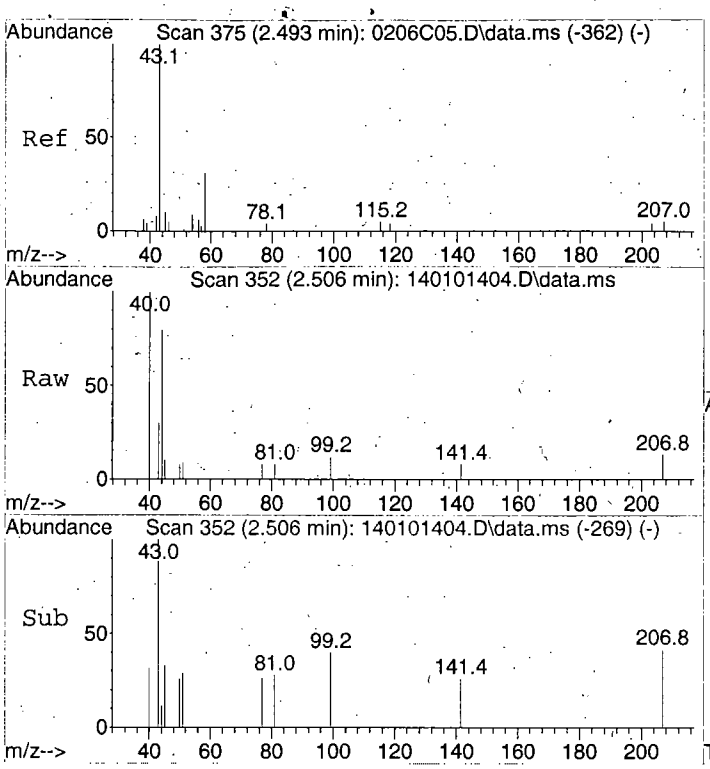
Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:08:31 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



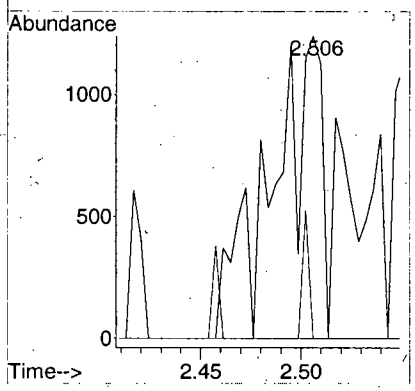
Freedom_0005792_0222

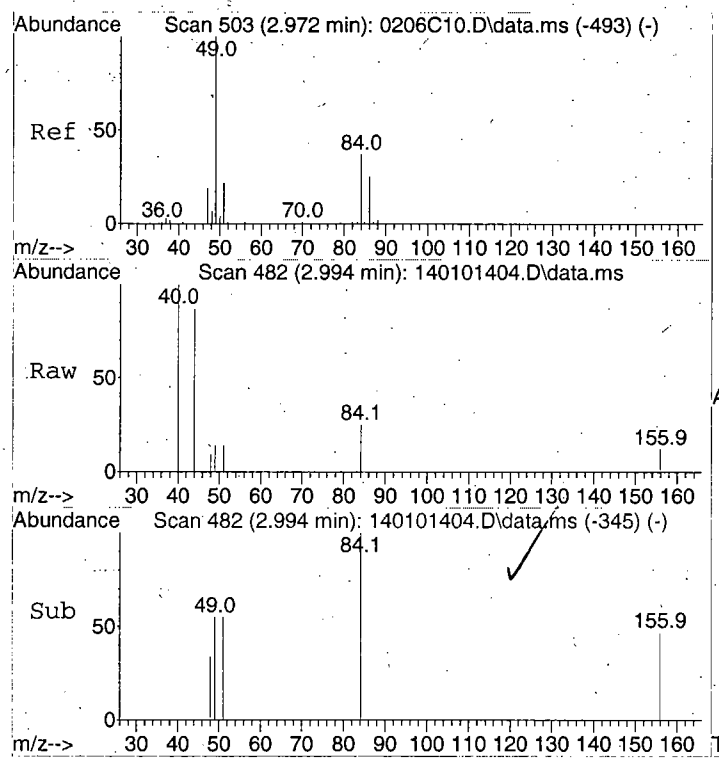


#8
ACETONE
Concen: 0.43 ug/L m
RT: 2.506 min Scan# 352
Delta R.T. 0.011 min
Lab File: 140101404.D
Acq: 30 Jan 2014 14:44

Tgt Ion: 43 Resp: 2143

Ion	Ratio	Lower	Upper
43	100		
58	0.0	22.5	33.7#

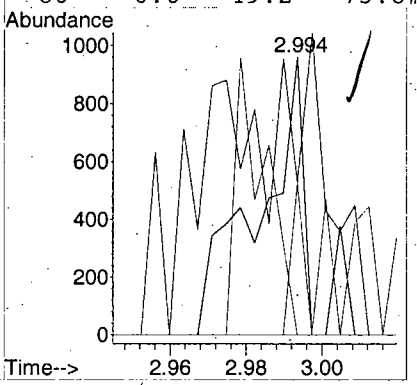




#10
METHYLENE CHLORIDE
Concen: 0.09 ug/L
RT: 2.994 min Scan# 482
Delta R.T. 0.015 min
Lab File: 140101404.D
Acq: 30 Jan 2014 14:44

Tgt Ion: 84 Resp: 769

Ion	Ratio	Lower	Upper
84	100		
49	110.3	102.1	153.1
51	0.0	31.0	46.6#
86	0.0	49.2	73.8#

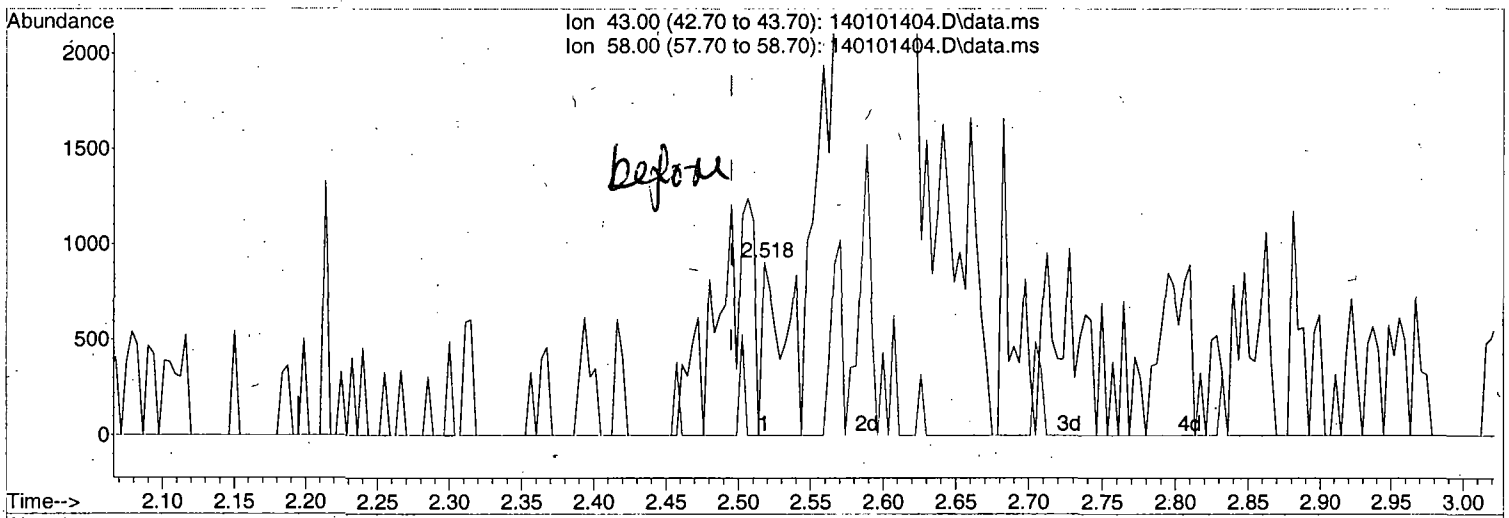


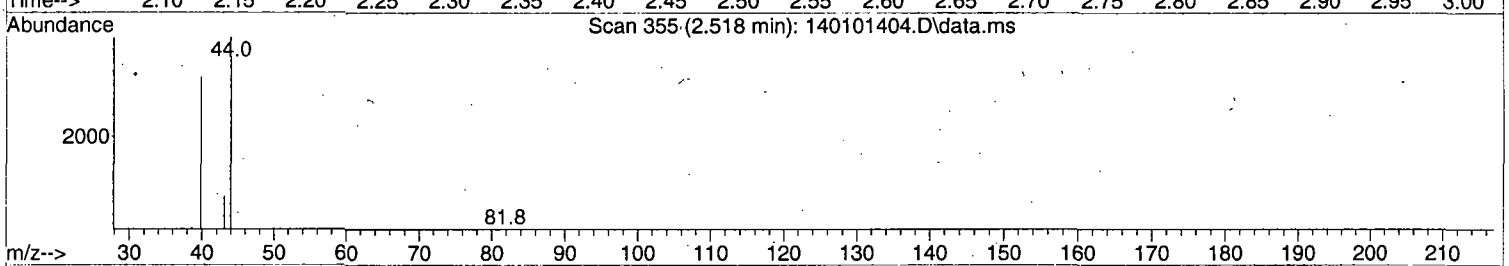
Freedom_0005792_0223

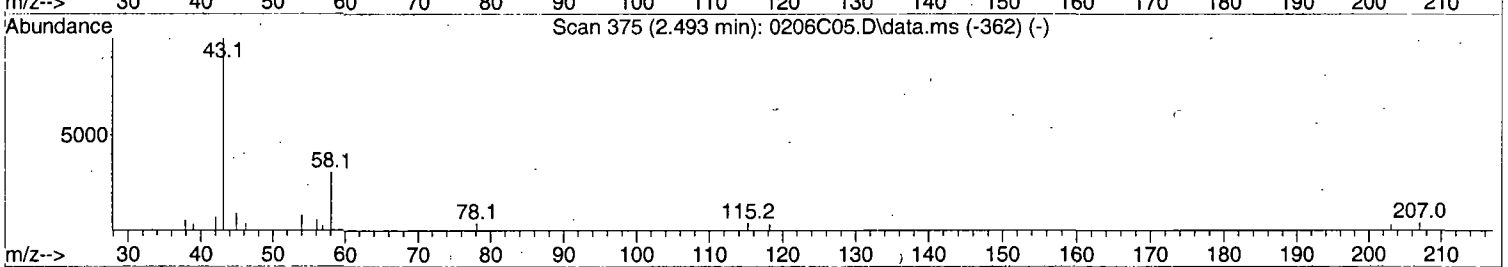
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:05:13 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 140101404.D\data.ms

(8) ACETONE (TMCP)

2.518min (+0.022) 0.21 ug/L

response 1026

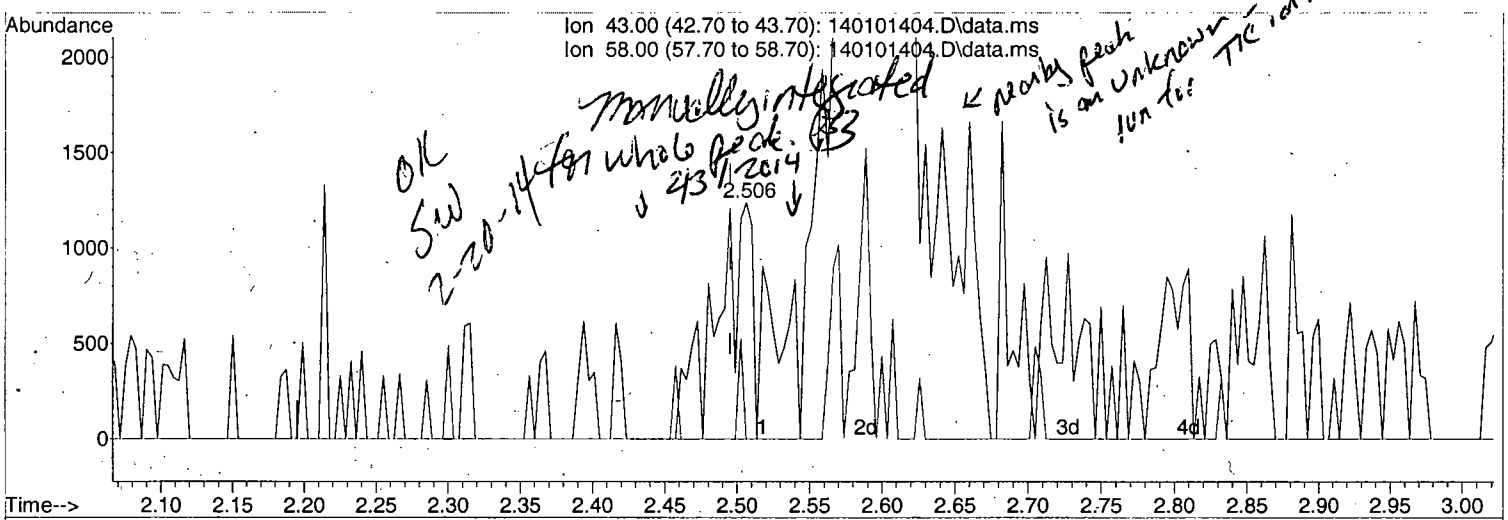
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

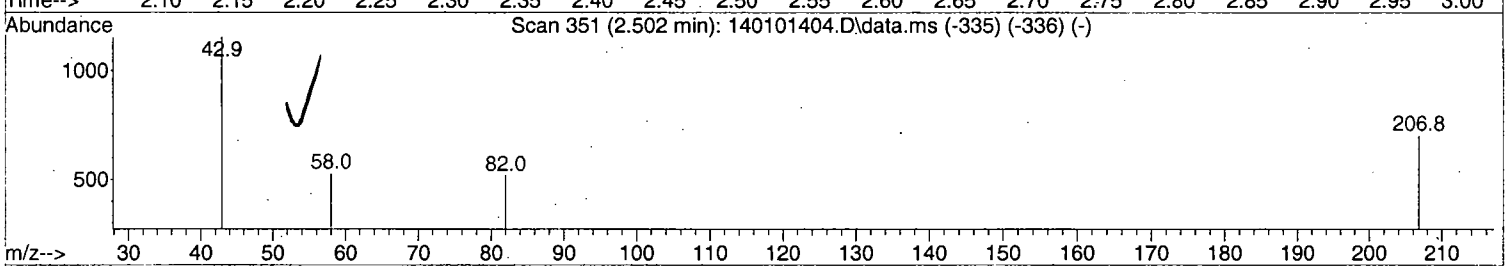
Freedom_0005792_0224

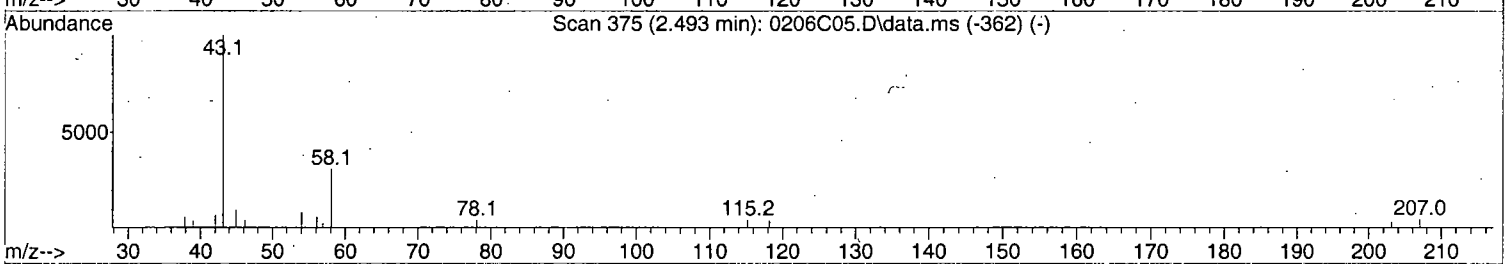
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:05:13 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 140101404.D\data.ms

(8) ACETONE (TMCP)

2.506min (+0.011) 0.43 ug/L m

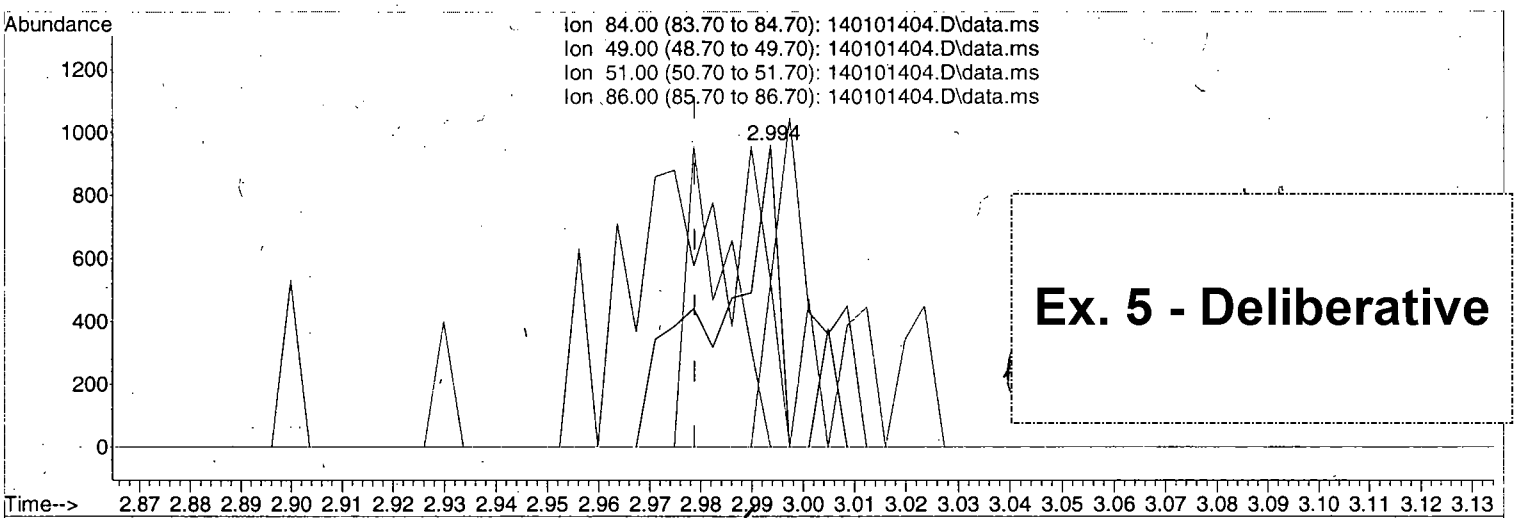
response 2143

Ion	Exp%	Act%
43.00	100	100
58.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

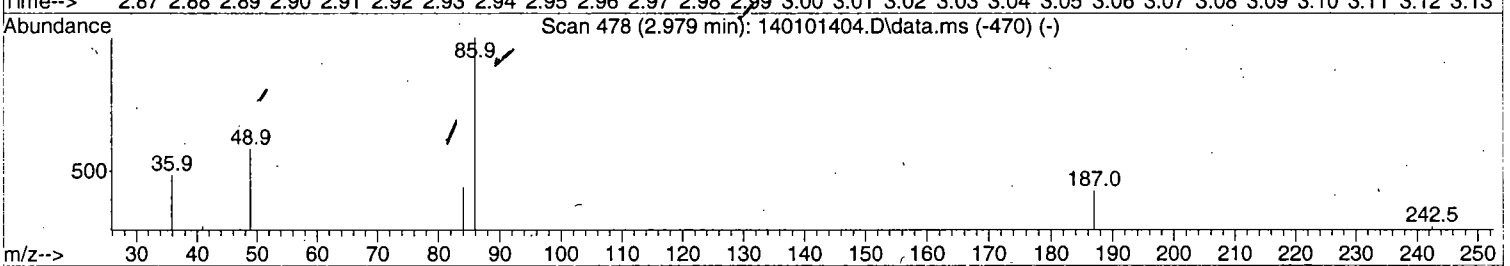
Quantitation Report (Qedit)

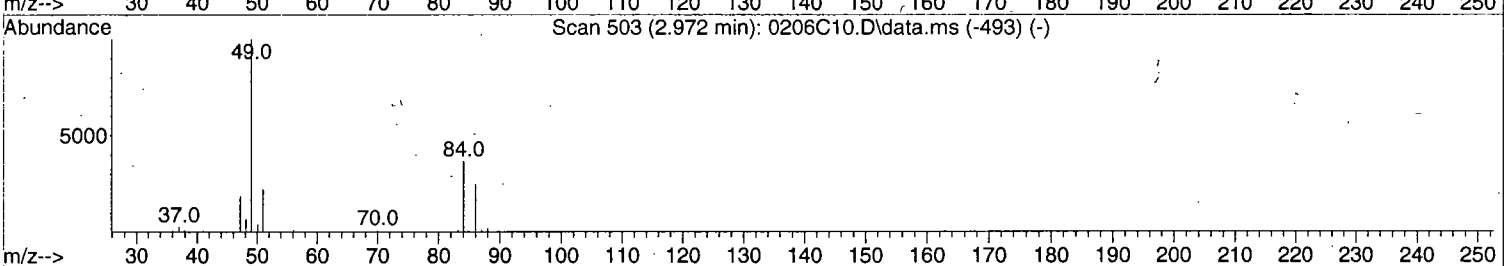
Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:05:13 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



Ex. 5 - Deliberative





TIC: 140101404.D\data.ms

(10) METHYLENE CHLORIDE (TMCP)

2.994min (+0.015) 0.09 ug/L

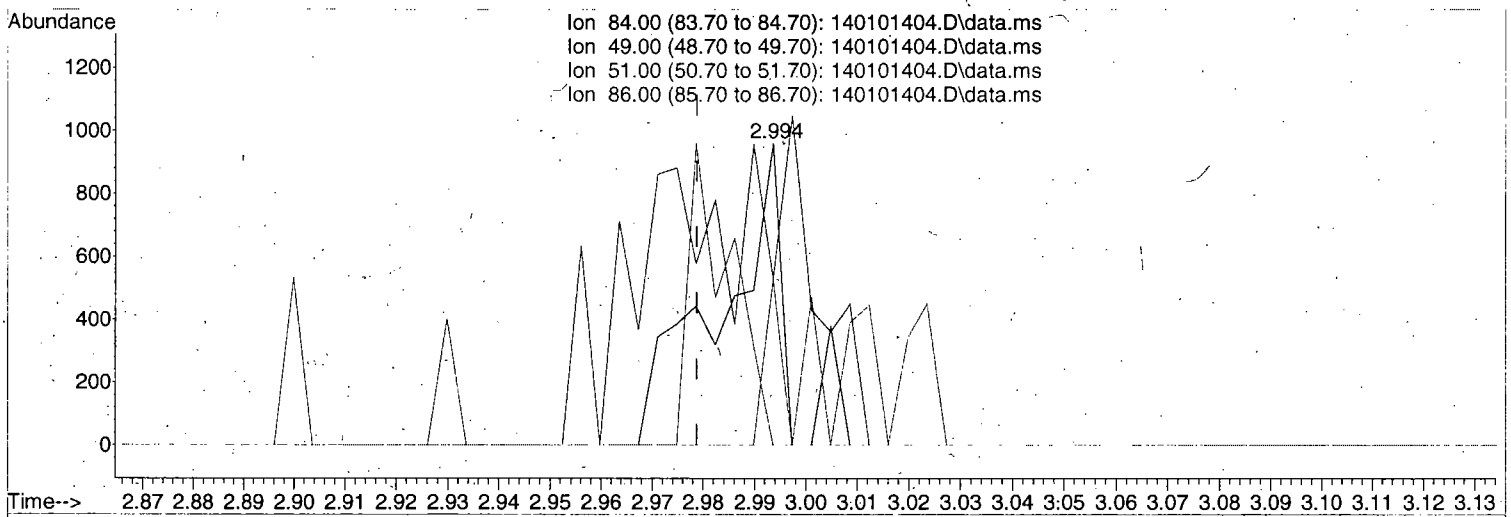
response 769

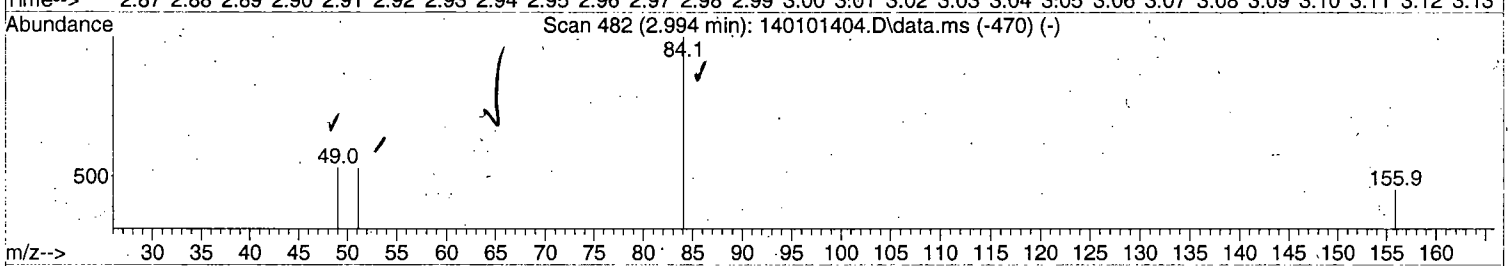
Ion	Exp%	Act%
84.00	100	100
49.00	127.60	110.27
51.00	38.80	0.00#
86.00	61.50	0.00#

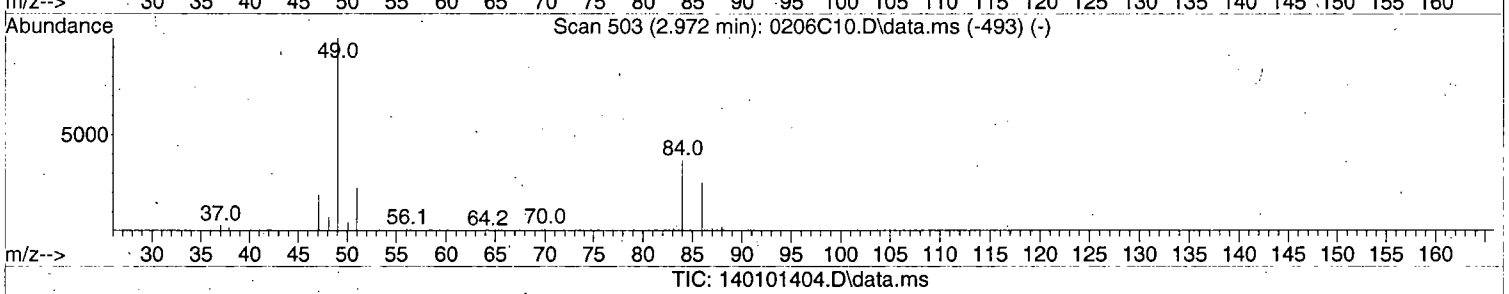
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:05:13 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 140101404.D\data.ms

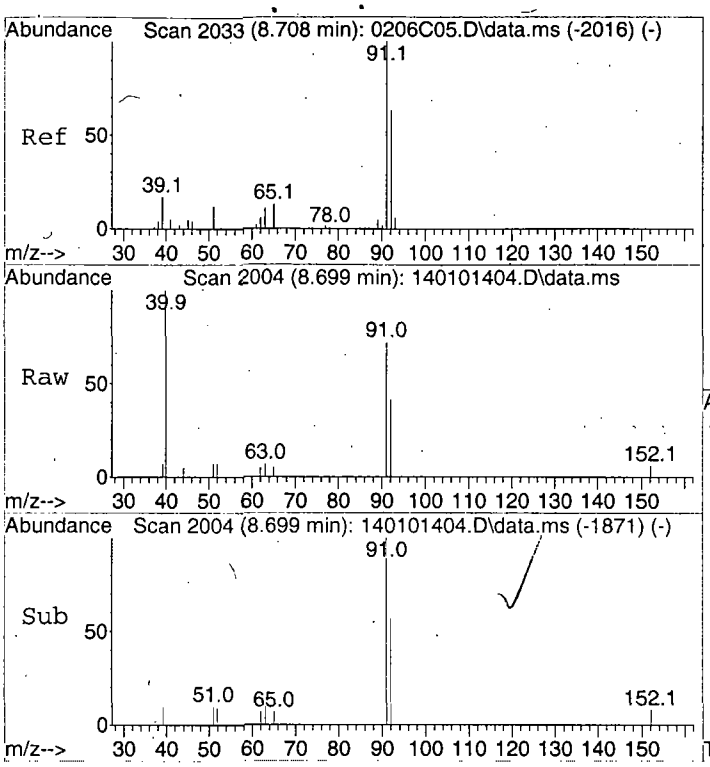
(10) METHYLENE CHLORIDE (TMCP)

2.994min (+0.015) 0.09 ug/L

response 769

Ion	Exp%	Act%
84.00	100	100
49.00	127.60	110.27
51.00	38.80	0.00#
86.00	61.50	0.00#

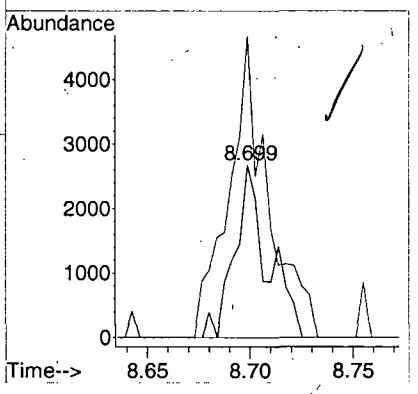
Freedom_0005792_0227



#42
TOLUENE
Concen: 0.15 ug/L m
RT: 8.699 min Scan# 2004
Delta R.T. -0.000 min
Lab File: 140101404.D
Acq: 30 Jan 2014 14:44

Tgt Ion: 92 Resp: 2976

Ion	Ratio	Lower	Upper
92	100		
91	208.9	139.3	208.9

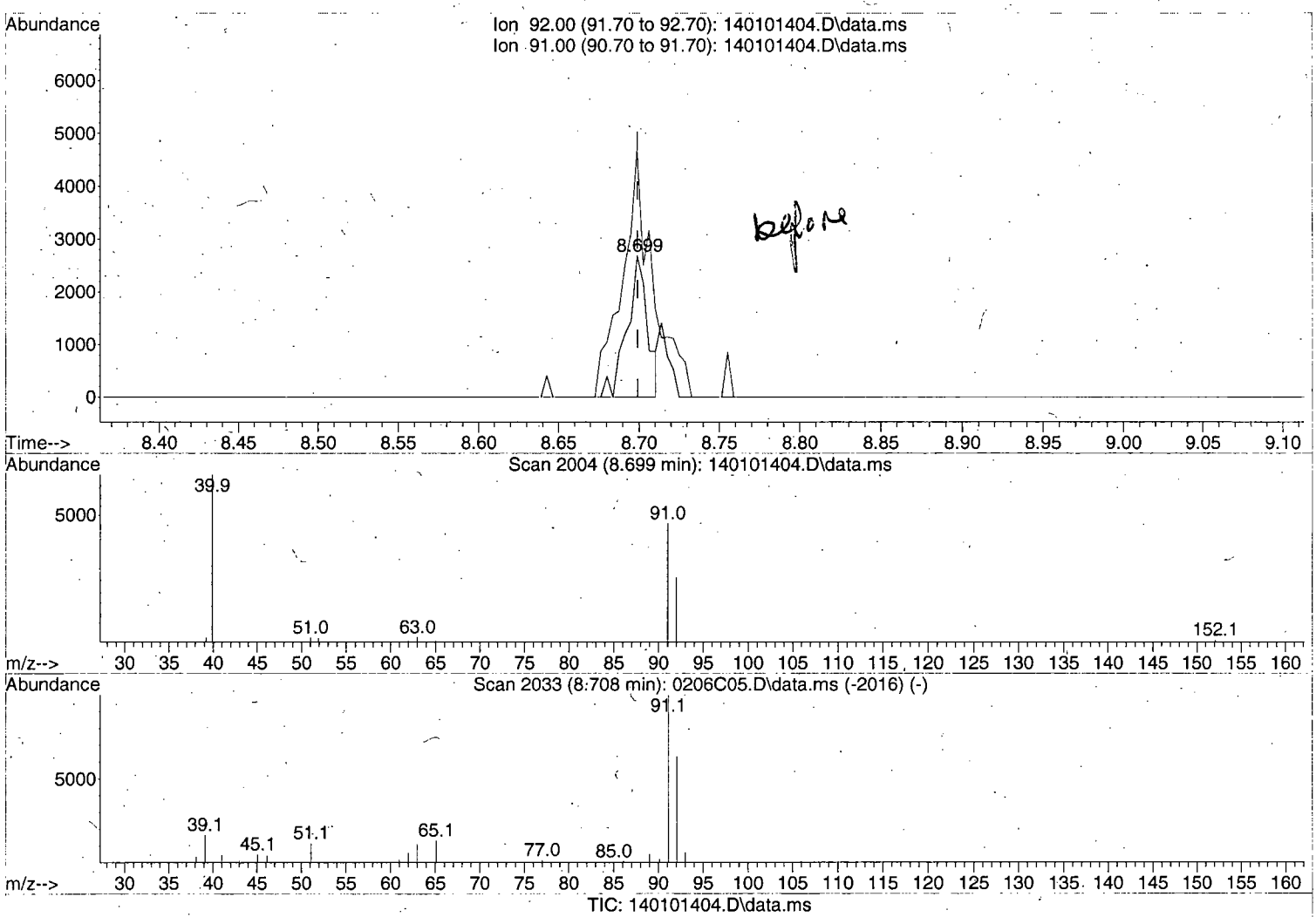


Freedom_0005792_0228

Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:05:13 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



(42) TOLUENE (TMCP)

8.699min (-0.000) 0.12 ug/L

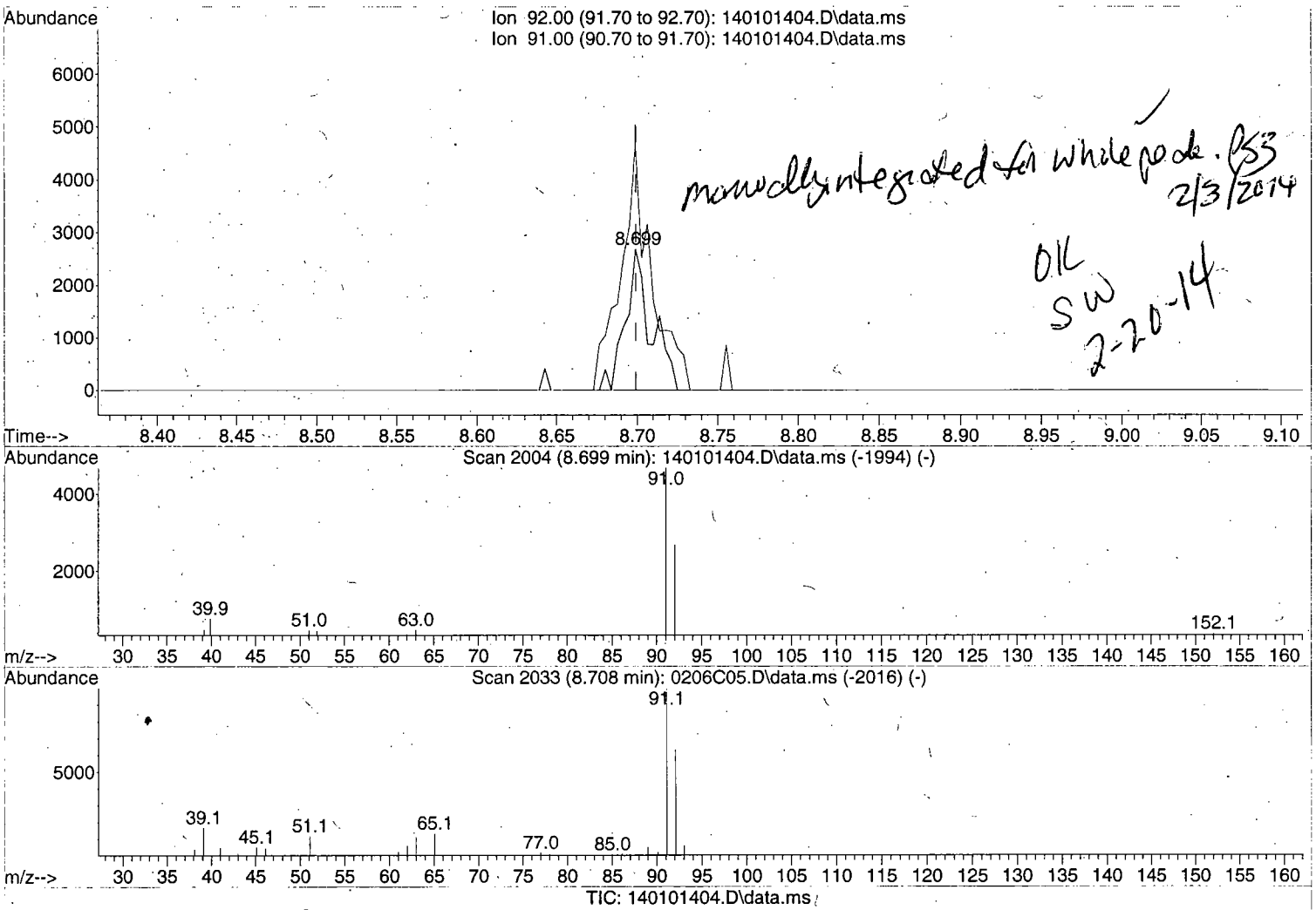
response 2363

Ion	Exp%	Act%
92.00	100	100
91.00	174.10	263.06#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:05:13 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



manually integrated for whole peak. PS 2/3/2014

OK SW 2-20-14

(42) TOLUENE (TMCP)

8.699min (-0.000) 0.15 ug/L m

response 2976

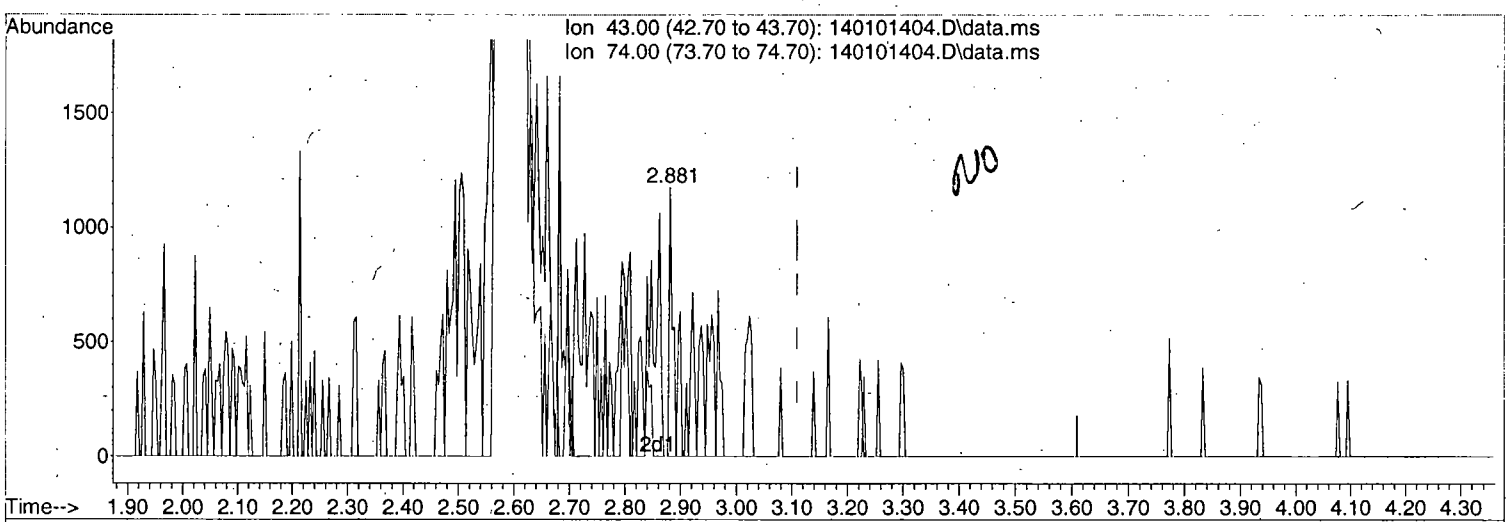
Ion	Exp%	Act%
92.00	100	100
91.00	174.10	208.87
0.00	0.00	0.00
0.00	0.00	0.00

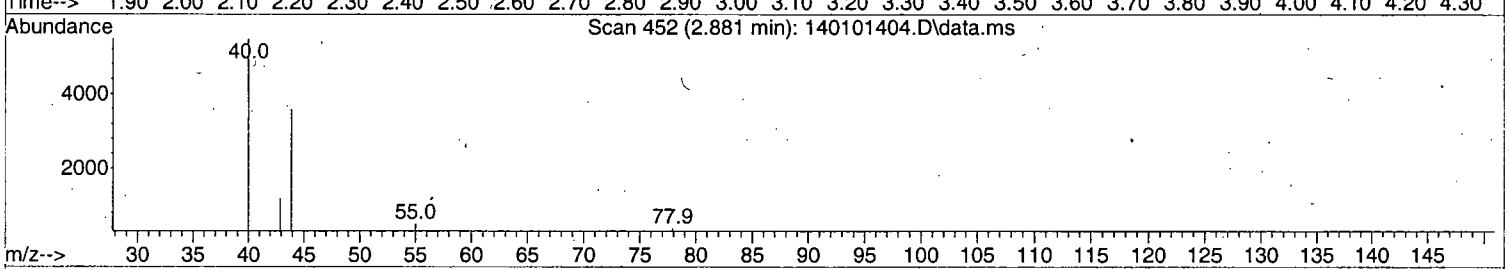
Freedom_0005792_0230

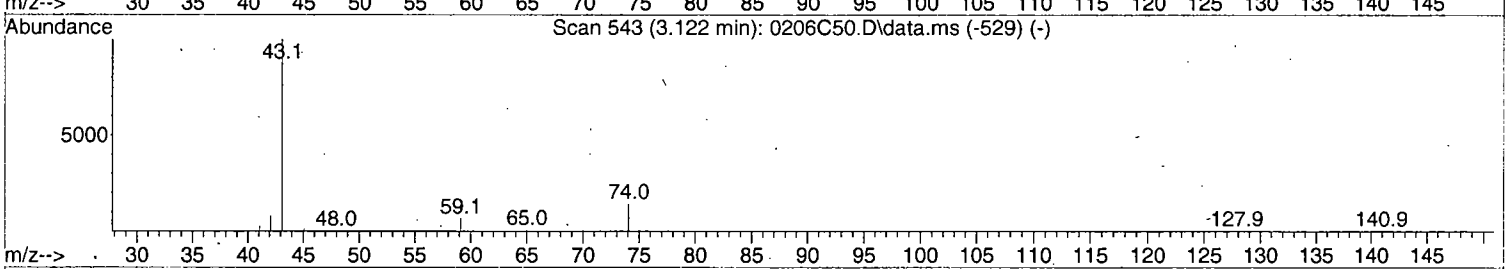
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:05:13 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 140101404.D\data.ms

(13) METHYL ACETATE (TMCP)

2.881min (-0.229) 0.07 ug/L

response 516

Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0231

LSC Area Percent Report

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 140101404.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.442	66	68	73	rVB	12414	8192	2.34%	0.331%
2	1.745	145	149	153	rBV3	6140	5607	1.60%	0.227%
3	1.805	163	165	169	rVB	6681	4165	1.19%	0.168%
4	2.004	217	218	222	rBV2	5934	3994	1.14%	0.161%
5	2.184	263	266	271	rVB3	6802	6543	1.87%	0.265%
6	2.214	271	274	276	rBV2	7240	4844	1.38%	0.196%
7	2.394	320	322	327	rVB2	4337	4283	1.22%	0.173%
8	2.461	335	340	344	rBV2	3916	5964	1.70%	0.241%
9	2.589	362	374	392	rBV2	134609	300123	85.74%	12.133%
10	2.735	408	413	418	rVB3	5502	6388	1.82%	0.258%
11	3.110	510	513	518	rVB2	4546	4852	1.39%	0.196%
12	3.237	542	547	551	rVB2	3401	4423	1.26%	0.179%
13	3.421	593	596	601	rVB2	5066	3905	1.12%	0.158%
14	3.481	610	612	618	rVB2	4051	4444	1.27%	0.180%
15	3.728	673	678	679	rVB2	4214	3968	1.13%	0.160%
16	3.818	691	702	703	rBV3	3945	6237	1.78%	0.252%
17	3.923	726	730	738	rBV2	5711	7095	2.03%	0.287%
18	4.377	850	851	858	rBV	3741	3853	1.10%	0.156%
19	4.617	911	915	917	rBV2	4711	3810	1.09%	0.154%
20	4.834	971	973	979	rVB2	4135	5379	1.54%	0.217%
21	4.860	979	980	985	rBV2	4783	4603	1.31%	0.186%
22	5.501	1140	1151	1163	rBV2	84405	161648	46.18%	6.535%
23	6.529	1409	1425	1441	rBV2	146086	278225	79.48%	11.248%
24	6.783	1487	1493	1496	rVB	3436	4386	1.25%	0.177%
25	6.870	1515	1516	1523	rBV2	4002	5052	1.44%	0.204%
26	7.728	1739	1745	1748	rBV2	4310	4433	1.27%	0.179%
27	7.897	1786	1790	1796	rVB	4540	5824	1.66%	0.235%
28	8.253	1880	1885	1886	rVB	4504	4403	1.26%	0.178%
29	8.620	1972	1983	1996	rBV2	187551	350049	100.00%	14.152%
30	8.699	1996	2004	2013	rVV4	10032	15131	4.32%	0.612%
31	8.980	2077	2079	2086	rVB2	4636	4985	1.42%	0.202%
32	9.021	2086	2090	2095	rBV2	3897	4201	1.20%	0.170%
33	9.475	2207	2211	2212	rVB2	5324	4072	1.16%	0.165%
34	9.561	2226	2234	2236	rBV	4515	6042	1.73%	0.244%
35	10.217	2400	2409	2411	rVB2	3258	4556	1.30%	0.184%
36	10.341	2428	2442	2455	rBV4	206127	346353	98.94%	14.002%
37	10.491	2477	2482	2487	rBV2	3619	4439	1.27%	0.179%
38	11.008	2616	2620	2627	rVB2	5909	6672	1.91%	0.270%
39	11.574	2770	2771	2777	rBV2	4273	4010	1.15%	0.162%

Freedom_0005792_0232

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

40	11.649	2781	2791	2800	rVV2	178468	242846	69.37%	9.818%
41	11.814	2833	2835	2840	rVB2	6767	4412	1.26%	0.178%
42	12.241	2947	2949	2954	rBV2	3347	3838	1.10%	0.155%
43	12.369	2980	2983	2988	rBV	4815	4222	1.21%	0.171%
44	12.429	2996	2999	3008	rBV	4999	4375	1.25%	0.177%
45	12.530	3024	3026	3029	rBV2	4874	4058	1.16%	0.164%
46	12.564	3029	3035	3038	rVV2	2989	4910	1.40%	0.199%
47	12.808	3093	3100	3110	rVB2	270263	346989	99.13%	14.028%
48	12.849	3110	3111	3116	rBV2	5879	4327	1.24%	0.175%
49	12.920	3128	3130	3137	rBV2	5687	4159	1.19%	0.168%
50	12.969	3137	3143	3147	rBV2	4157	3945	1.13%	0.159%
51	13.051	3162	3165	3168	rBV2	4602	4213	1.20%	0.170%
52	14.011	3416	3421	3428	rVB3	4222	5368	1.53%	0.217%
53	14.798	3628	3631	3637	rBV2	4605	4884	1.40%	0.197%
54	14.881	3648	3653	3656	rBV3	4226	4840	1.38%	0.196%
55	15.015	3685	3689	3691	rVB2	4986	4489	1.28%	0.181%
56	15.045	3694	3697	3703	rBV3	4787	4598	1.31%	0.186%
57	15.207	3739	3740	3745	rBV2	4269	4475	1.28%	0.181%
58	15.420	3793	3797	3802	rVB4	5786	5484	1.57%	0.222%
59	15.454	3802	3806	3809	rVB3	5281	4078	1.16%	0.165%
60	15.983	3944	3947	3950	rBV2	4211	4077	1.16%	0.165%
61	16.028	3953	3959	3965	rVV3	5701	9683	2.77%	0.391%
62	16.065	3966	3969	3972	rVB	6808	4114	1.18%	0.166%
63	16.402	4054	4059	4060	rBV2	5573	4781	1.37%	0.193%
64	16.601	4110	4112	4117	rVB3	6079	5370	1.53%	0.217%
65	16.759	4151	4154	4157	rVB2	4770	4060	1.16%	0.164%
66	16.879	4182	4186	4189	rVB2	5152	4220	1.21%	0.171%
67	17.028	4224	4226	4230	rVB2	6528	5130	1.47%	0.207%
68	17.145	4252	4257	4259	rBV4	5432	5579	1.59%	0.226%
69	17.190	4267	4269	4273	rVB3	8129	6879	1.97%	0.278%
70	17.220	4274	4277	4281	rVV4	5084	5257	1.50%	0.213%
71	17.336	4307	4308	4312	rVB2	4529	3959	1.13%	0.160%
72	17.400	4323	4325	4330	rVB3	6202	4906	1.40%	0.198%
73	17.613	4379	4382	4387	rVB5	5925	5966	1.70%	0.241%
74	17.666	4393	4396	4399	rVB3	6620	5400	1.54%	0.218%
75	17.714	4408	4409	4413	rVB3	4882	3924	1.12%	0.159%
76	17.733	4413	4414	4421	rBV2	5686	8287	2.37%	0.335%
77	17.789	4428	4429	4436	rBV3	3849	4630	1.32%	0.187%
78	17.913	4458	4462	4463	rVB2	5545	3809	1.09%	0.154%
79	17.996	4483	4484	4489	rBV4	5222	4297	1.23%	0.174%
80	18.044	4493	4497	4501	rBV3	8142	9026	2.58%	0.365%
81	18.078	4504	4506	4509	rVB2	7663	4699	1.34%	0.190%

Freedom_0005792_0233

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

82	18.112	4509	4515	4516	rBV3	4817	5053	1.44%	0.204%
83	18.179	4530	4533	4536	rBV2	7304	5641	1.61%	0.228%
84	18.266	4552	4556	4557	rBV4	6275	6264	1.79%	0.253%
85	18.374	4583	4585	4591	rVB3	5071	5065	1.45%	0.205%
86	18.595	4642	4644	4649	rBV4	6411	5324	1.52%	0.215%
87	18.693	4665	4670	4676	rBV5	7279	12350	3.53%	0.499%
88	18.734	4679	4681	4688	rVB5	7150	8483	2.42%	0.343%
89	18.772	4688	4691	4695	rBV2	8129	6511	1.86%	0.263%
90	19.038	4758	4762	4764	rBV3	5208	4763	1.36%	0.193%
91	19.049	4764	4765	4769	rBV3	5544	4011	1.15%	0.162%
92	19.311	4834	4835	4839	rVB4	5622	4338	1.24%	0.175%

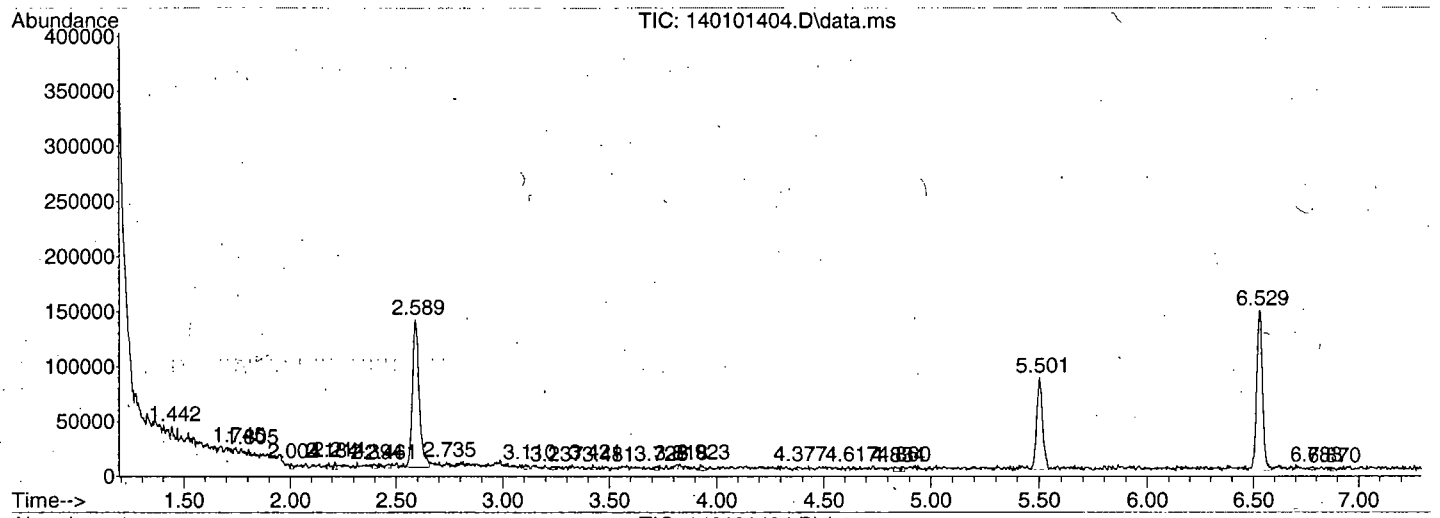
Sum of corrected areas: 2473519

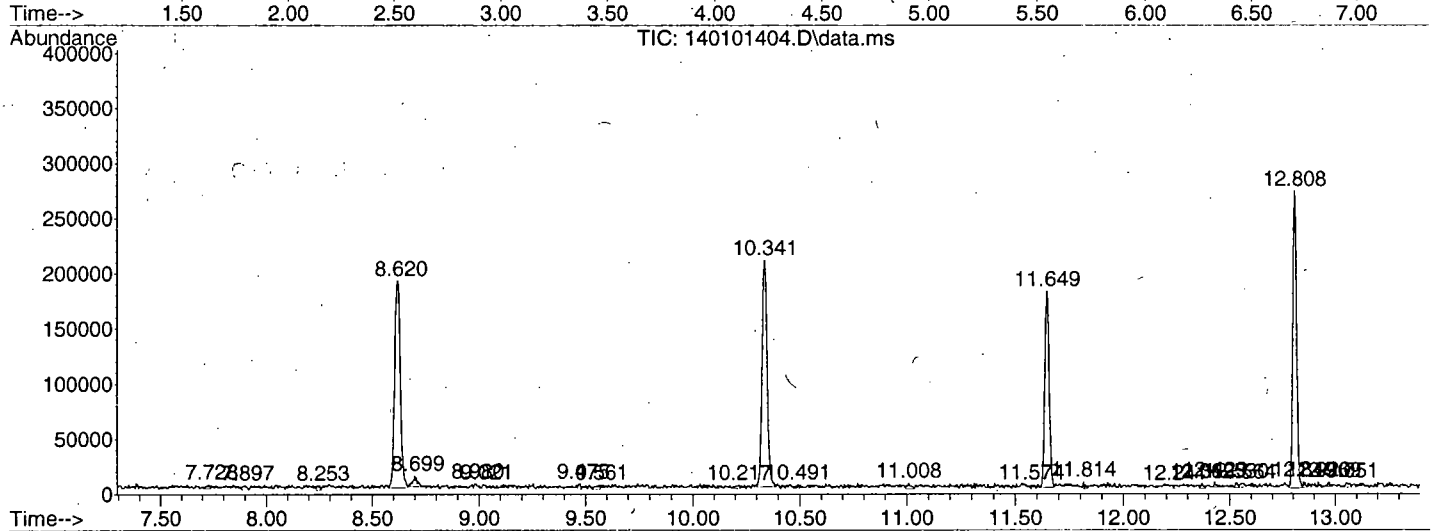
Freedom_0005792_0234

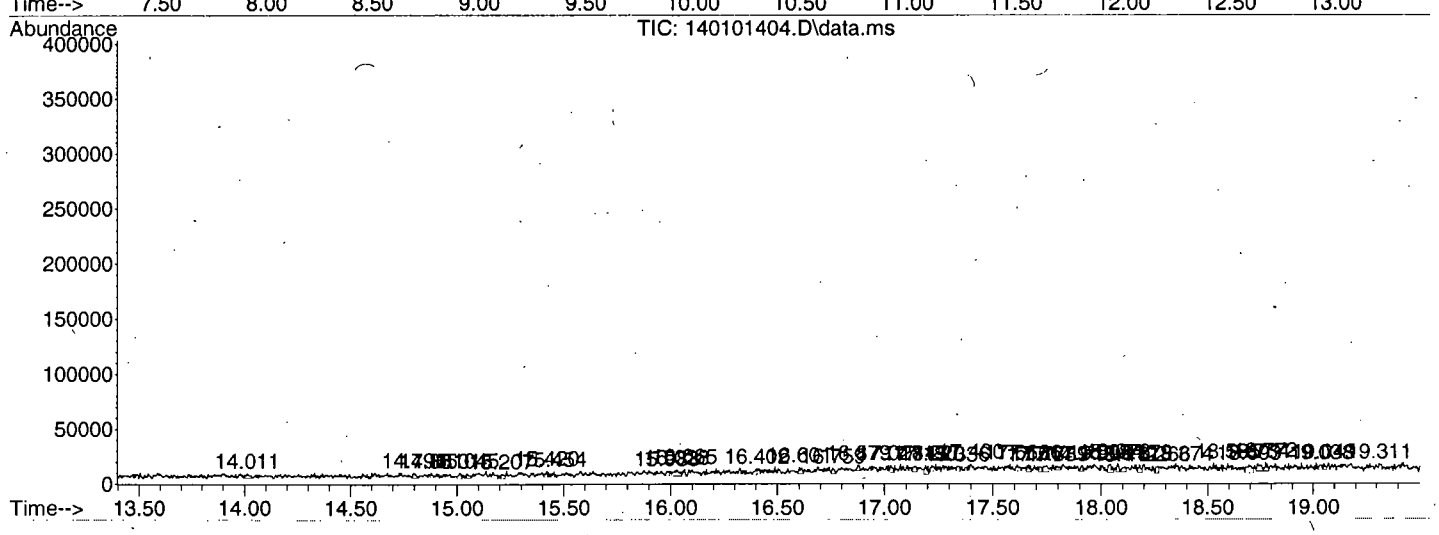
Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P







Freedom_0005792_0235

Library Search Compound Report

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

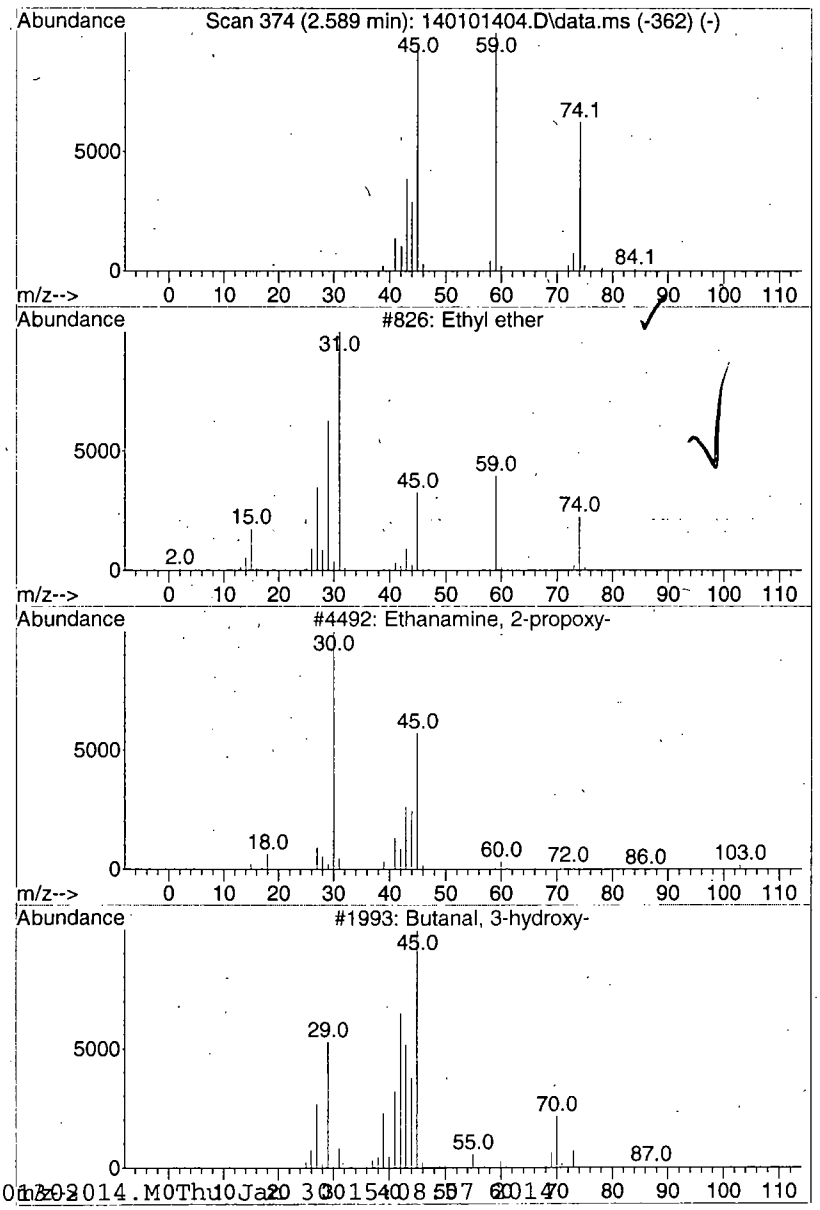
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

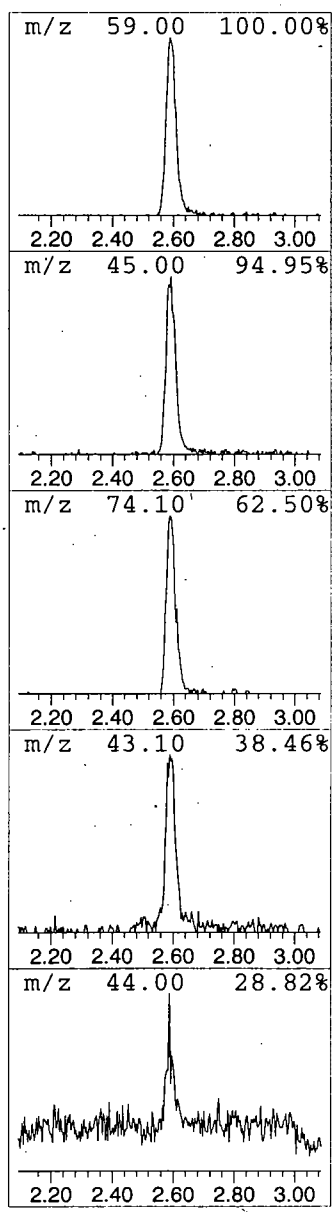
****

Peak Number 1 Ethyl ether Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.589	5.39 ug/L	300123	1,4-DIFLUOROBENZENE	6.525

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethyl ether	74	C4H10O	000060-29-7	72
2	Ethanamine, 2-propoxy-	103	C5H13NO	042185-03-5	35
3	Butanal, 3-hydroxy-	88	C4H8O2	000107-89-1	17
4	Hydrazine, trimethyl-	74	C3H10N2	001741-01-1	9
5	Aminoguanidine	74	CH6N4	000079-17-4	9





Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Ethyl ether	2.589	5.4	ug/L	300123	1	6.525	278225	5.0

Freedom_0005792_0237

Quantitation Report (QT Reviewed)

1 TIC

Data Path : D:\DATA\L01302014\
Data File : 140101405.D
Acq On : 30 Jan 2014 14:16
Operator : PZ PZ1-AG5975
Sample : 1401014-05
Misc : A, TB01
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 30 14:37:17 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-DIFLUOROBENZENE	6.525	114	108744	5.00 ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	105668	5.00 ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.807	152	50632	5.00 ug/L	0.00
System Monitoring Compounds					
23) 1,2-DICHLOROETHANE-d4	5.505	65	63470	5.58 ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 111.60%	
41) TOLUENE-d8	8.620	98	125488	4.60 ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 92.00%	
59) 4-BROMOFLUOROBENZENE	11.645	95	47407	4.99 ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 99.80%	
Target Compounds					Qvalue
10) METHYLENE CHLORIDE	2.975	84	909m	0.10 ug/L	
~~13) METHYL ACETATE~~	~~2.949~~	~~43~~	~~662~~	~~0.00 ug/L #~~	~~59~~
42) TOLUENE	8.710	92	4077	0.19 ug/L	78

MS PS3 2/3/2014

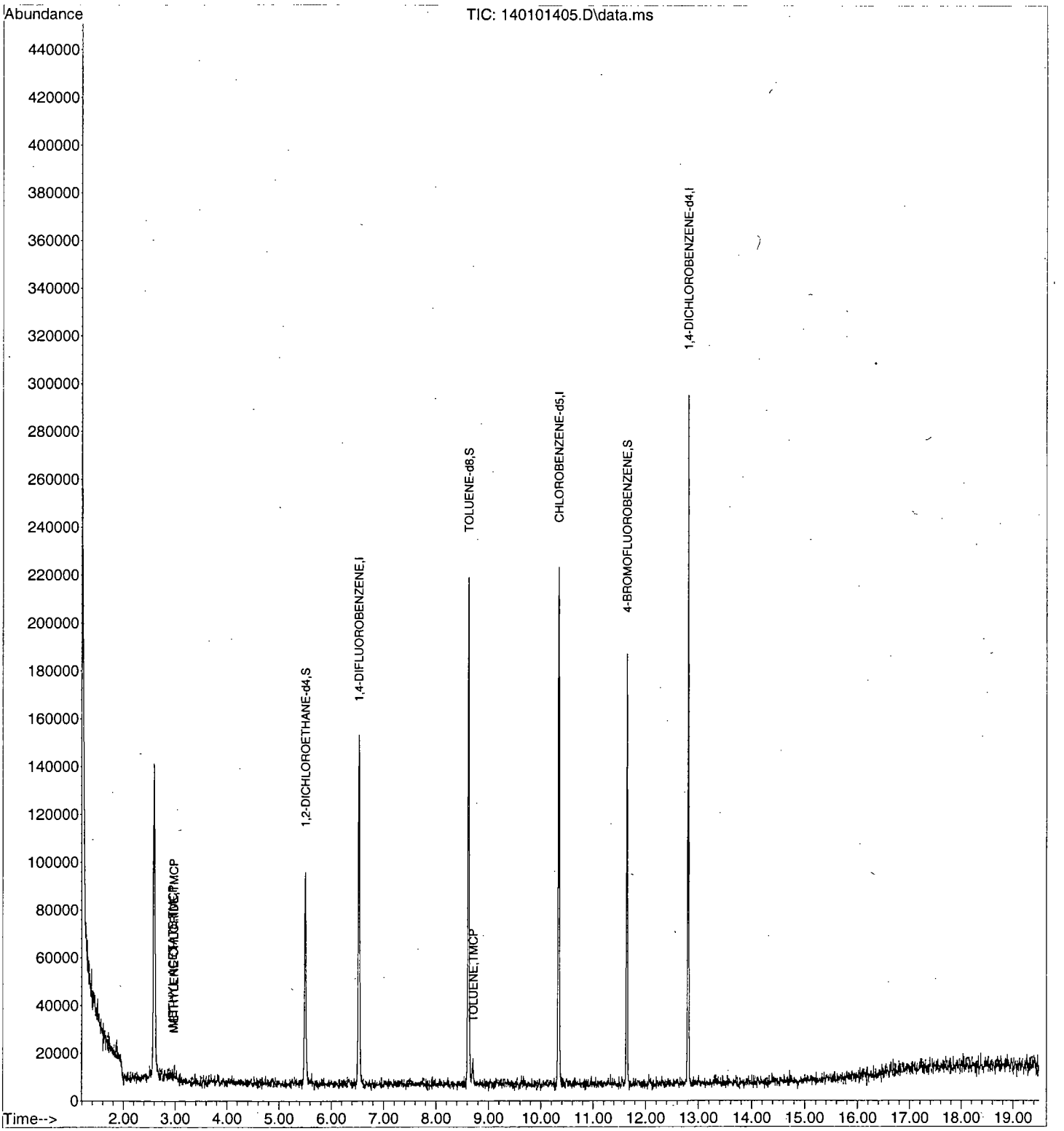
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0238

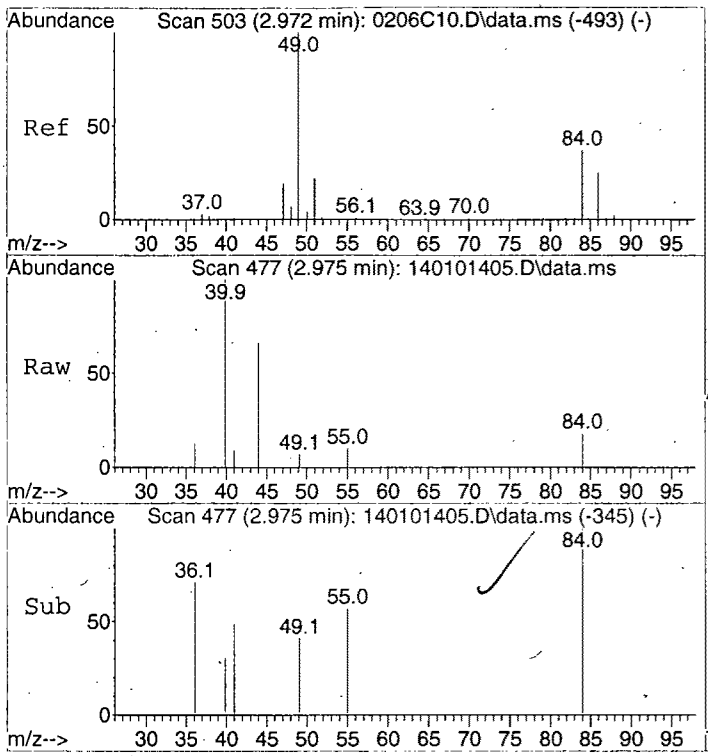
Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 140101405.D
Acq On : 30 Jan 2014 14:16
Operator : PZ PZ1-AG5975
Sample : 1401014-05
Misc : A, TB01
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 30 14:37:17 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



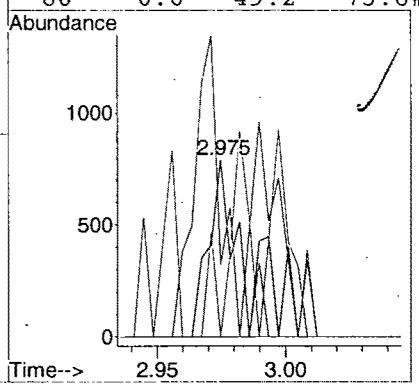
Freedom_0005792_0239

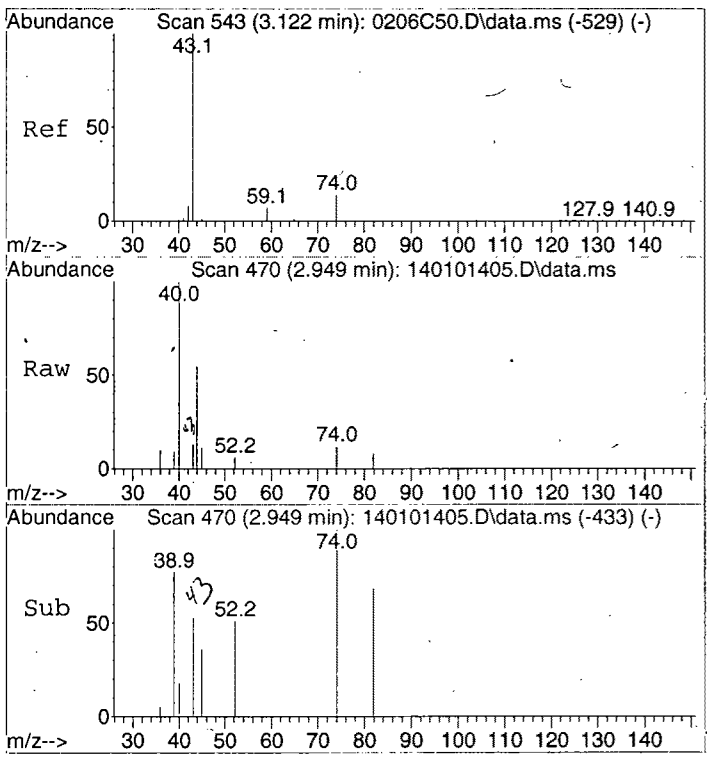


#10
METHYLENE CHLORIDE
Concen: 0.10 ug/L m
RT: 2.975 min Scan# 477
Delta R.T. -0.004 min
Lab File: 140101405.D
Acq: 30 Jan 2014 14:16

Tgt Ion: 84 Resp: 909

Ion	Ratio	Lower	Upper
84	100		
49	105.3	102.1	153.1
51	0.0	31.0	46.6#
86	0.0	49.2	73.8#



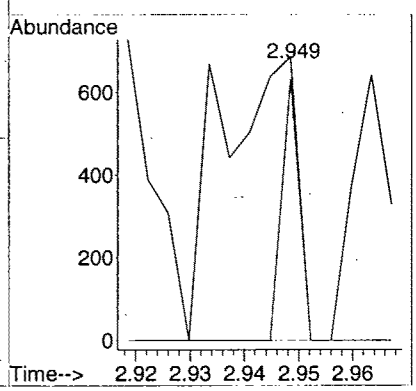


#13
METHYL ACETATE
Concen: 0.08 ug/L
RT: 2.949 min Scan# 470
Delta R.T. -0.161 min
Lab File: 140101405.D
Acq: 30 Jan 2014 14:16

RT off

Tgt Ion: 43 Resp: 662

Ion	Ratio	Lower	Upper
43	100		
74	0.0	14.8	22.2#

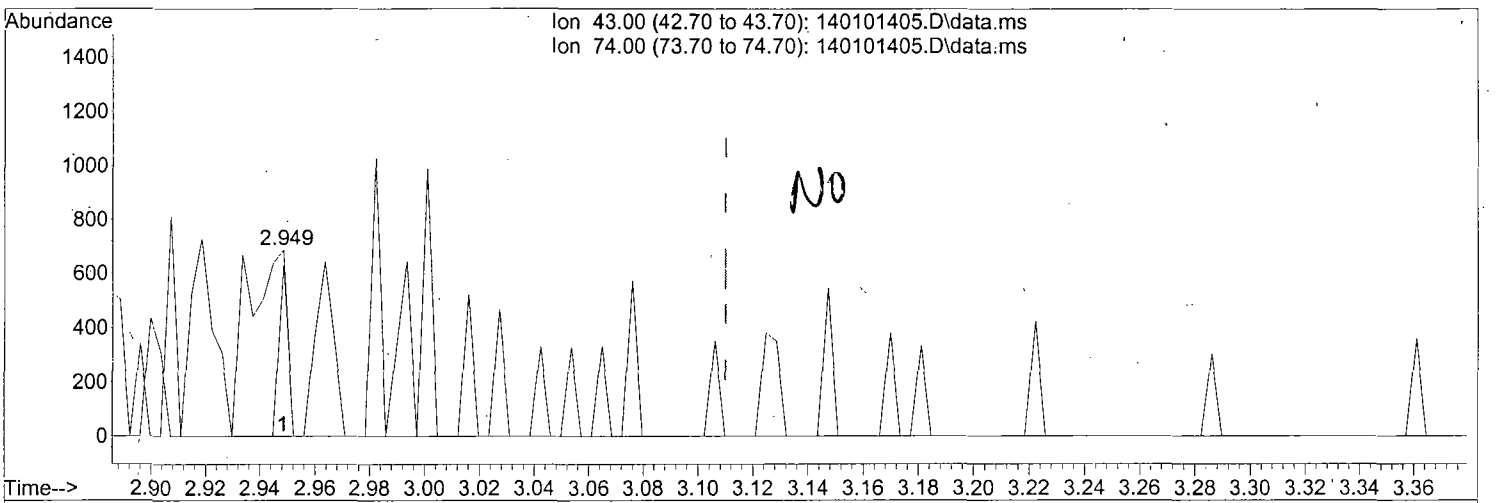


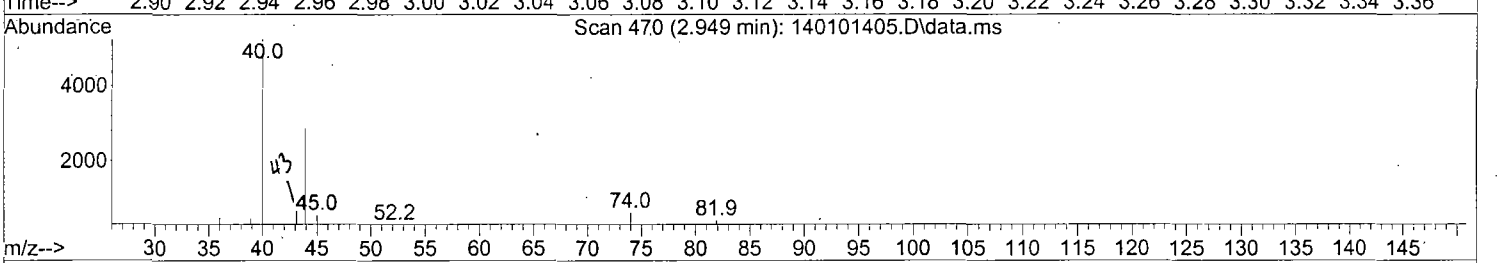
Freedom_0005792_0240

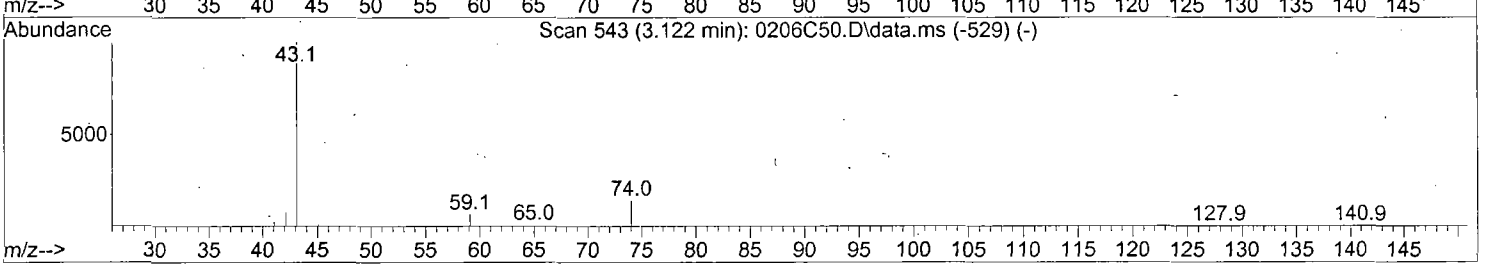
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101405.D
Acq On : 30 Jan 2014 14:16
Operator : PZ PZ1-AG5975
Sample : 1401014-05
Misc : A, TB01
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 30 14:37:17 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 140101405.D\data.ms

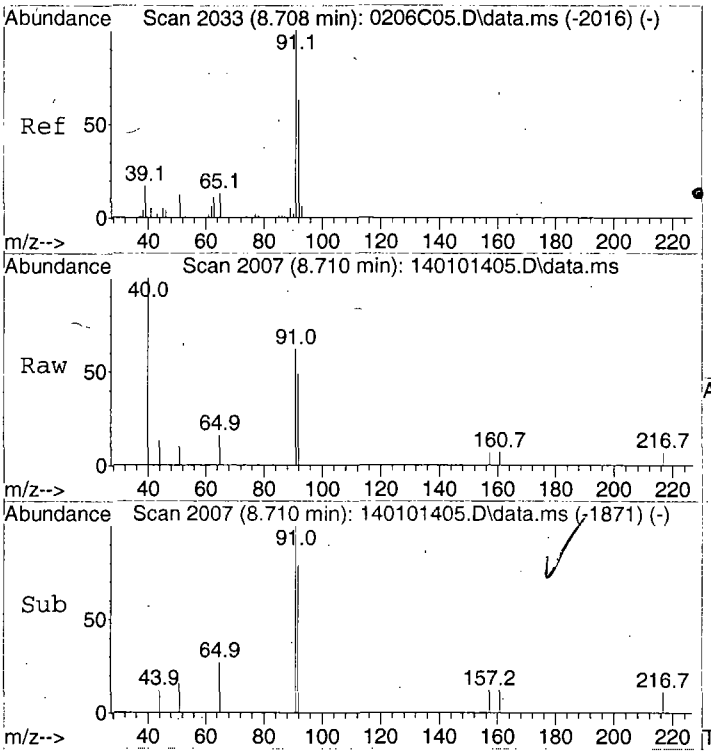
(13) METHYL ACETATE (TMCP)

2.949min (-0.161) 0.08 ug/L

response 662

Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

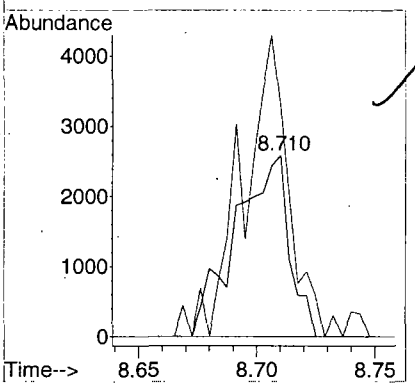
Freedom_0005792_0241



#42
TOLUENE
Concen: 0.19 ug/L
RT: 8.710 min Scan# 2007
Delta R.T. 0.011 min
Lab File: 140101405.D
Acq: 30 Jan 2014 14:16

Tgt Ion: 92 Resp: 4077

Ion	Ratio	Lower	Upper
92	100		
91	143.6	139.3	208.9

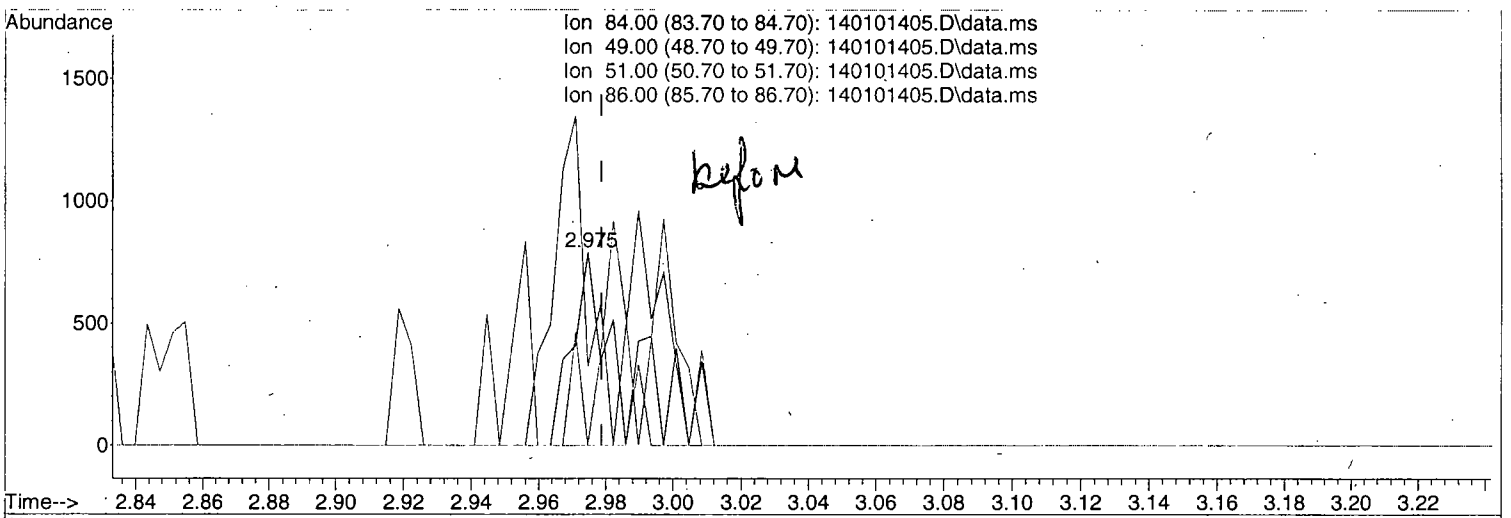


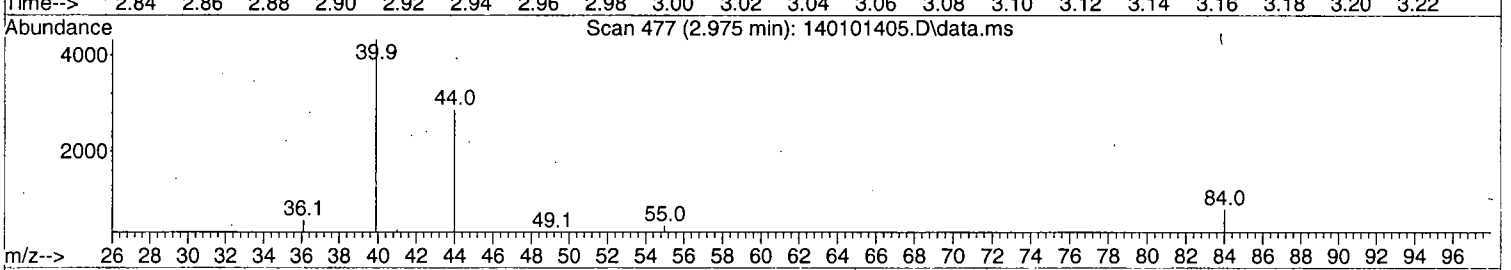
Freedom_0005792_0242

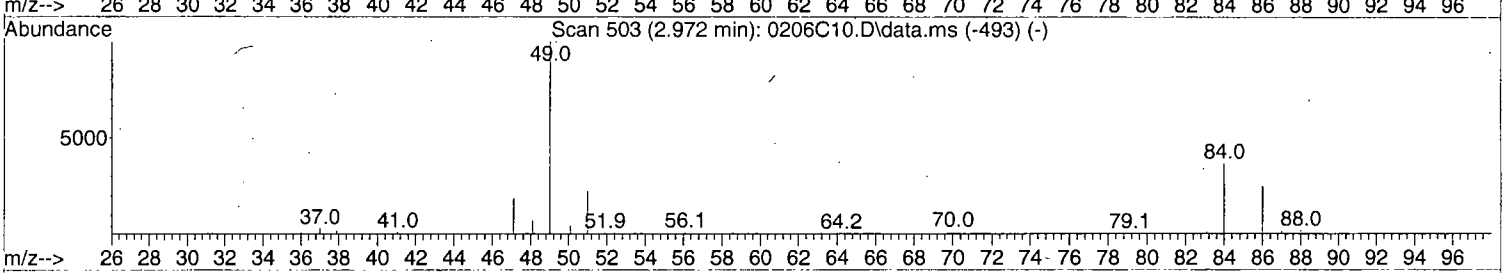
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101405.D
Acq On : 30 Jan 2014 14:16
Operator : PZ PZ1-AG5975
Sample : 1401014-05
Misc : A, TB01
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 30 14:36:42 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 140101405.D\data.ms

(10) METHYLENE CHLORIDE (TMCP)

2.975min (-0.004) 0.06 ug/L

response 544

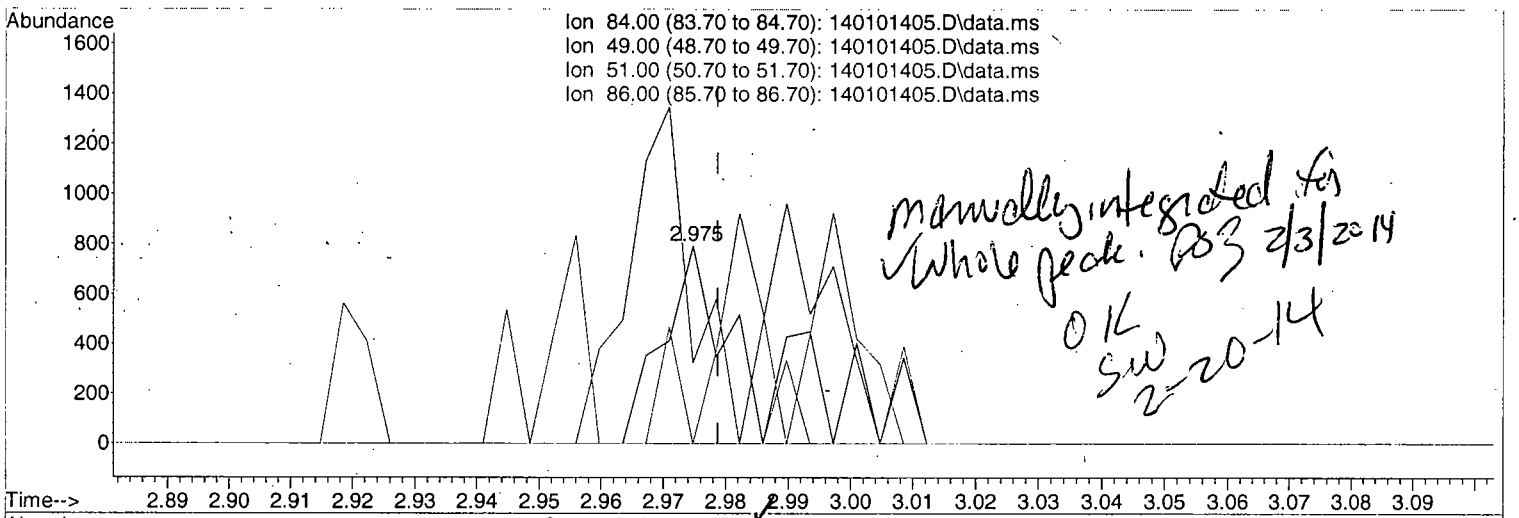
Ion	Exp%	Act%
84.00	100	100
49.00	127.60	175.92#
51.00	38.80	0.00#
86.00	61.50	0.00#

Freedom_0005792_0243

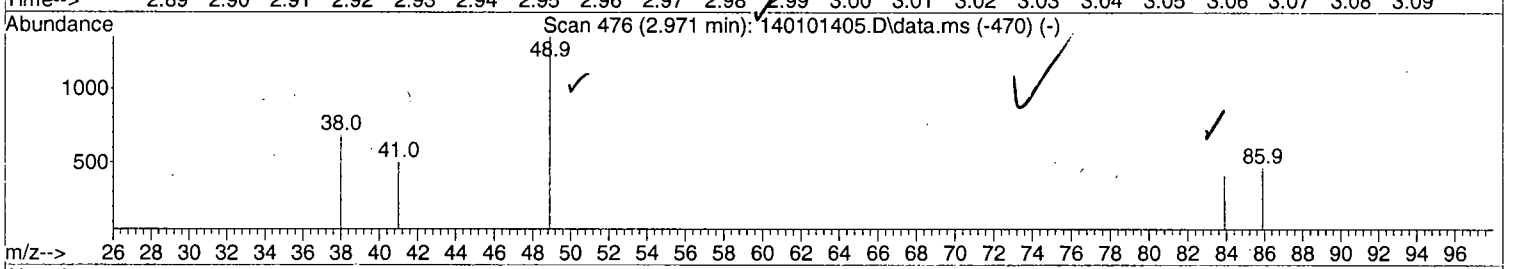
Quantitation Report (Qedit)

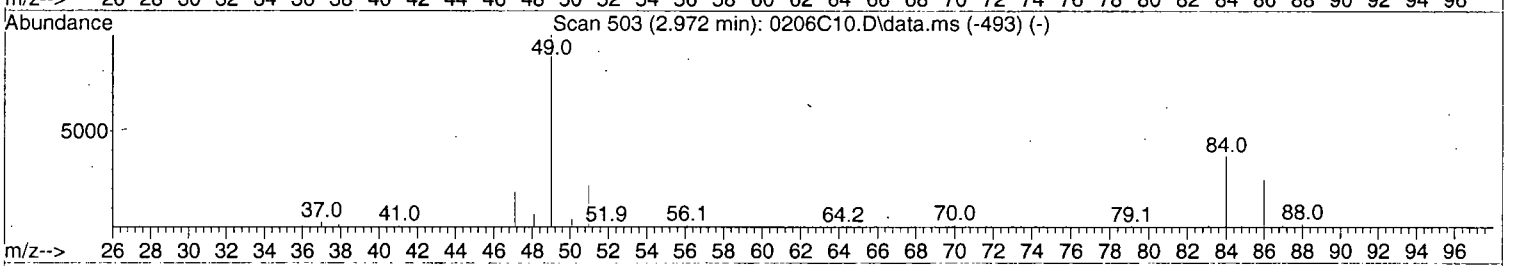
Data Path : D:\DATA\L01302014\
Data File : 140101405.D
Acq On : 30 Jan 2014 14:16
Operator : PZ PZ1-AG5975
Sample : 1401014-05
Misc : A, TB01
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 30 14:36:42 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



manually integrated for whole peak. BS 2/3/2014
OK SW 2-20-14





TIC: 140101405.D\data.ms

(10) METHYLENE CHLORIDE (TMCP)

2.975min (-0.004) 0.10 ug/L m

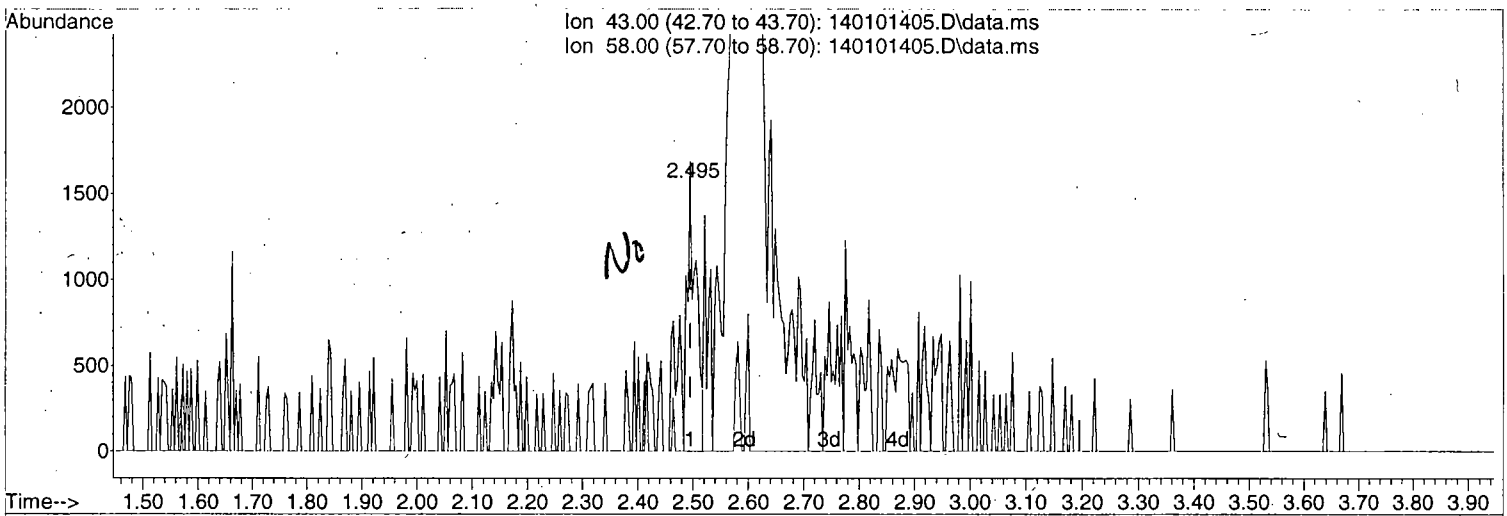
response 909

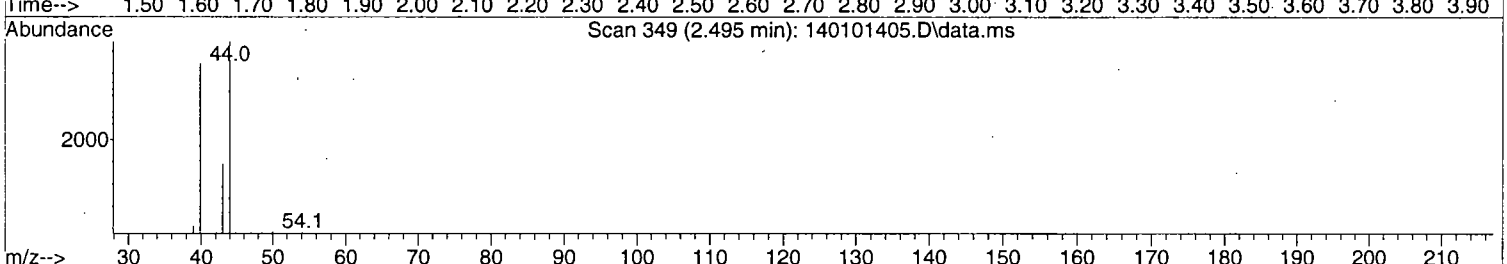
Ion	Exp%	Act%
84.00	100	100
49.00	127.60	105.28
51.00	38.80	0.00#
86.00	61.50	0.00#

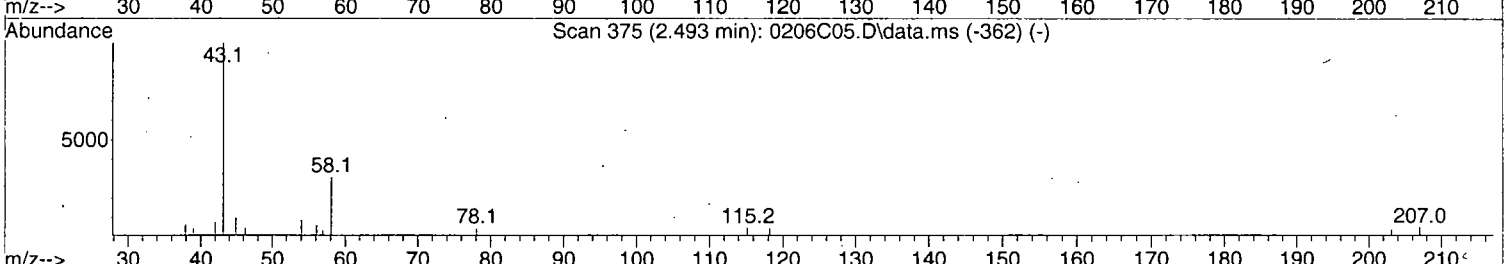
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101405.D
Acq On : 30 Jan 2014 14:16
Operator : PZ PZ1-AG5975
Sample : 1401014-05
Misc : A, TB01
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 30 14:36:42 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 140101405.D\data.ms

(8) ACETONE (TMCP)

2.495min (-0.000) 0.36 ug/L

response 1851

Ion	Exp%	Act%
43.00	100	100
58.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0245

LSC Area Percent Report

Data Path : D:\DATA\L01302014\
Data File : 140101405.D
Acq On : 30 Jan 2014 14:16
Operator : PZ PZ1-AG5975
Sample : 1401014-05
Misc : A, TB01
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 140101405.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.606	111	112	115	rBV	11927	6561	1.76%	0.264%
2	1.663	124	127	133	rBV4	6402	8736	2.35%	0.351%
3	1.711	137	140	143	rVV3	8116	3990	1.07%	0.160%
4	1.730	143	145	148	rVB3	6692	4396	1.18%	0.177%
5	1.865	178	181	182	rVB	8055	4152	1.12%	0.167%
6	1.940	199	201	213	rVB2	11234	19412	5.22%	0.780%
7	2.015	218	221	223	rBV	4874	4023	1.08%	0.162%
8	2.589	364	374	389	rBV4	130351	286168	76.90%	11.506%
9	2.701	403	404	409	rBV2	5200	3777	1.02%	0.152%
10	2.986	477	480	485	rVB3	6293	4413	1.19%	0.177%
11	3.387	582	587	590	rVB	5258	4764	1.28%	0.192%
12	3.552	629	631	635	rVB	5396	4289	1.15%	0.172%
13	4.568	899	902	906	rVB2	4374	4318	1.16%	0.174%
14	4.883	979	986	987	rVB2	4162	5287	1.42%	0.213%
15	5.250	1080	1084	1086	rBV2	4527	4049	1.09%	0.163%
16	5.505	1141	1152	1168	rBV2	88810	169792	45.63%	6.827%
17	5.692	1198	1202	1205	rBV	4346	4683	1.26%	0.188%
18	6.483	1409	1413	1415	rBV2	4278	3988	1.07%	0.160%
19	6.528	1415	1425	1437	rVV3	147080	283091	76.08%	11.382%
20	6.787	1489	1494	1499	rBV2	4924	6151	1.65%	0.247%
21	7.878	1783	1785	1792	rBV2	4251	4434	1.19%	0.178%
22	8.290	1891	1895	1899	rBV2	3279	4126	1.11%	0.166%
23	8.568	1963	1969	1971	rVB2	4803	4320	1.16%	0.174%
24	8.620	1971	1983	1996	rBV	214512	372110	100.00%	14.961%
25	8.706	2000	2006	2012	rVB3	11137	15020	4.04%	0.604%
26	8.928	2059	2065	2068	rVB2	4256	3830	1.03%	0.154%
27	9.036	2091	2094	2101	rVB2	4227	5807	1.56%	0.233%
28	9.284	2153	2160	2164	rBV2	4093	4765	1.28%	0.192%
29	9.310	2164	2167	2173	rVV2	3793	4076	1.10%	0.164%
30	9.362	2173	2181	2183	rVV	3608	4123	1.11%	0.166%
31	9.516	2217	2222	2226	rBV2	4263	5558	1.49%	0.223%
32	9.625	2249	2251	2258	rVB2	5143	4950	1.33%	0.199%
33	9.666	2258	2262	2265	rBV	4869	3919	1.05%	0.158%
34	9.898	2323	2324	2330	rVB2	4143	4096	1.10%	0.165%
35	9.932	2330	2333	2336	rBV	4485	4374	1.18%	0.176%
36	9.966	2336	2342	2345	rBV2	3793	4255	1.14%	0.171%
37	10.251	2416	2418	2422	rVB	5702	4780	1.28%	0.192%
38	10.337	2431	2441	2455	rVV3	217938	360079	96.77%	14.477%
39	11.552	2761	2765	2771	rBV	4237	4667	1.25%	0.188%

Freedom_0005792_0246

Data Path : D:\DATA\L01302014\
Data File : 140101405.D
Acq On : 30 Jan 2014 14:16
Operator : PZ PZ1-AG5975
Sample : 1401014-05
Misc : A, TB01
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

40	11.649	2782	2791	2804	rVB2	183120	257817	69.29%	10.366%
41	12.155	2923	2926	2931	rBV	3986	3900	1.05%	0.157%
42	12.230	2941	2946	2950	rBV	3348	4314	1.16%	0.173%
43	12.616	3046	3049	3055	rVB2	3715	3882	1.04%	0.156%
44	12.811	3093	3101	3111	rVB2	288565	359105	96.51%	14.438%
45	14.037	3427	3428	3433	rBV	5592	4591	1.23%	0.185%
46	14.097	3440	3444	3446	rVB2	4392	3795	1.02%	0.153%
47	14.116	3446	3449	3451	rBV2	4960	4452	1.20%	0.179%
48	14.262	3484	3488	3491	rBV2	4435	4436	1.19%	0.178%
49	14.464	3538	3542	3547	rVB2	3562	4682	1.26%	0.188%
50	15.364	3779	3782	3788	rVB4	5612	5989	1.61%	0.241%
51	15.630	3852	3853	3859	rBV	3543	3745	1.01%	0.151%
52	15.713	3870	3875	3878	rBV3	4190	3779	1.02%	0.152%
53	15.791	3892	3896	3898	rBV2	5240	4610	1.24%	0.185%
54	15.900	3923	3925	3931	rBV3	4746	5751	1.55%	0.231%
55	16.189	3999	4002	4008	rBV3	8026	8985	2.41%	0.361%
56	16.466	4073	4076	4078	rBV3	7932	5152	1.38%	0.207%
57	16.620	4116	4117	4121	rBV4	5271	3971	1.07%	0.160%
58	16.642	4121	4123	4132	rVB5	6224	6933	1.86%	0.279%
59	16.684	4132	4134	4139	rVB3	7479	4423	1.19%	0.178%
60	16.736	4147	4148	4155	rBV4	5258	4449	1.20%	0.179%
61	16.871	4179	4184	4185	rVB3	4637	4527	1.22%	0.182%
62	17.081	4236	4240	4244	rBV4	4179	5492	1.48%	0.221%
63	17.392	4319	4323	4325	rBV	6493	4620	1.24%	0.186%
64	17.437	4332	4335	4340	rVB6	6555	5446	1.46%	0.219%
65	17.778	4419	4426	4427	rVB3	6718	7358	1.98%	0.296%
66	17.797	4428	4431	4432	rVB2	6823	3723	1.00%	0.150%
67	17.969	4473	4477	4479	rVB4	6735	5463	1.47%	0.220%
68	18.003	4483	4486	4490	rVB3	5715	5879	1.58%	0.236%
69	18.033	4491	4494	4498	rBV	7592	5080	1.37%	0.204%
70	18.310	4564	4568	4570	rBV4	6898	7023	1.89%	0.282%
71	18.382	4577	4587	4589	rBV3	9214	11256	3.02%	0.453%
72	18.445	4601	4604	4608	rBV4	5140	5379	1.45%	0.216%
73	18.592	4639	4643	4647	rVB4	5210	4577	1.23%	0.184%
74	18.614	4647	4649	4656	rBV4	4236	5261	1.41%	0.212%
75	18.970	4741	4744	4753	rVB5	7226	11263	3.03%	0.453%
76	19.015	4753	4756	4758	rBV2	7232	4317	1.16%	0.174%
77	19.090	4771	4776	4779	rBV2	7056	8321	2.24%	0.335%
78	19.266	4819	4823	4826	rBV2	7202	5542	1.49%	0.223%
79	19.401	4857	4859	4866	rVB4	5843	5834	1.57%	0.235%
80	19.469	4873	4877	4879	rVB3	9261	6762	1.82%	0.272%

Freedom_0005792_0247

LSC Area Percent Report

Data Path : D:\DATA\L01302014\
Data File : 140101405.D
Acq On : 30 Jan 2014 14:16
Operator : PZ PZ1-AG5975
Sample : 1401014-05
Misc : A, TB01
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Sum of corrected areas: 2487213

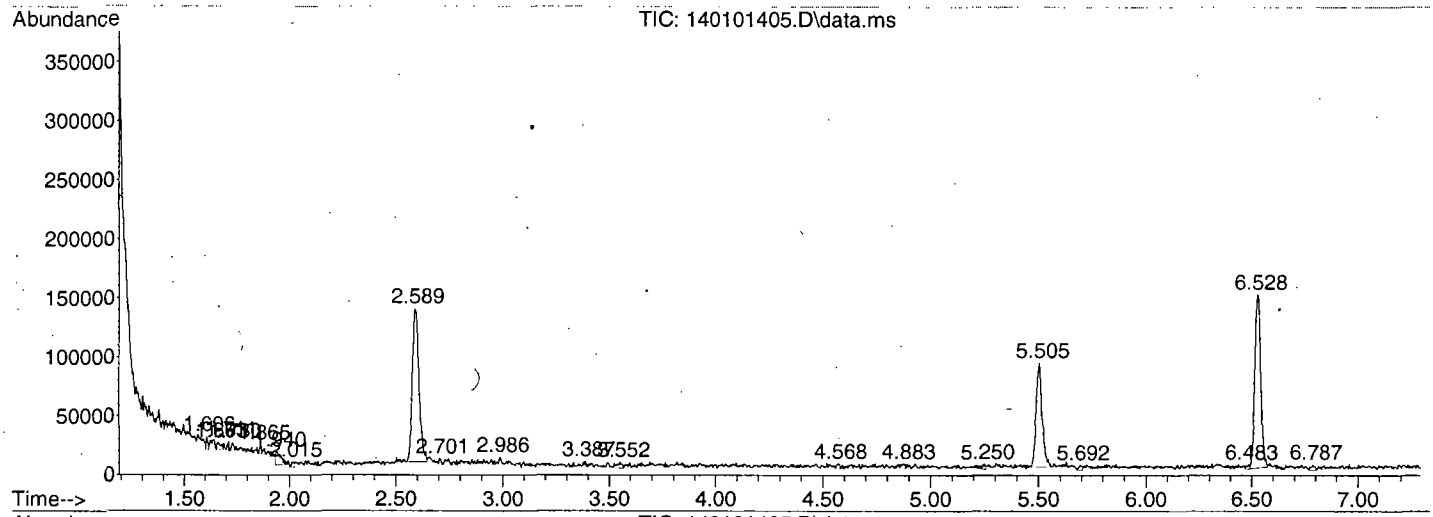
Freedom_0005792_0248

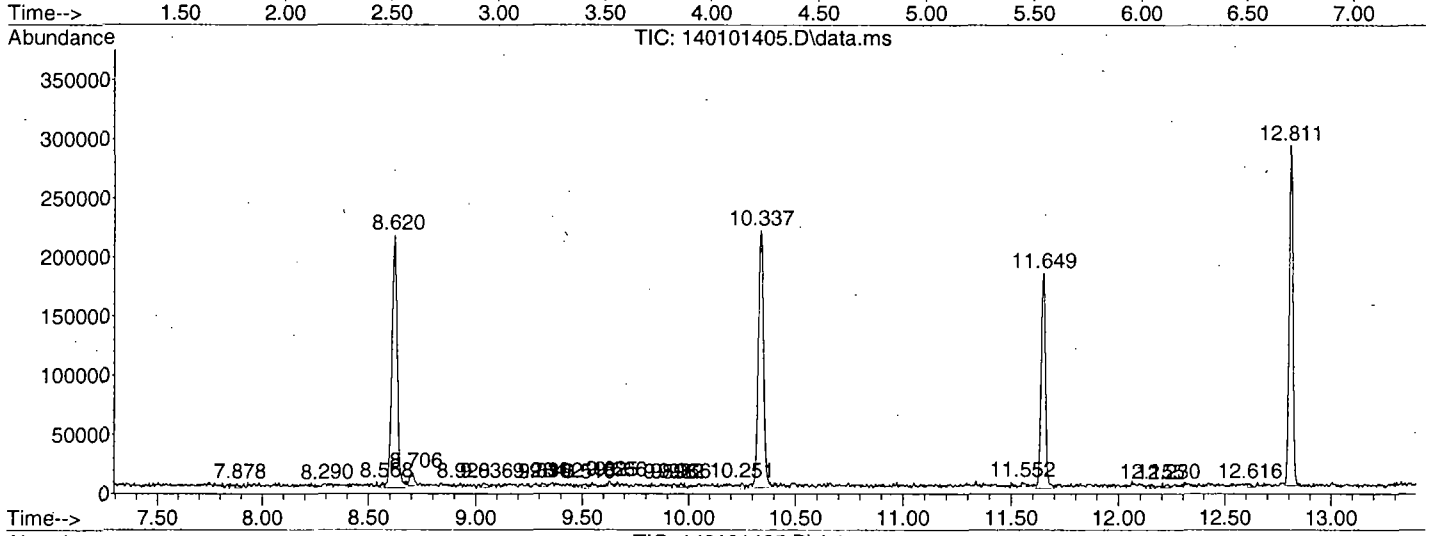
LSC Report - Integrated Chromatogram

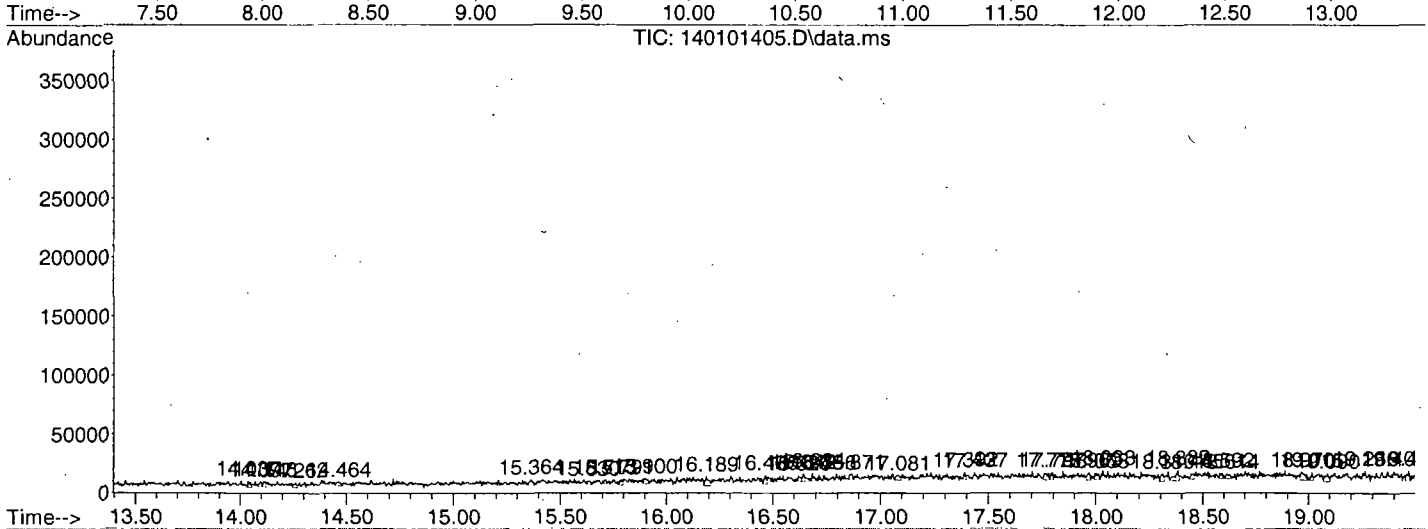
Data Path : D:\DATA\L01302014\
Data File : 140101405.D
Acq On : 30 Jan 2014 14:16
Operator : PZ PZ1-AG5975
Sample : 1401014-05
Misc : A, TB01
ALS Vial : 14 Sample Multiplier: 1

Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P







Freedom_0005792_0249

Library Search Compound Report

Data Path : D:\DATA\L01302014\
Data File : 140101405.D
Acq On : 30 Jan 2014 14:16
Operator : PZ PZ1-AG5975
Sample : 1401014-05
Misc : A, TB01
ALS Vial : 14 Sample Multiplier: 1

Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

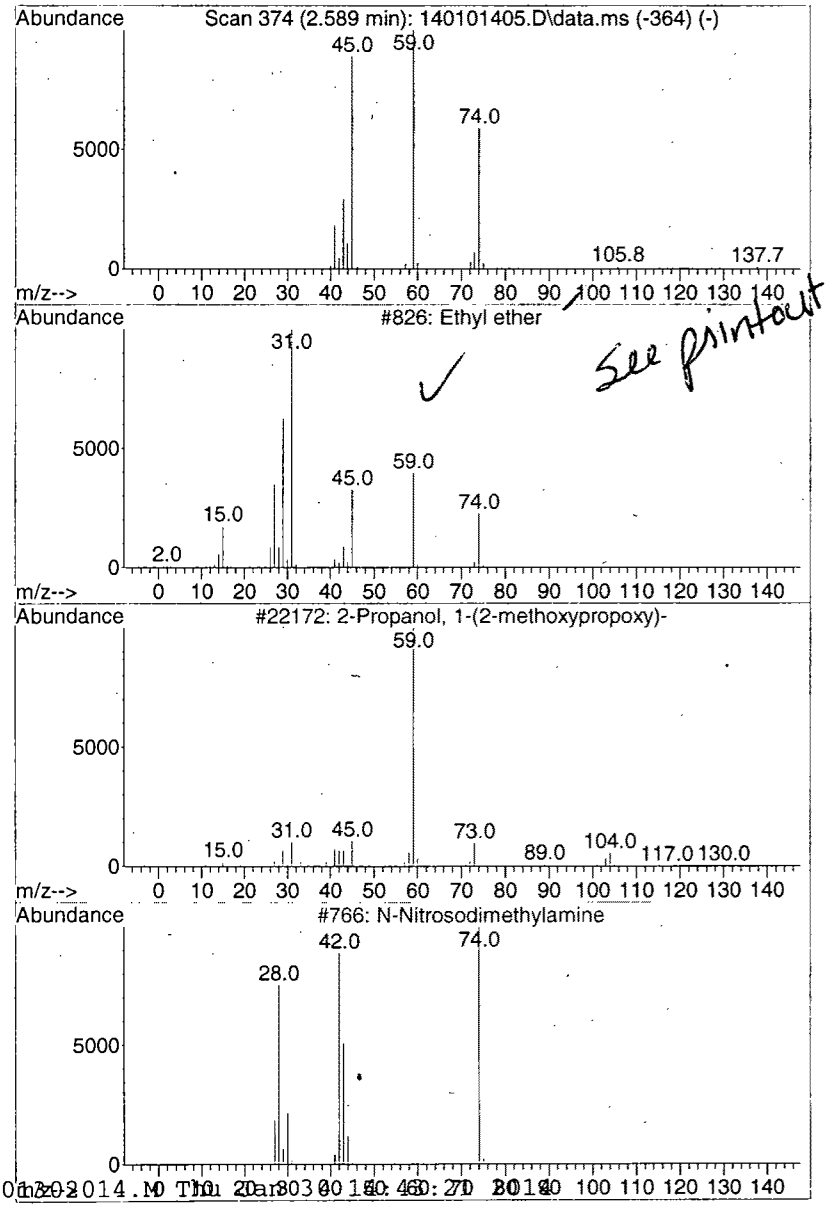
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

****

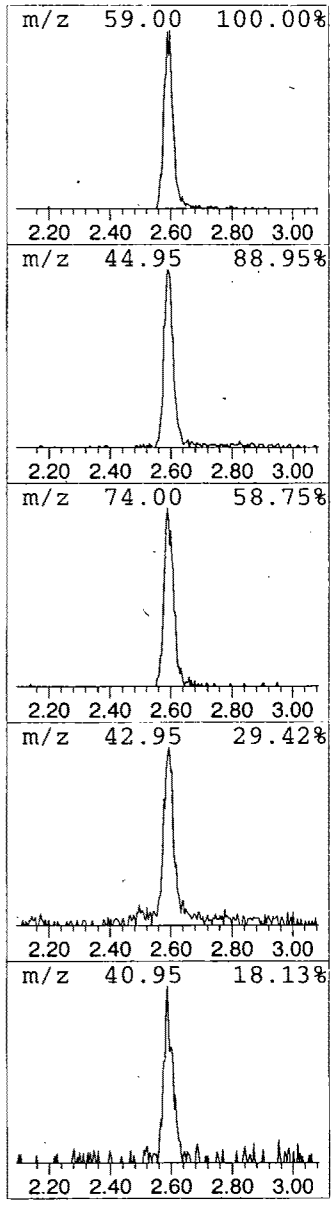
Peak Number 1 Ethyl ether Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.589	5.05 ug/L	286168	1,4-DIFLUOROBENZENE	6.525

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethyl ether	74	C4H10O	000060-29-7	52
2	2-Propanol, 1-(2-methoxypropoxy)-	148	C7H16O3	013429-07-7	12
3	N-Nitrosodimethylamine	74	C2H6N2O	000062-75-9	9
4	Ethane, 1,2-diethoxy-	118	C6H14O2	000629-14-1	9
5	Amylene Hydrate	88	C5H12O	000075-85-4	9



See printout



Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L01302014\
Data File : 140101405.D
Acq On : 30 Jan 2014 14:16
Operator : PZ PZ1-AG5975
Sample : 1401014-05
Misc : A, TB01
ALS Vial : 14 Sample Multiplier: 1

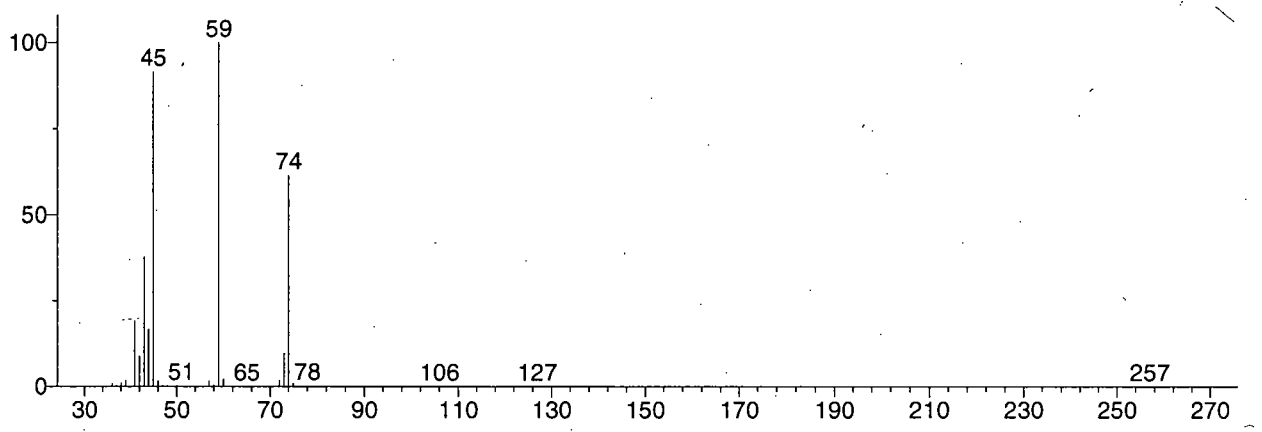
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

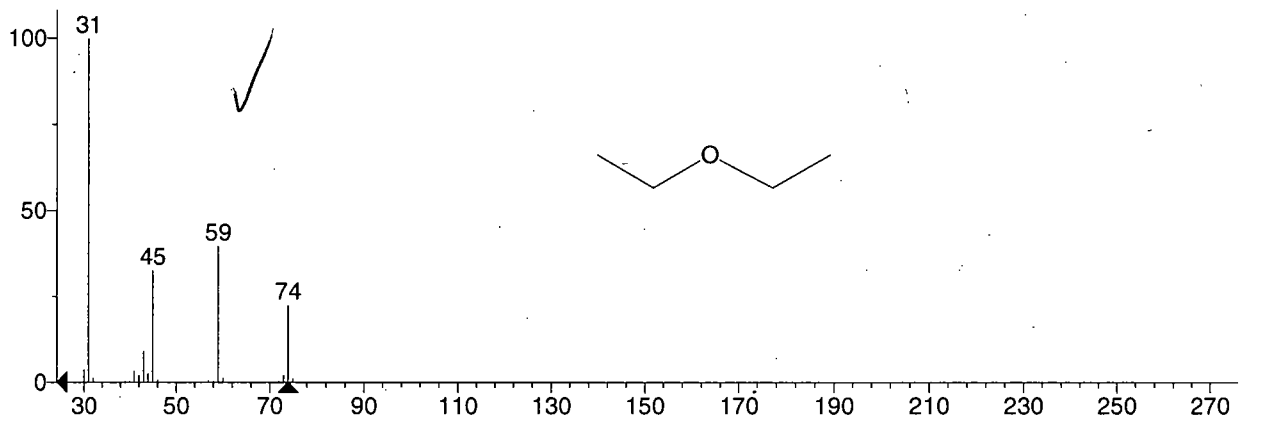
TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Ethyl ether	2.589	5.1	ug/L	286168	1	6.525	283091	5.0

Freedom_0005792_0251

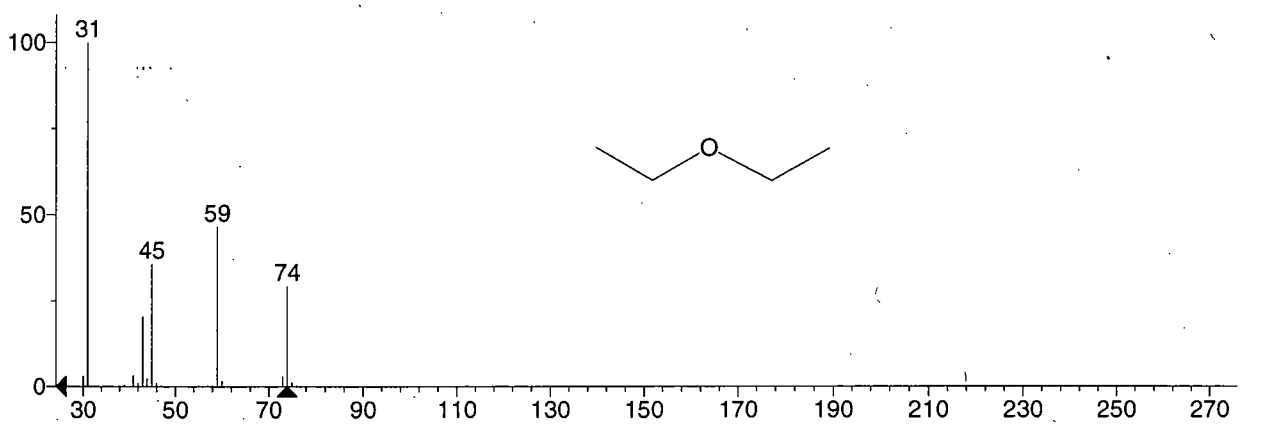
Unknown: Average of 2.562 to 2.630 min.: 140101405.D\data.ms
Compound in Library Factor = 163



Hit 1 : Ethyl ether
C4H10O; MF: 875; RMF: 879; Prob 81.2%; CAS: 60-29-7; Lib: replib; ID: 536.



Hit 2 : Ethyl ether
C4H10O; MF: 845; RMF: 853; Prob 81.2%; CAS: 60-29-7; Lib: replib; ID: 535.



Quantitation Report (QT Reviewed)

1 TTC

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:08:31 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-DIFLUOROBENZENE	6.525	114	102980	5.00 ug/L	0.00
37) CHLOROBENZENE-d5	10.341	117	99248	5.00 ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	48183	5.00 ug/L	0.00
System Monitoring Compounds					
23) 1,2-DICHLOROETHANE-d4	5.509	65	58145	5.39 ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 107.80%	
41) TOLUENE-d8	8.620	98	119027	4.65 ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 93.00%	
59) 4-BROMOFLUOROBENZENE	11.645	95	44164	4.88 ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 97.60%	
Target Compounds					Qvalue
8) ACETONE	2.506	43	2143m	0.43 ug/L	
10) METHYLENE CHLORIDE	2.994	84	769	0.09 ug/L #	59
42) TOLUENE	8.699	92	2976m	0.15 ug/L	

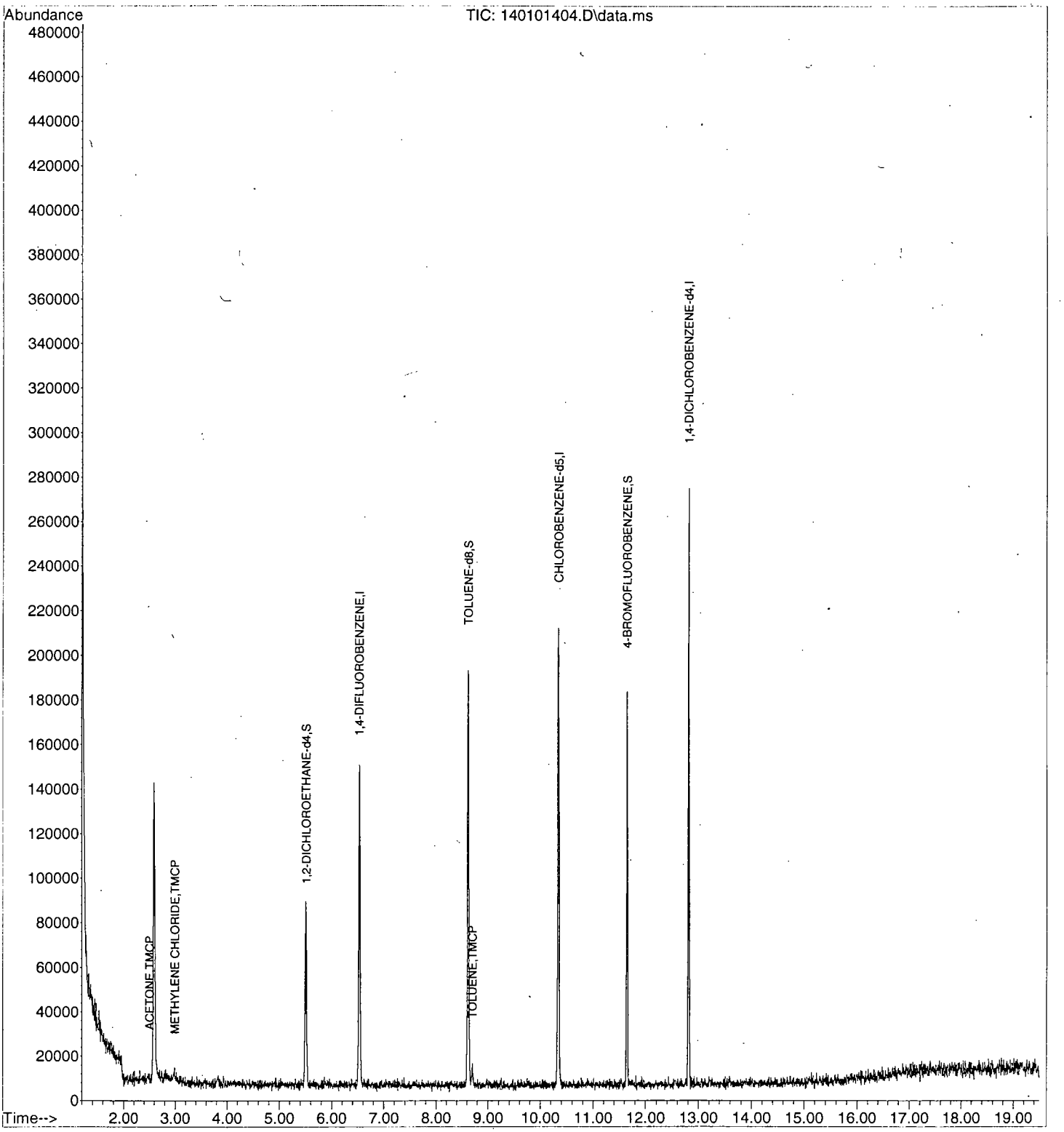
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0253

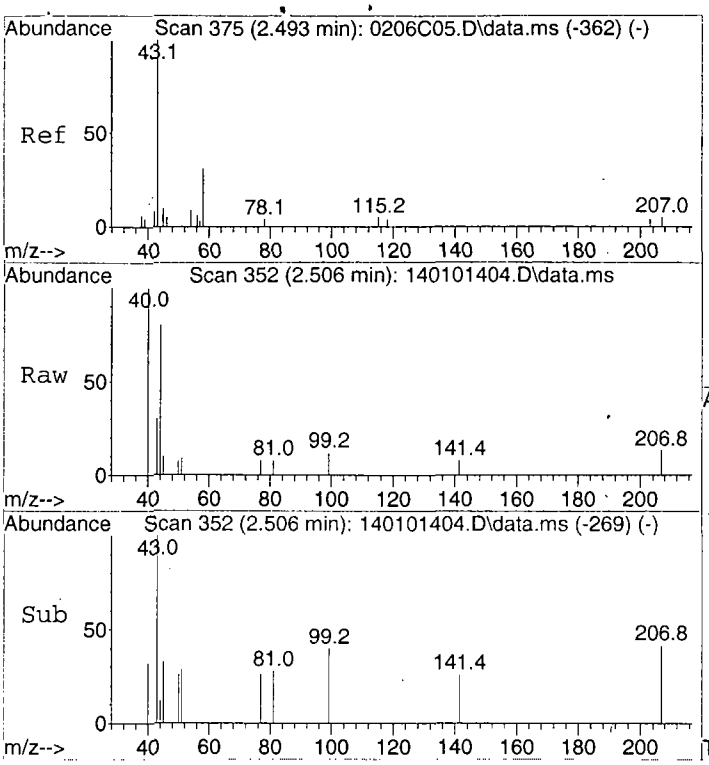
Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:08:31 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



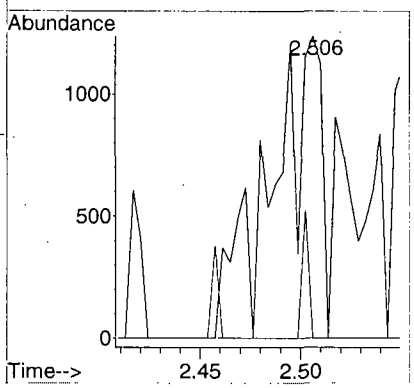
Freedom_0005792_0254

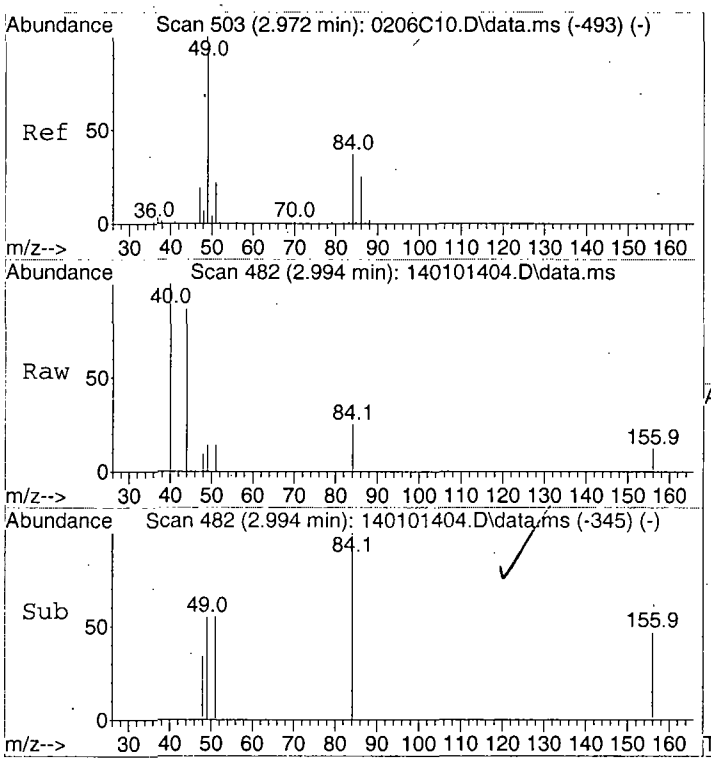


#8
ACETONE
Concen: 0.43 ug/L m
RT: 2.506 min Scan# 352
Delta R.T. 0.011 min
Lab File: 140101404.D
Acq: 30 Jan 2014 14:44

Tgt Ion: 43 Resp: 2143

Ion	Ratio	Lower	Upper
43	100		
58	0.0	22.5	33.7#

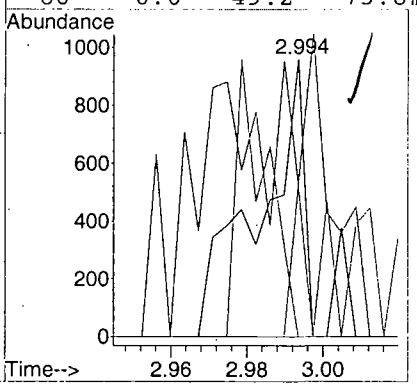




#10
METHYLENE CHLORIDE
Concen: 0.09 ug/L
RT: 2.994 min Scan# 482
Delta R.T. 0.015 min
Lab File: 140101404.D
Acq: 30 Jan 2014 14:44

Tgt Ion: 84 Resp: 769

Ion	Ratio	Lower	Upper
84	100		
49	110.3	102.1	153.1
51	0.0	31.0	46.6#
86	0.0	49.2	73.8#

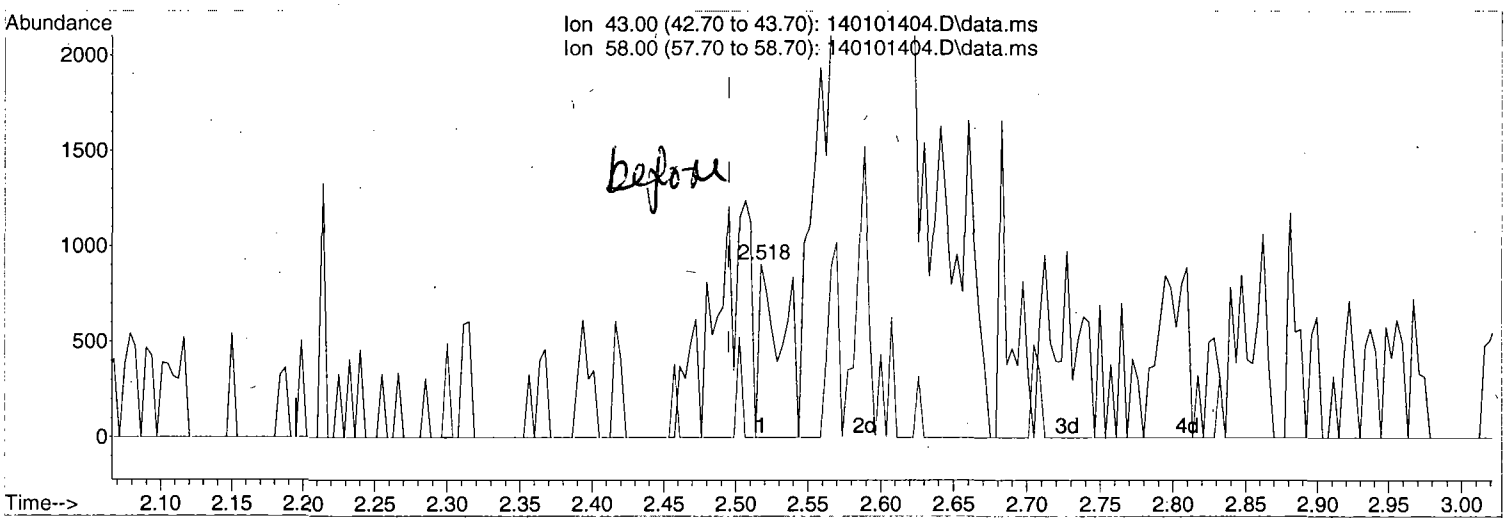


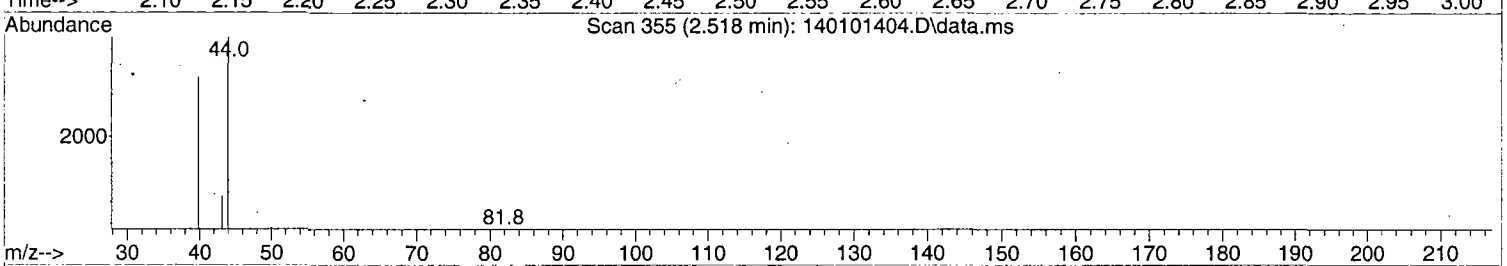
Freedom_0005792_0255

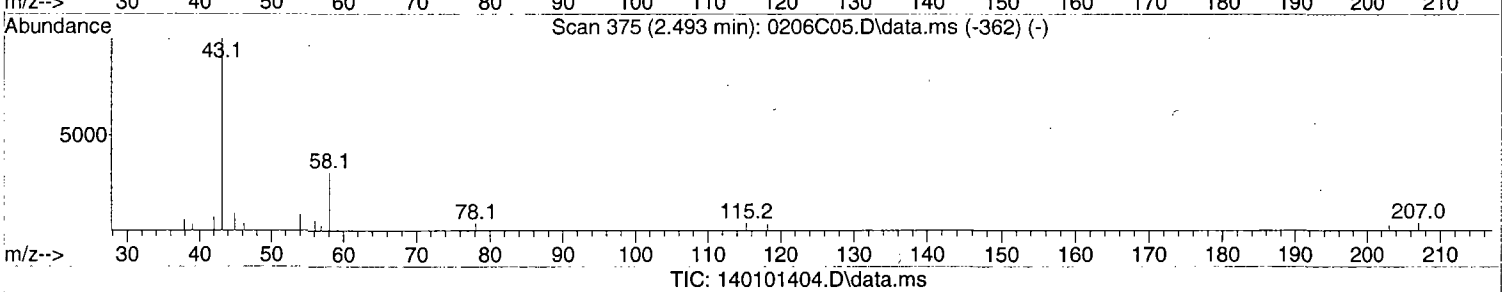
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:05:13 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 140101404.D\data.ms

(8) ACETONE (TMCP)

2.518min (+0.022) 0.21 ug/L

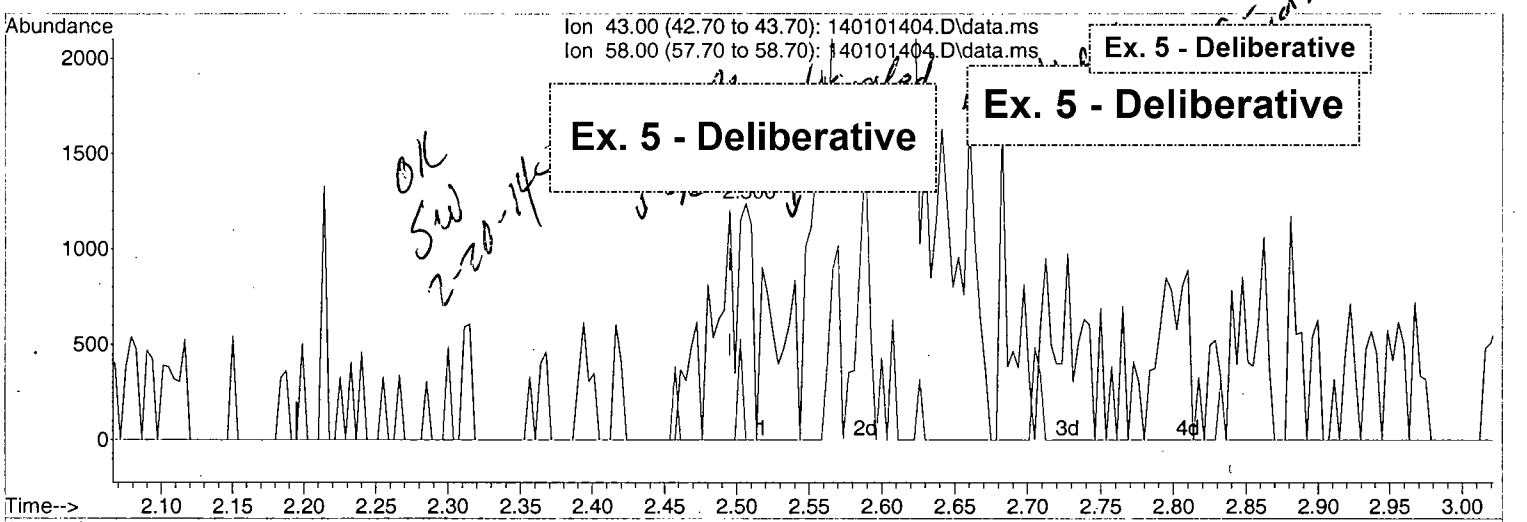
response 1026

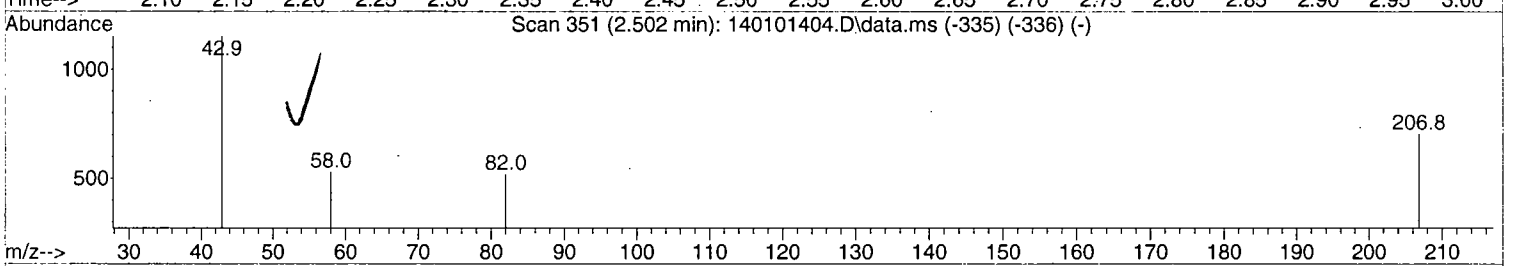
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

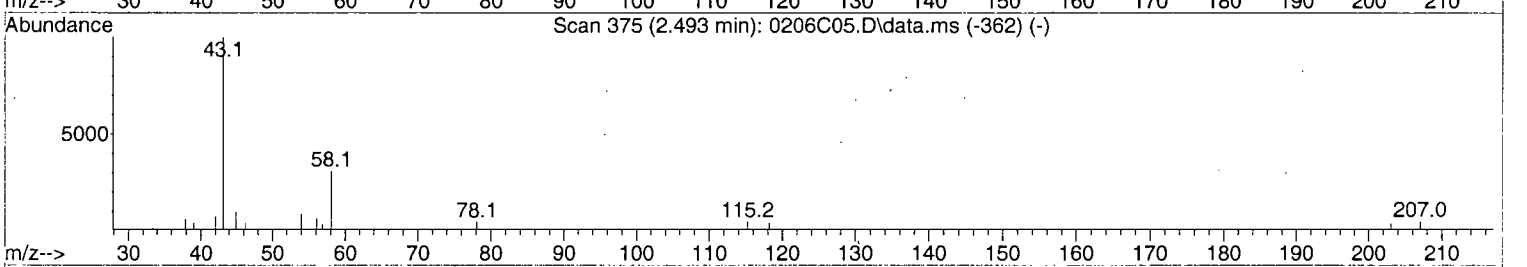
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:05:13 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 140101404.D\data.ms

(8) ACETONE (TMCP)

2.506min (+0.011) 0.43 ug/L m

response 2143

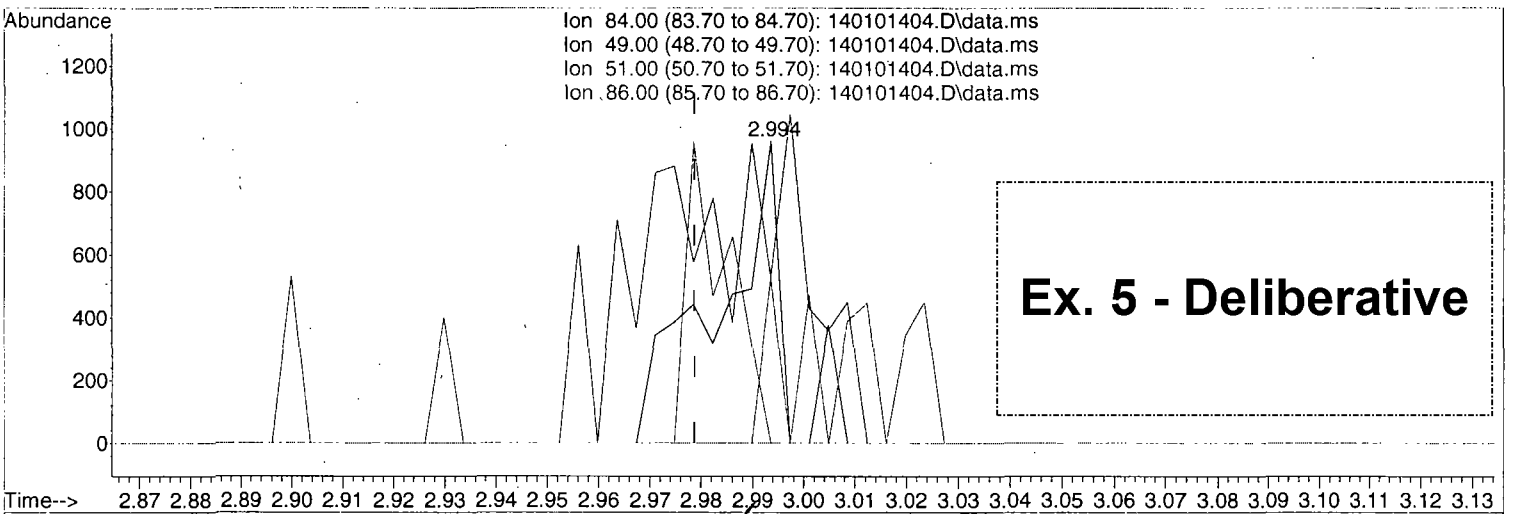
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0257

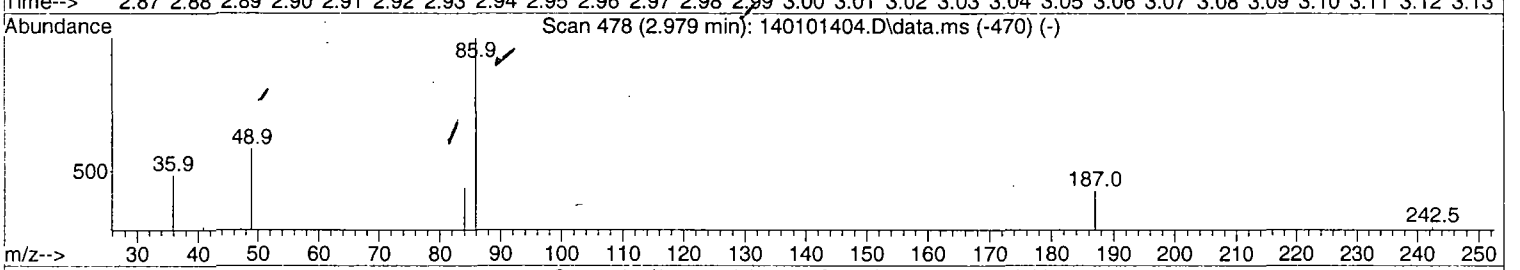
Quantitation Report (Qedit)

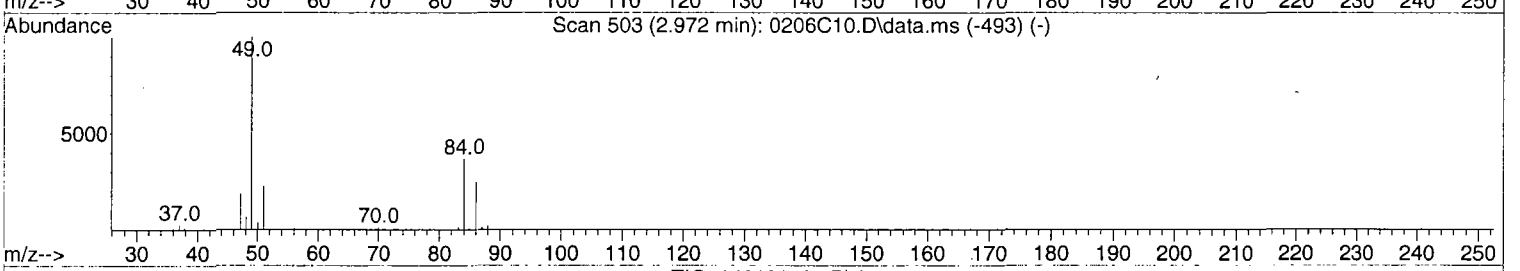
Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:05:13 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



Ex. 5 - Deliberative





TIC: 140101404.D\data.ms

(10) METHYLENE CHLORIDE (TMCP)

2.994min (+0.015) 0.09 ug/L

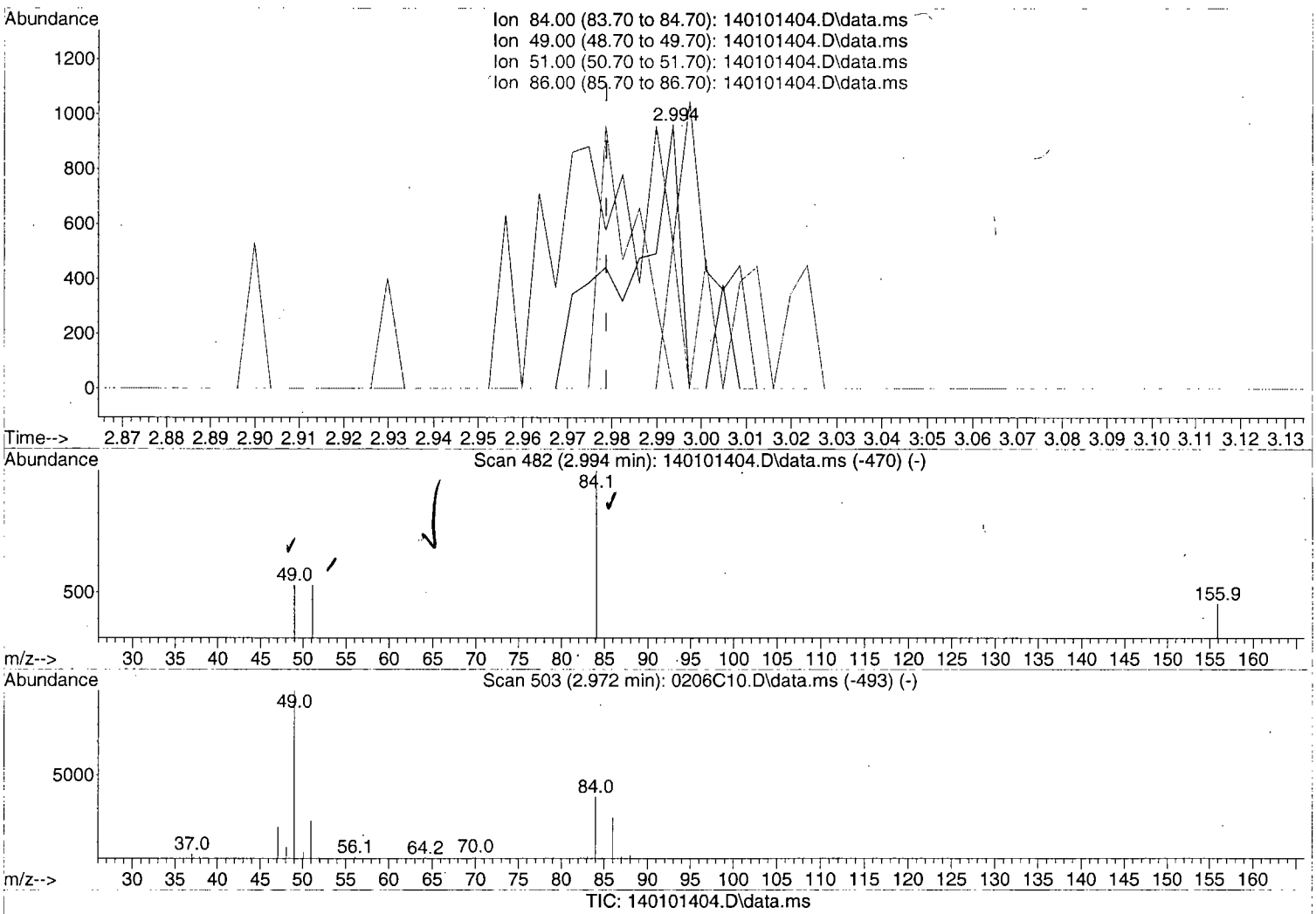
response 769

Ion	Exp%	Act%
84.00	100	100
49.00	127.60	110.27
51.00	38.80	0.00#
86.00	61.50	0.00#

Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:05:13 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



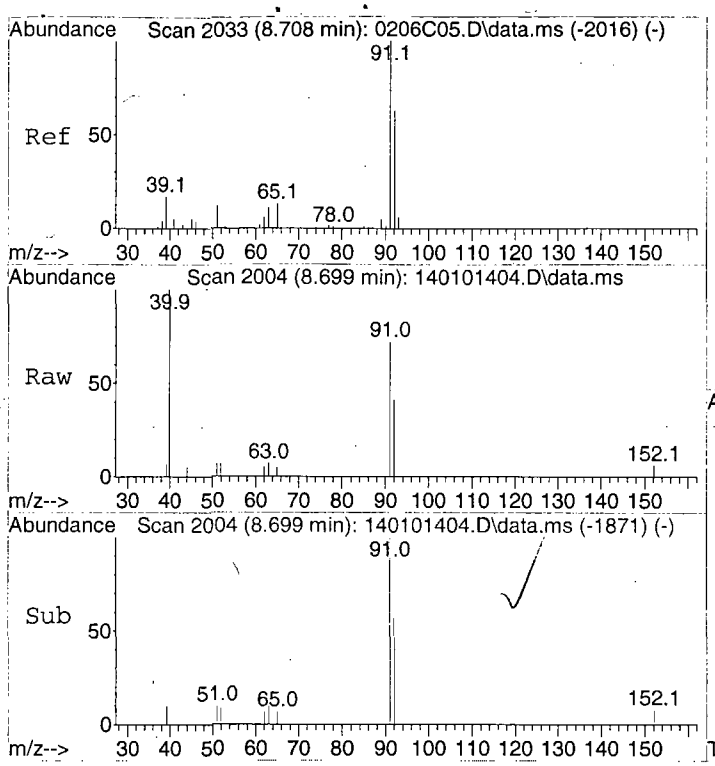
(10) METHYLENE CHLORIDE (TMCP)

2.994min (+0.015) 0.09 ug/L

response 769

Ion	Exp%	Act%
84.00	100	100
49.00	127.60	110.27
51.00	38.80	0.00#
86.00	61.50	0.00#

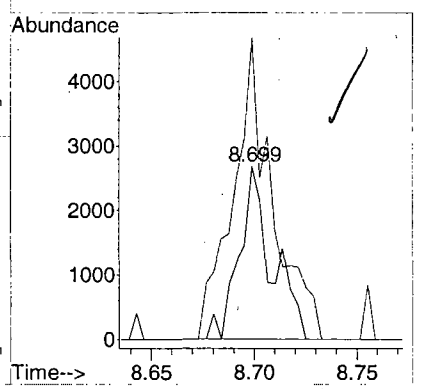
Freedom_0005792_0259



#42
TOLUENE
Concen: 0.15 ug/L m
RT: 8.699 min Scan# 2004
Delta R.T. -0.000 min
Lab File: 140101404.D
Acq: 30 Jan 2014 14:44

Tgt Ion: 92 Resp: 2976

Ion	Ratio	Lower	Upper
92	100		
91	208.9	139.3	208.9

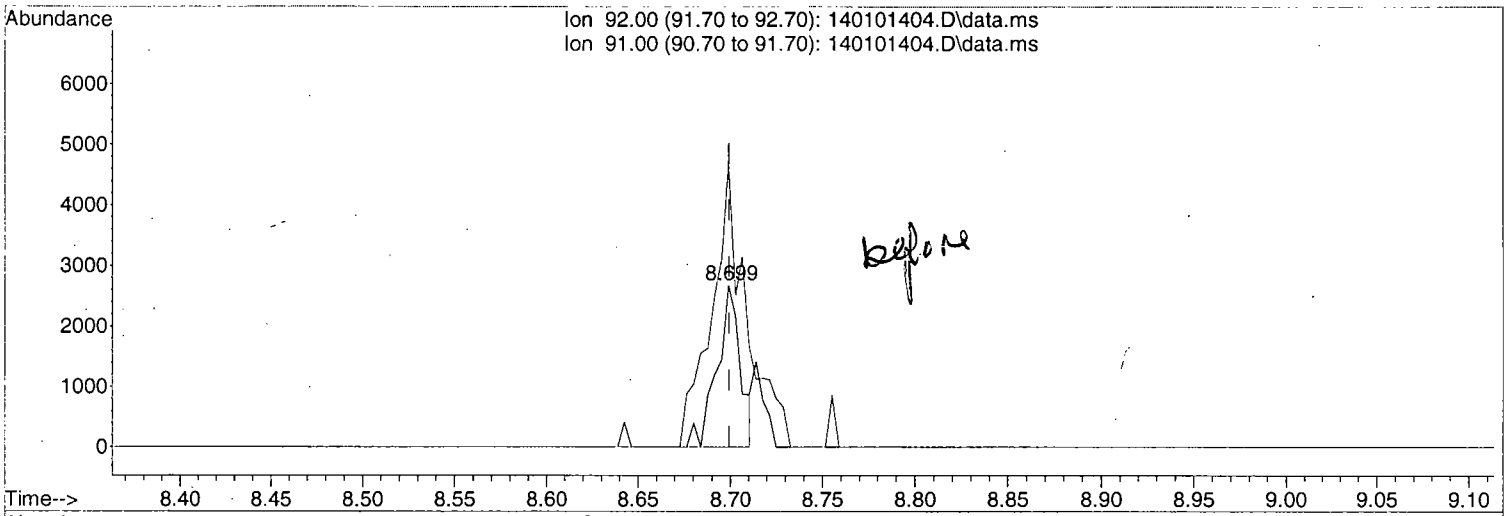


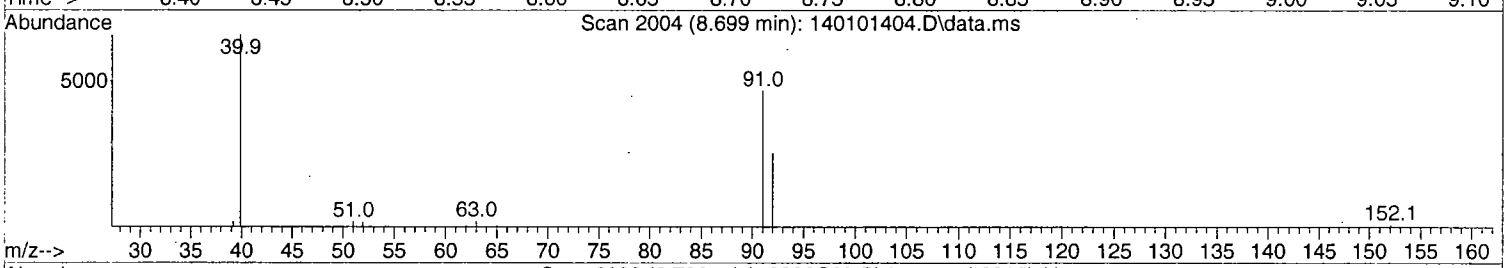
Freedom_0005792_0260

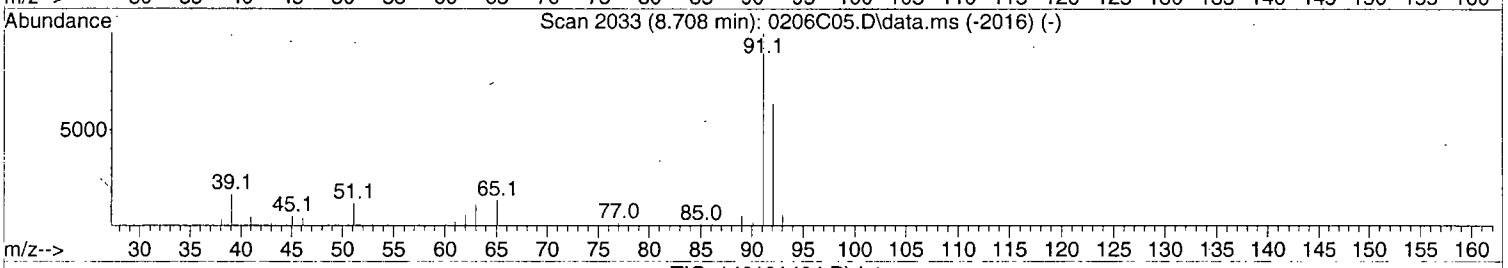
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:05:13 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 140101404.D\data.ms

(42) TOLUENE (TMCP)

8.699min (-0.000) 0.12 ug/L

response 2363

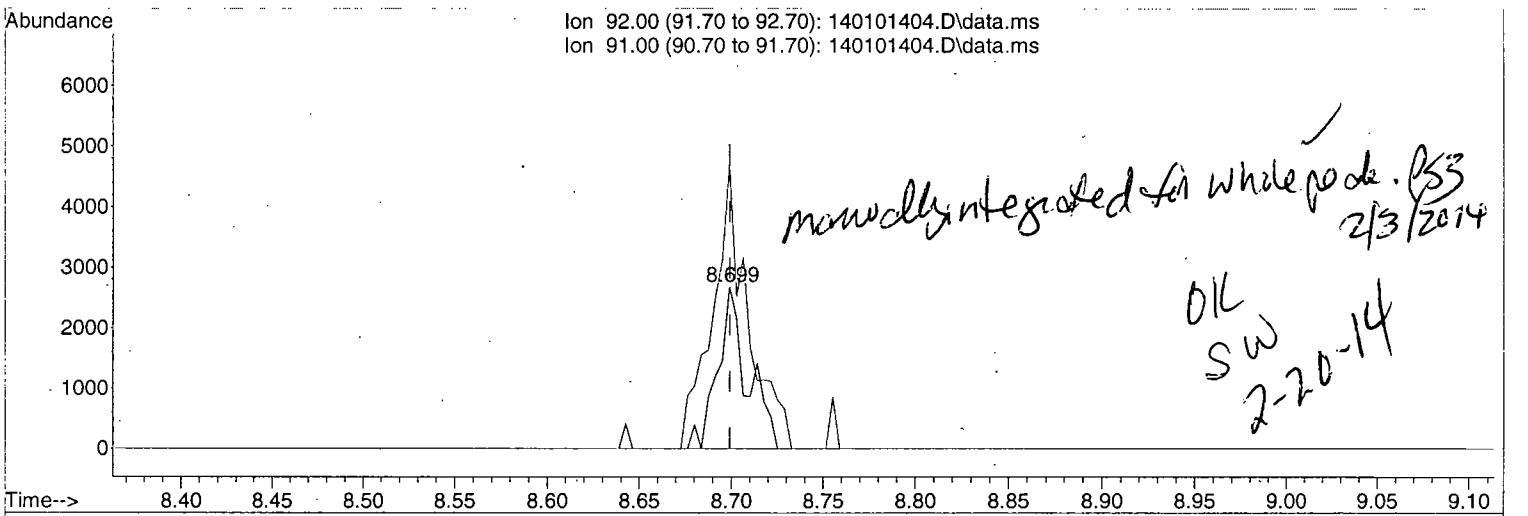
Ion	Exp%	Act%
92.00	100	100
91.00	174.10	263.06#
0.00	0.00	0.00
0.00	0.00	0.00

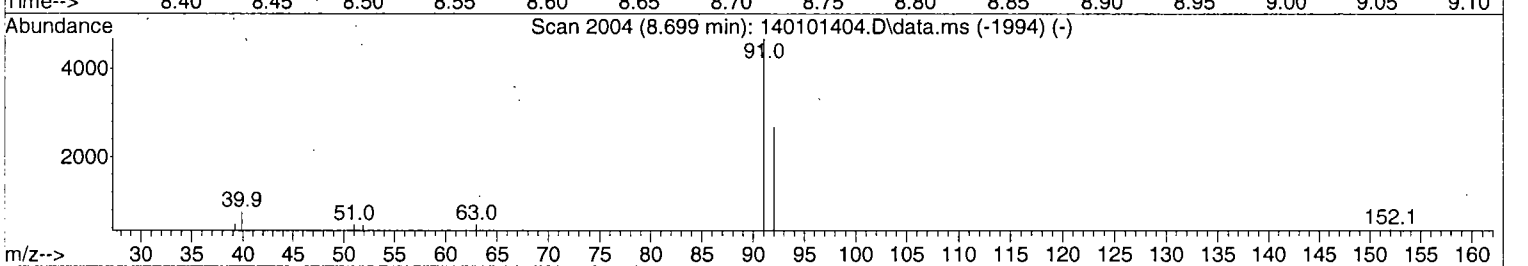
Freedom_0005792_0261

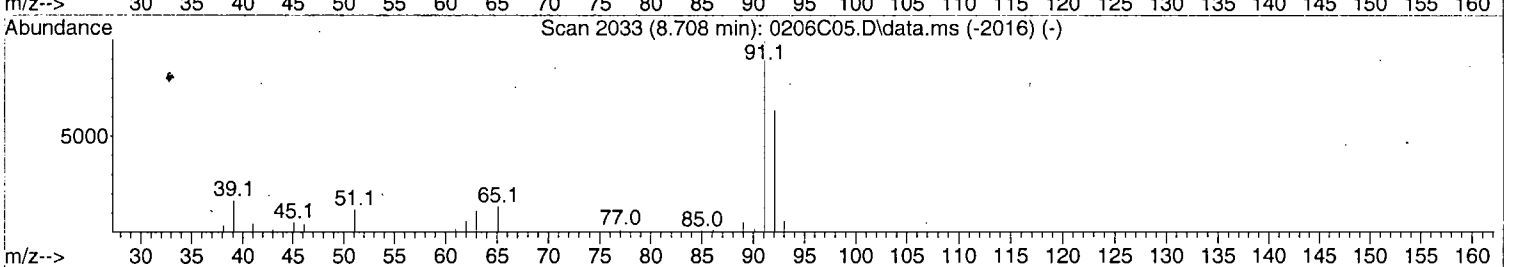
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:05:13 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 140101404.D\data.ms

(42) TOLUENE (TMCP)

8.699min (-0.000) 0.15 ug/L m

response 2976

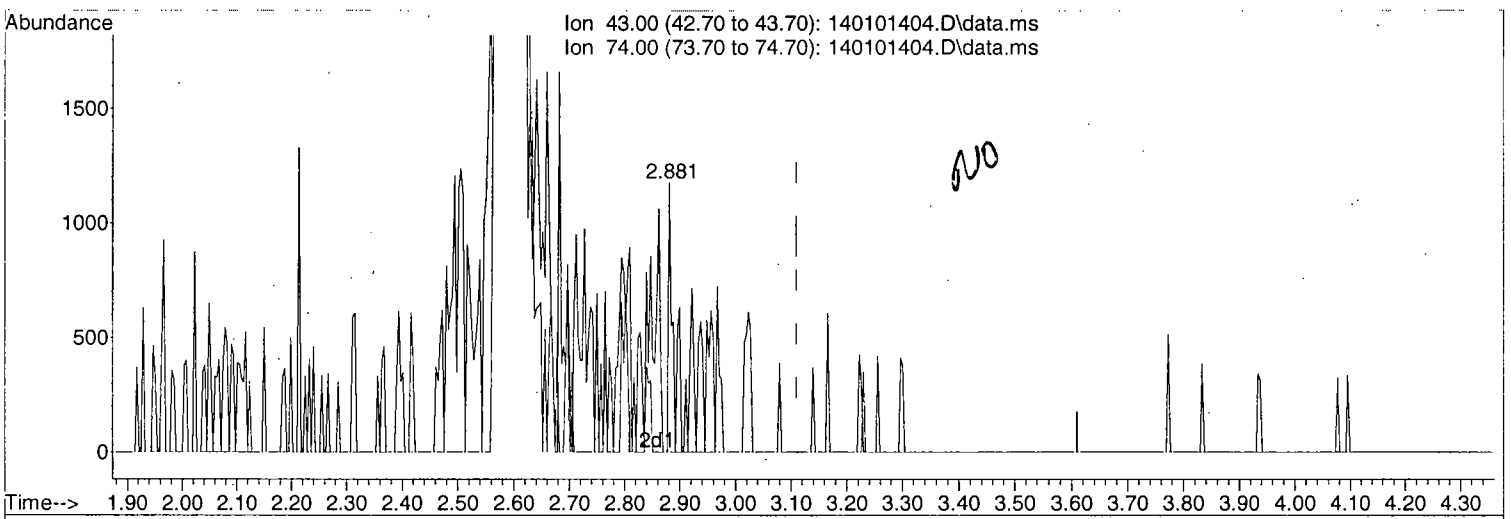
Ion	Exp%	Act%
92.00	100	100
91.00	174.10	208.87
0.00	0.00	0.00
0.00	0.00	0.00

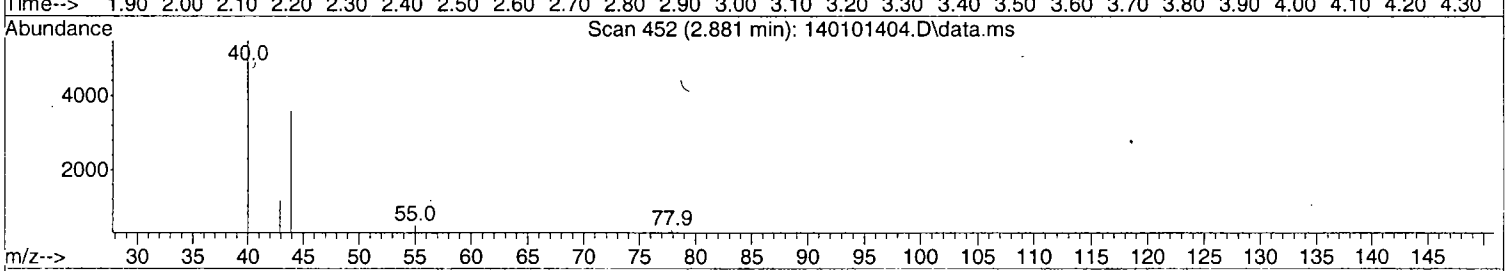
Freedom_0005792_0262

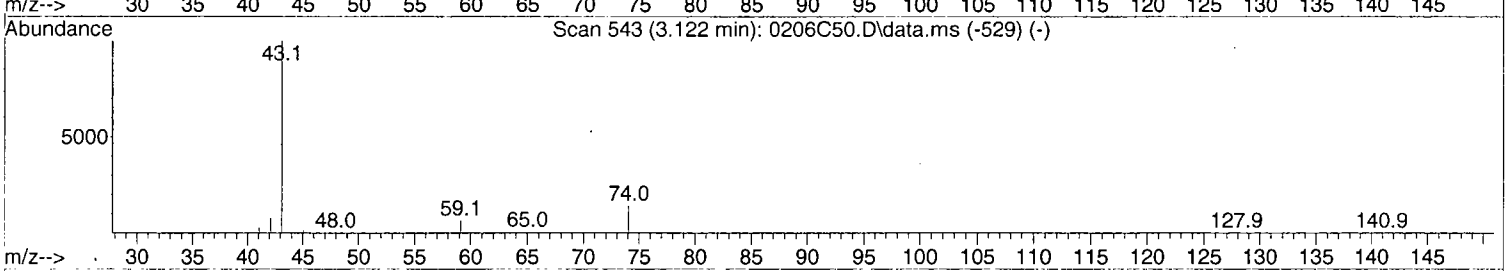
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 30 15:05:13 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 140101404.D\data.ms

(13) METHYL ACETATE (TMCP)

2.881min (-0.229) 0.07 ug/L

response 516

Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0263

LSC Area Percent Report

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 140101404.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.442	66	68	73	rVB	12414	8192	2.34%	0.331%
2	1.745	145	149	153	rBV3	6140	5607	1.60%	0.227%
3	1.805	163	165	169	rVB	6681	4165	1.19%	0.168%
4	2.004	217	218	222	rBV2	5934	3994	1.14%	0.161%
5	2.184	263	266	271	rVB3	6802	6543	1.87%	0.265%
6	2.214	271	274	276	rBV2	7240	4844	1.38%	0.196%
7	2.394	320	322	327	rVB2	4337	4283	1.22%	0.173%
8	2.461	335	340	344	rBV2	3916	5964	1.70%	0.241%
9	2.589	362	374	392	rBV2	134609	300123	85.74%	12.133%
10	2.735	408	413	418	rVB3	5502	6388	1.82%	0.258%
11	3.110	510	513	518	rVB2	4546	4852	1.39%	0.196%
12	3.237	542	547	551	rVB2	3401	4423	1.26%	0.179%
13	3.421	593	596	601	rVB2	5066	3905	1.12%	0.158%
14	3.481	610	612	618	rVB2	4051	4444	1.27%	0.180%
15	3.728	673	678	679	rVB2	4214	3968	1.13%	0.160%
16	3.818	691	702	703	rBV3	3945	6237	1.78%	0.252%
17	3.923	726	730	738	rBV2	5711	7095	2.03%	0.287%
18	4.377	850	851	858	rBV	3741	3853	1.10%	0.156%
19	4.617	911	915	917	rBV2	4711	3810	1.09%	0.154%
20	4.834	971	973	979	rVB2	4135	5379	1.54%	0.217%
21	4.860	979	980	985	rBV2	4783	4603	1.31%	0.186%
22	5.501	1140	1151	1163	rBV2	84405	161648	46.18%	6.535%
23	6.529	1409	1425	1441	rBV2	146086	278225	79.48%	11.248%
24	6.783	1487	1493	1496	rVB	3436	4386	1.25%	0.177%
25	6.870	1515	1516	1523	rBV2	4002	5052	1.44%	0.204%
26	7.728	1739	1745	1748	rBV2	4310	4433	1.27%	0.179%
27	7.897	1786	1790	1796	rVB	4540	5824	1.66%	0.235%
28	8.253	1880	1885	1886	rVB	4504	4403	1.26%	0.178%
29	8.620	1972	1983	1996	rBV2	187551	350049	100.00%	14.152%
30	8.699	1996	2004	2013	rVV4	10032	15131	4.32%	0.612%
31	8.980	2077	2079	2086	rVB2	4636	4985	1.42%	0.202%
32	9.021	2086	2090	2095	rBV2	3897	4201	1.20%	0.170%
33	9.475	2207	2211	2212	rVB2	5324	4072	1.16%	0.165%
34	9.561	2226	2234	2236	rBV	4515	6042	1.73%	0.244%
35	10.217	2400	2409	2411	rVB2	3258	4556	1.30%	0.184%
36	10.341	2428	2442	2455	rBV4	206127	346353	98.94%	14.002%
37	10.491	2477	2482	2487	rBV2	3619	4439	1.27%	0.179%
38	11.008	2616	2620	2627	rVB2	5909	6672	1.91%	0.270%
39	11.574	2770	2771	2777	rBV2	4273	4010	1.15%	0.162%

Freedom_0005792_0264

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

40	11.649	2781	2791	2800	rVV2	178468	242846	69.37%	9.818%
41	11.814	2833	2835	2840	rVB2	6767	4412	1.26%	0.178%
42	12.241	2947	2949	2954	rBV2	3347	3838	1.10%	0.155%
43	12.369	2980	2983	2988	rBV	4815	4222	1.21%	0.171%
44	12.429	2996	2999	3008	rBV	4999	4375	1.25%	0.177%
45	12.530	3024	3026	3029	rBV2	4874	4058	1.16%	0.164%
46	12.564	3029	3035	3038	rVV2	2989	4910	1.40%	0.199%
47	12.808	3093	3100	3110	rVB2	270263	346989	99.13%	14.028%
48	12.849	3110	3111	3116	rBV2	5879	4327	1.24%	0.175%
49	12.920	3128	3130	3137	rBV2	5687	4159	1.19%	0.168%
50	12.969	3137	3143	3147	rBV2	4157	3945	1.13%	0.159%
51	13.051	3162	3165	3168	rBV2	4602	4213	1.20%	0.170%
52	14.011	3416	3421	3428	rVB3	4222	5368	1.53%	0.217%
53	14.798	3628	3631	3637	rBV2	4605	4884	1.40%	0.197%
54	14.881	3648	3653	3656	rBV3	4226	4840	1.38%	0.196%
55	15.015	3685	3689	3691	rVB2	4986	4489	1.28%	0.181%
56	15.045	3694	3697	3703	rBV3	4787	4598	1.31%	0.186%
57	15.207	3739	3740	3745	rBV2	4269	4475	1.28%	0.181%
58	15.420	3793	3797	3802	rVB4	5786	5484	1.57%	0.222%
59	15.454	3802	3806	3809	rVB3	5281	4078	1.16%	0.165%
60	15.983	3944	3947	3950	rBV2	4211	4077	1.16%	0.165%
61	16.028	3953	3959	3965	rVV3	5701	9683	2.77%	0.391%
62	16.065	3966	3969	3972	rVB	6808	4114	1.18%	0.166%
63	16.402	4054	4059	4060	rBV2	5573	4781	1.37%	0.193%
64	16.601	4110	4112	4117	rVB3	6079	5370	1.53%	0.217%
65	16.759	4151	4154	4157	rVB2	4770	4060	1.16%	0.164%
66	16.879	4182	4186	4189	rVB2	5152	4220	1.21%	0.171%
67	17.028	4224	4226	4230	rVB2	6528	5130	1.47%	0.207%
68	17.145	4252	4257	4259	rBV4	5432	5579	1.59%	0.226%
69	17.190	4267	4269	4273	rVB3	8129	6879	1.97%	0.278%
70	17.220	4274	4277	4281	rVV4	5084	5257	1.50%	0.213%
71	17.336	4307	4308	4312	rVB2	4529	3959	1.13%	0.160%
72	17.400	4323	4325	4330	rVB3	6202	4906	1.40%	0.198%
73	17.613	4379	4382	4387	rVB5	5925	5966	1.70%	0.241%
74	17.666	4393	4396	4399	rVB3	6620	5400	1.54%	0.218%
75	17.714	4408	4409	4413	rVB3	4882	3924	1.12%	0.159%
76	17.733	4413	4414	4421	rBV2	5686	8287	2.37%	0.335%
77	17.789	4428	4429	4436	rBV3	3849	4630	1.32%	0.187%
78	17.913	4458	4462	4463	rVB2	5545	3809	1.09%	0.154%
79	17.996	4483	4484	4489	rBV4	5222	4297	1.23%	0.174%
80	18.044	4493	4497	4501	rBV3	8142	9026	2.58%	0.365%
81	18.078	4504	4506	4509	rVB2	7663	4699	1.34%	0.190%

Freedom_0005792_0265

LSC Area Percent Report

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

82	18.112	4509	4515	4516	rBV3	4817	5053	1.44%	0.204%
83	18.179	4530	4533	4536	rBV2	7304	5641	1.61%	0.228%
84	18.266	4552	4556	4557	rBV4	6275	6264	1.79%	0.253%
85	18.374	4583	4585	4591	rVB3	5071	5065	1.45%	0.205%
86	18.595	4642	4644	4649	rBV4	6411	5324	1.52%	0.215%
87	18.693	4665	4670	4676	rBV5	7279	12350	3.53%	0.499%
88	18.734	4679	4681	4688	rVB5	7150	8483	2.42%	0.343%
89	18.772	4688	4691	4695	rBV2	8129	6511	1.86%	0.263%
90	19.038	4758	4762	4764	rBV3	5208	4763	1.36%	0.193%
91	19.049	4764	4765	4769	rBV3	5544	4011	1.15%	0.162%
92	19.311	4834	4835	4839	rVB4	5622	4338	1.24%	0.175%

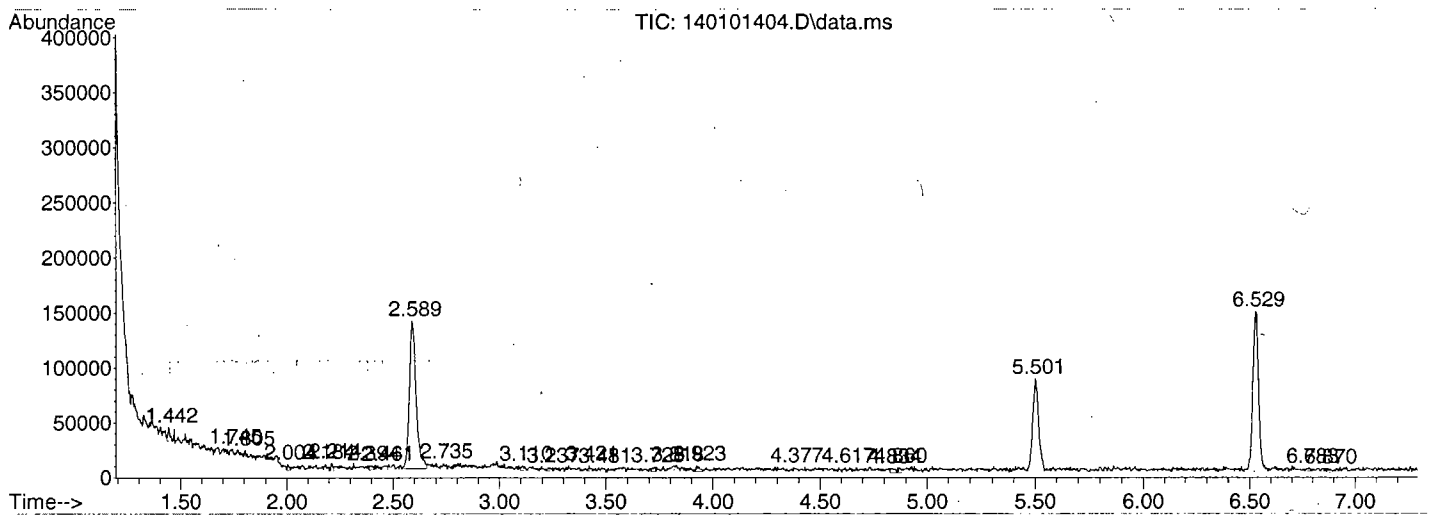
Sum of corrected areas: 2473519

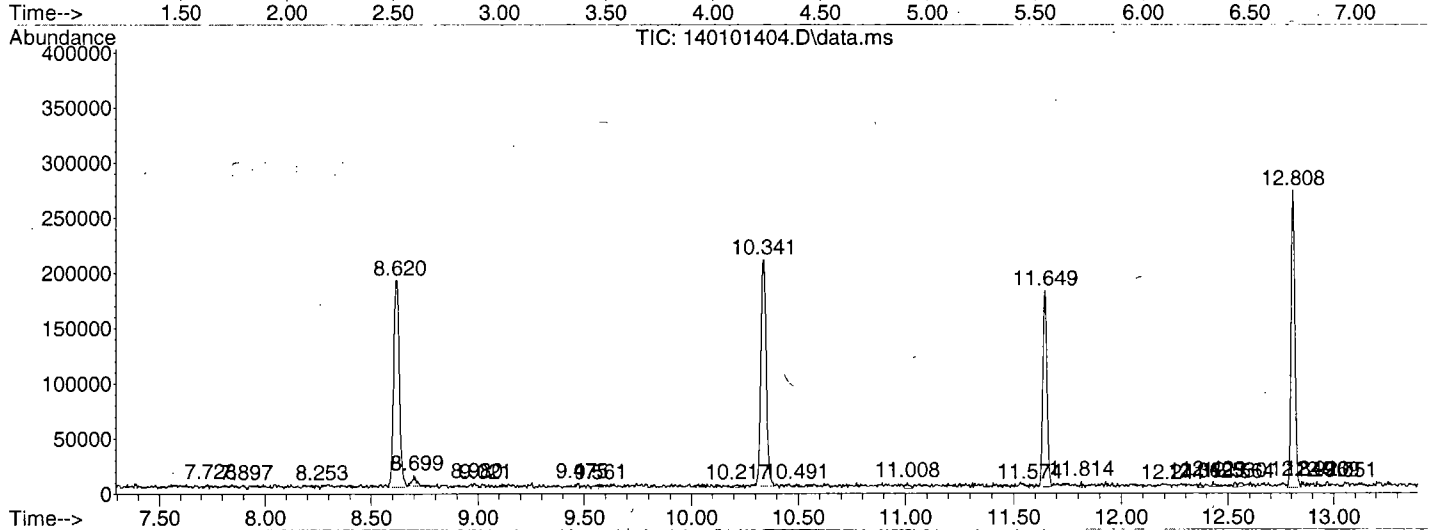
Freedom_0005792_0266

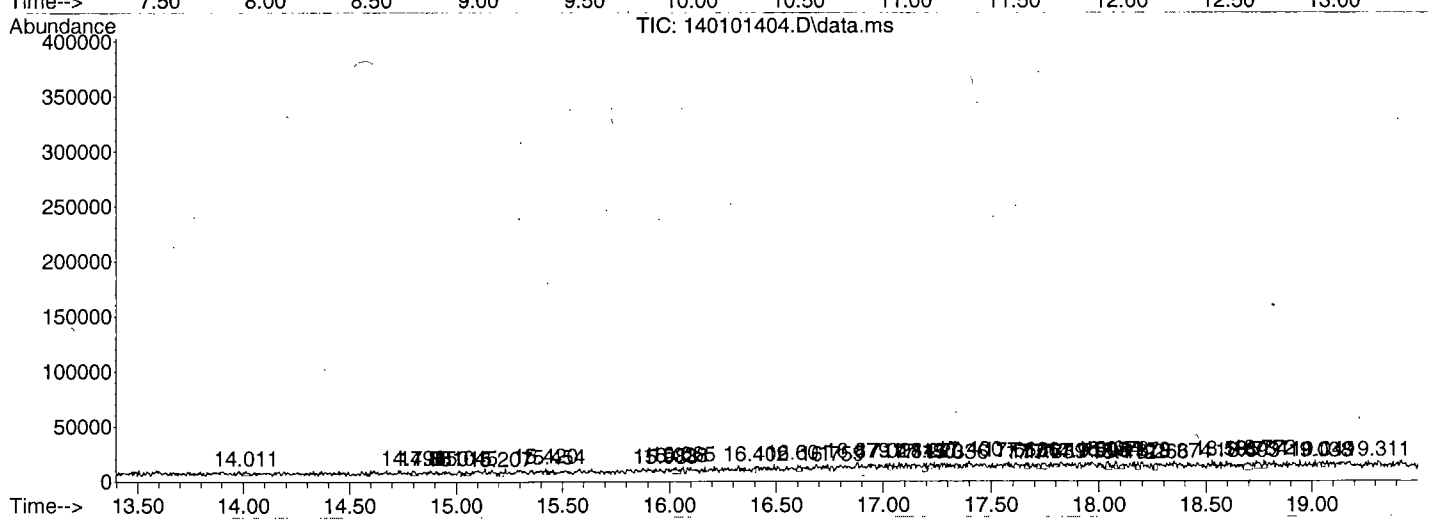
Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P







Freedom_0005792_0267

Library Search Compound Report

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

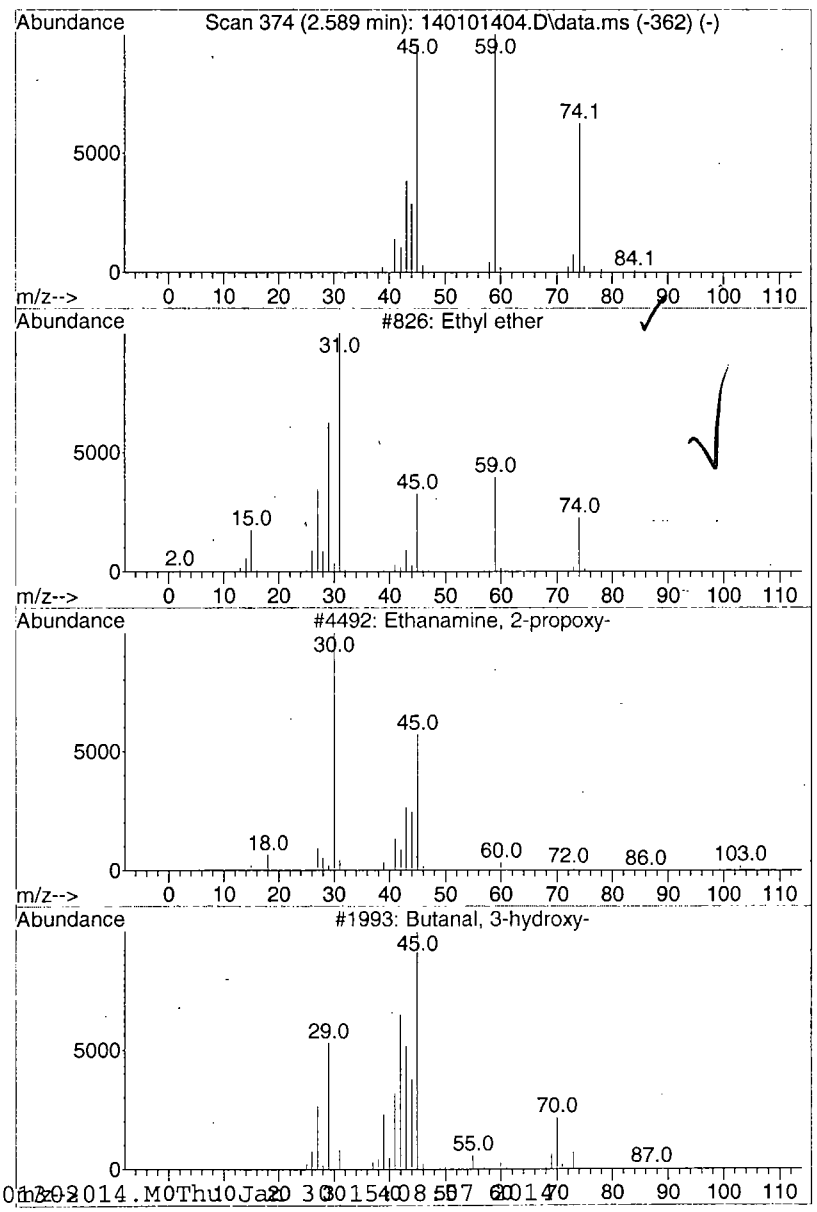
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

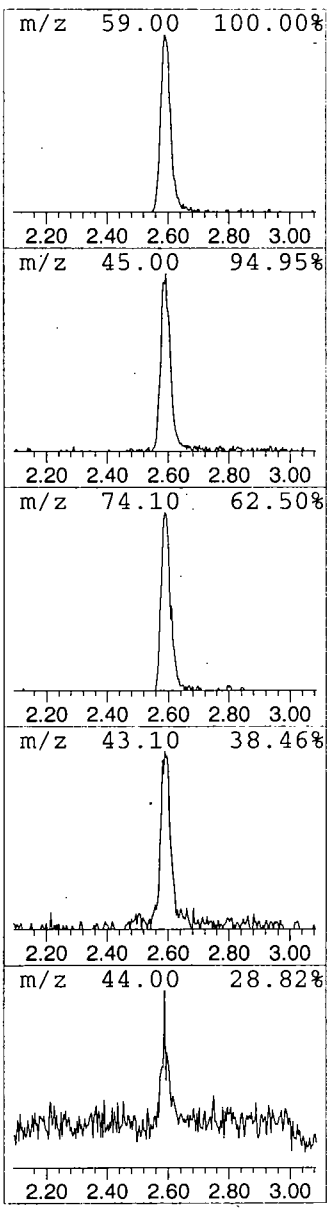
****

Peak Number 1 Ethyl ether Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.589	5.39 ug/L	300123	1,4-DIFLUOROBENZENE	6.525

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethyl ether	74	C4H10O	000060-29-7	72
2	Ethanamine, 2-propoxy-	103	C5H13NO	042185-03-5	35
3	Butanal, 3-hydroxy-	88	C4H8O2	000107-89-1	17
4	Hydrazine, trimethyl-	74	C3H10N2	001741-01-1	9
5	Aminoguanidine	74	CH6N4	000079-17-4	9





Freedom_0005792_0268

Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L01302014\
Data File : 140101404.D
Acq On : 30 Jan 2014 14:44
Operator : PZ PZ1-AG5975
Sample : 1401014-04
Misc : A, FB01
ALS Vial : 15 Sample Multiplier: 1

Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Ethyl ether	2.589	5.4	ug/L	300123	1	6.525	278225	5.0

Freedom_0005792_0269

Quantitation Report (QT Reviewed)

TIC2

Data Path : D:\DATA\L02062014\
Data File : 140101407.D
Acq On : 6 Feb 2014 12:37
Operator : PZ PZ1-AG5975
Sample : 1401014-07
Misc : B, Seep-1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 06 13:29:35 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.525	114	112964	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.341	117	107231	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	51298	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.502	65	67307	6.01	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	=	120.20%#	A
41) TOLUENE-d8	8.624	98	133543	4.67	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	=	93.40%	
59) 4-BROMOFLUOROBENZENE	11.646	95	50096	4.83	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	=	96.60%	
Target Compounds						Qvalue
8) ACETONE	2.495	43	4349	1.55	ug/L #	47

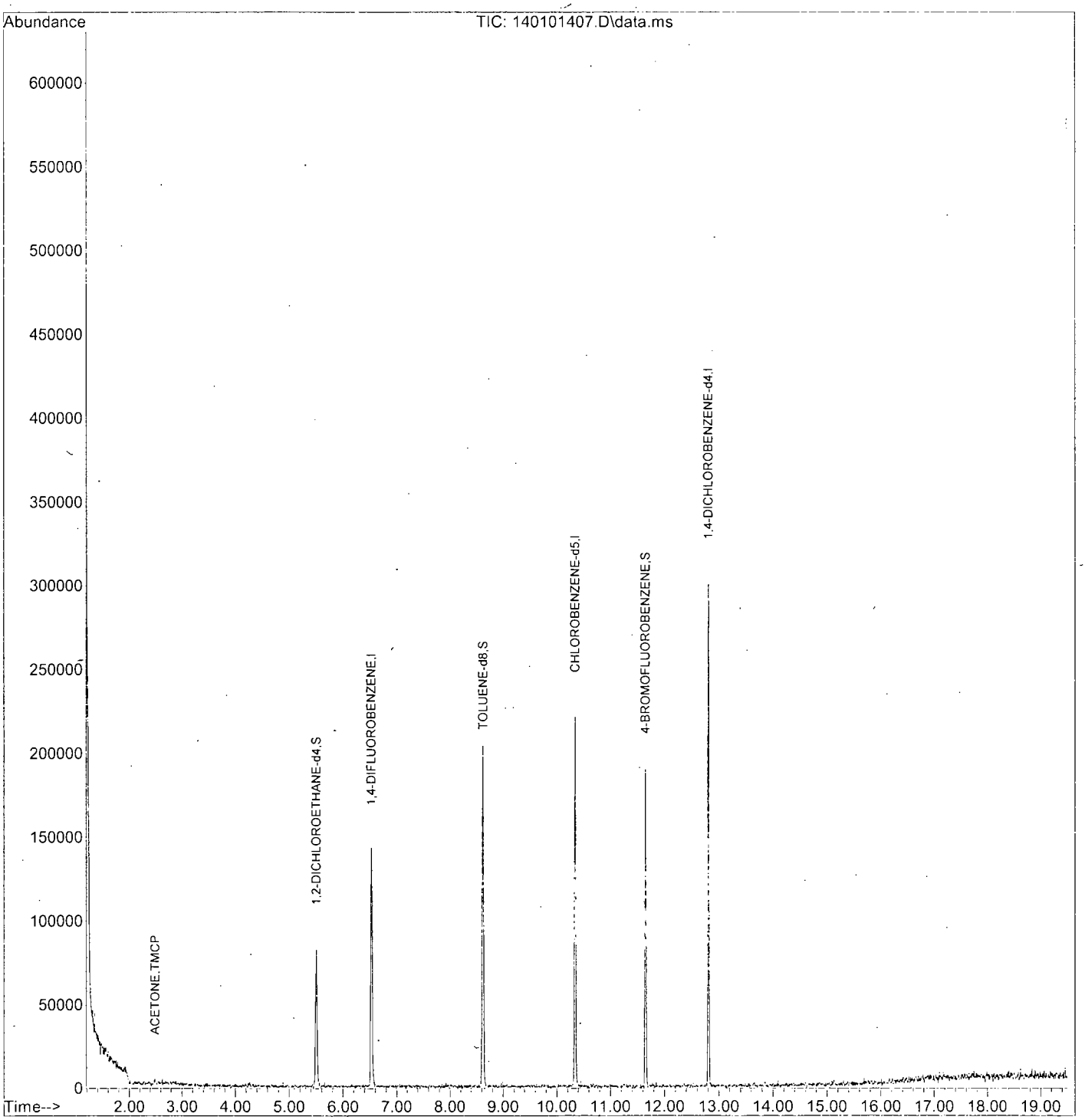
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0270

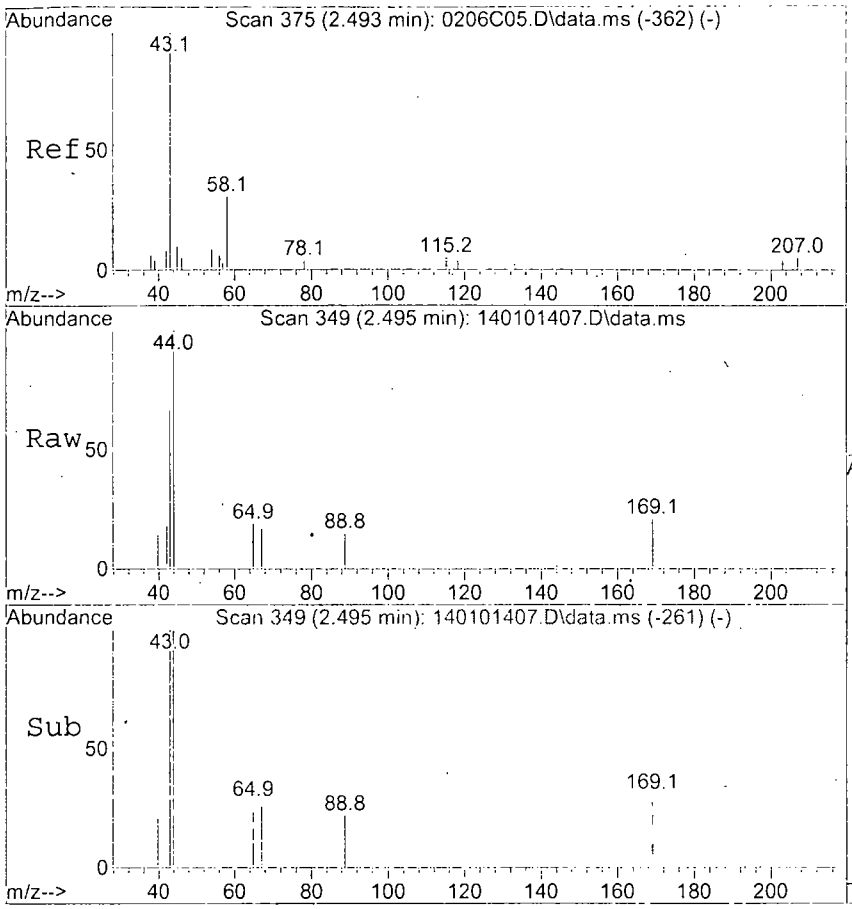
Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02062014\
Data File : 140101407.D
Acq On : 6 Feb 2014 12:37
Operator : PZ PZ1-AG5975
Sample : 1401014-07
Misc : B, Seep-1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 06 13:29:35 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration



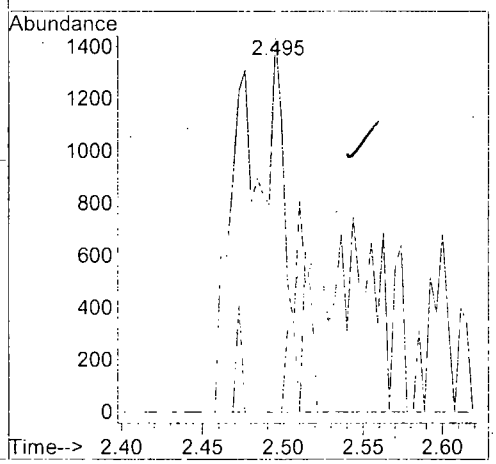
Freedom_0005792_0271



#8
ACETONE
Concen: 1.55 ug/L
RT: 2.495 min Scan# 349
Delta R.T. 0.030 min
Lab File: 140101407.D
Acq: 6 Feb 2014 12:37

Tgt Ion: 43 Resp: 4349

Ion	Ratio	Lower	Upper
43	100		
58	0.0	22.5	33.7#

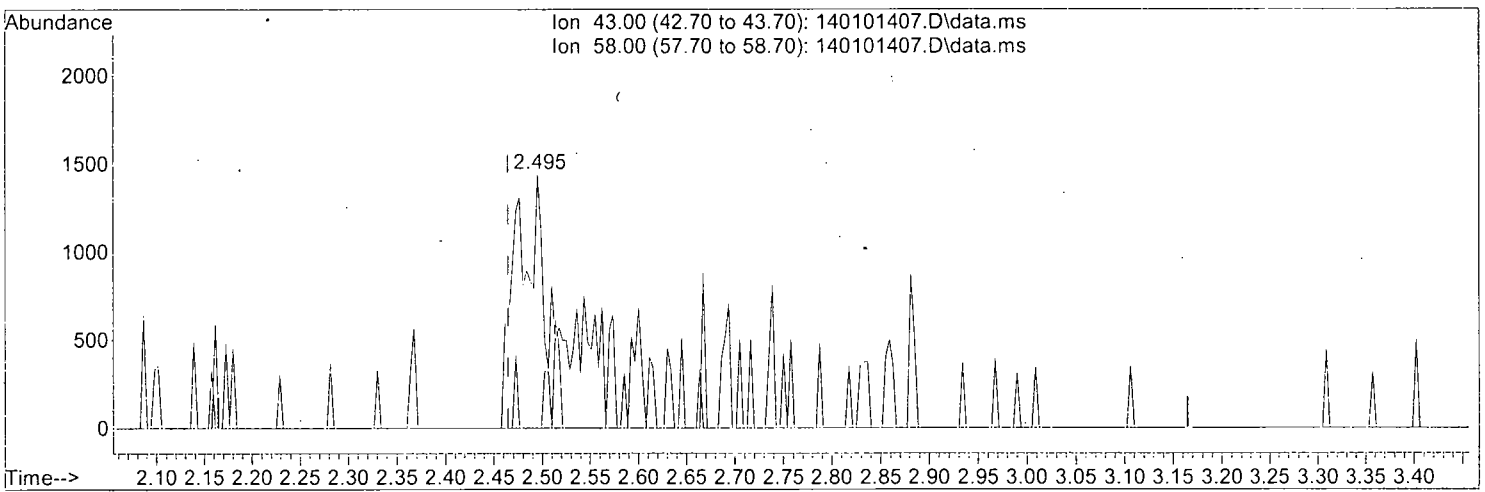


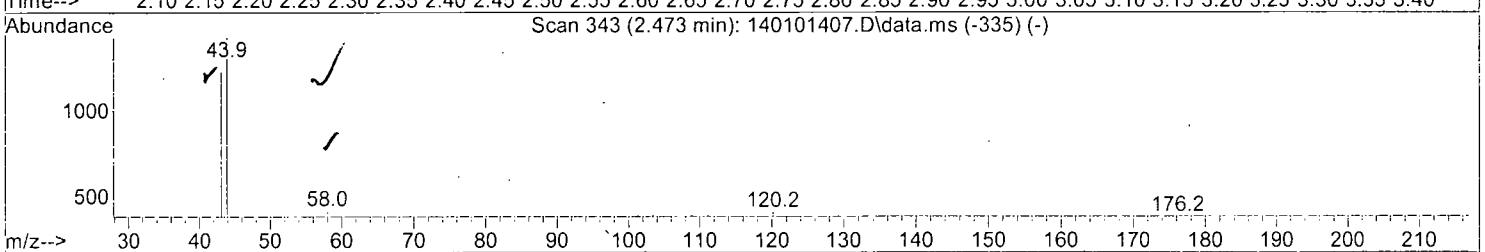
Freedom_0005792_0272

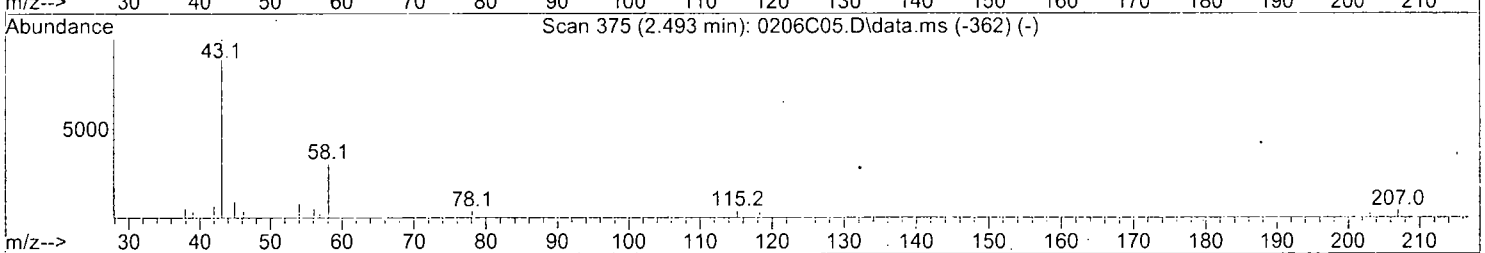
Quantitation Report (Qedit)

Data Path : D:\DATA\L02062014\
Data File : 140101407.D
Acq On : 6 Feb 2014 12:37
Operator : PZ PZ1-AG5975
Sample : 1401014-07
Misc : B, Seep-1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 06 13:29:35 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration







TIC: 140101407.D\data.ms

(8) ACETONE (TMCP)

2.495min (+0.030) 1.55 ug/L

response 4349

Ion	Exp%	Act%
43.00	100	100
58.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0273

LSC Area Percent Report

Data Path : D:\DATA\L02062014\
Data File : 140101407.D
Acq On : 6 Feb 2014 12:37
Operator : PZ PZ1-AG5975
Sample : 1401014-07
Misc : B, Seep-1
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 140101407.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.502	1136	1151	1164	rBV3	83298	174334	47.93%	9.349%
2	6.529	1411	1425	1440	rVB2	143807	282449	77.65%	15.147%
3	8.620	1971	1983	1995	rBV3	203919	355349	97.69%	19.056%
4	10.341	2432	2442	2456	rVB3	220437	355205	97.65%	19.048%
5	11.649	2783	2791	2802	rBV	190107	261348	71.85%	14.015%
6	12.808	3091	3100	3111	rVB2	300054	363739	100.00%	19.506%
7	15.128	3712	3719	3725	rBV2	3761	5620	1.55%	0.301%
8	16.350	4044	4045	4052	rBV2	5365	5823	1.60%	0.312%
9	16.406	4057	4060	4065	rVV2	5425	5326	1.46%	0.286%
10	17.171	4259	4264	4267	rBV2	7190	8317	2.29%	0.446%
11	17.268	4287	4290	4294	rVB2	6765	5493	1.51%	0.295%
12	17.883	4450	4454	4460	rVB5	3952	5435	1.49%	0.291%
13	17.977	4472	4479	4480	rBV3	6298	7997	2.20%	0.429%
14	18.502	4615	4619	4625	rVB	5140	6922	1.90%	0.371%
15	18.622	4645	4651	4653	rBV2	7432	5150	1.42%	0.276%
16	18.835	4703	4708	4711	rBV3	6496	5124	1.41%	0.275%
17	19.289	4826	4829	4832	rBV2	5595	5653	1.55%	0.303%
18	19.364	4844	4849	4852	rBV3	4921	5472	1.50%	0.293%

Sum of corrected areas: 1864756

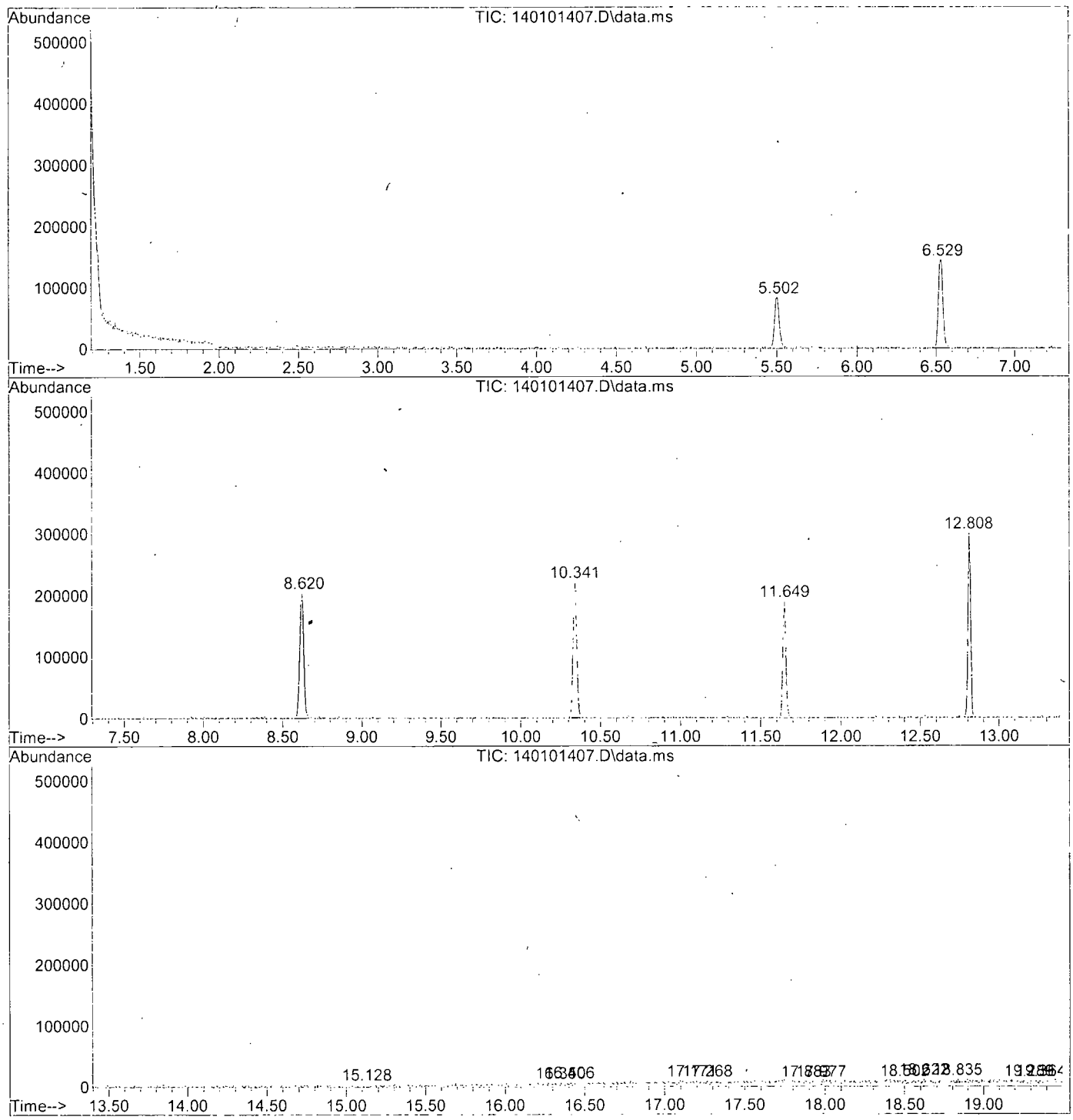
Freedom_0005792_0274

LSC Report - Integrated Chromatogram

Data Path : D:\DATA\L02062014\
Data File : 140101407.D
Acq On : 6 Feb 2014 12:37
Operator : PZ PZ1-AG5975
Sample : 1401014-07
Misc : B, Seep-1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L02062014\\
Data File : 140101407.D
Acq On : 6 Feb 2014 12:377
Operator : PZ PZ1-AG59755
Sample : 1401014-077
Misc : B, Seep-11
ALS Vial : 7 Sample Multiplier: 11

Quant Method : D:\METHODS\L02042014.MM
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Methodd

TIC Library : C:\Database\NIST05a.LL
TIC Integration Parameters: LSCINT.PP

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

No Library Search Compounds Detected
****

Freedom_0005792_0276

Quantitation Report (QT Reviewed)

-1 TIC

Data Path : D:\DATA\L02042014\
Data File : 140101408.D
Acq On : 4 Feb 2014 18:11
Operator : PZ PZ1-AG5975
Sample : 1401014-08
Misc : A, TB02
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 05 07:45:17 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.528	114	127373	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.341	117	126708	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.807	152	60836	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.501	65	73165	5.80	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	=	116.00%#	
41) TOLUENE-d8	8.620	98	155308	4.60	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	=	92.00%	
59) 4-BROMOFLUOROBENZENE	11.649	95	62326	5.06	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	=	101.20%	
Target Compounds						Qvalue
10) METHYLENE CHLORIDE	2.982	84	1798m	0.18	ug/L	
42) TOLUENE	8.703	92	3440	0.13	ug/L	75

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

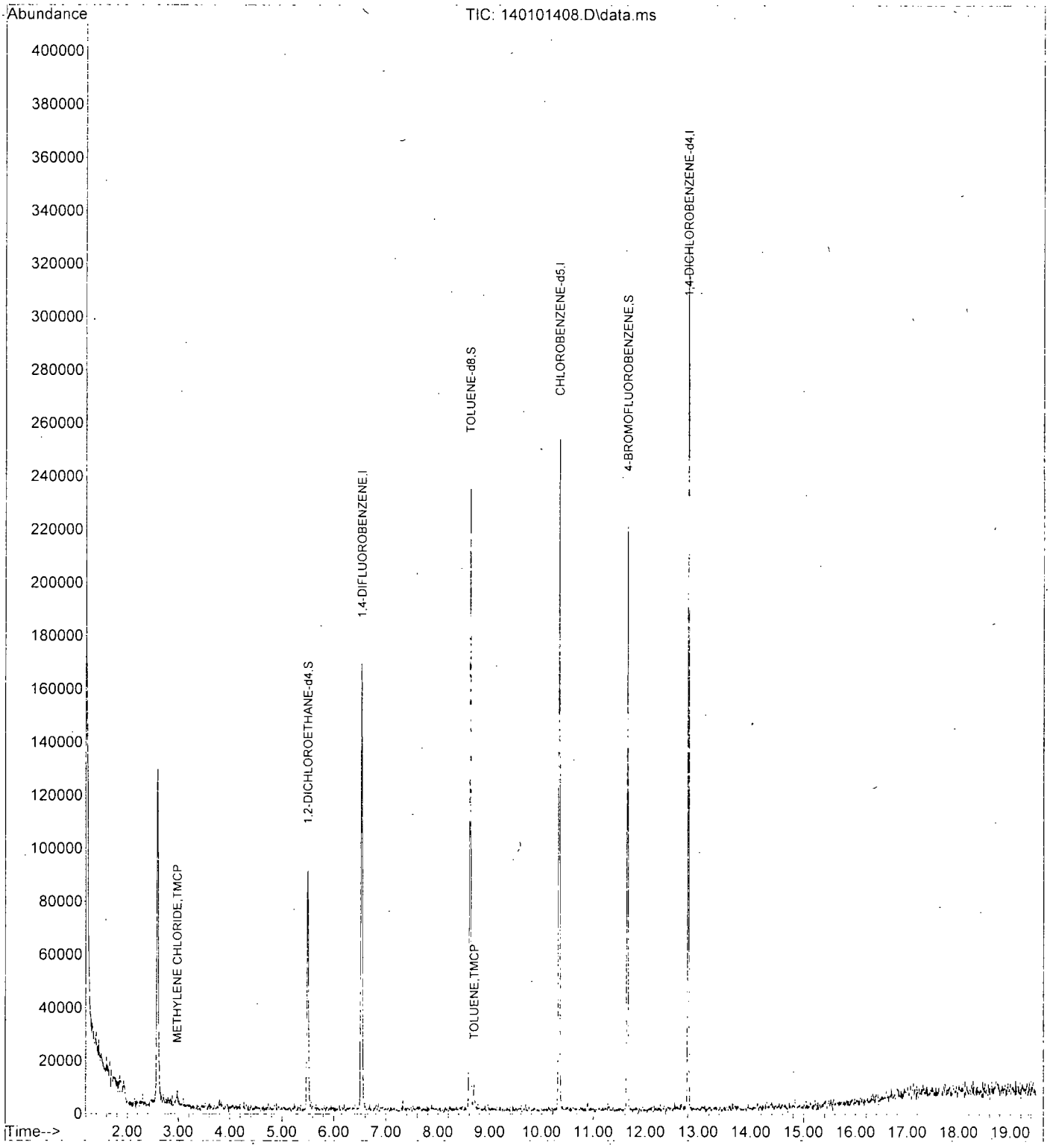
A

Freedom_0005792_0277

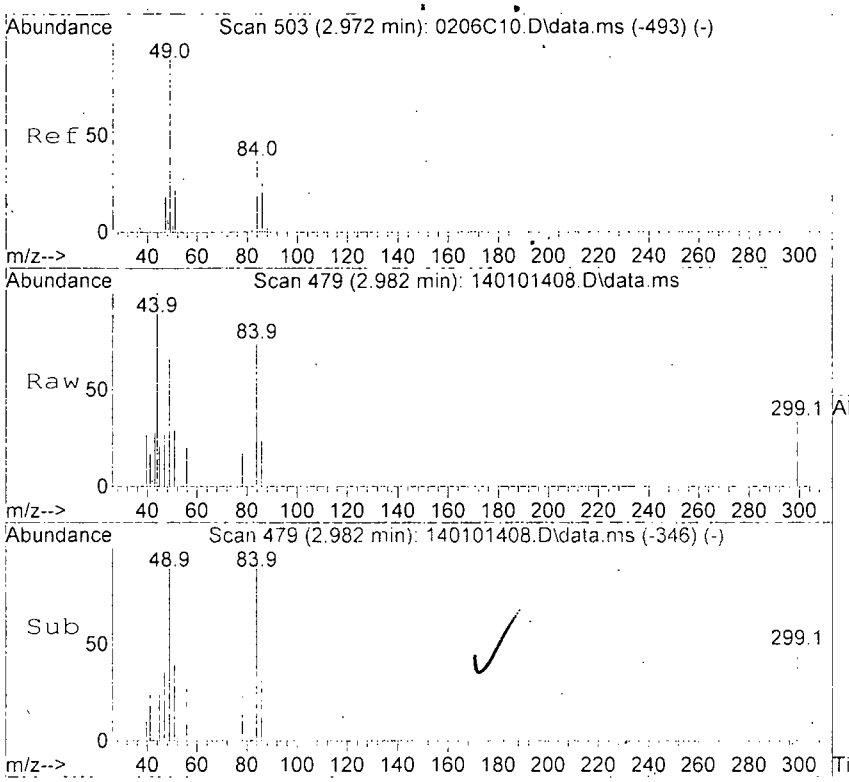
Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 140101408.D
Acq On : 4 Feb 2014 18:11
Operator : PZ PZ1-AG5975
Sample : 1401014-08
Misc : A, TB02
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 05 07:45:17 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration



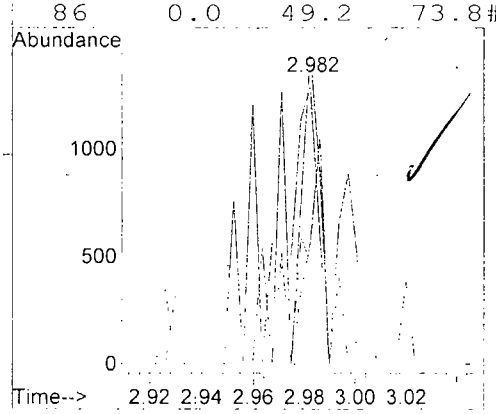
Freedom_0005792_0278

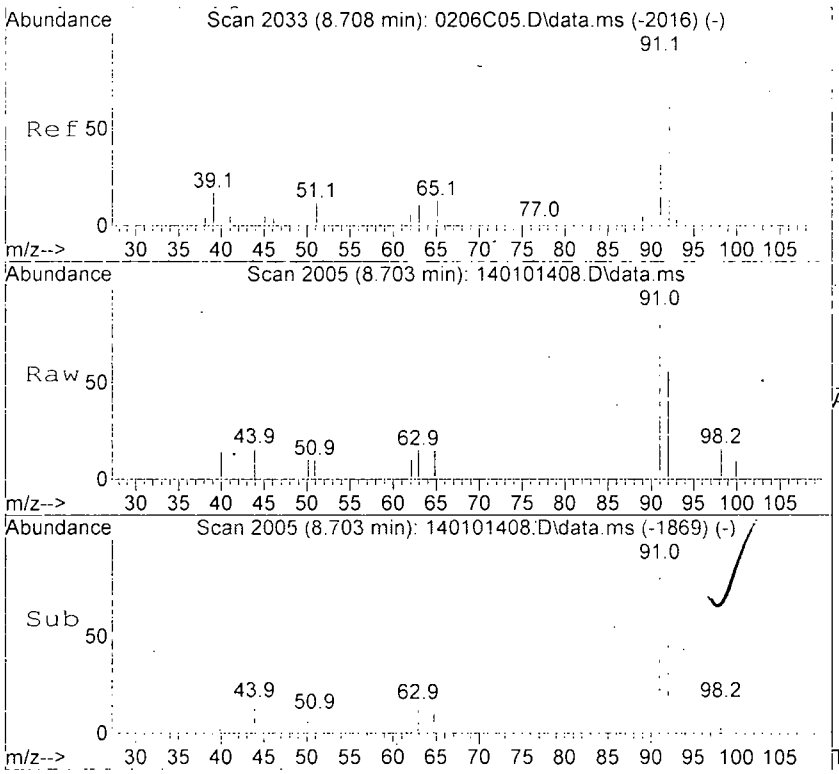


#10
METHYLENE CHLORIDE
Concen: 0.18 ug/L m
RT: 2.982 min Scan# 479
Delta R.T. -0.000 min
Lab File: 140101408.D
Acq: 4 Feb 2014 18:11

Tgt Ion: 84 Resp: 1798

Ion	Ratio	Lower	Upper
84	100		
49	62.0	102.1	153.1#
51	0.0	31.0	46.6#
86	0.0	49.2	73.8#

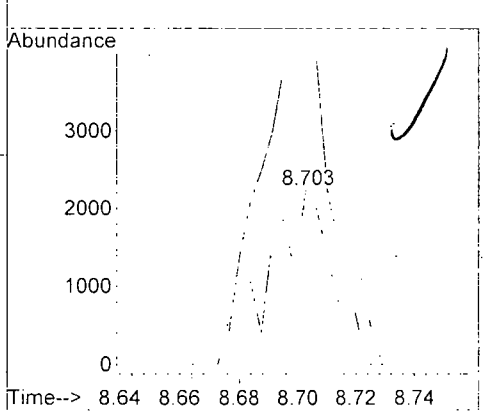




#42
TOLUENE
Concen: 0.13 ug/L
RT: 8.703 min Scan# 2005
Delta R.T. 0.011 min
Lab File: 140101408.D
Acq: 4 Feb 2014 18:11

Tgt Ion: 92 Resp: 3440

Ion	Ratio	Lower	Upper
92	100		
91	208.8	139.3	208.9

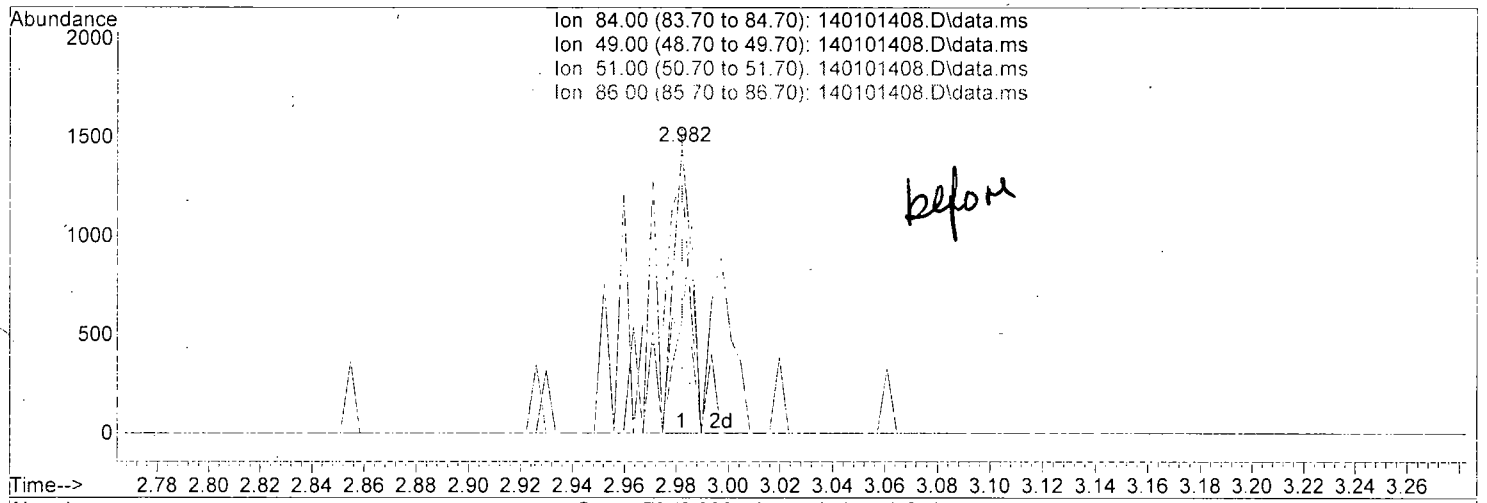


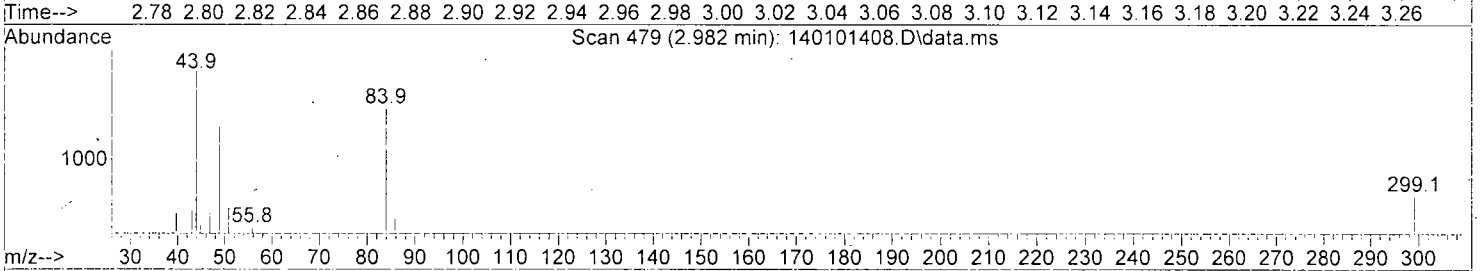
Freedom_0005792_0279

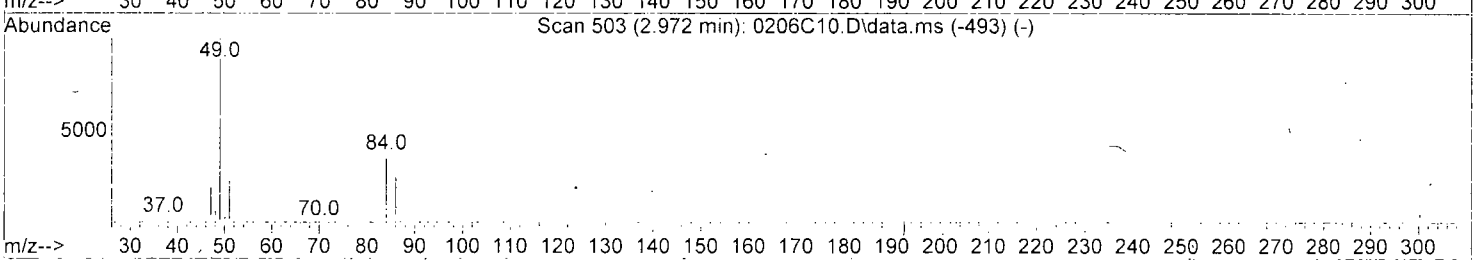
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 140101408.D
Acq On : 4 Feb 2014 18:11
Operator : PZ PZ1-AG5975
Sample : 1401014-08
Misc : A, TB02
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 05 07:44:02 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 140101408.D\data.ms

(10) METHYLENE CHLORIDE (TMCP)

2.982min (-0.000) 0.07 ug/L

response 696

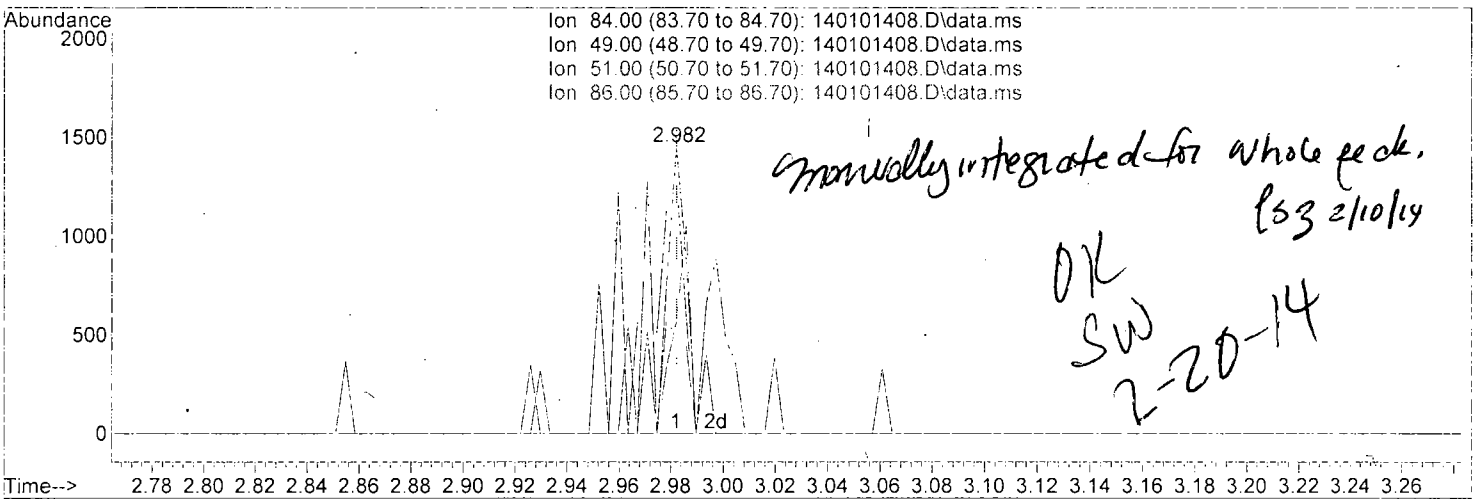
Ion	Exp%	Act%
84.00	100	100
49.00	127.60	160.06#
51.00	38.80	0.00#
86.00	61.50	0.00#

Freedom_0005792_0280

Quantitation Report (Qedit)

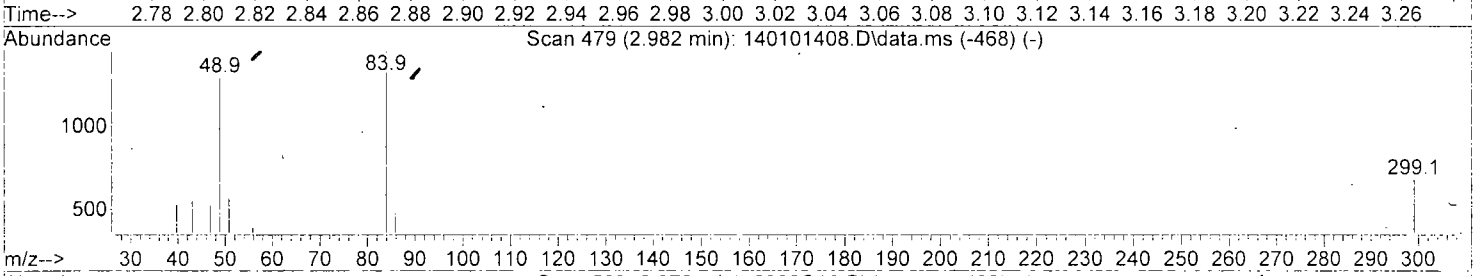
Data Path : D:\DATA\L02042014\
Data File : 140101408.D
Acq On : 4 Feb 2014 18:11
Operator : PZ PZ1-AG5975
Sample : 1401014-08
Misc : A, TB02
ALS Vial : 18 Sample Multiplier: 1

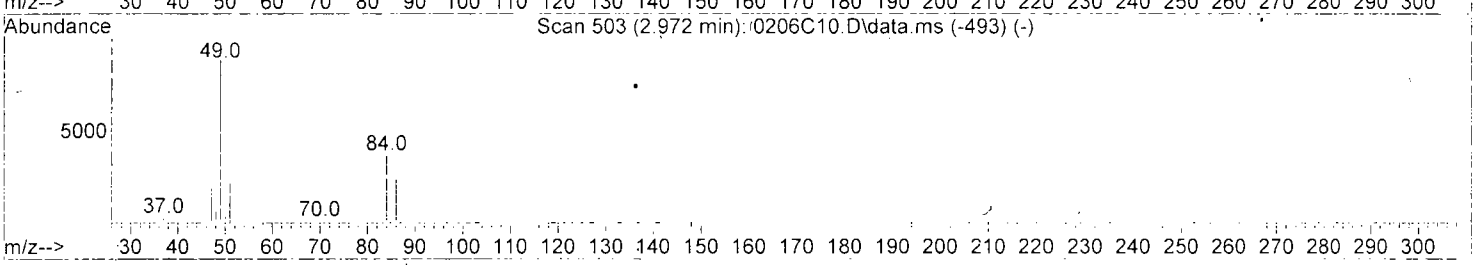
Quant Time: Feb 05 07:44:02 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration



manually integrated for whole peak. RSJ 2/10/14

OK SW 2-20-14





TIC: 140101408.D\data.ms

(10) METHYLENE CHLORIDE (TMCP)

2.982min (-0.000) 0.18 ug/L m

response 1798

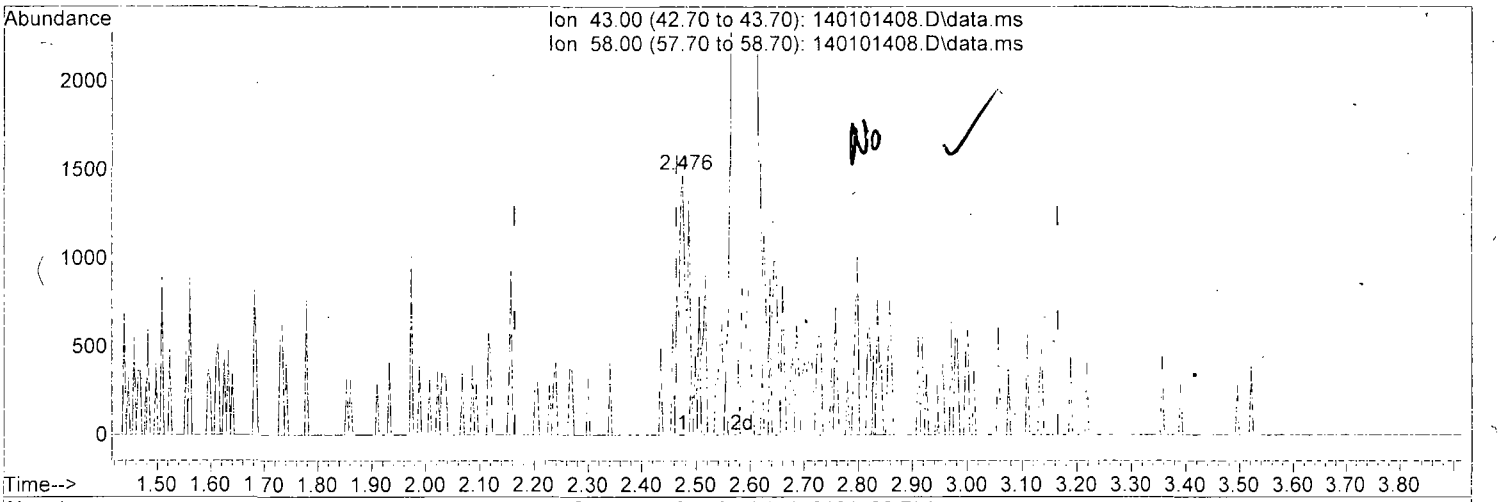
Ion	Exp%	Act%
84.00	100	100
49.00	127.60	61.96#
51.00	38.80	0.00#
86.00	61.50	0.00#

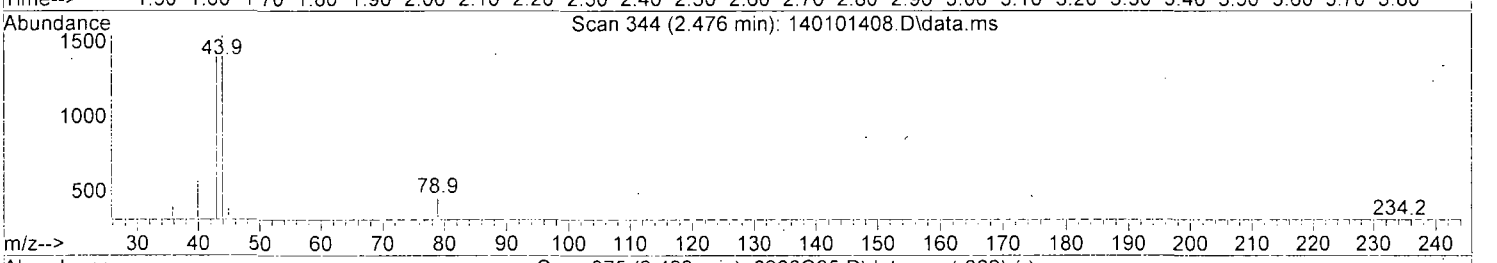
Freedom_0005792_0281

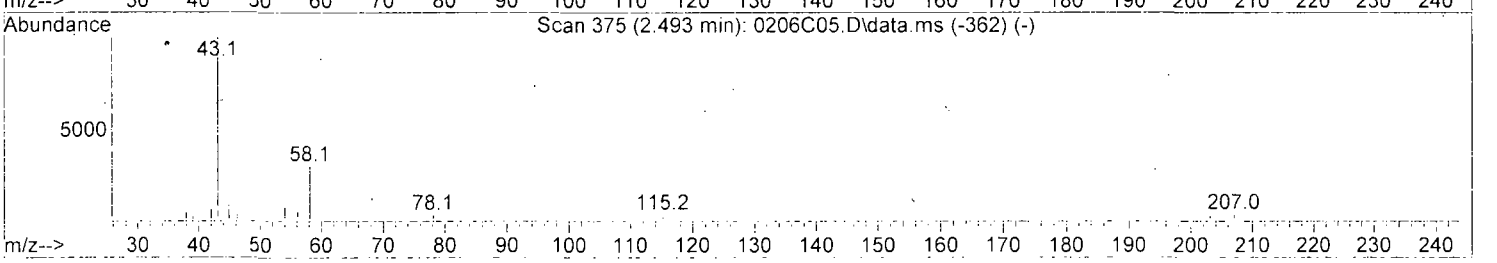
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 140101408.D
Acq On : 4 Feb 2014 18:11
Operator : PZ PZ1-AG5975
Sample : 1401014-08
Misc : A, TB02
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 05 07:44:02 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 140101408.D\data.ms

(8) ACETONE (TMCP)

2.476min (+0.011) 0.84 ug/L

response 2667

Ion	Exp%	Act%
43.00	100	100
58.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0282

LSC Area Percent Report

Data Path : D:\DATA\L02042014\
Data File : 140101408.D
Acq On : 4 Feb 2014 18:11
Operator : PZ PZ1-AG5975
Sample : 1401014-08
Misc : A, TB02
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 140101408.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.659	123	126	132	rVB2	10812	13719	3.24%	0.538%
2	1.693	132	135	141	rBV3	6967	8815	2.08%	0.346%
3	1.858	178	179	183	rBV	7328	5373	1.27%	0.211%
4	1.929	197	198	211	rVB2	10457	18740	4.43%	0.735%
5	2.184	261	266	269	rBV2	4623	5902	1.39%	0.231%
6	2.217	269	275	279	rVB2	3397	5382	1.27%	0.211%
7	2.592	362	375	386	rBV3	125886	267697	63.24%	10.497%
8	2.982	467	479	482	rBV4	6431	9326	2.20%	0.366%
9	5.501	1139	1151	1164	rBV3	91147	183987	43.46%	7.215%
10	6.525	1414	1424	1440	rBV2	168253	316463	74.76%	12.409%
11	8.620	1967	1983	1994	rBV2	237872	415756	98.21%	16.303%
12	8.695	1997	2003	2013	rVB3	9468	15464	3.65%	0.606%
13	9.430	2191	2199	2201	rVB	3674	4289	1.01%	0.168%
14	10.337	2429	2441	2456	rBV2	254010	403441	95.30%	15.820%
15	11.649	2781	2791	2802	rVB2	224416	304472	71.92%	11.939%
16	12.807	3089	3100	3116	rVB2	341193	423332	100.00%	16.600%
17	13.954	3399	3406	3412	rBV2	3407	5117	1.21%	0.201%
18	15.214	3739	3742	3750	rVB2	5744	6756	1.60%	0.265%
19	15.578	3833	3839	3843	rBV2	5189	7823	1.85%	0.307%
20	16.399	4054	4058	4061	rBV3	5031	4849	1.15%	0.190%
21	16.425	4061	4065	4069	rVB3	5222	4946	1.17%	0.194%
22	16.803	4156	4166	4170	rBV5	4945	6450	1.52%	0.253%
23	16.826	4170	4172	4176	rVB3	6940	4412	1.04%	0.173%
24	16.950	4202	4205	4208	rBV	4938	5157	1.22%	0.202%
25	17.122	4242	4251	4253	rVV4	6294	8040	1.90%	0.315%
26	17.152	4256	4259	4265	rVB2	5796	6483	1.53%	0.254%
27	17.235	4277	4281	4286	rBV3	4367	4559	1.08%	0.179%
28	17.617	4376	4383	4385	rBV5	5516	5101	1.20%	0.200%
29	17.699	4403	4405	4411	rBV4	5192	6254	1.48%	0.245%
30	17.733	4411	4414	4420	rVB5	6902	7054	1.67%	0.277%
31	18.119	4514	4517	4520	rVB3	7332	5690	1.34%	0.223%
32	18.149	4520	4525	4527	rBV3	7241	6843	1.62%	0.268%
33	18.209	4539	4541	4547	rVB3	3378	4341	1.03%	0.170%
34	18.280	4557	4560	4562	rVV3	8540	5246	1.24%	0.206%
35	18.299	4562	4565	4568	rVB3	6211	5361	1.27%	0.210%
36	18.367	4581	4583	4588	rBV4	5876	4973	1.17%	0.195%
37	18.460	4605	4608	4612	rBV3	8484	7082	1.67%	0.278%

Freedom_0005792_0283

Data Path : D:\DATA\L02042014\
Data File : 140101408.D
Acq On : 4 Feb 2014 18:11
Operator : PZ PZ1-AG5975
Sample : 1401014-08
Misc : A, TB02
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: NORMAL.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

38	18.618	4648	4650	4654	rBV3	5661	5767	1.36%	0.226%
39	18.996	4748	4751	4755	rVB3	7021	5769	1.36%	0.226%
40	19.229	4805	4813	4816	rBV5	6381	9719	2.30%	0.381%
41	19.364	4847	4849	4854	rVB3	5681	4287	1.01%	0.168%

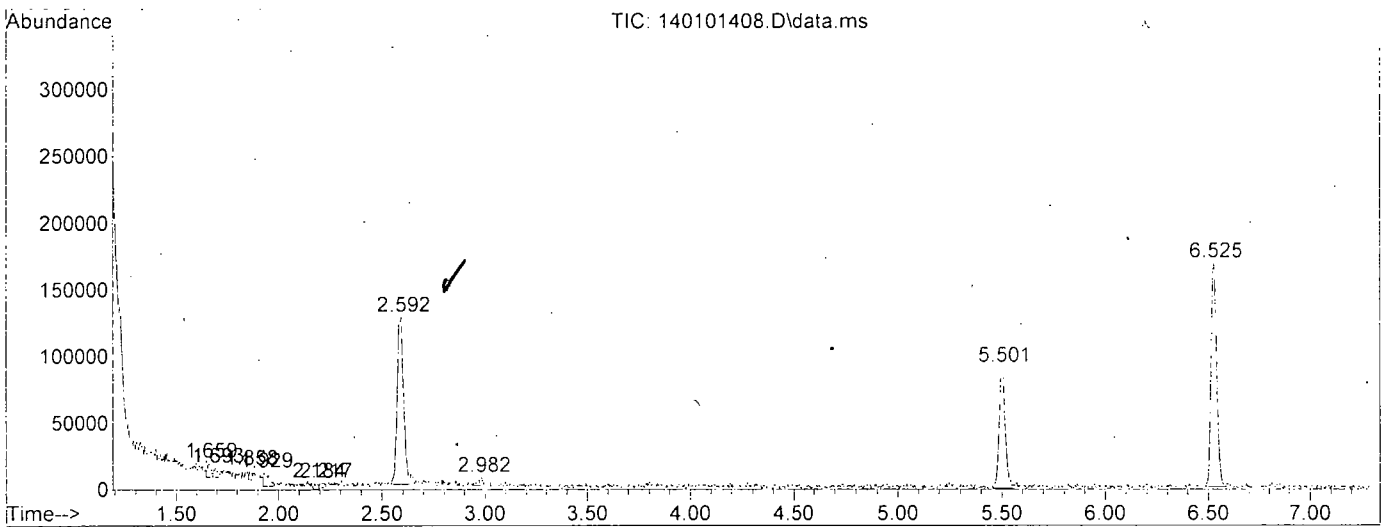
Sum of corrected areas: 2550237

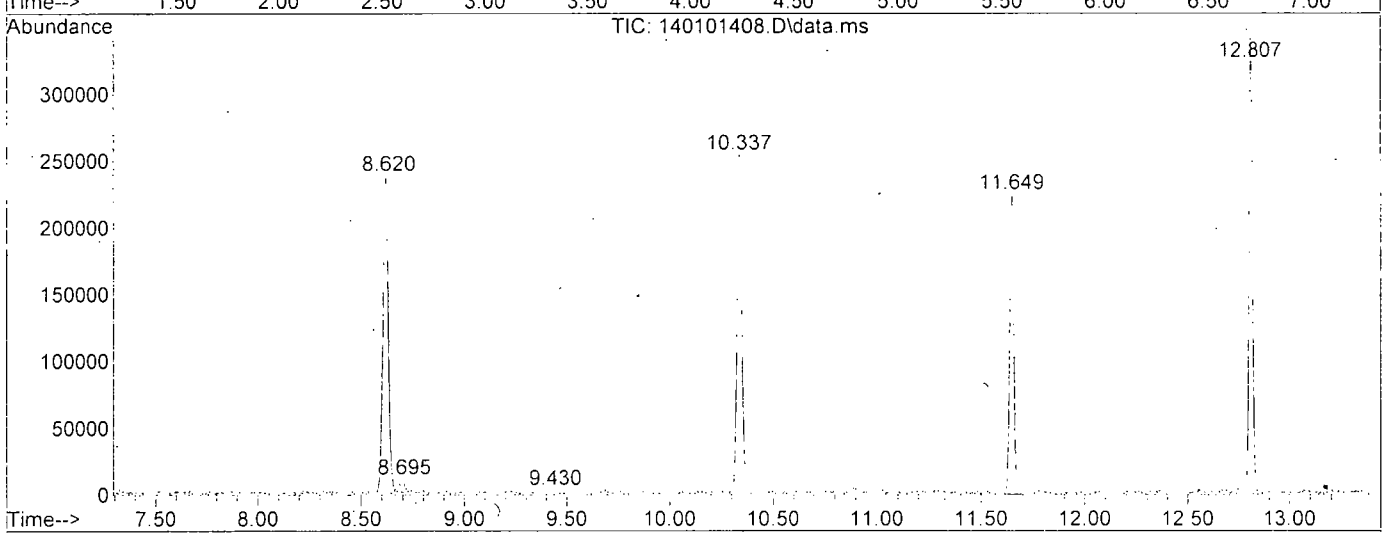
Freedom_0005792_0284

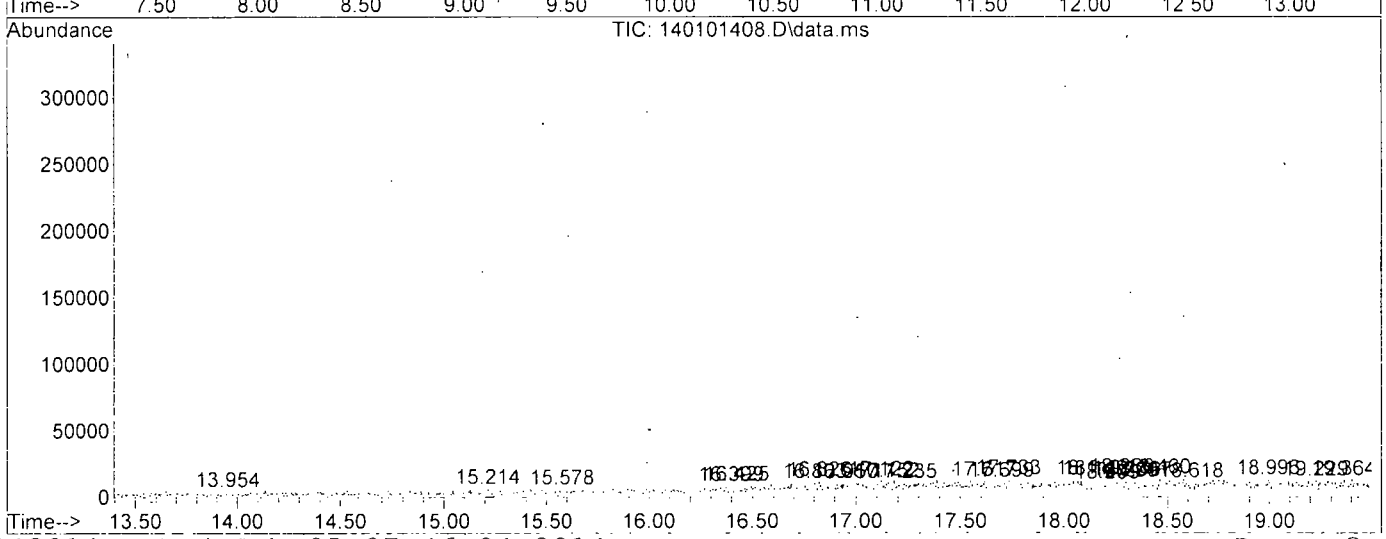
Data Path : D:\DATA\L02042014\
Data File : 140101408.D
Acq On : 4 Feb 2014 18:11
Operator : PZ PZ1-AG5975
Sample : 1401014-08
Misc : A, TB02
ALS Vial : 18 Sample Multiplier: 1

Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Data Path : D:\DATA\L02042014\
Data File : 140101408.D
Acq On : 4 Feb 2014 18:11
Operator : PZ PZ1-AG5975
Sample : 1401014-08
Misc : A, TB02
ALS Vial : 18 Sample Multiplier: 1

Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

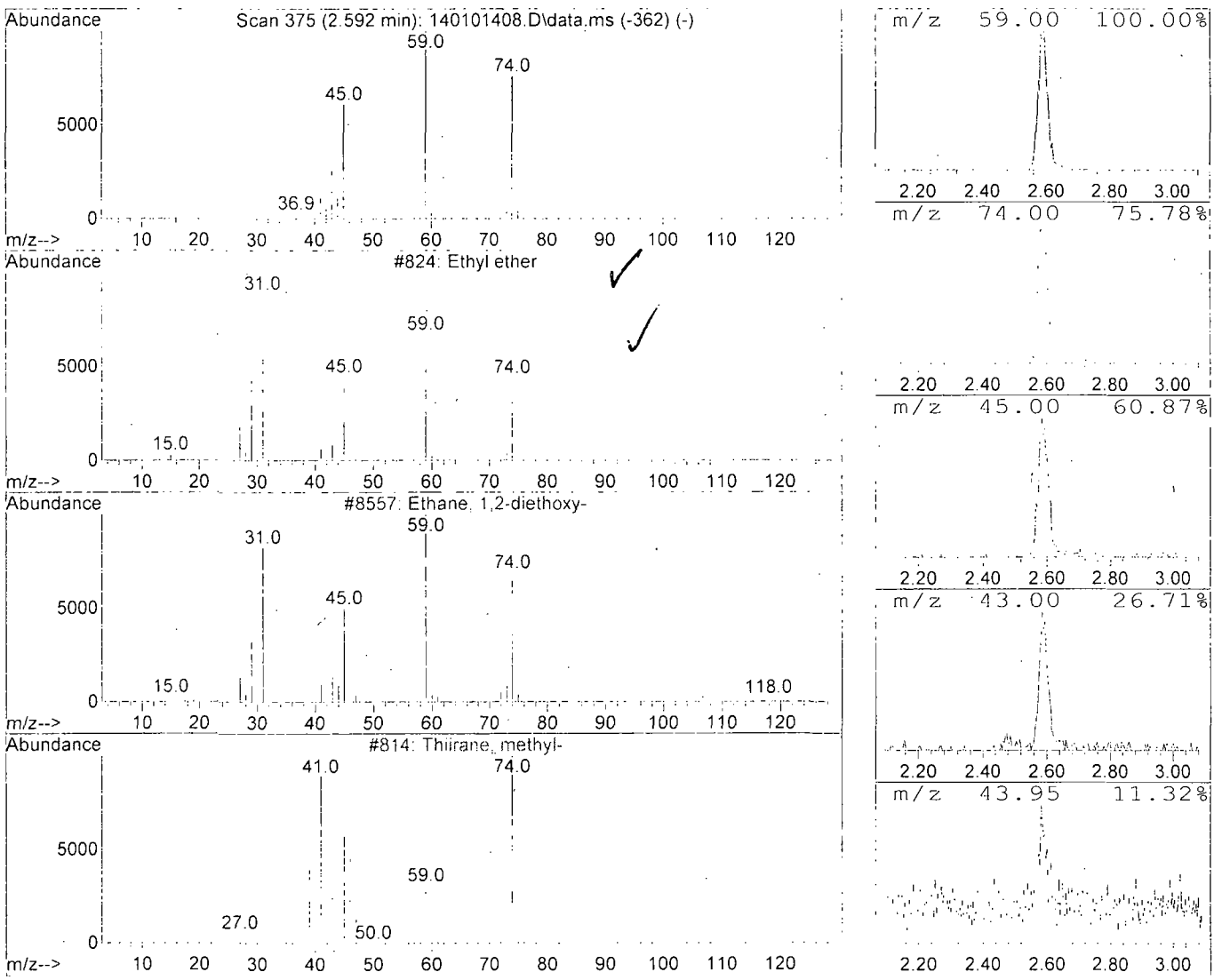
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 1 Ethyl ether Concentration Rank 1

R.T.	EstConc		Area	Relative to ISTD	R.T.
2.592	4.23 ug/L	T	267697	1,4-DIFLUOROBENZENE	6.528

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethyl ether	74	C4H10O	000060-29-7	90
2	Ethane, 1,2-diethoxy-	118	C6H14O2	000629-14-1	74
3	Thiirane, methyl-	74	C3H6S	001072-43-1	59
4	Hydrazine, trimethyl-	74	C3H10N2	001741-01-1	59
5	Ethanol, 2-ethoxy-	90	C4H10O2	000110-80-5	37



Freedom_0005792_0286

Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L02042014\
Data File : 140101408.D
Acq On : 4 Feb 2014 18:11
Operator : PZ PZ1-AG5975
Sample : 1401014-08
Misc : A, TB02
ALS Vial : 18 Sample Multiplier: 1

Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethyl ether	2.592	4.2	ug/L	267697	1	6.528	316463	5.0

Freedom_0005792_0287

Quantitation Report (QT Reviewed)

710 TICs

Data Path : D:\DATA\L02122014\
Data File : 140101409.D
Acq On : 12 Feb 2014 16:53
Operator : PZ PZ1-AG5975
Sample : 1401014-09
Misc : B, MW-2
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 18 08:11:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration

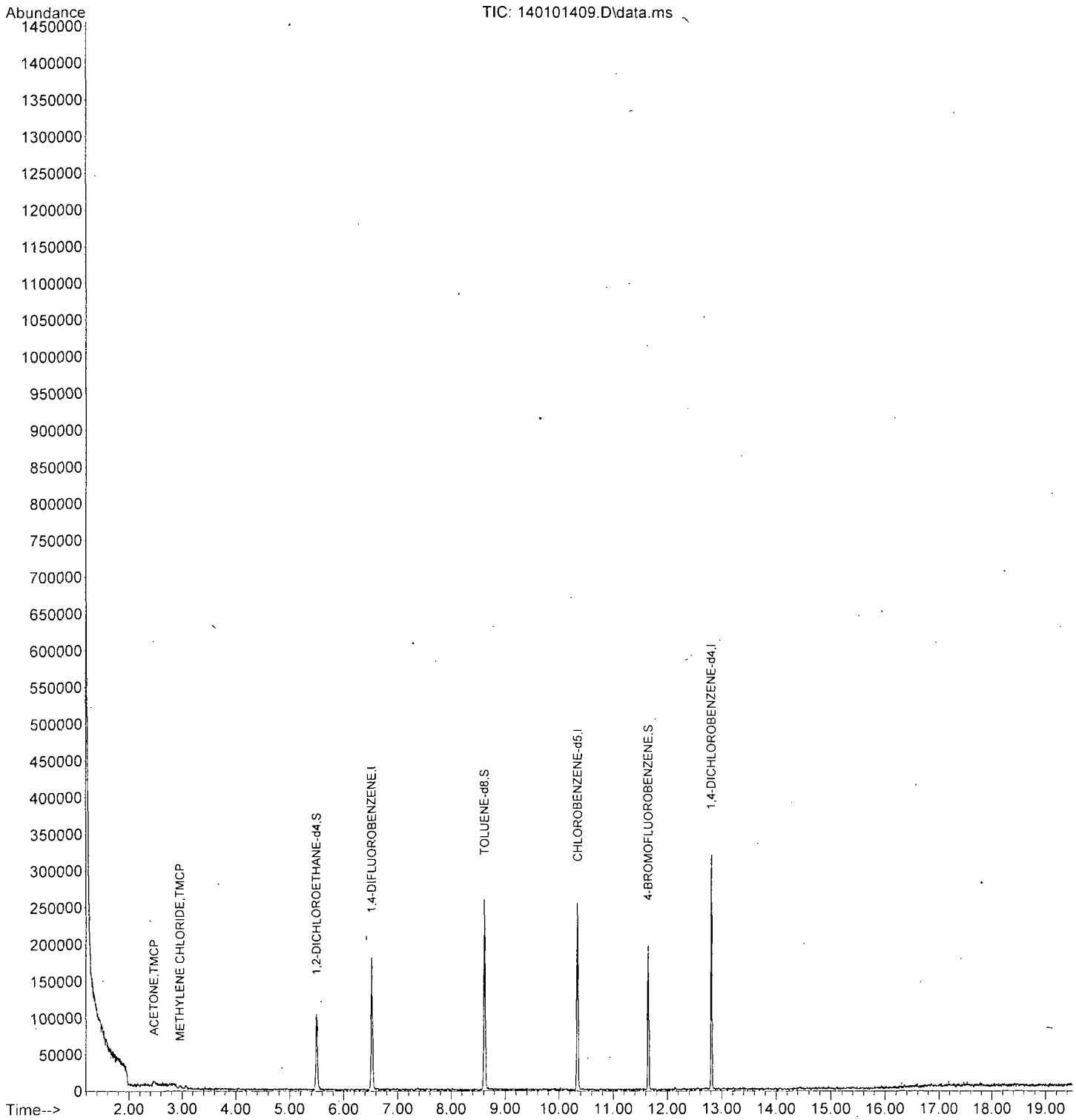
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.521	114	114574	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.341	117	107910	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	51189	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.490	65	84535	5.87	ug/L	-0.01
Spiked Amount 5.000	Range 76 - 114		Recovery	=	117.40%#	A
41) TOLUENE-d8	8.617	98	147580	4.89	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	=	97.80%	
59) 4-BROMOFLUOROBENZENE	11.645	95	49479	4.73	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	=	94.60%	
Target Compounds						Qvalue
8) ACETONE	2.465	43	11195 B	2.60	ug/L #	63
10) METHYLENE CHLORIDE	2.956	84	937m B	0.10	ug/L	

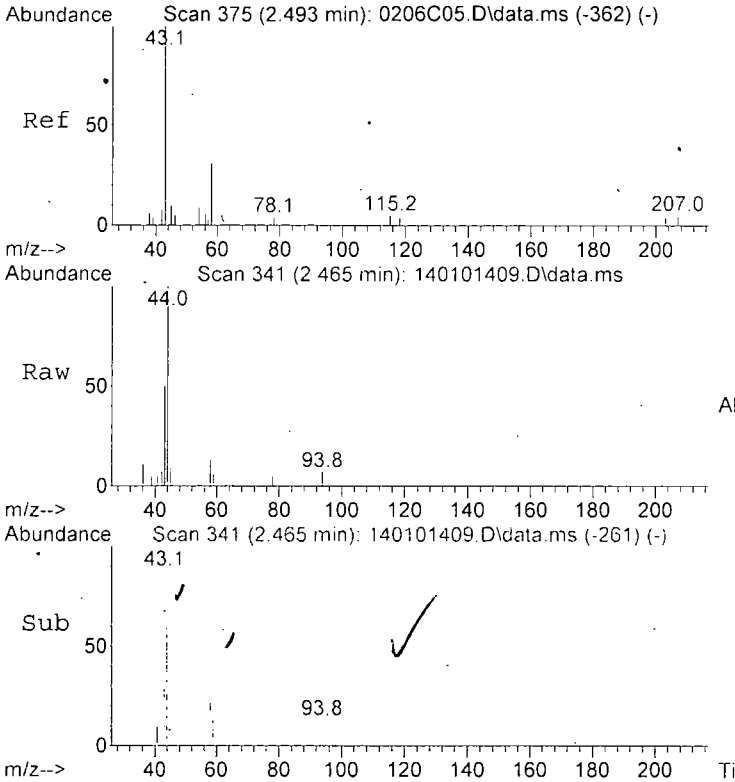
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0288

Data Path : D:\DATA\L02122014\
Data File : 140101409.D
Acq On : 12 Feb 2014 16:53
Operator : PZ PZ1-AG5975
Sample : 1401014-09
Misc : B, MW-2
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 18 08:11:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration

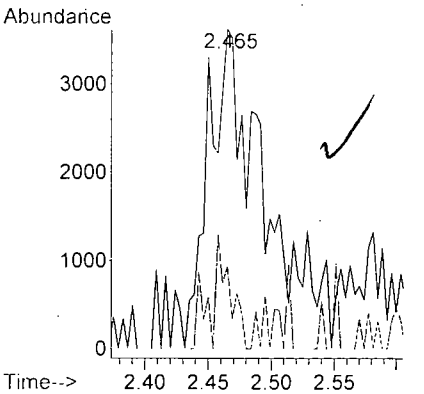


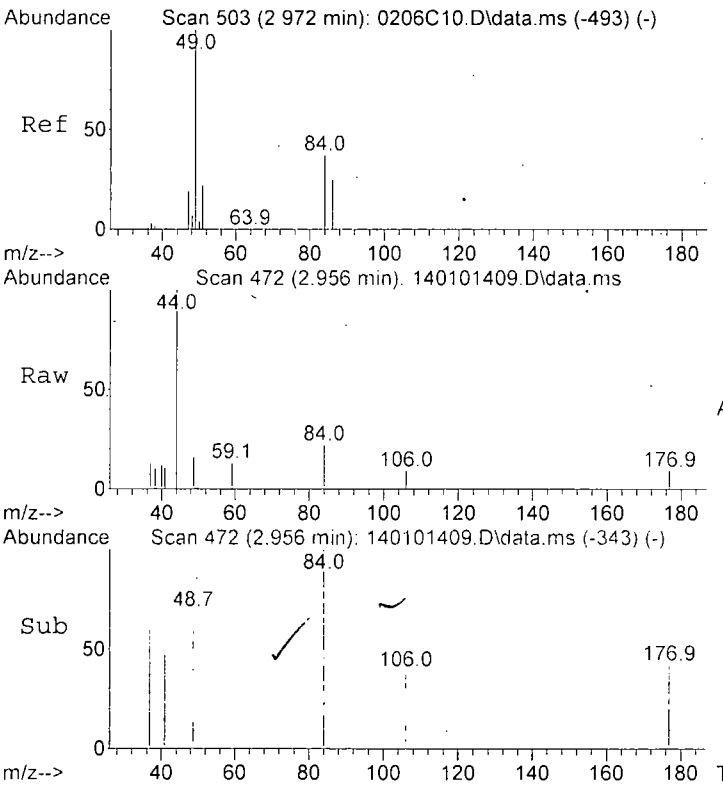


#8
ACETONE
Concen: 2.60 ug/L
RT: 2.465 min Scan# 341
Delta R.T. 0.000 min
Lab File: 140101409.D
Acq: 12 Feb 2014 16:53

Tgt Ion: 43 Resp: 11195

Ion	Ratio	Lower	Upper
43	100		
58	8.7	22.5	33.7#

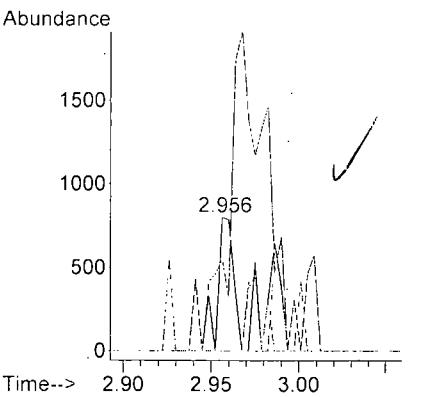




#10
METHYLENE CHLORIDE
Concen: 0.10 ug/L m
RT: 2.956 min Scan# 472
Delta R.T. -0.015 min
Lab File: 140101409.D
Acq: 12 Feb 2014 16:53

Tgt Ion: 84 Resp: 937

Ion	Ratio	Lower	Upper
84	100		
49	303.8	102.1	153.1#
51	0.0	31.0	46.6#
86	0.0	49.2	73.8#

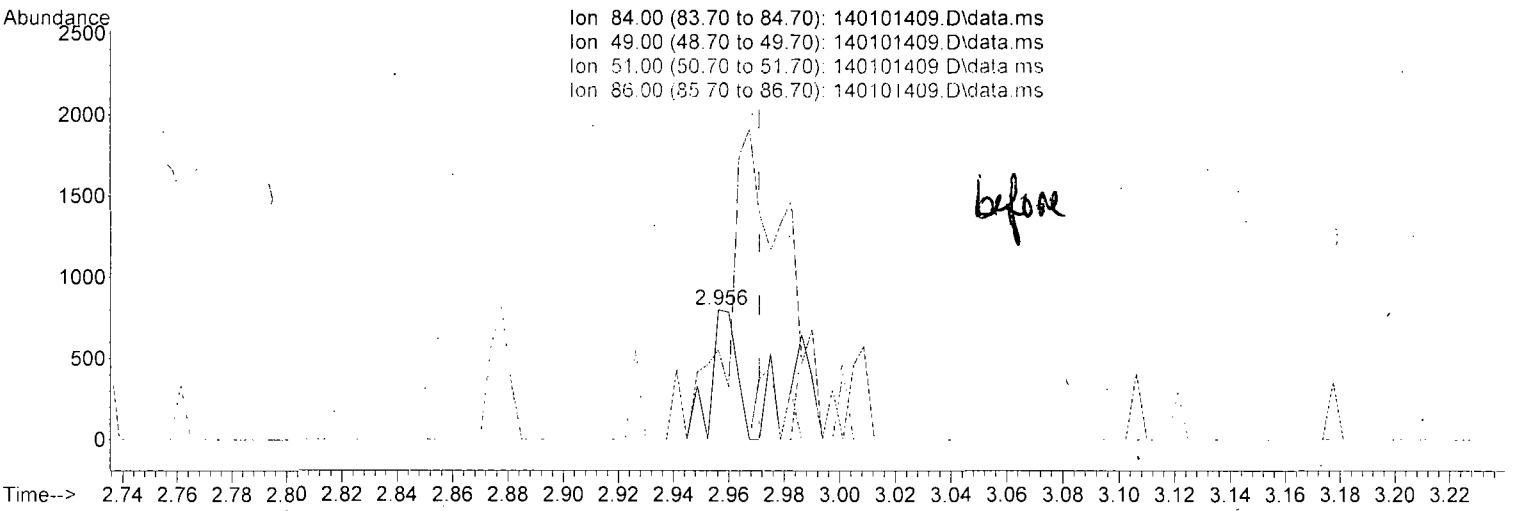


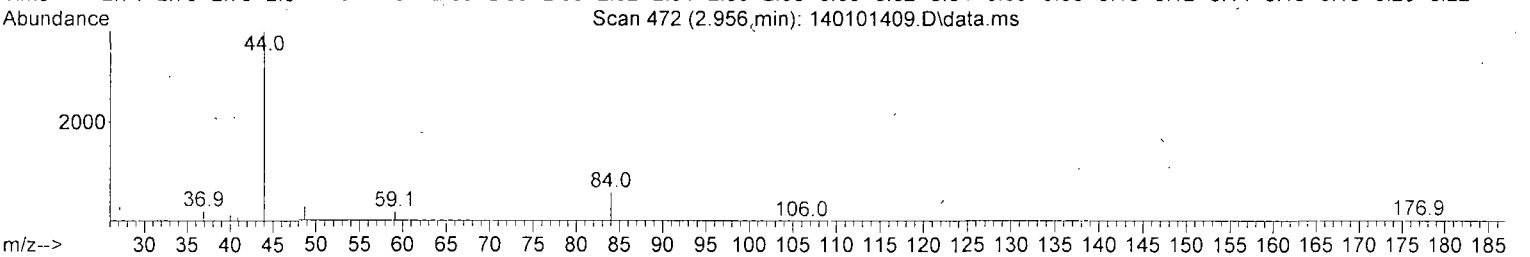
Freedom_0005792_0290

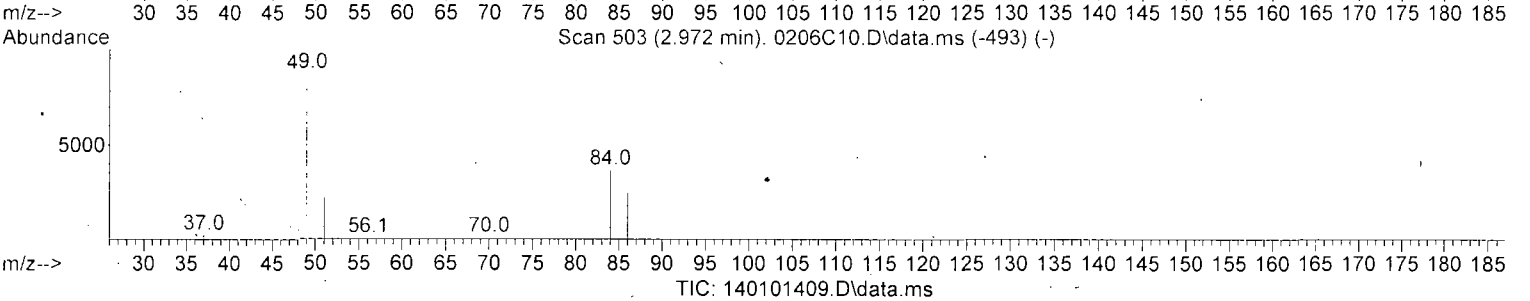
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 140101409.D
Acq On : 12 Feb 2014 16:53
Operator : PZ PZ1-AG5975
Sample : 1401014-09
Misc : B, MW-2
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 18 08:10:42 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







TIC: 140101409.D\data.ms

(10) METHYLENE CHLORIDE (TMCP)

2.956min (-0.015) 0.06 ug/L

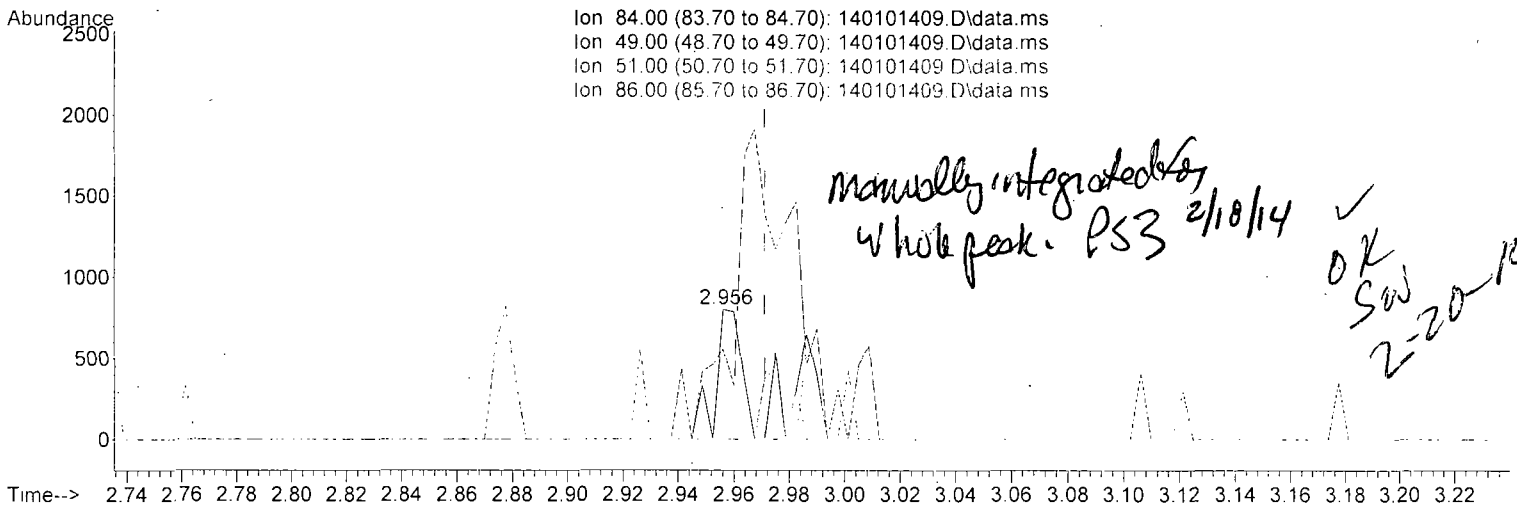
response 514

Ion	Exp%	Act%
84.00	100	100
49.00	127.60	553.89#
51.00	38.80	0.00#
86.00	61.50	0.00#

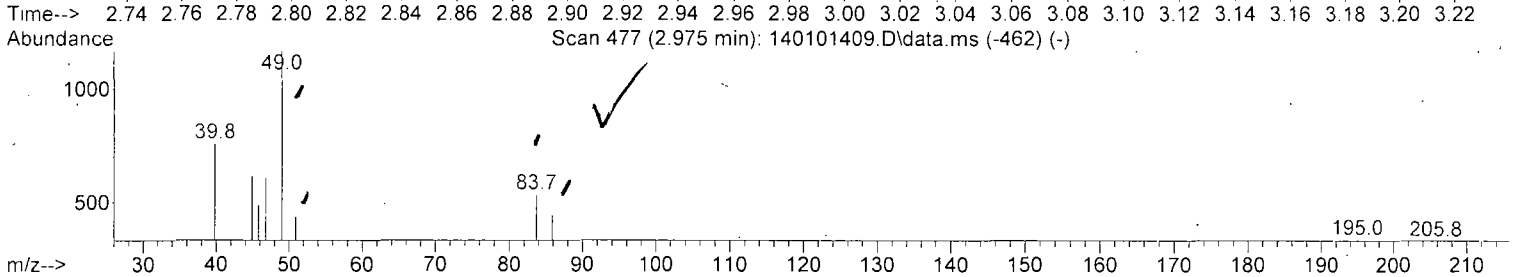
Quantitation Report (Qedit)

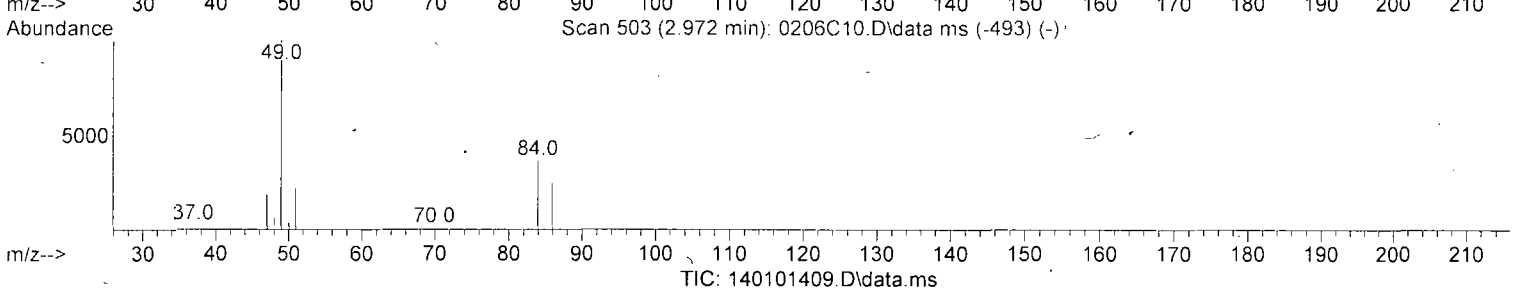
Data Path : D:\DATA\L02122014\
Data File : 140101409.D
Acq On : 12 Feb 2014 16:53
Operator : PZ PZ1-AG5975
Sample : 1401014-09
Misc : B, MW-2
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 18 08:10:42 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration



manually integrated for whole peak. PS3 2/18/14 ✓ OK SW 2-20-14





TIC: 140101409.D\data.ms

(10) METHYLENE CHLORIDE (TMCP)

2.956min (-0.015) 0.10 ug/L m

response 937

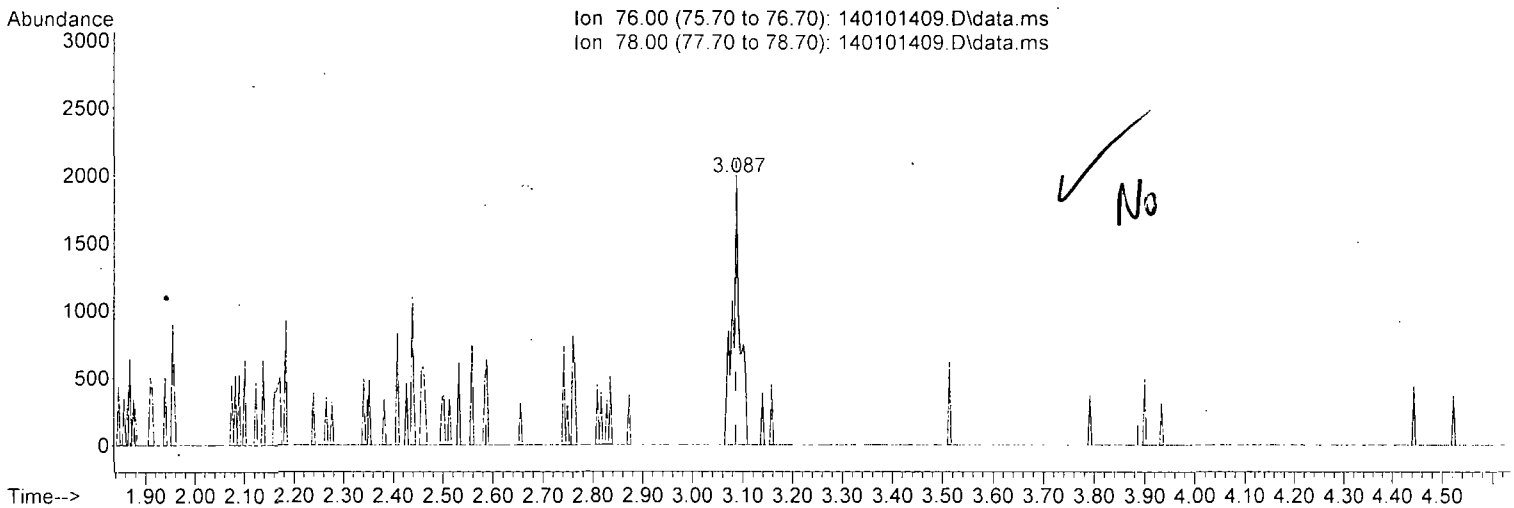
Ion	Exp%	Act%
84.00	100	100
49.00	127.60	303.84#
51.00	38.80	0.00#
86.00	61.50	0.00#

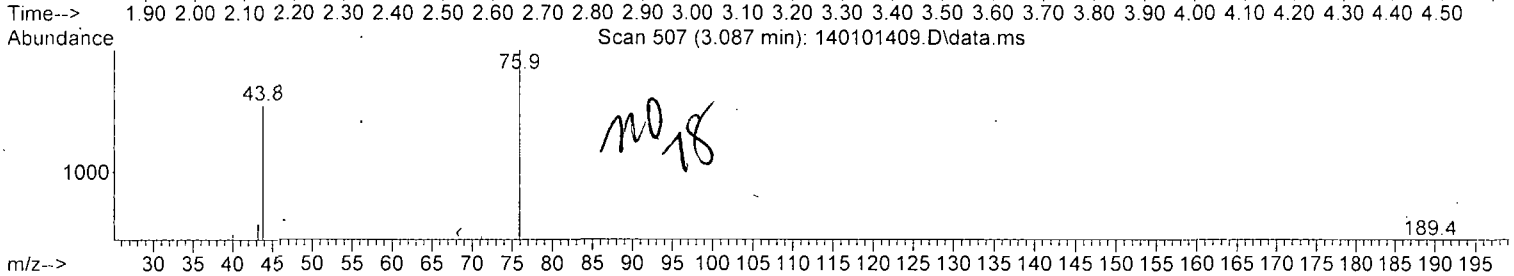
Freedom_0005792_0292

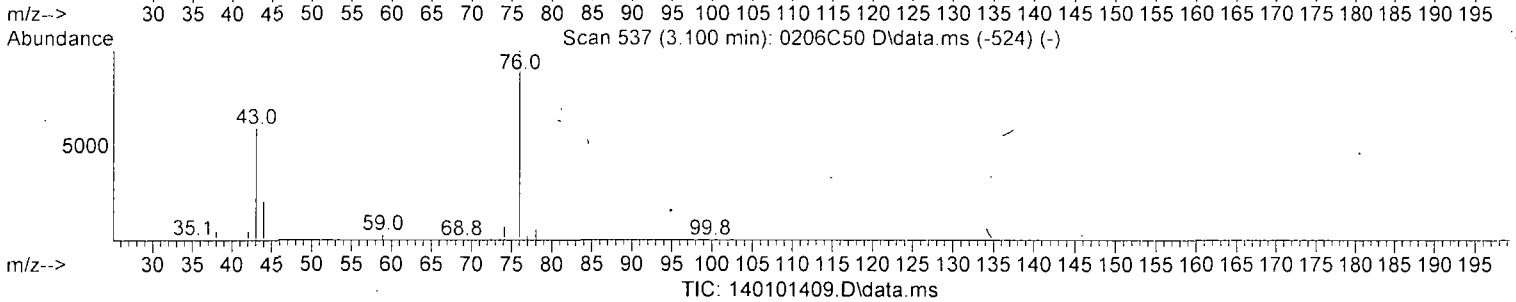
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 140101409.D
Acq On : 12 Feb 2014 16:53
Operator : PZ PZ1-AG5975
Sample : 1401014-09
Misc : B, MW-2
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 18 08:10:42 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







(12) CARBON DISULFIDE (TMCP)

3.087min (+0.000) 0.08 ug/L

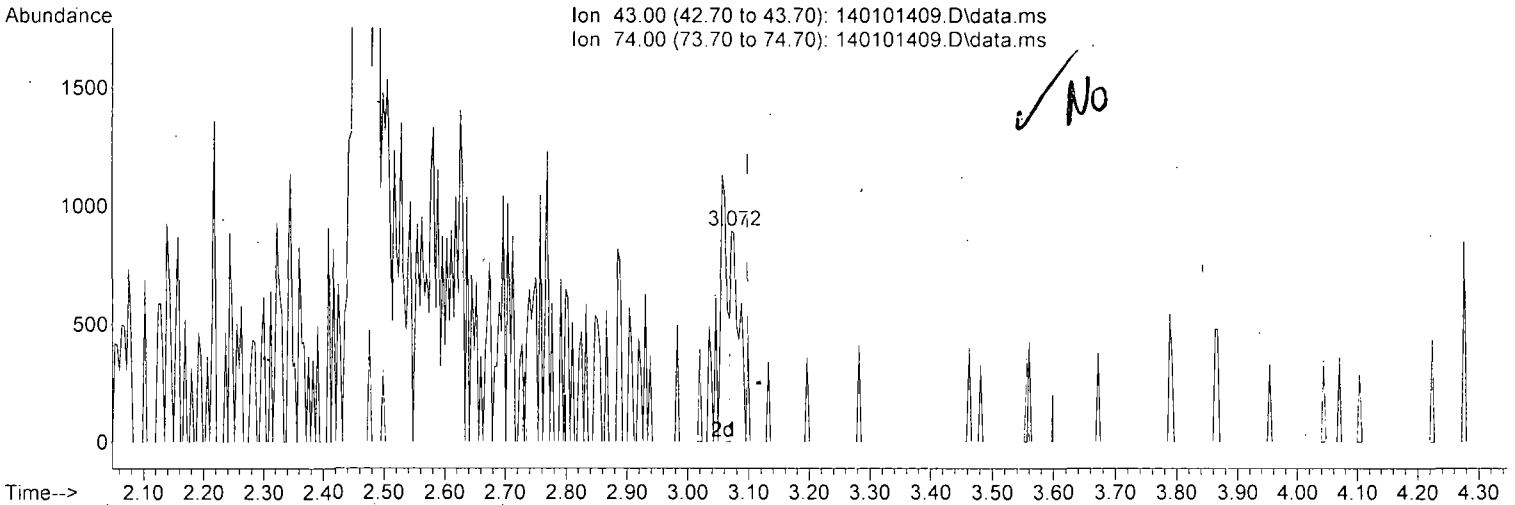
response 2051

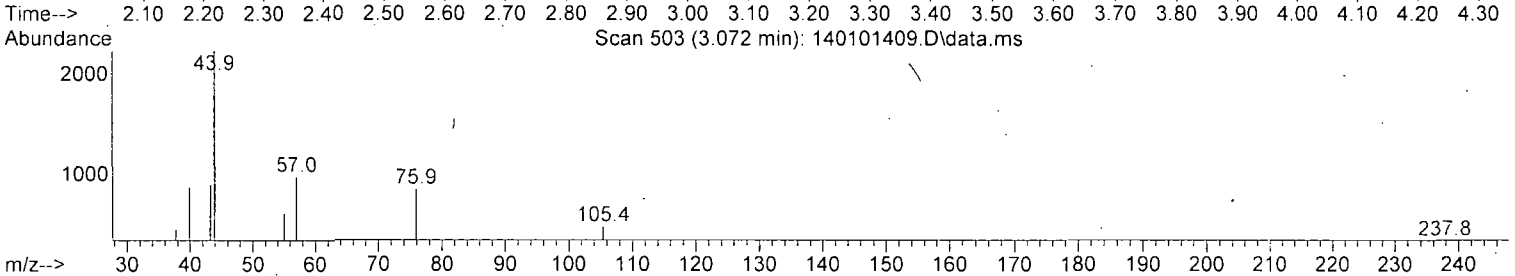
Ion	Exp%	Act%
76.00	100	100
78.00	9.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

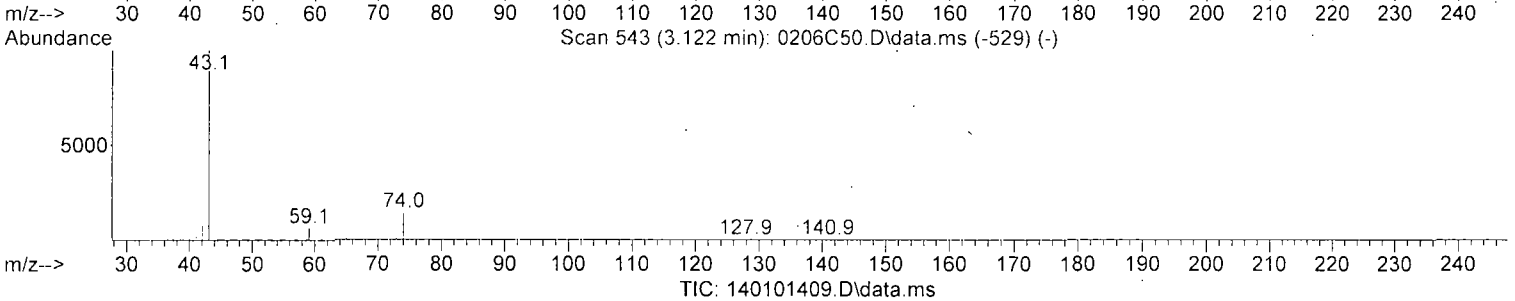
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 140101409.D
Acq On : 12 Feb 2014 16:53
Operator : PZ PZ1-AG5975
Sample : 1401014-09
Misc : B, MW-2
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 18 08:10:42 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







(13) METHYL ACETATE (TMCP)

3.072min (-0.026) 0.09 ug/L

response 822

Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0294

LSC Area Percent Report

Data Path : D:\DATA\L02122014\
Data File : 140101409.D
Acq On : 12 Feb 2014 16:53
Operator : PZ PZ1-AG5975
Sample : 1401014-09
Misc : B, MW-2
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: NOISY.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L02122014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 140101409.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.494	1136	1149	1165	rBV4	104625	217823	50.13%	10.511%
2	6.521	1411	1423	1437	rBV2	179870	332535	76.54%	16.046%
3	8.617	1970	1982	1994	rBV	258944	434483	100.00%	20.965%
4	10.337	2429	2441	2456	rBV2	254883	421818	97.09%	20.354%
5	11.645	2777	2790	2802	rBV	197978	271092	62.39%	13.081%
6	12.808	3090	3100	3112	rVB2	320370	394659	90.83%	19.043%

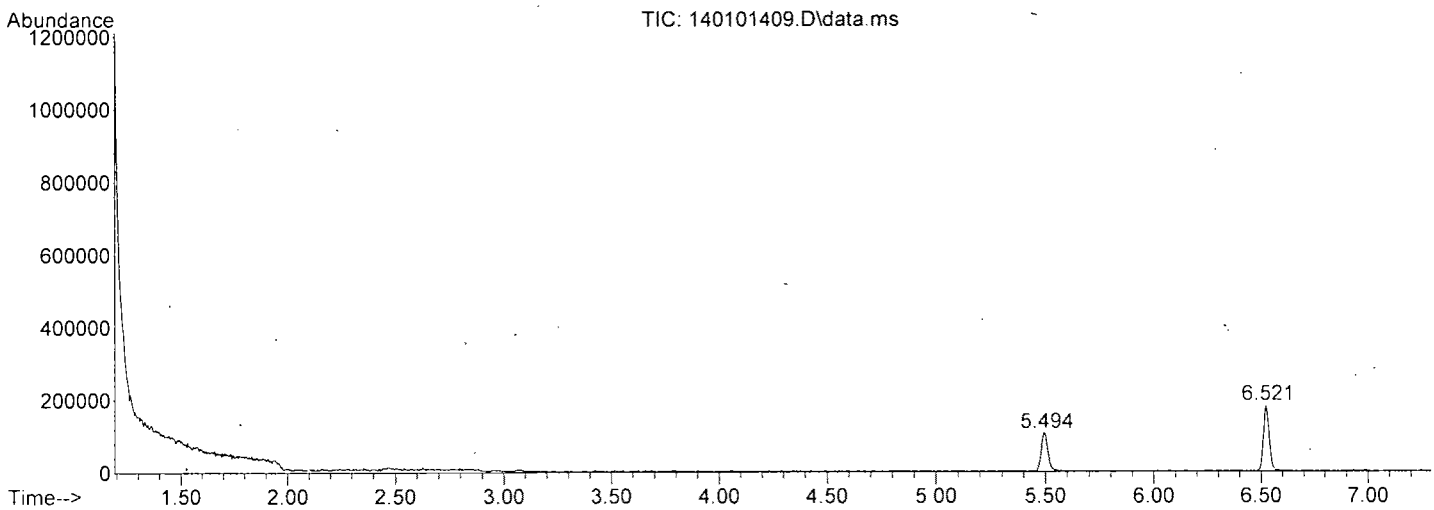
Sum of corrected areas: 2072410

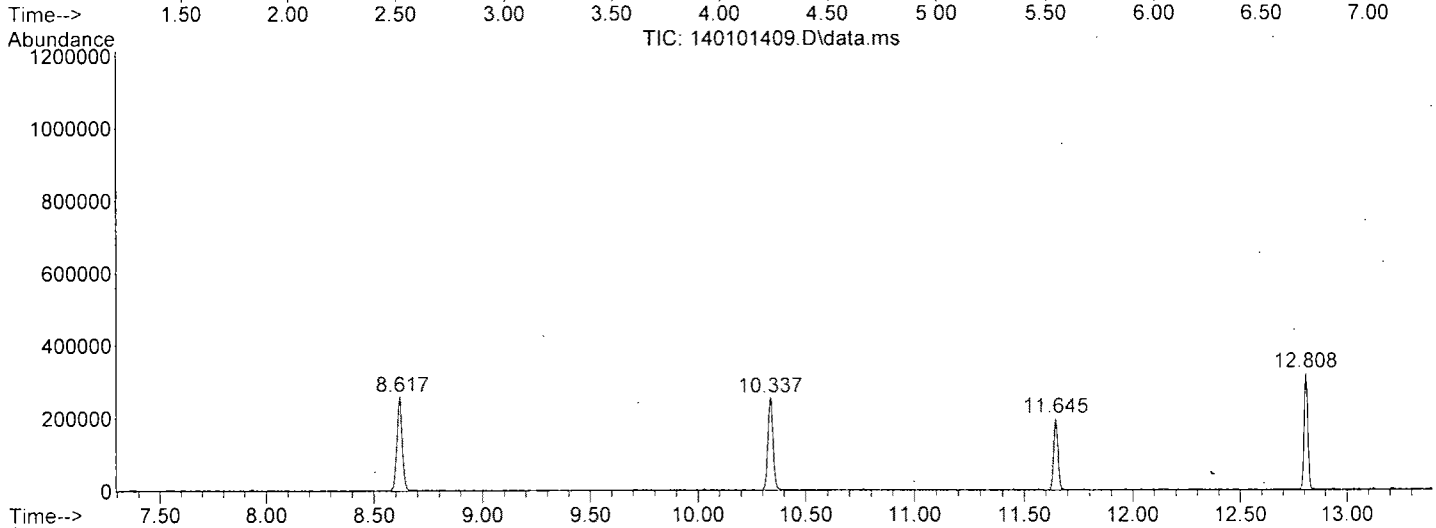
Freedom_0005792_0295

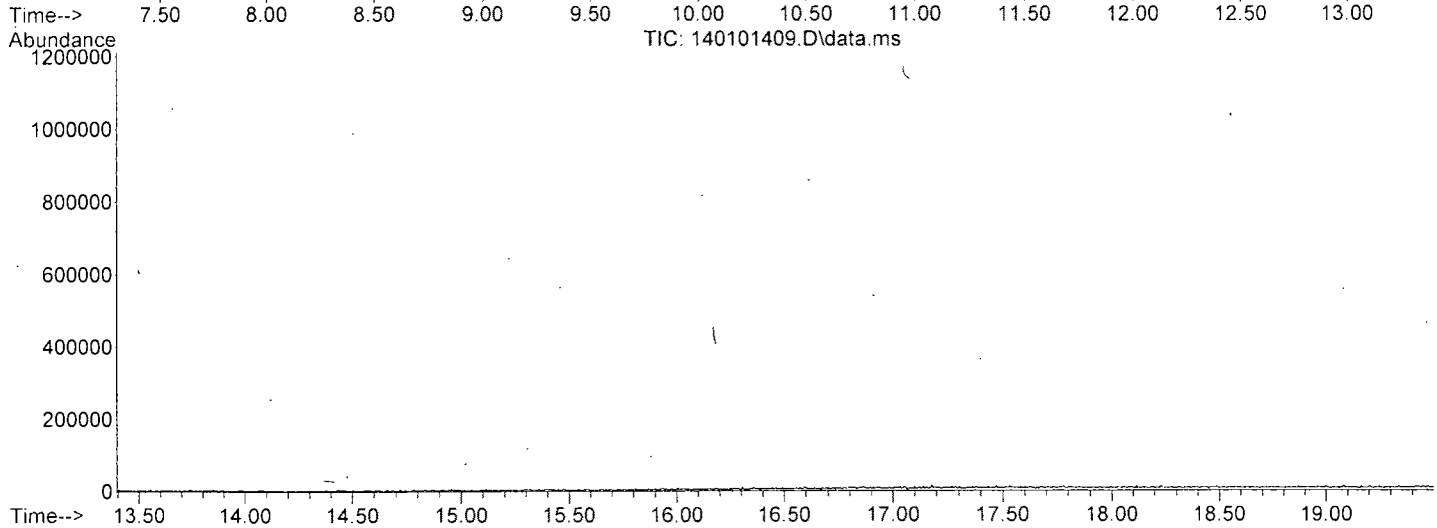
Data Path : D:\DATA\L02122014\
Data File : 140101409.D
Acq On : 12 Feb 2014 16:53
Operator : PZ PZ1-AG5975
Sample : 1401014-09
Misc : B, MW-2
ALS Vial : 18 Sample Multiplier: 1

Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P







Freedom_0005792_0296

Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L02122014\\
Data File : 140101409.D
Acq On : 12 Feb 2014 16:533
Operator : PZ PZ1-AG59755
Sample : 1401014-099
Misc : B, MW-22
ALS Vial : 18 Sample Multiplier: 11

Quant Method : D:\METHODS\L02122014.MM
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Methodd

TIC Library : C:\Database\NIST05a.LL
TIC Integration Parameters: LSCINT.PP

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

No Library Search Compounds Detected
****

Freedom_0005792_0297

Quantitation Report (QT Reviewed)

1 TTC

Data Path : D:\DATA\L02122014\
Data File : 140101410.D
Acq On : 12 Feb 2014 15:30
Operator : PZ PZ1-AG5975
Sample : 1401014-10
Misc : B, TB03
ALS Vial : 15 Sample Multiplier: 1

associated w/1401014-09
analyzed on d. 9

Quant Time: Feb 12 16:13:11 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration

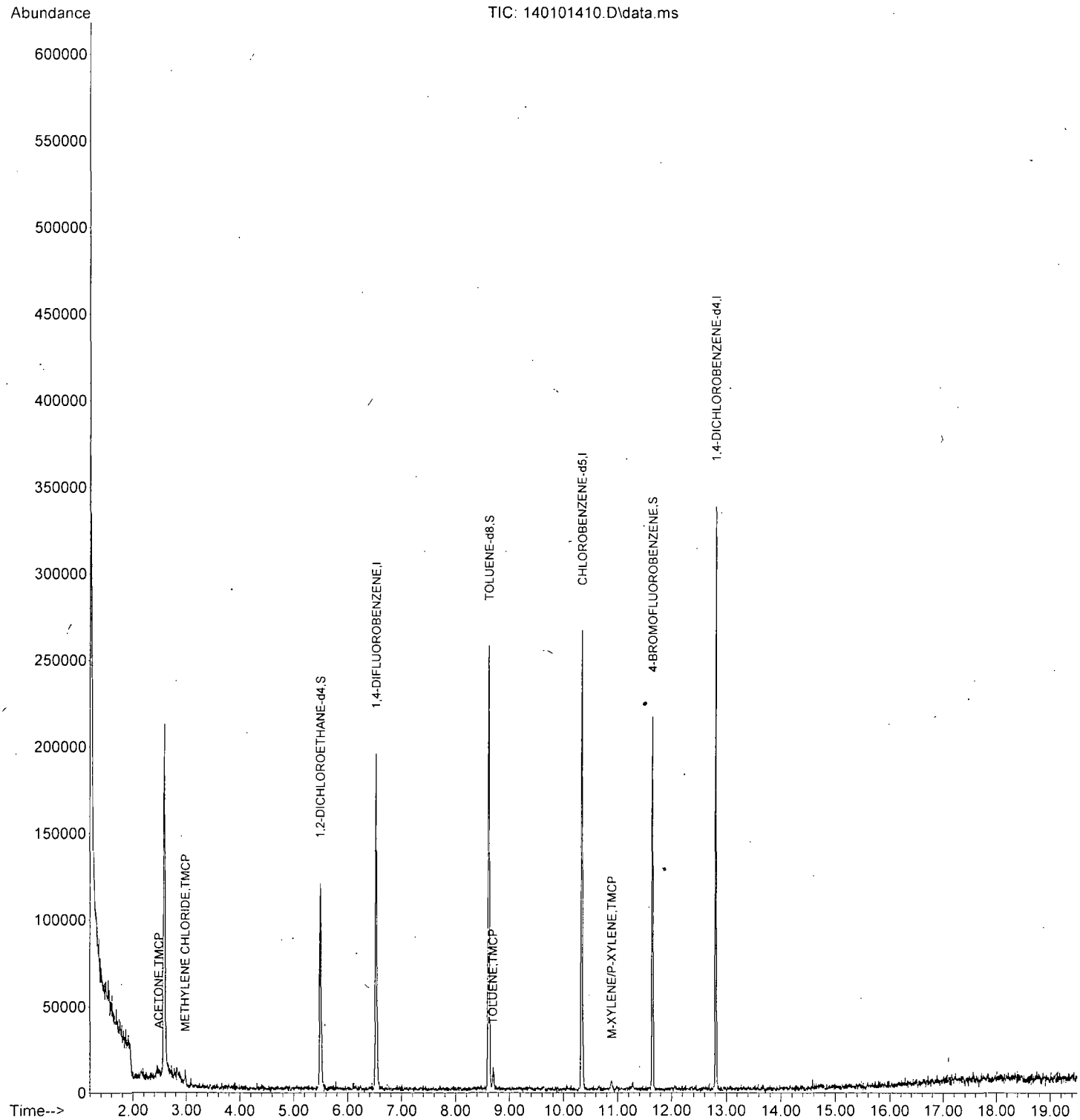
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-DIFLUOROBENZENE	6.525	114	123030	5.00 ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	115354	5.00 ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	56152	5.00 ug/L	0.00
System Monitoring Compounds					
23) 1,2-DICHLOROETHANE-d4	5.494	65	86818	5.61 ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 112.20%	
41) TOLUENE-d8	8.617	98	146794	4.55 ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 91.00%	
59) 4-BROMOFLUOROBENZENE	11.646	95	57444	5.01 ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 100.20%	
Target Compounds					Qvalue
8) ACETONE m LRB	2.484	43	8141	B 1.76 ug/L #	47
10) METHYLENE CHLORIDE	2.983	84	2474m	0.26 ug/L	
42) TOLUENE	8.695	92	5013	0.22 ug/L	81
52) M-XYLENE/P-XYLENE	10.892	106	1792	0.11 ug/L	88

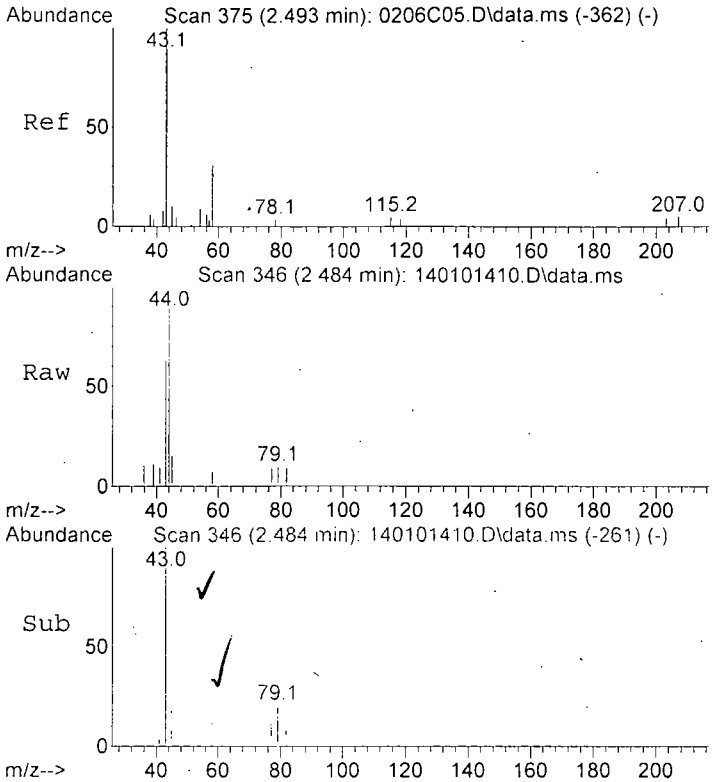
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0298

Data Path : D:\DATA\L02122014\
Data File : 140101410.D
Acq On : 12 Feb 2014 15:30
Operator : PZ PZ1-AG5975
Sample : 1401014-10
Misc : B, TB03
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 12 16:13:11 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration

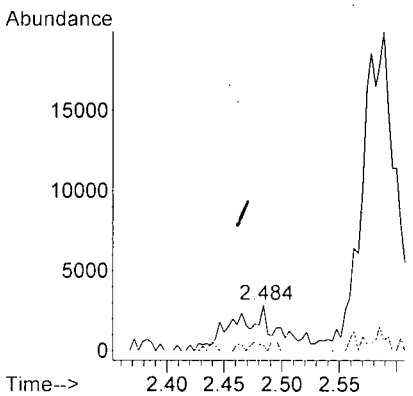


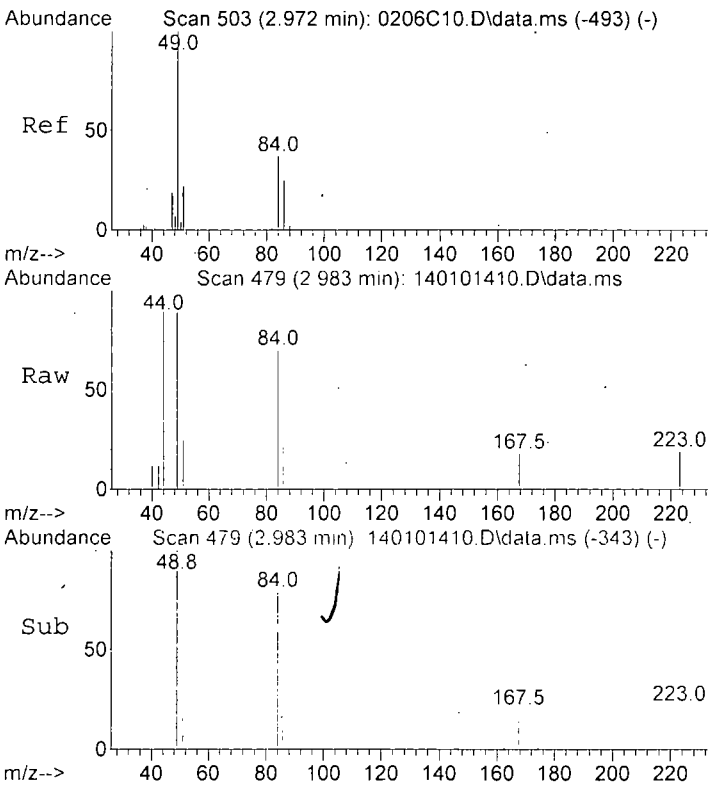


#8
ACETONE
Concen: 1.76 ug/L
RT: 2.484 min Scan# 346
Delta R.T. 0.019 min
Lab File: 140101410.D
Acq: 12 Feb 2014 15:30

Tgt Ion: 43 Resp: 8141

Ion	Ratio	Lower	Upper
43	100		
58	0.0	22.5	33.7#

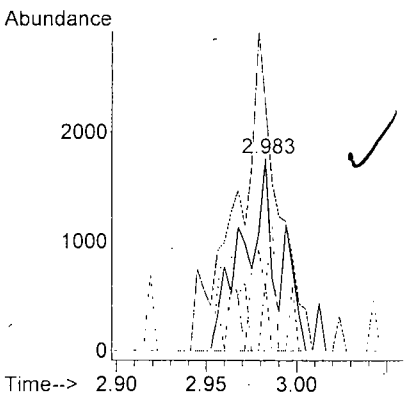




#10
METHYLENE CHLORIDE
Concen: 0.26 ug/L m
RT: 2.983 min Scan# 479
Delta R.T. 0.011 min
Lab File: 140101410.D
Acq: 12 Feb 2014 15:30

Tgt Ion: 84 Resp: 2474

Ion	Ratio	Lower	Upper
84	100		
49	181.4	102.1	153.1#
51	0.0	31.0	46.6#
86	30.6	49.2	73.8#

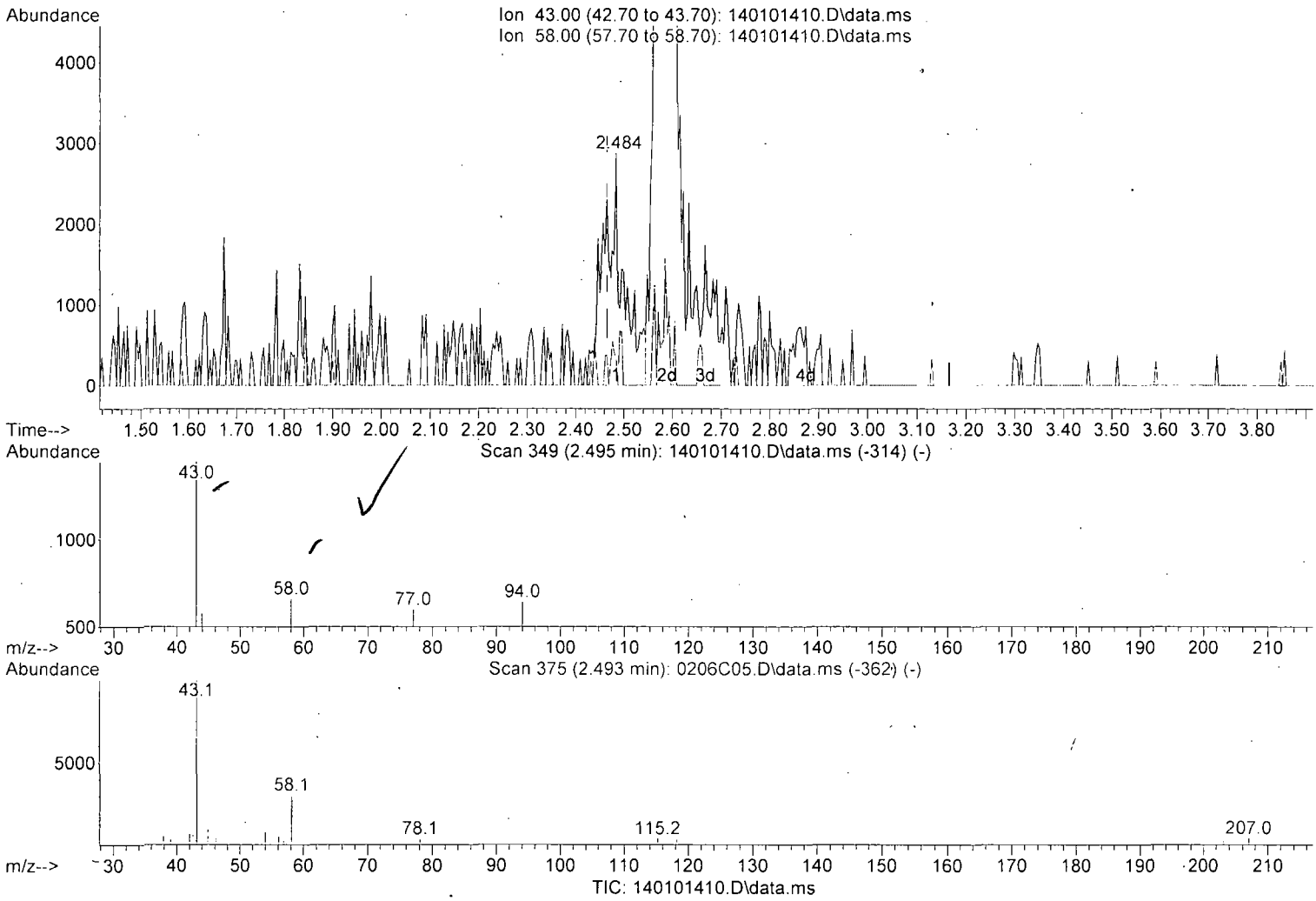


Freedom_0005792_0300

Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 140101410.D
Acq On : 12 Feb 2014 15:30
Operator : PZ PZ1-AG5975
Sample : 1401014-10
Misc : B, TB03
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 12 16:12:22 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration



(8) ACETONE (TMCP)

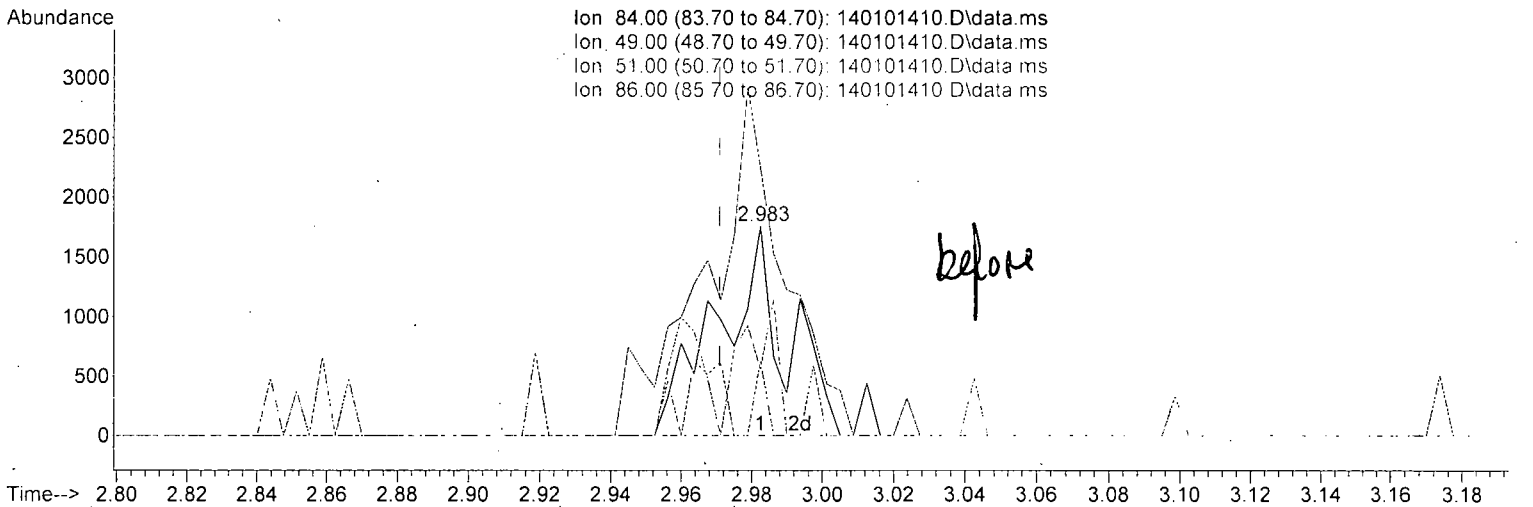
2.484min (+0.019) 1.76 ug/L

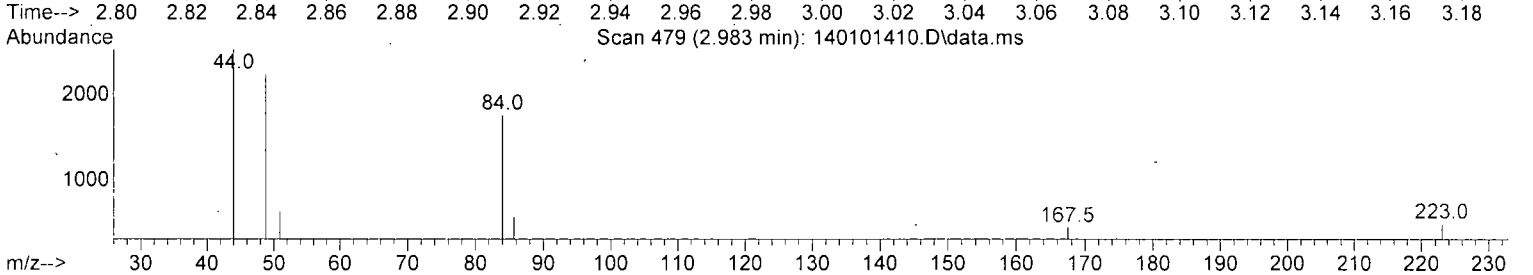
response 8141

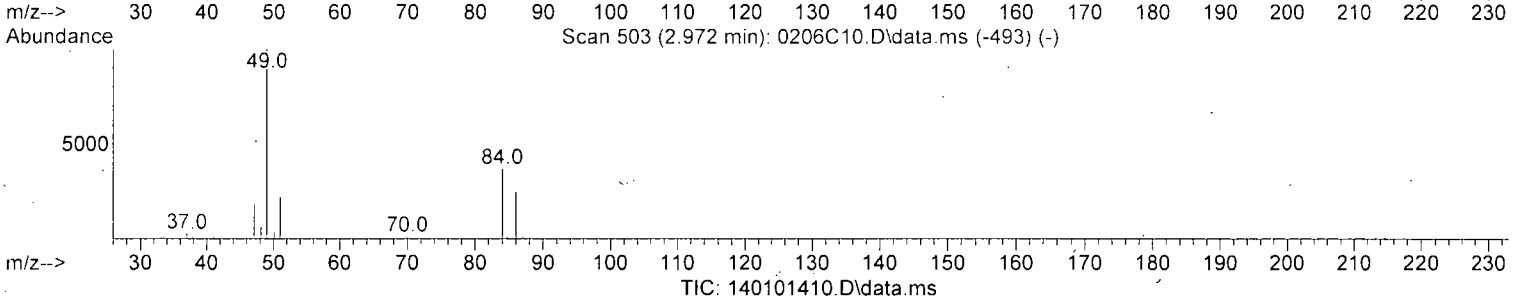
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\DATA\L02122014\
Data File : 140101410.D
Acq On : 12 Feb 2014 15:30
Operator : PZ PZ1-AG5975
Sample : 1401014-10
Misc : B, TB03
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 12 16:12:22 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







(10) METHYLENE CHLORIDE (TMCP)

2.983min (+0.011) 0.19 ug/L

response 1871

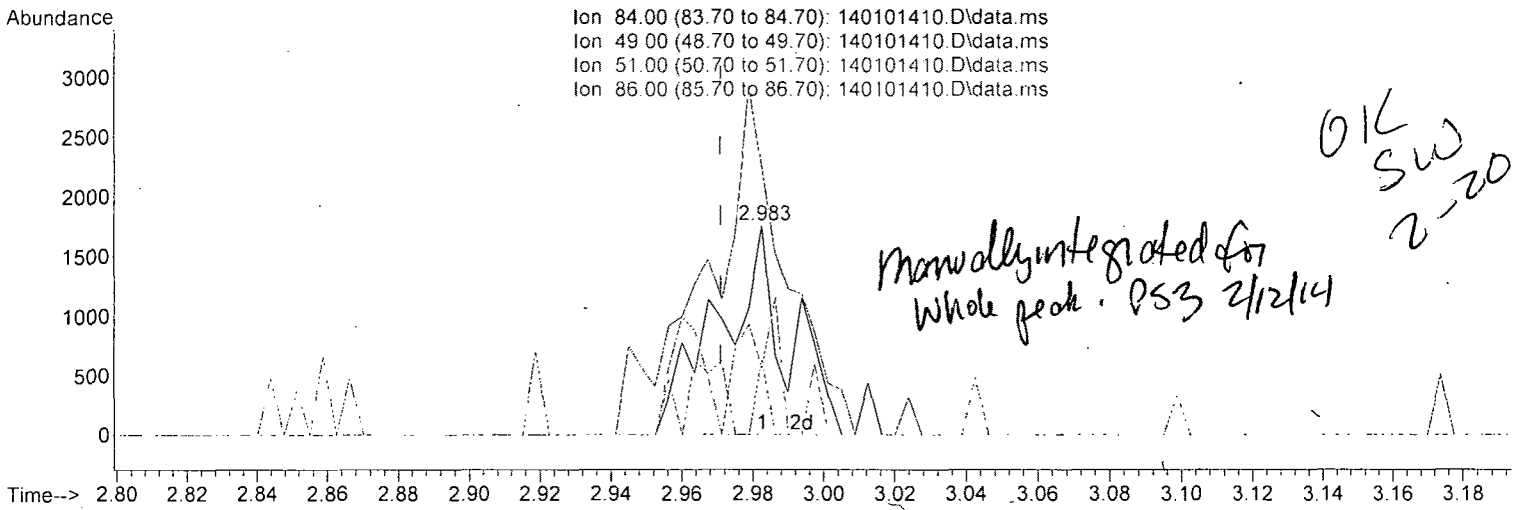
Ion	Exp%	Act%
84.00	100	100
49.00	127.60	239.87#
51.00	38.80	0.00#
86.00	61.50	40.46#

Freedom_0005792_0302

Quantitation Report (Qedit)

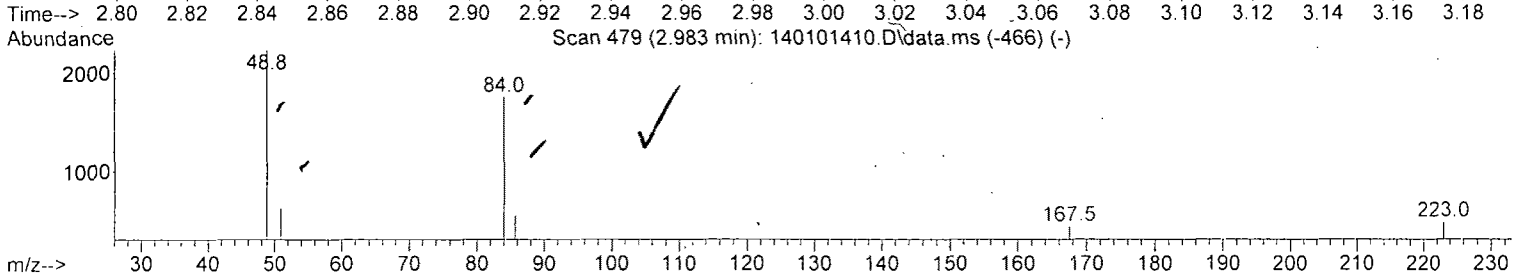
Data Path : D:\DATA\L02122014\
Data File : 140101410.D
Acq On : 12 Feb 2014 15:30
Operator : PZ PZ1-AG5975
Sample : 1401014-10
Misc : B, TB03
ALS Vial : 15 Sample Multiplier: 1

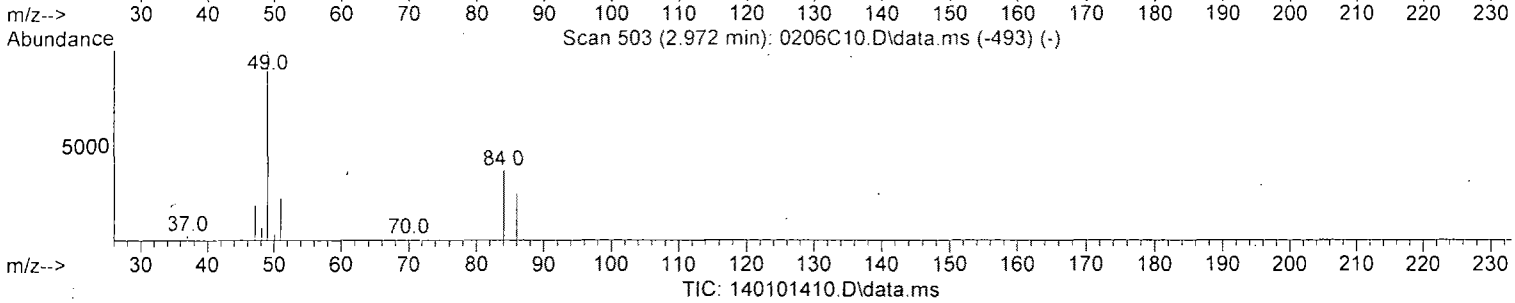
Quant Time: Feb 12 16:12:22 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration



OK SW 2-20-14

Manually integrated for whole peak. PS3 2/12/14





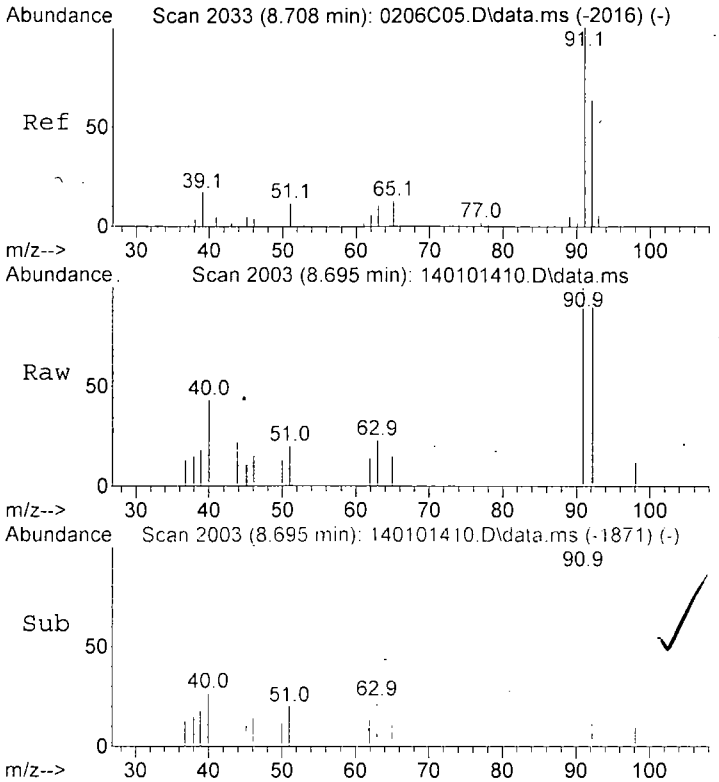
TIC: 140101410.D\data.ms

(10) METHYLENE CHLORIDE (TMCP)

2.983min (+0.011) 0.26 ug/L m

response 2474

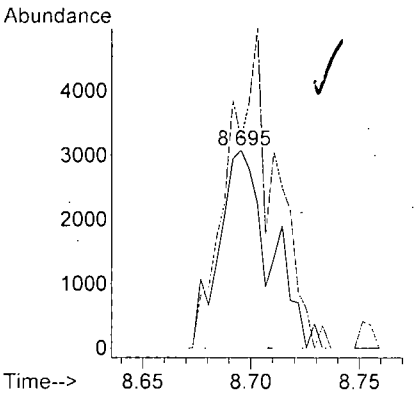
Ion	Exp%	Act%
84.00	100	100
49.00	127.60	181.41#
51.00	38.80	0.00#
86.00	61.50	30.60#

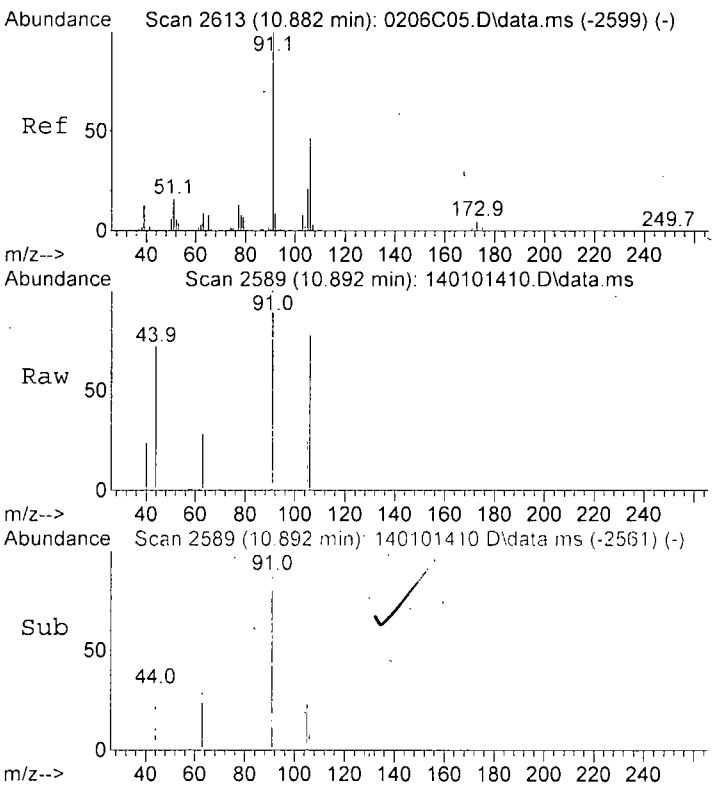


#42
TOLUENE
Concen: 0.22 ug/L
RT: 8.695 min Scan# 2003
Delta R.T. -0.003 min
Lab File: 140101410.D
Acq: 12 Feb 2014 15:30

Tgt Ion: 92 Resp: 5013

Ion	Ratio	Lower	Upper
92	100		
91	147.8	139.3	208.9

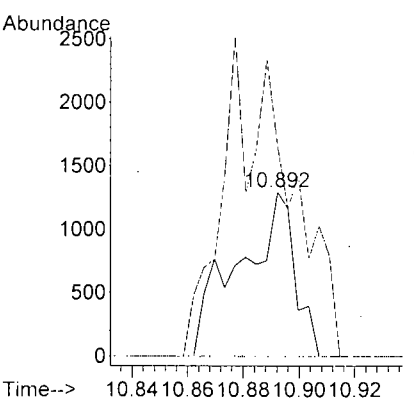




#52
M-XYLENE/P-XYLENE
Concen: 0.11 ug/L
RT: 10.892 min Scan# 2589
Delta R.T. 0.004 min
Lab File: 140101410.D
Acq: 12 Feb 2014 15:30

Tgt Ion:106 Resp: 1792

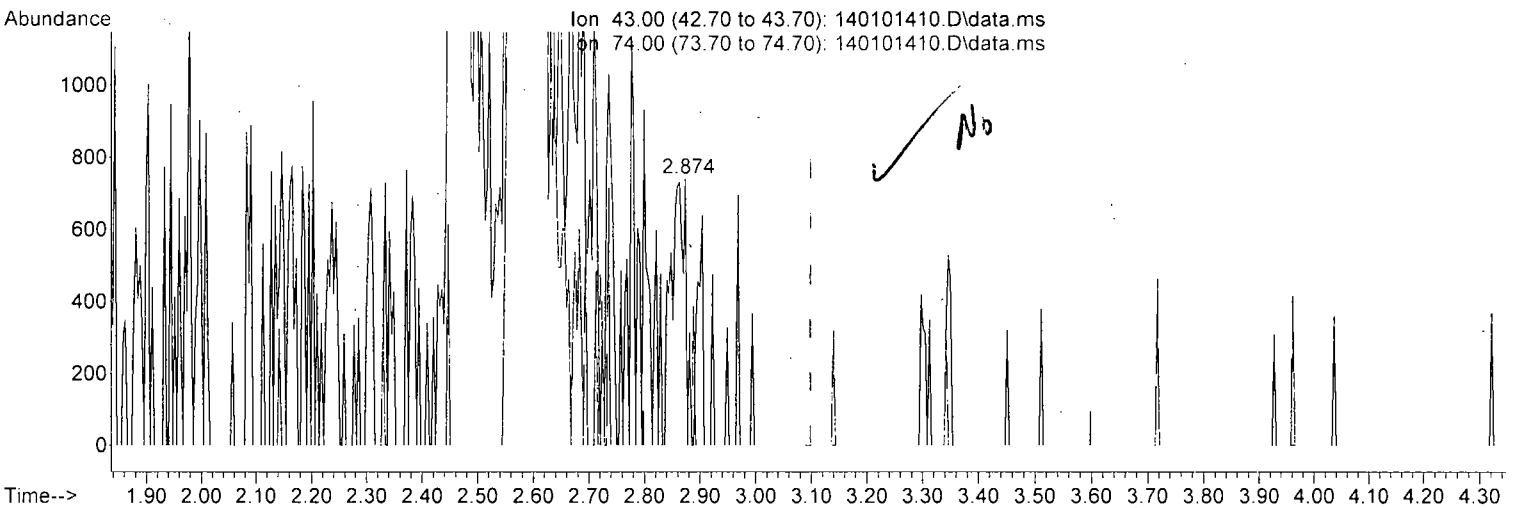
Ion	Ratio	Lower	Upper
106	100		
91	225.2	164.8	247.2

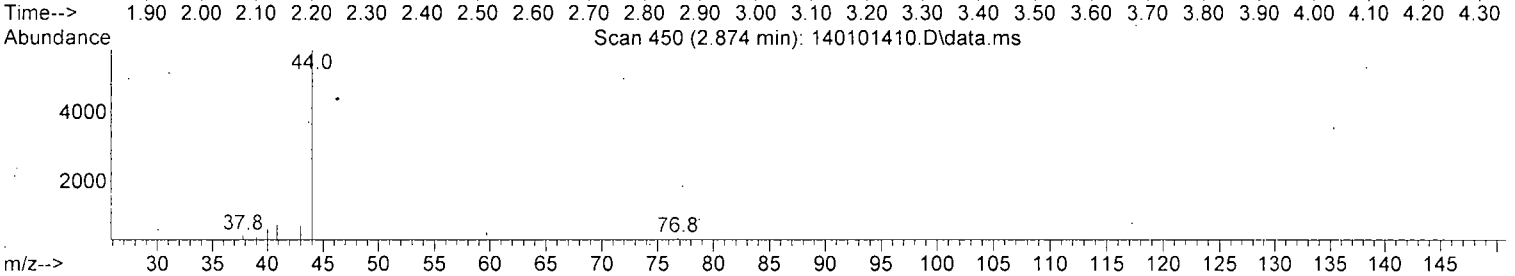


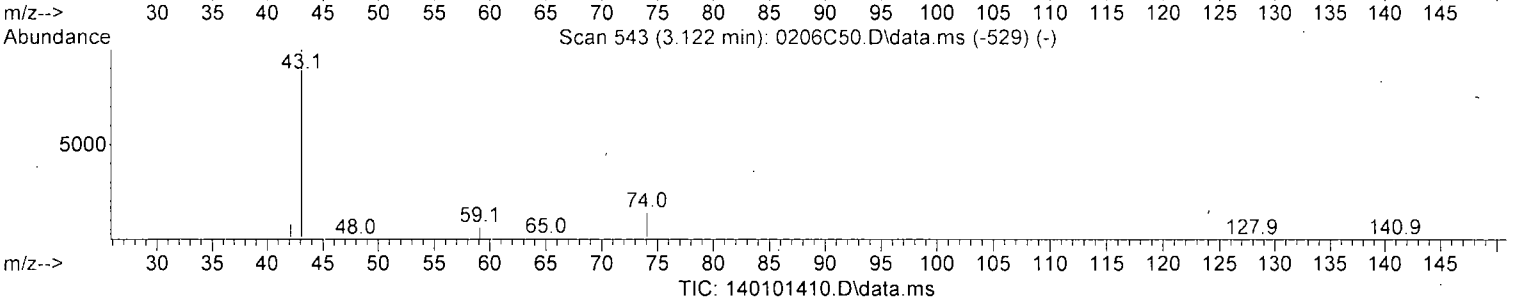
Freedom_0005792_0304

Data Path : D:\DATA\L02122014\
Data File : 140101410.D
Acq On : 12 Feb 2014 15:30
Operator : PZ PZ1-AG5975
Sample : 1401014-10
Misc : B, TB03
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 12 16:12:22 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







(13) METHYL ACETATE (TMCP)

2.874min (-0.225) 0.13 ug/L

response 1344

Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

LSC Area Percent Report

Data Path : D:\DATA\L02122014\
Data File : 140101410.D
Acq On : 12 Feb 2014 15:30
Operator : PZ PZ1-AG5975
Sample : 1401014-10
Misc : B, TB03
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: NOISY.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L02122014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 140101410.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.813	165	167	174	rVB2	10578	11057	2.45%	0.404%
2	2.154	252	258	262	rBV4	5222	7413	1.64%	0.271%
3	2.446	330	336	339	rBV3	8566	8836	1.96%	0.323%
4	2.585	362	373	389	rBV3	201516	405398	89.94%	14.825%
5	2.975	469	477	486	rVB4	10257	16549	3.67%	0.605%
6	3.665	656	661	667	rVB2	4210	4895	1.09%	0.179%
7	3.788	690	694	702	rBV3	4417	6516	1.45%	0.238%
8	5.494	1135	1149	1163	rBV3	118837	224516	49.81%	8.210%
9	6.525	1410	1424	1442	rBV3	194131	358838	79.61%	13.122%
10	8.617	1969	1982	1996	rBV2	257227	450746	100.00%	16.483%
11	8.699	1996	2004	2012	rVB5	13166	23106	5.13%	0.845%
12	9.625	2249	2251	2260	rVB	3484	5234	1.16%	0.191%
13	10.337	2426	2441	2453	rBV	265695	435367	96.59%	15.921%
14	10.888	2581	2588	2595	rVB4	5884	9654	2.14%	0.353%
15	11.275	2685	2691	2699	rBV4	4325	6534	1.45%	0.239%
16	11.646	2781	2790	2802	rVB2	216245	292044	64.79%	10.680%
17	12.054	2893	2899	2904	rBV2	3745	5836	1.29%	0.213%
18	12.808	3092	3100	3110	rVB2	336913	404546	89.75%	14.794%
19	14.577	3567	3572	3575	rBV2	7057	6062	1.34%	0.222%
20	16.275	4020	4025	4031	rVB4	5215	5246	1.16%	0.192%
21	16.541	4090	4096	4098	rBV	4810	5081	1.13%	0.186%
22	17.156	4259	4260	4264	rBV	7285	5621	1.25%	0.206%
23	17.422	4325	4331	4332	rBV3	4542	5342	1.19%	0.195%
24	17.647	4386	4391	4394	rVB3	6374	6568	1.46%	0.240%
25	17.677	4394	4399	4401	rBV2	4576	5373	1.19%	0.196%
26	17.707	4404	4407	4410	rBV3	7157	5539	1.23%	0.203%
27	18.359	4579	4581	4589	rVB6	6865	7562	1.68%	0.277%
28	19.402	4857	4859	4865	rVB3	3916	5109	1.13%	0.187%

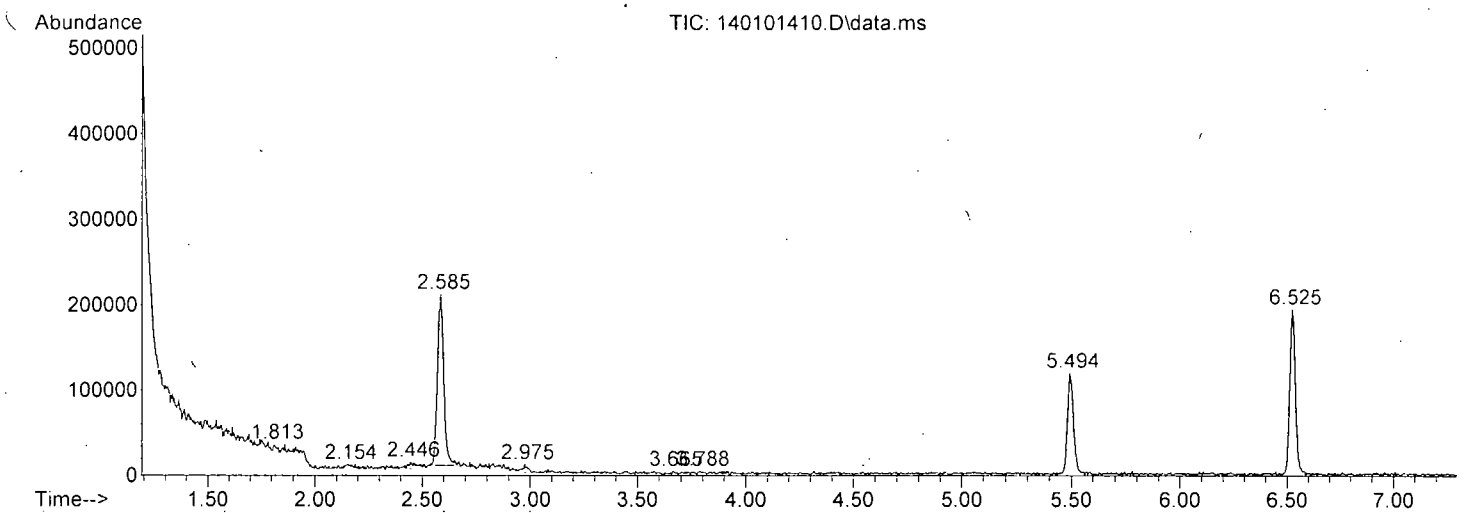
Sum of corrected areas: 2734588

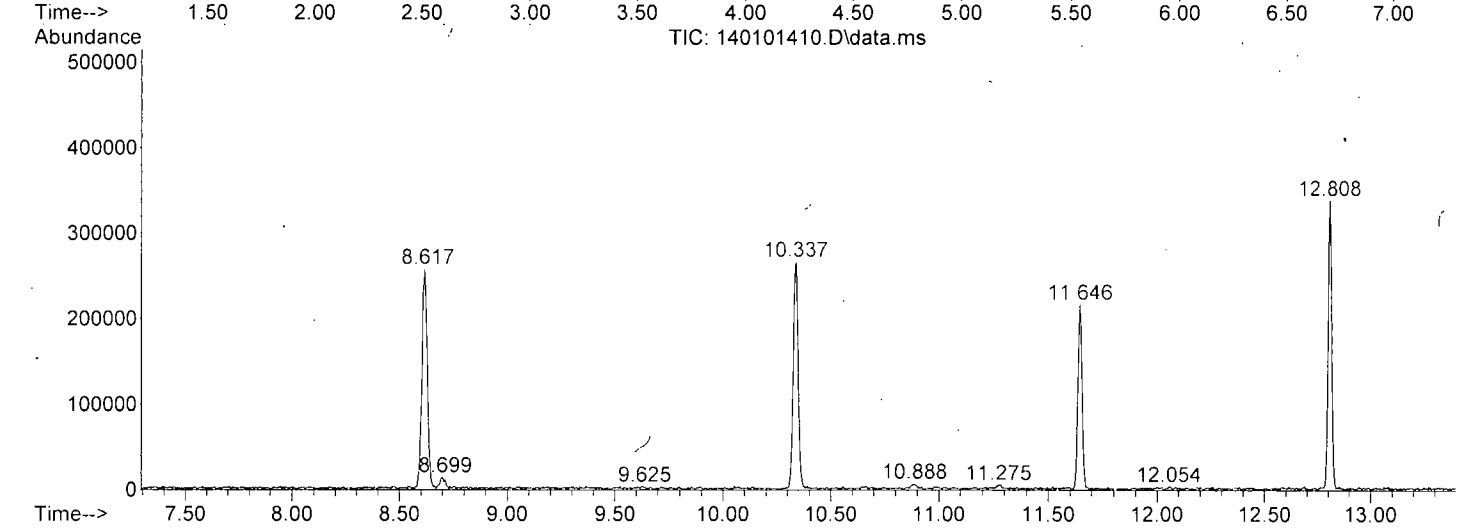
Freedom_0005792_0306

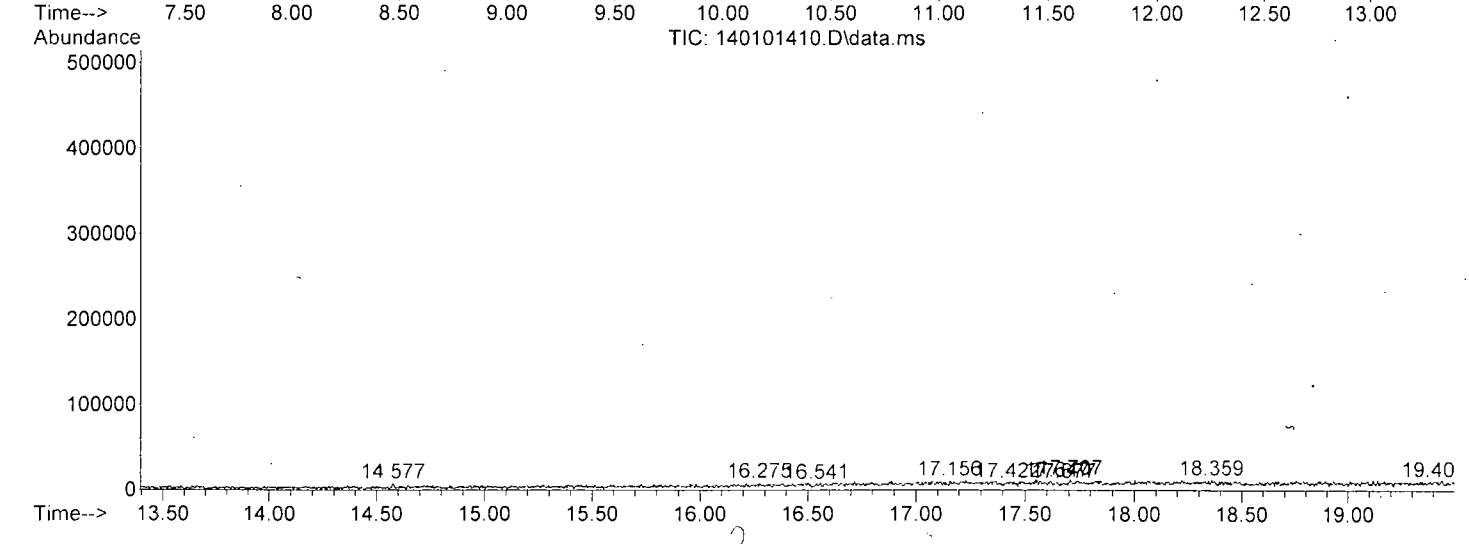
Data Path : D:\DATA\L02122014\
Data File : 140101410.D
Acq On : 12 Feb 2014 15:30
Operator : PZ PZ1-AG5975
Sample : 1401014-10
Misc : B, TB03
ALS Vial : 15 Sample Multiplier: 1

Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P







Data Path : D:\DATA\L02122014\
Data File : 140101410.D
Acq On : 12 Feb 2014 15:30
Operator : PZ PZ1-AG5975
Sample : 1401014-10
Misc : B, TB03
ALS Vial : 15 Sample Multiplier: 1

Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

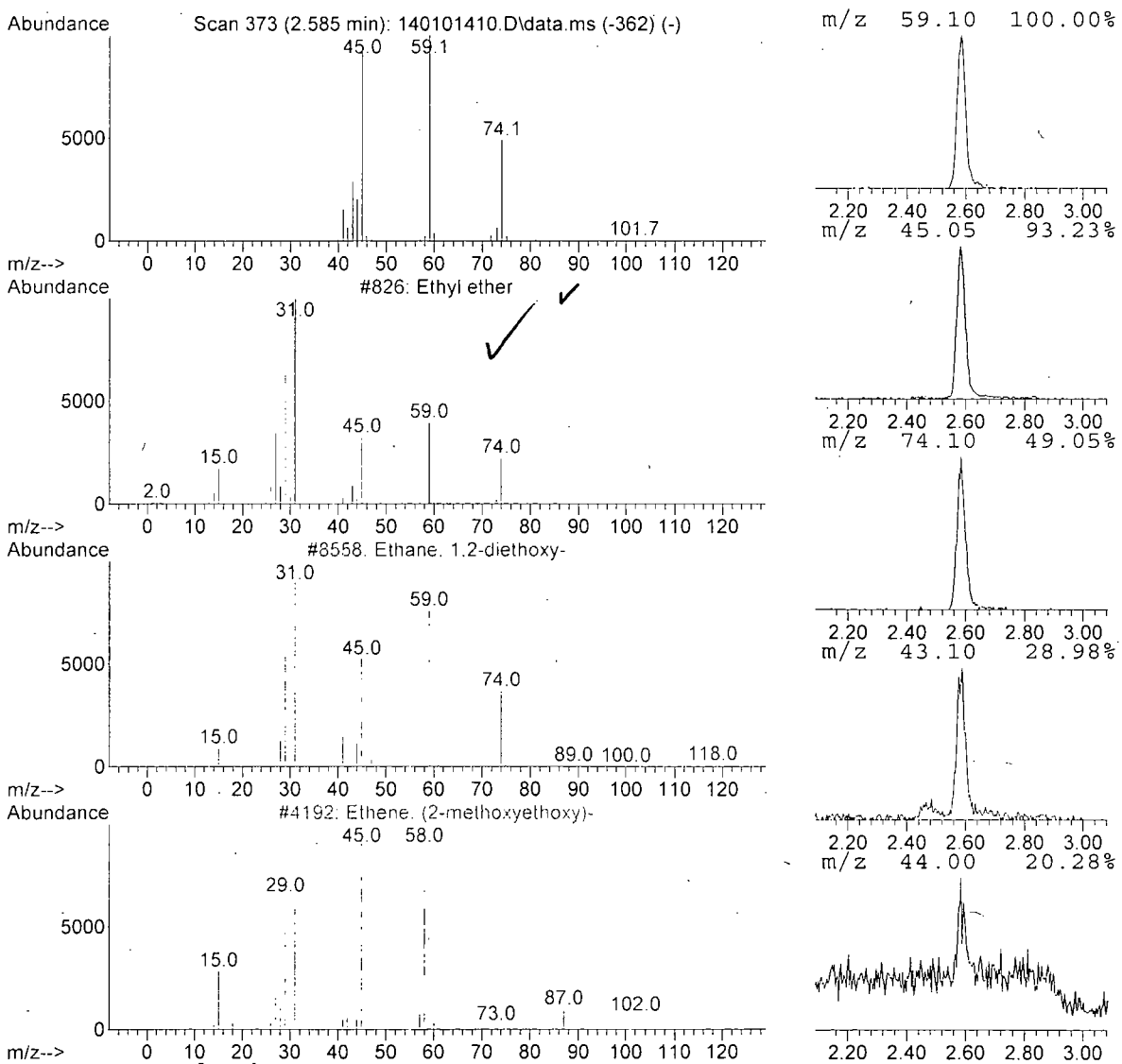
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 1 Ethyl ether Concentration Rank 1

R.T.	EstConc		Area	Relative to ISTD	R.T.
2.585	5.65 ug/L	T	405398	1,4-DIFLUOROBENZENE	6.525

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethyl ether	74	C4H10O	000060-29-7	86
2	Ethane, 1,2-diethoxy-	118	C6H14O2	000629-14-1	64
3	Ethene, (2-methoxyethoxy)-	102	C5H10O2	001663-35-0	38
4	3-Hexanol	102	C6H14O	000623-37-0	27
5	Hydrazine, trimethyl-	74	C3H10N2	001741-01-1	25



Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L02122014\
Data File : 140101410.D
Acq On : 12 Feb 2014 15:30
Operator : PZ PZ1-AG5975
Sample : 1401014-10
Misc : B, TB03
ALS Vial : 15 Sample Multiplier: 1

Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Ethyl ether	2.585	5.6	ug/L	405398	1	6.525	358838	5.0

Freedom_0005792_0309

Quantitation Report (QT Reviewed)

1 TIC

Data Path : D:\DATA\L02122014\
Data File : 140101411.D
Acq On : 12 Feb 2014 15:58
Operator : PZ PZ1-AG5975
Sample : 1401014-11
Misc : A, TB04
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 12 16:20:45 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration

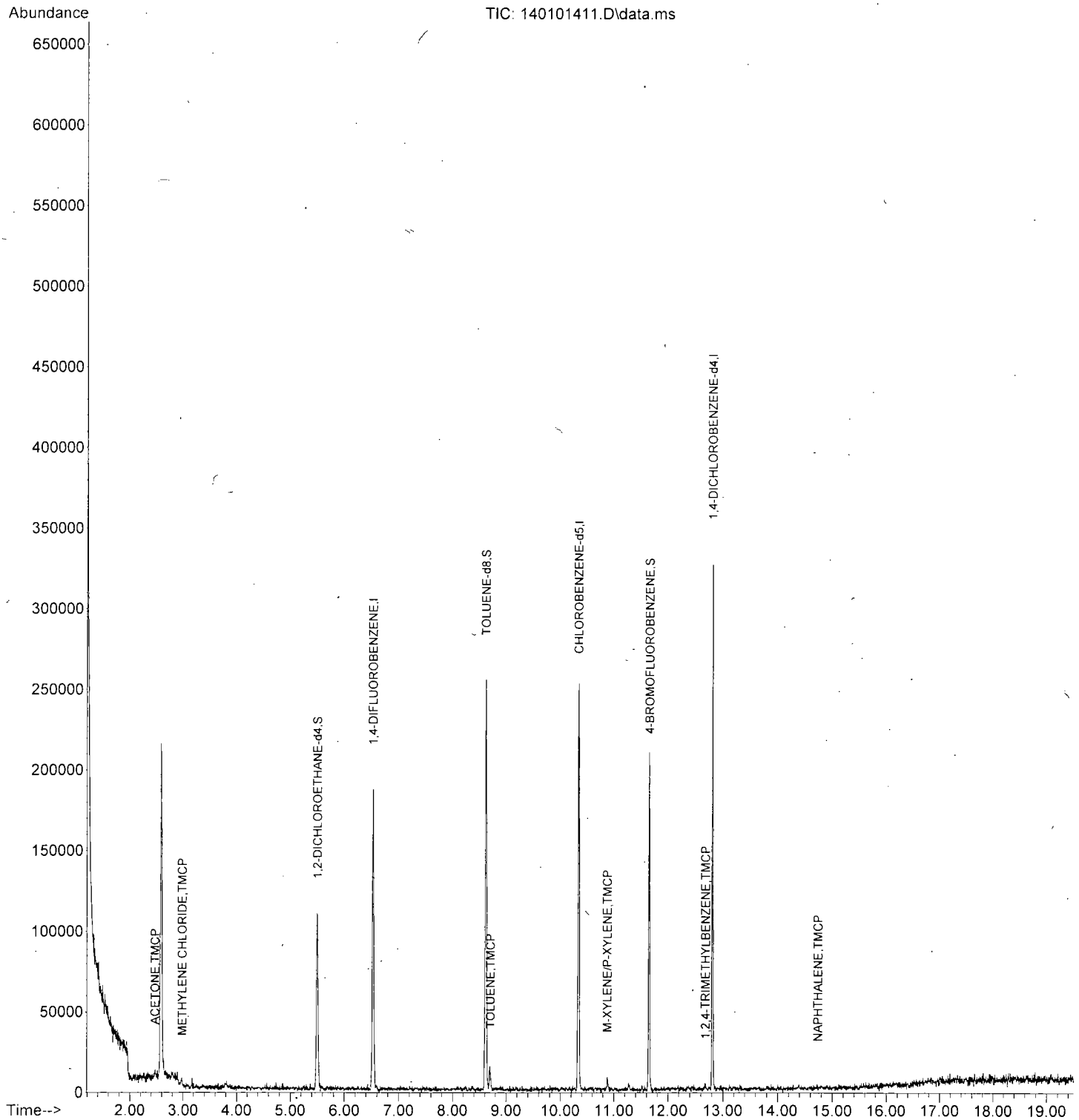
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.525	114	119966	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.333	117	106116	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.807	152	52539	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.501	65	83854	5.56	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	=	111.20%	
41) TOLUENE-d8	8.617	98	148026	4.98	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	=	99.60%	
59) 4-BROMOFLUOROBENZENE	11.649	95	52948	4.93	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	=	98.60%	
Target Compounds						Qvalue
8) ACETONE in LRB	2.473	43	8534m B	1.90	ug/L	
10) METHYLENE CHLORIDE	2.986	84	1375m	0.15	ug/L	
42) TOLUENE	8.706	92	5855	0.27	ug/L	95
52) M-XYLENE/P-XYLENE	10.881	106	2033m	0.14	ug/L	
66) 1,2,4-TRIMETHYLBENZENE	12.684	105	1902	0.07	ug/L #	80
75) NAPHTHALENE	14.738	128	1371	0.06	ug/L #	69

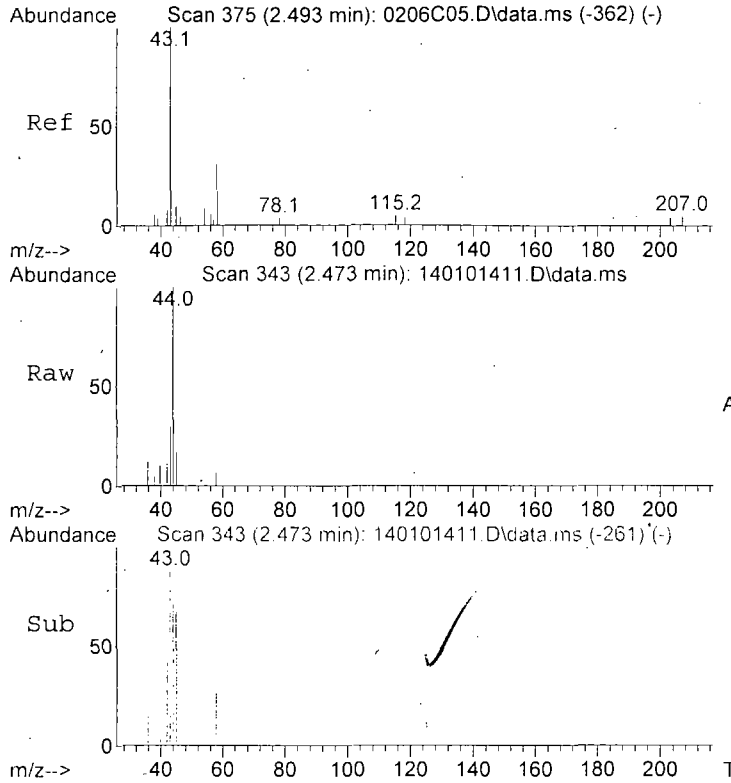
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0310

Data Path : D:\DATA\L02122014\
Data File : 140101411.D
Acq On : 12 Feb 2014 15:58
Operator : PZ PZ1-AG5975
Sample : 1401014-11
Misc : A, TB04
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 12 16:20:45 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration

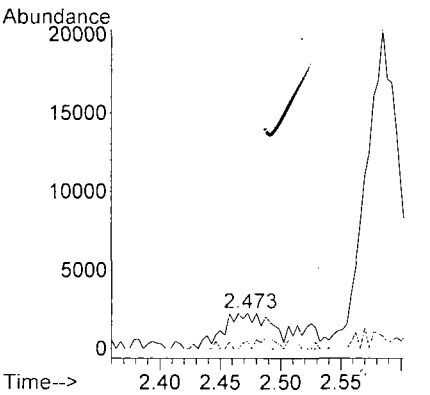


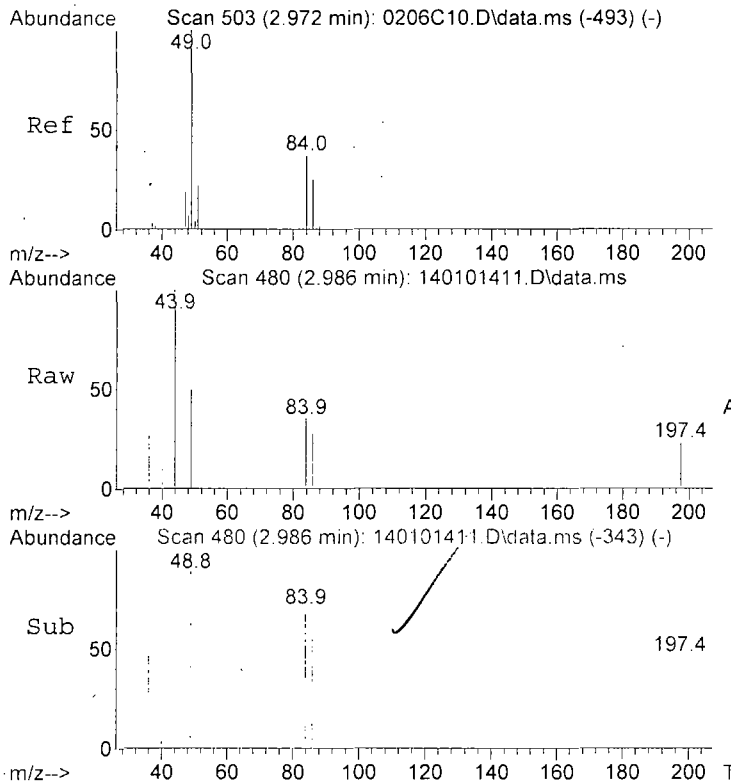


#8
ACETONE
Concen: 1.90 ug/L m
RT: 2.473 min Scan# 343
Delta R.T. 0.008 min
Lab File: 140101411.D
Acq: 12 Feb 2014 15:58

Tgt Ion: 43 Resp: 8534

Ion	Ratio	Lower	Upper
43	100		
58	8.2	22.5	33.7#

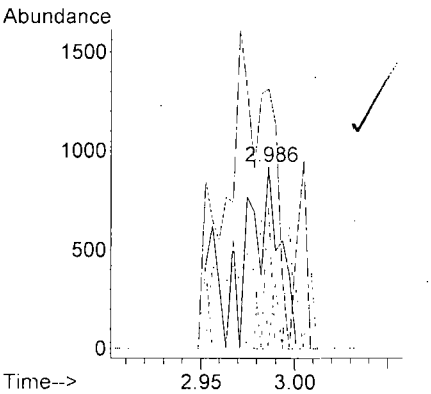




#10
METHYLENE CHLORIDE
Concen: 0.15 ug/L m
RT: 2.986 min Scan# 480
Delta R.T. 0.015 min
Lab File: 140101411.D
Acq: 12 Feb 2014 15:58

Tgt Ion: 84 Resp: 1375

Ion	Ratio	Lower	Upper
84	100		
49	154.6	102.1	153.1#
51	0.0	31.0	46.6#
86	0.0	49.2	73.8#

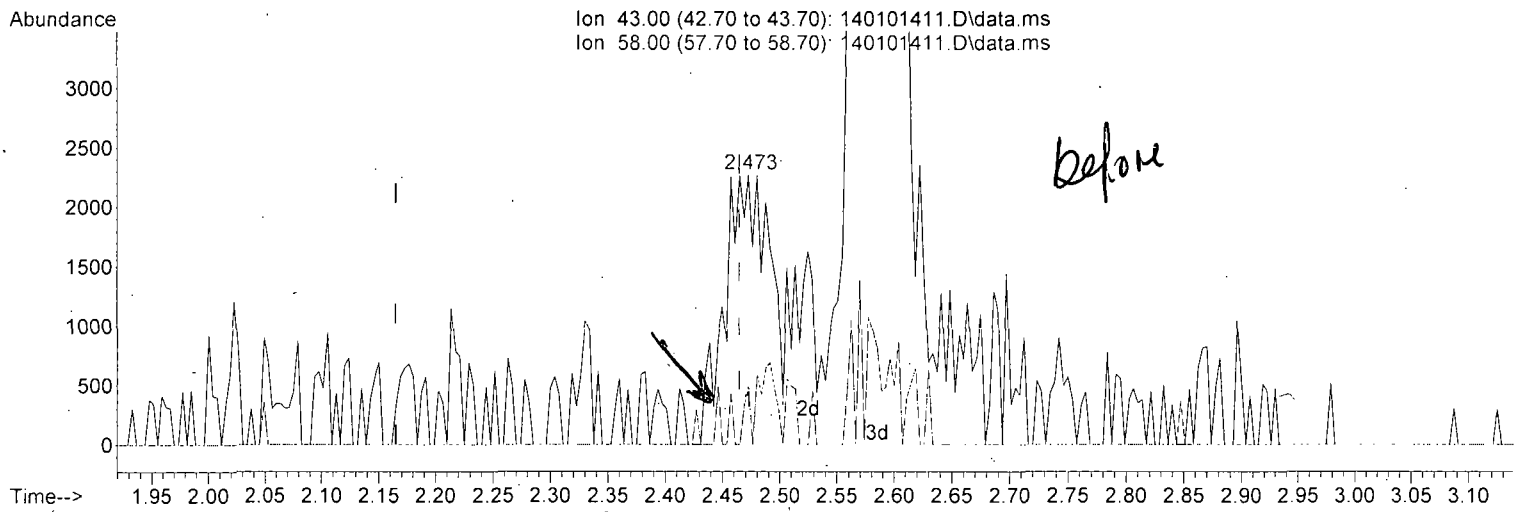


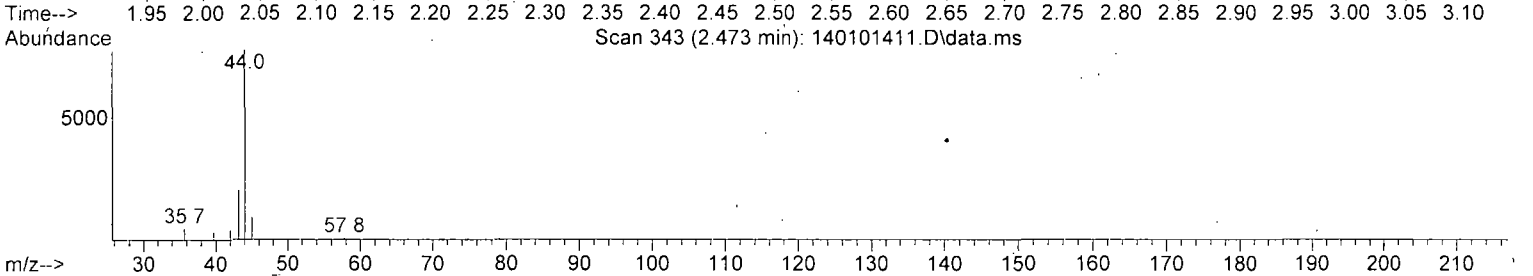
Freedom_0005792_0312

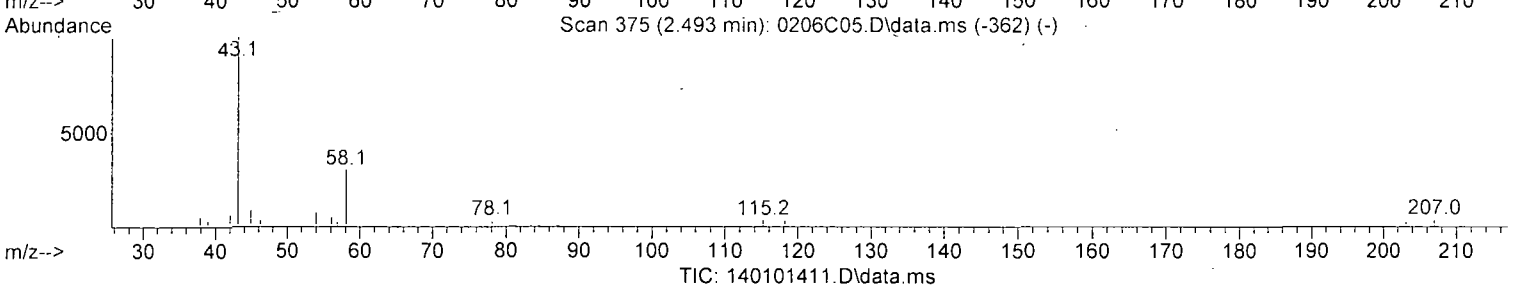
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 140101411.D
Acq On : 12 Feb 2014 15:58
Operator : PZ PZ1-AG5975
Sample : 1401014-11
Misc : A, TB04
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 12 16:18:31 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







(8) ACETONE (TMCP)

2.473min (+0.008) 1.05 ug/L

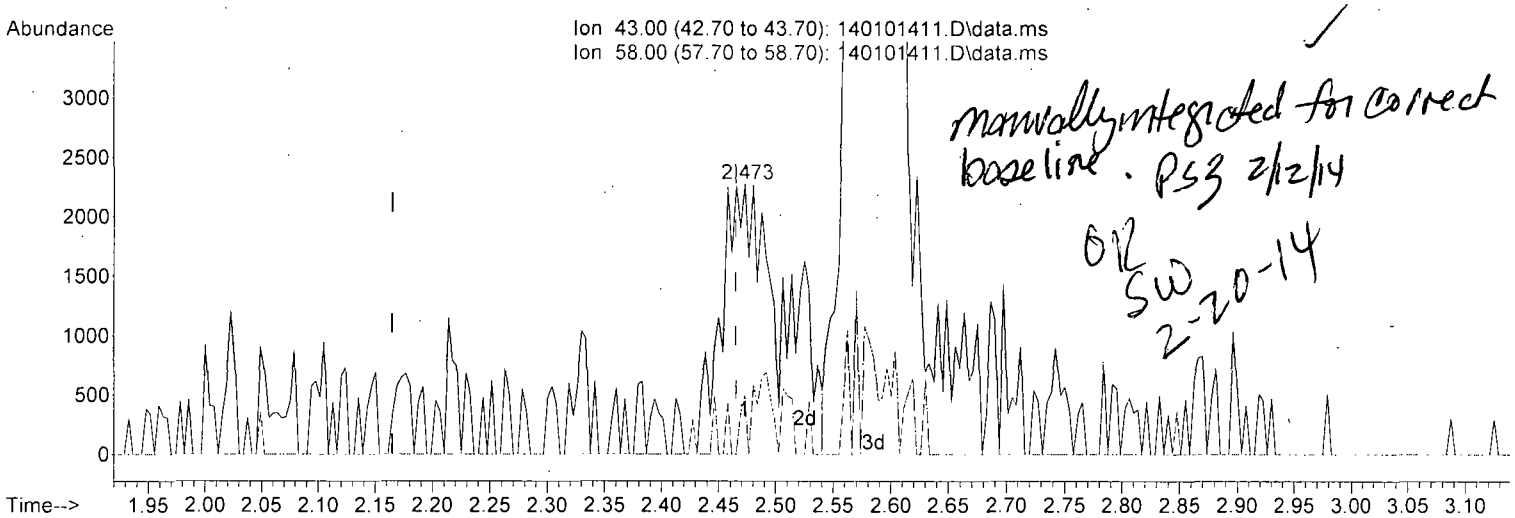
response 4735

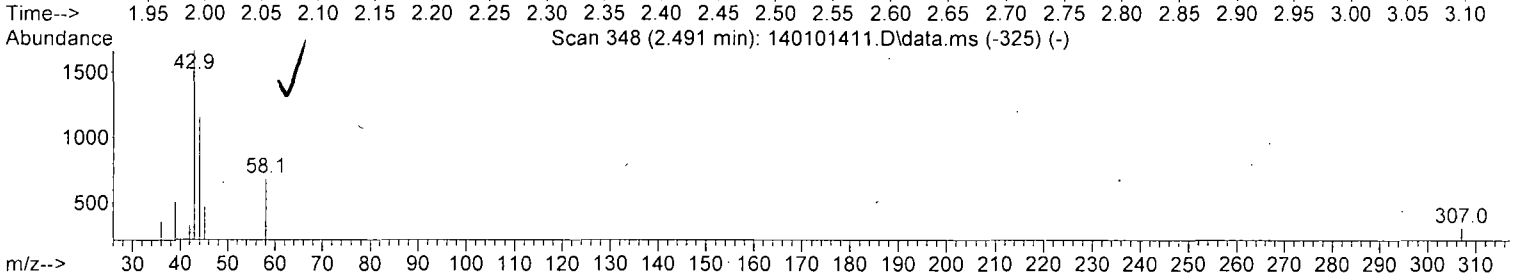
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	14.78#
0.00	0.00	0.00
0.00	0.00	0.00

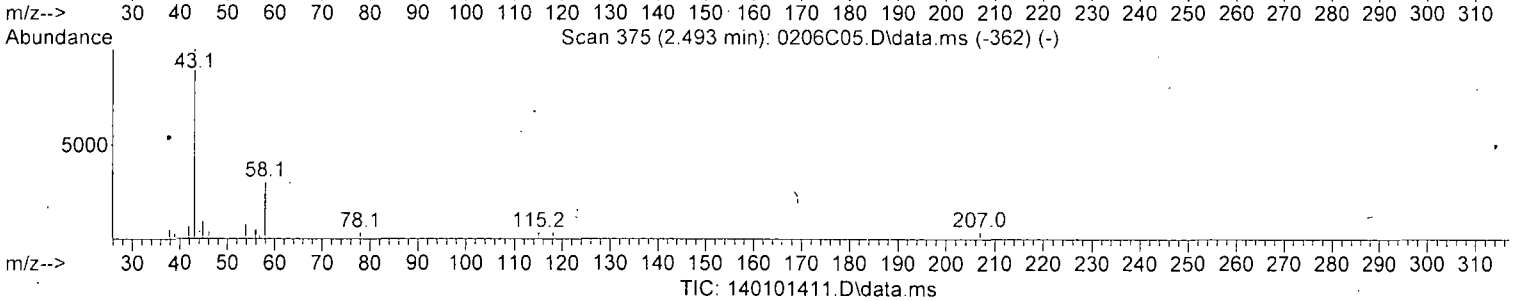
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 140101411.D
Acq On : 12 Feb 2014 15:58
Operator : PZ PZ1-AG5975
Sample : 1401014-11
Misc : A, TB04
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 12 16:18:31 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







TIC: 140101411.D\data.ms

(8) ACETONE (TMCP)

2.473min (+0.008) 1.90 ug/L m

response 8534

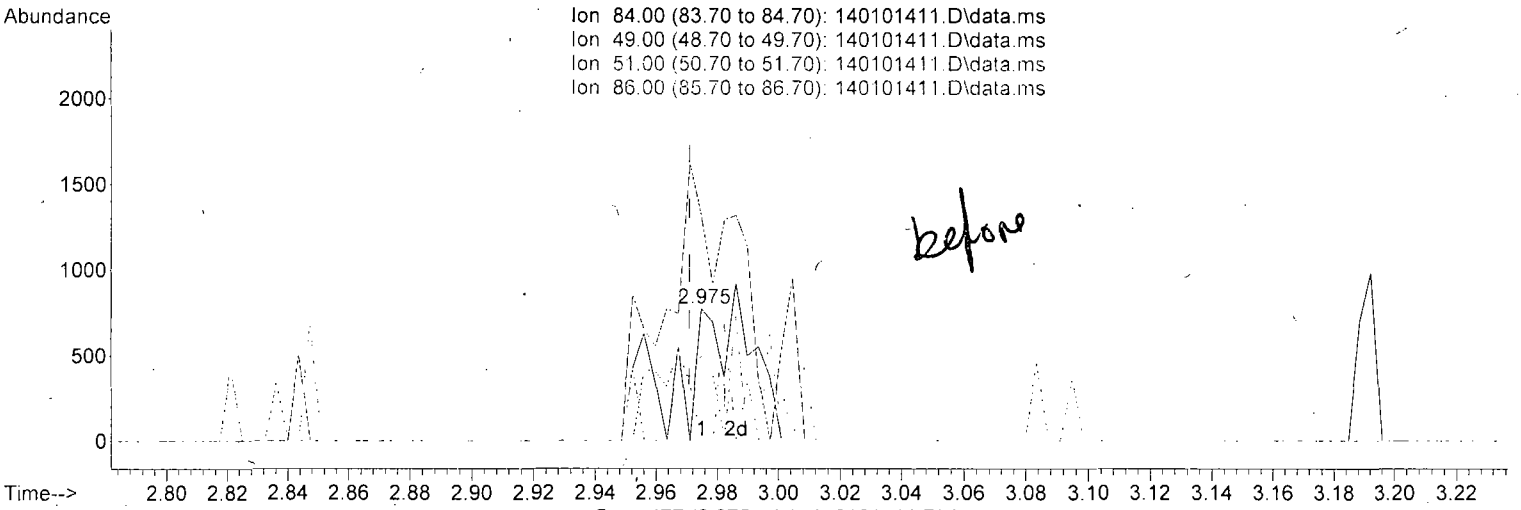
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	8.20#
0.00	0.00	0.00
0.00	0.00	0.00

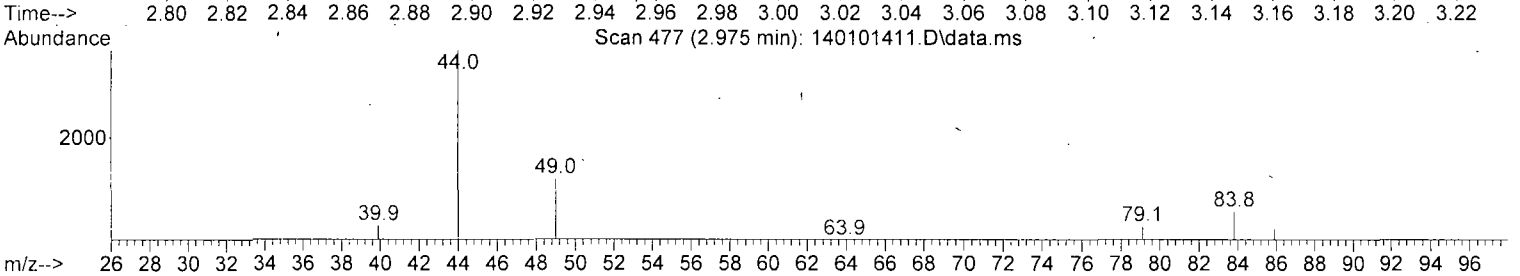
Freedom_0005792_0314

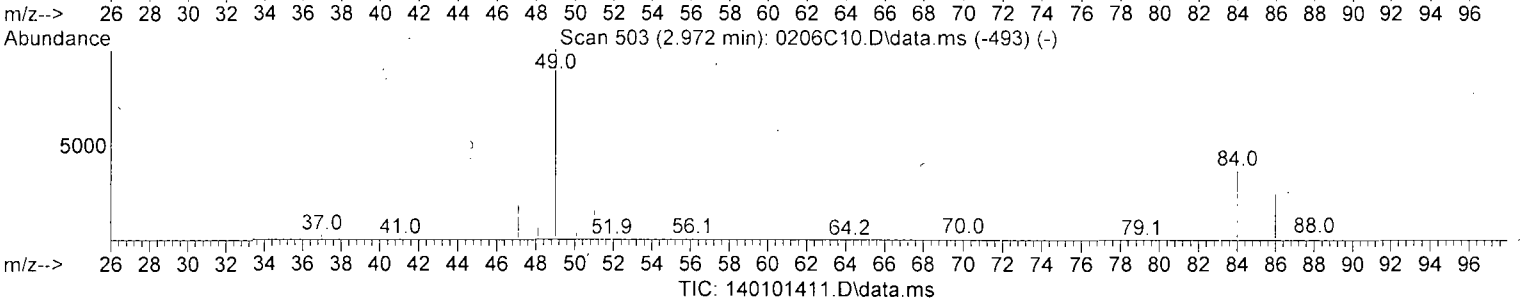
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 140101411.D
Acq On : 12 Feb 2014 15:58
Operator : PZ PZ1-AG5975
Sample : 1401014-11
Misc : A, TB04
ALS_Vial : 16 Sample Multiplier: 1

Quant Time: Feb 12 16:18:31 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







(10) METHYLENE CHLORIDE (TMCP)

2.975min (+0.004) 0.06 ug/L

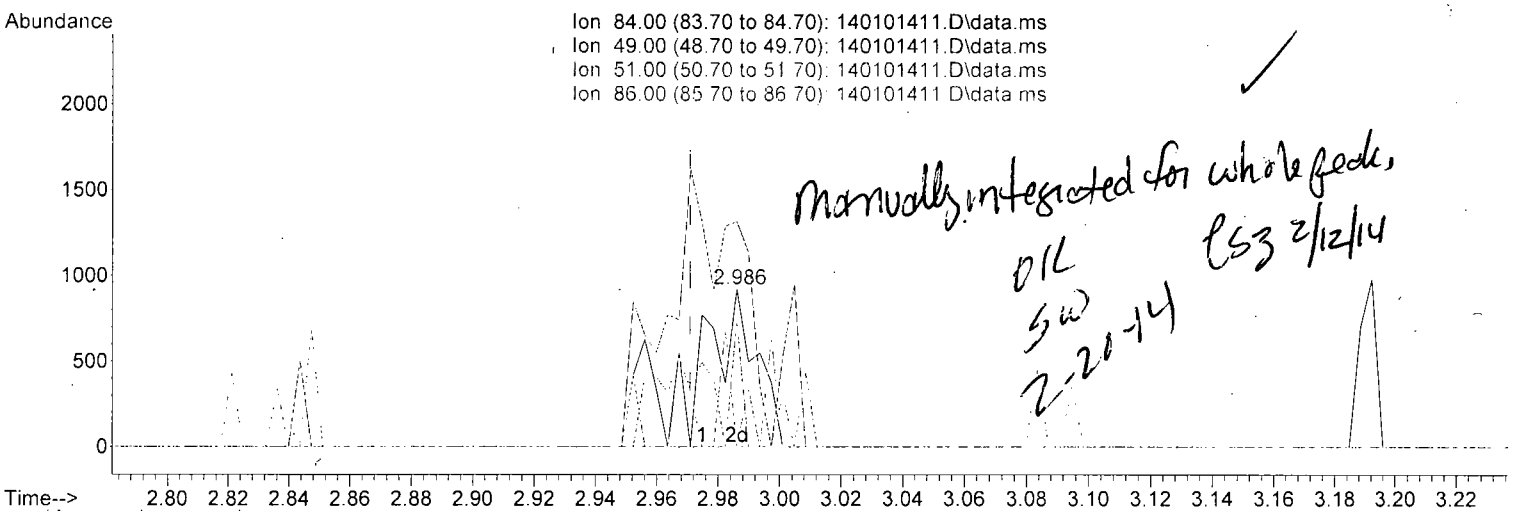
response 537

Ion	Exp%	Act%
84.00	100	100
49.00	127.60	395.90#
51.00	38.80	0.00#
86.00	61.50	0.00#

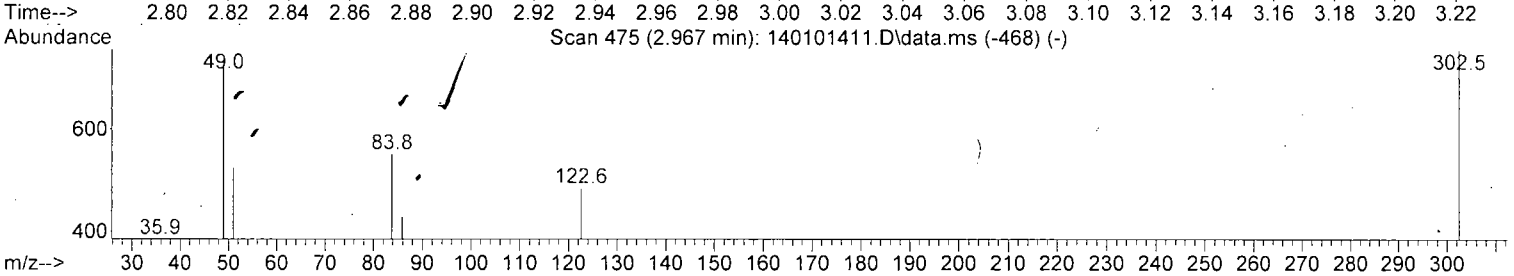
Quantitation Report (Qedit)

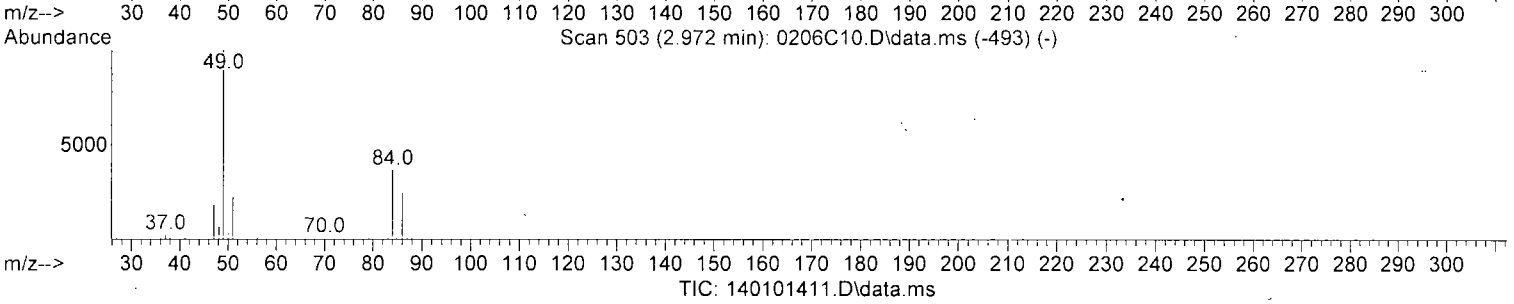
Data Path : D:\DATA\L02122014\
Data File : 140101411.D
Acq On : 12 Feb 2014 15:58
Operator : PZ PZ1-AG5975
Sample : 1401014-11
Misc : A, TB04
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 12 16:18:31 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration



Manually integrated for whole peak, CSZ 2/12/14
OK SW 2-20-14



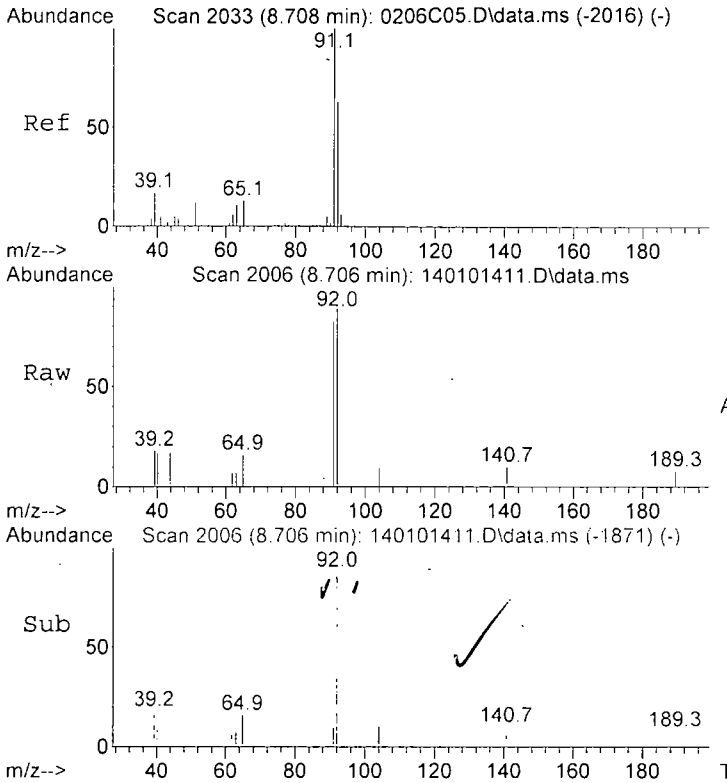


(10) METHYLENE CHLORIDE (TMCP)

2.986min (+0.015) 0.15 ug/L m

response 1375

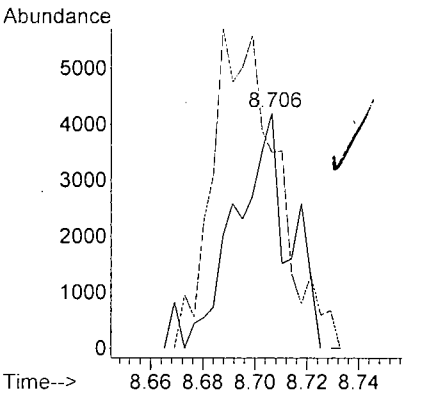
Ion	Exp%	Act%
84.00	100	100
49.00	127.60	154.62#
51.00	38.80	0.00#
86.00	61.50	0.00#

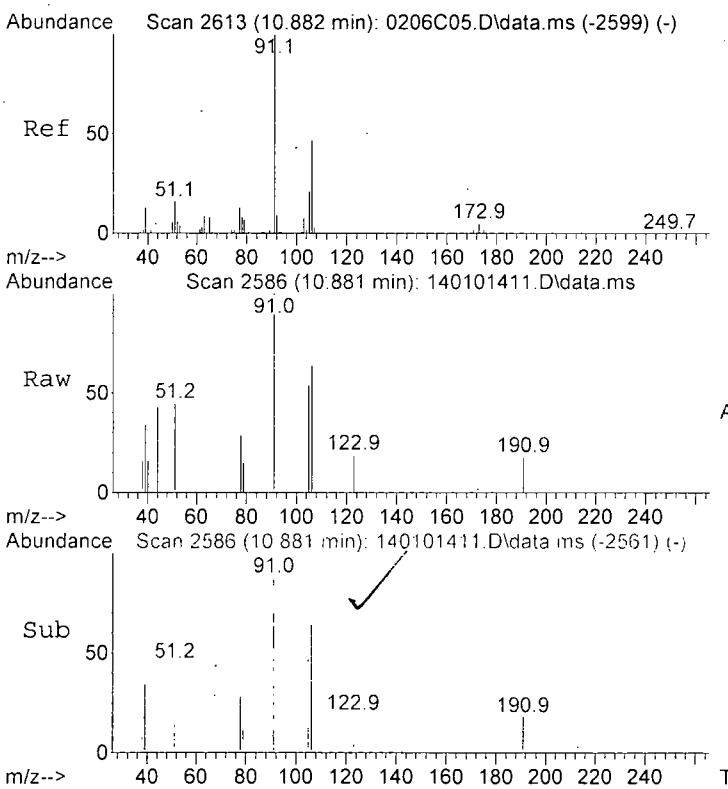


#42
TOLUENE
Concen: 0.27 ug/L
RT: 8.706 min Scan# 2006
Delta R.T. 0.008 min
Lab File: 140101411.D
Acq: 12 Feb 2014 15:58

Tgt Ion: 92 Resp: 5855

Ion	Ratio	Lower	Upper
92	100		
91	167.5	139.3	208.9

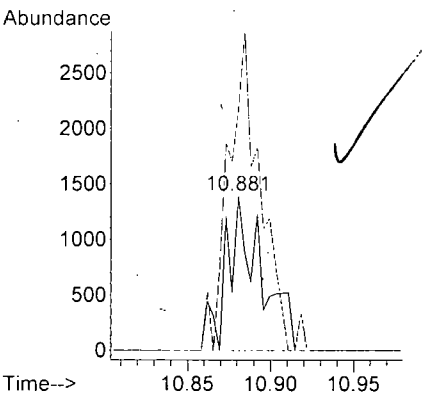




#52
M-XYLENE/P-XYLENE
Concen: 0.14 ug/L m
RT: 10.881 min Scan# 2586
Delta R.T. -0.007 min
Lab File: 140101411.D
Acq: 12 Feb 2014 15:58

Tgt Ion:106 Resp: 2033

Ion	Ratio	Lower	Upper
106	100		
91	185.7	164.8	247.2

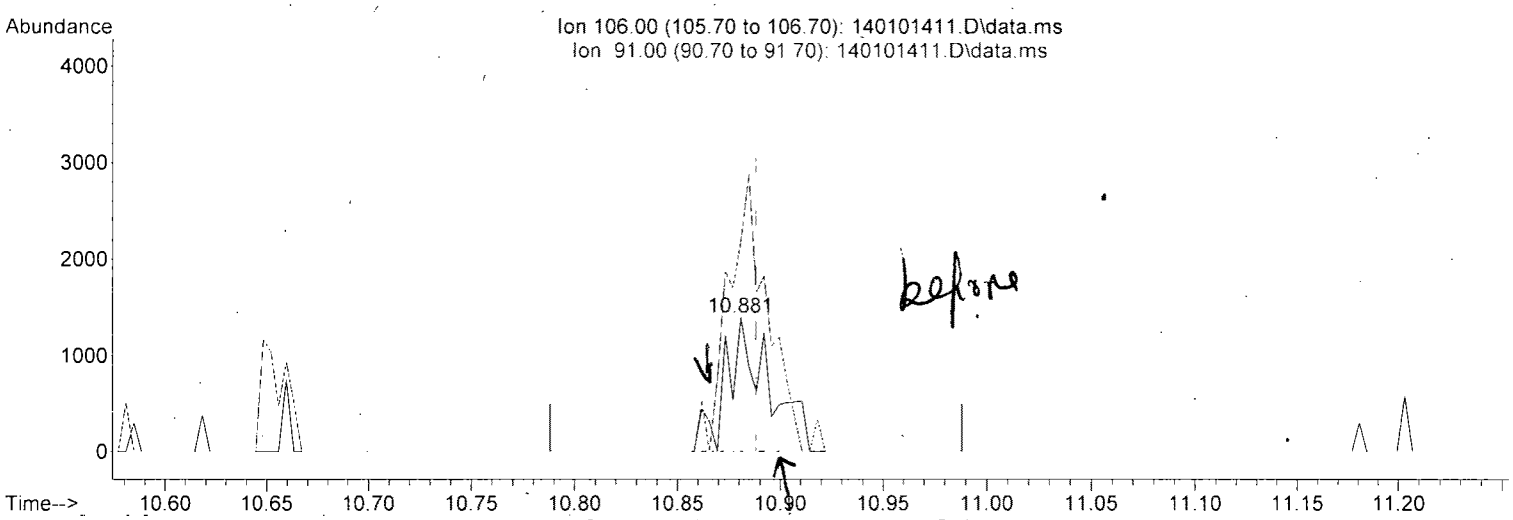


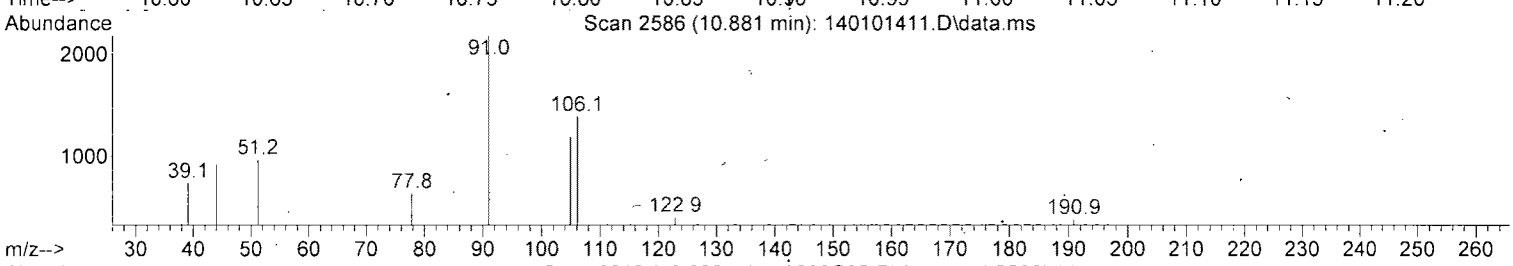
Freedom_0005792_0317

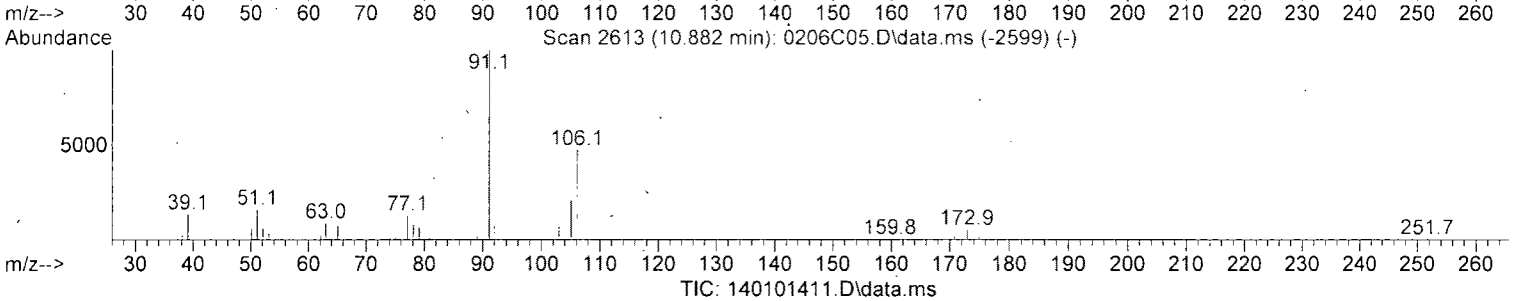
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 140101411.D
Acq On : 12 Feb 2014 15:58
Operator : PZ PZ1-AG5975
Sample : 1401014-11
Misc : A, TB04
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 12 16:18:31 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







TIC: 140101411.D\data.ms

(52) M-XYLENE/P-XYLENE (TMCP)

10.881min (-0.007) 0.11 ug/L

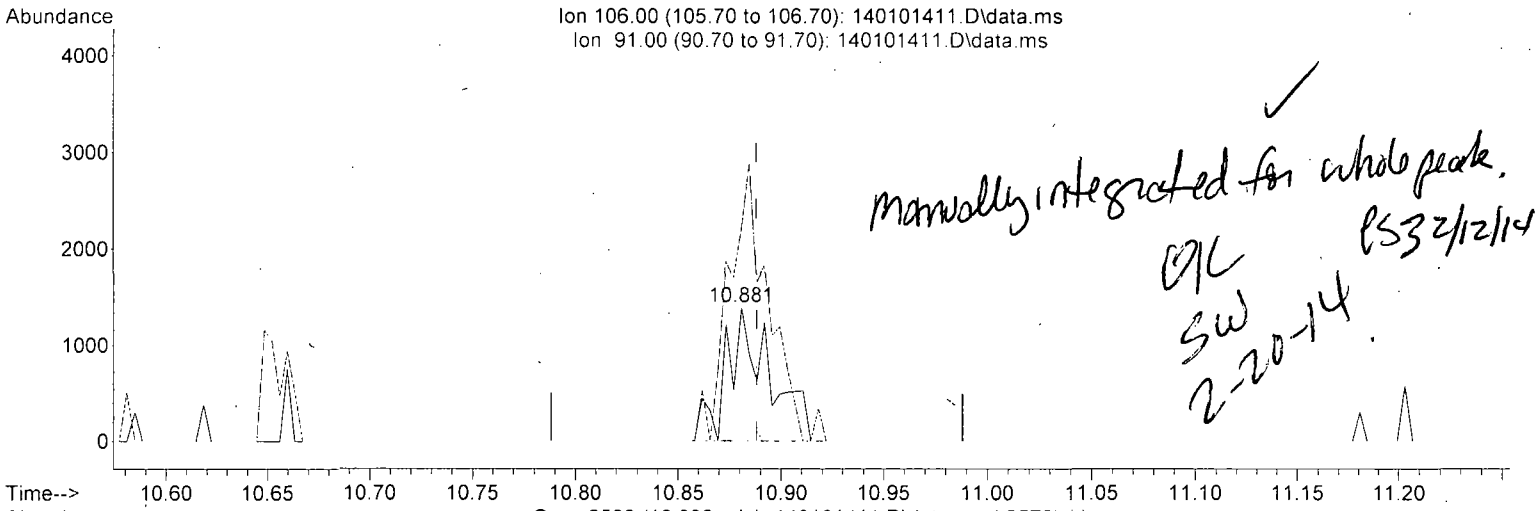
response 1684

Ion	Exp%	Act%
106.00	100	100
91.00	206.00	224.23
0.00	0.00	0.00
0.00	0.00	0.00

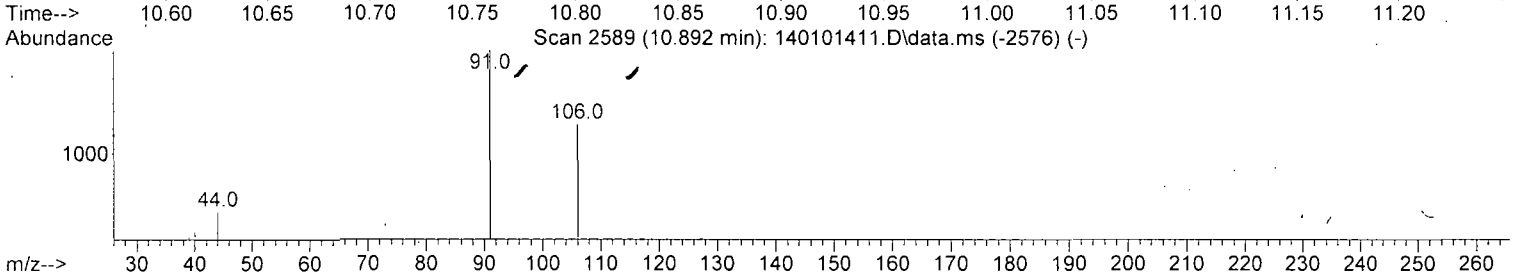
Quantitation Report (Qedit)

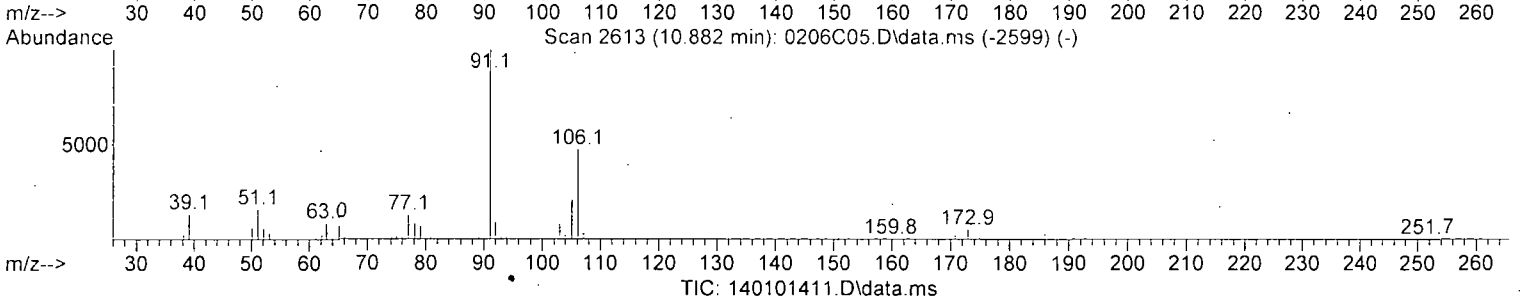
Data Path : D:\DATA\L02122014\
Data File : 140101411.D
Acq On : 12 Feb 2014 15:58
Operator : PZ PZ1-AG5975
Sample : 1401014-11
Misc : A, TB04
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 12 16:18:31 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration



manually integrated for whole peak.
PS3 2/12/14
OK
SW
2-20-14



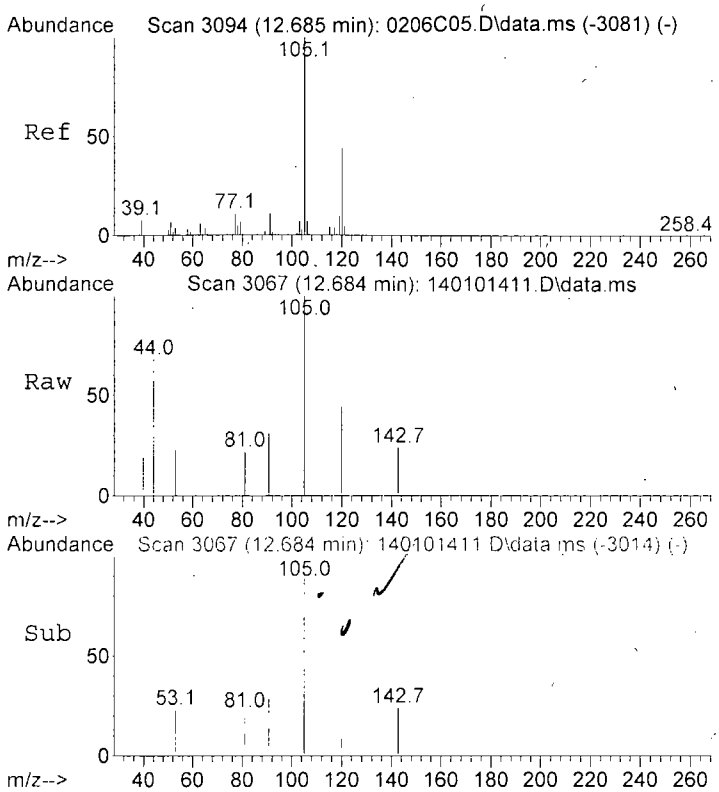


(52) M-XYLENE/P-XYLENE (TMCP)

10.881min (-0.007) 0.14 ug/L m

response 2033

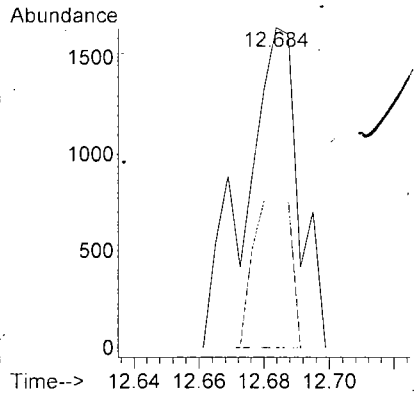
Ion	Exp%	Act%
106.00	100	100
91.00	206.00	185.74
0.00	0.00	0.00
0.00	0.00	0.00

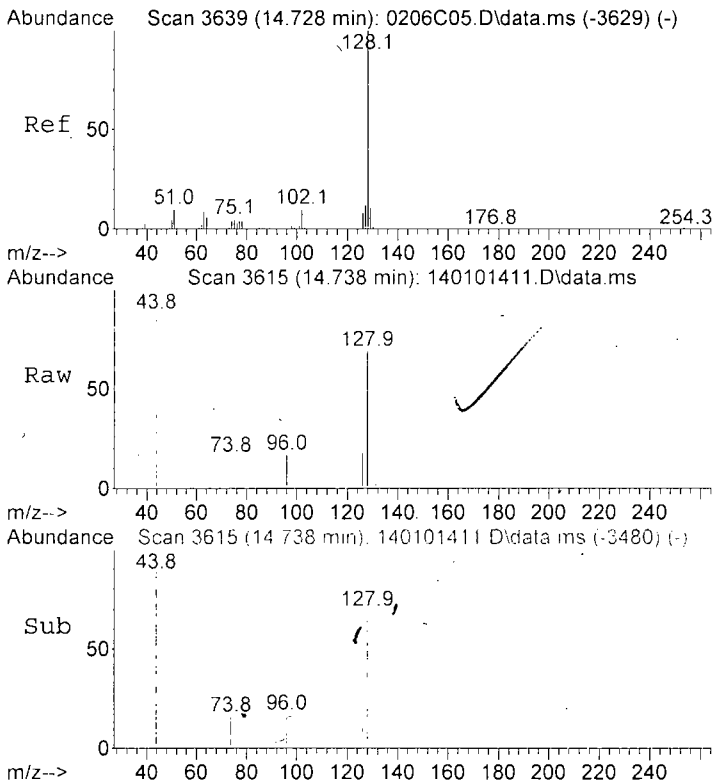


#66
1,2,4-TRIMETHYLBENZENE
Concen: 0.07 ug/L
RT: 12.684 min Scan# 3067
Delta R.T. 0.000 min
Lab File: 140101411.D
Acq: 12 Feb 2014 15:58

Tgt Ion:105 Resp: 1902

Ion	Ratio	Lower	Upper
105	100		
120	32.6	36.6	55.0#

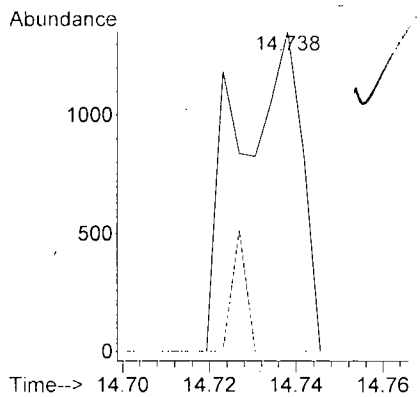




#75
NAPHTHALENE
Concen: 0.06 ug/L
RT: 14.738 min Scan# 3615
Delta R.T. 0.008 min
Lab File: 140101411.D
Acq: 12 Feb 2014 15:58

Tgt Ion:128 Resp: 1371

Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.7	13.1#
127	0.0	10.2	15.2#

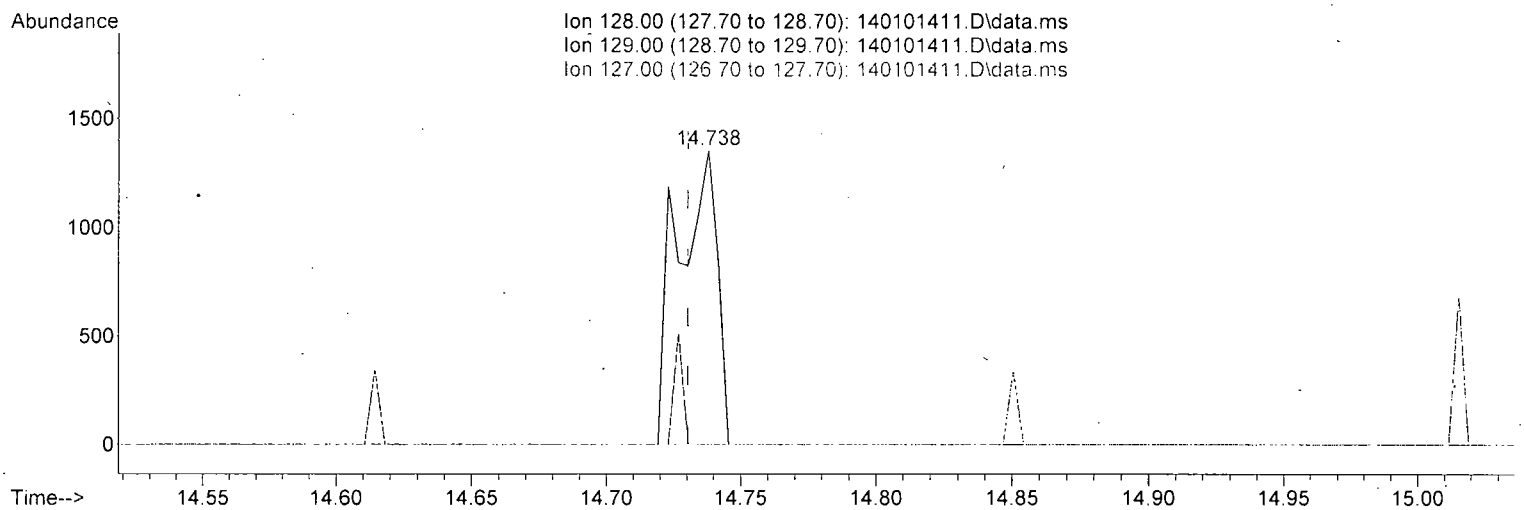


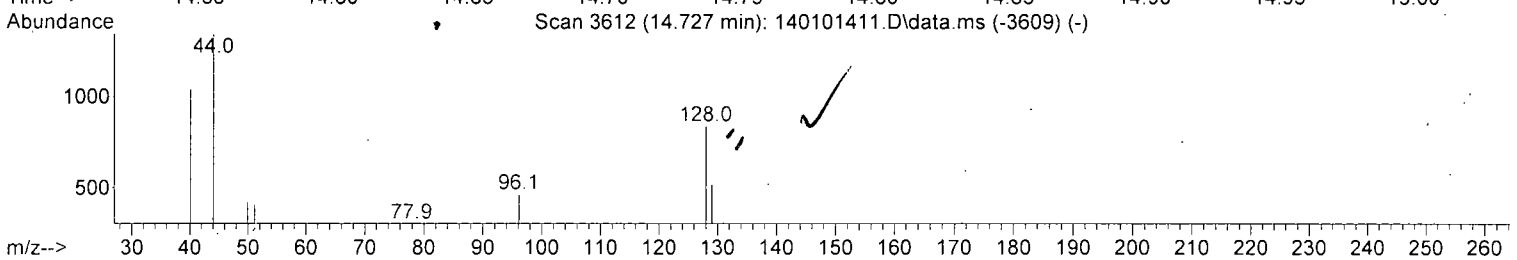
Freedom_0005792_0320

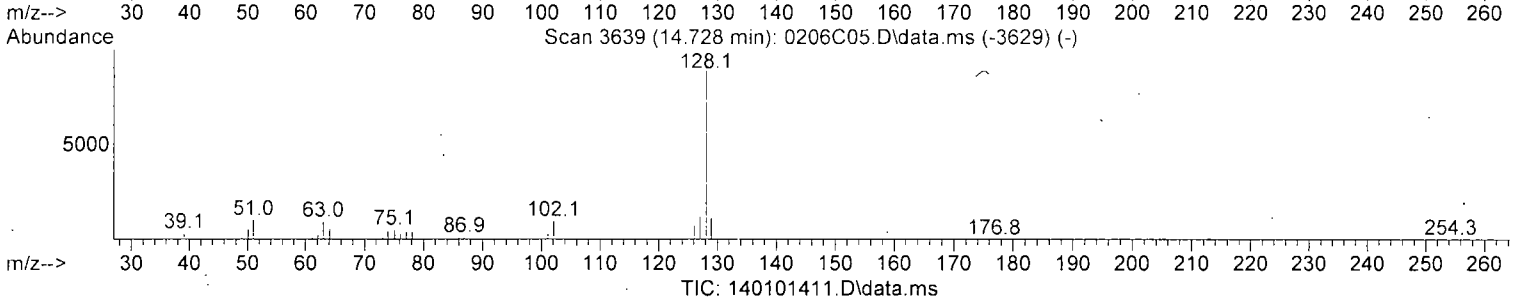
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 140101411.D
Acq On : 12 Feb 2014 15:58
Operator : PZ PZ1-AG5975
Sample : 1401014-11
Misc : A, TB04
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 12 16:18:31 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







(75) NAPHTHALENE (TMCP)

14.738min (+0.008) 0.06 ug/L

response 1371

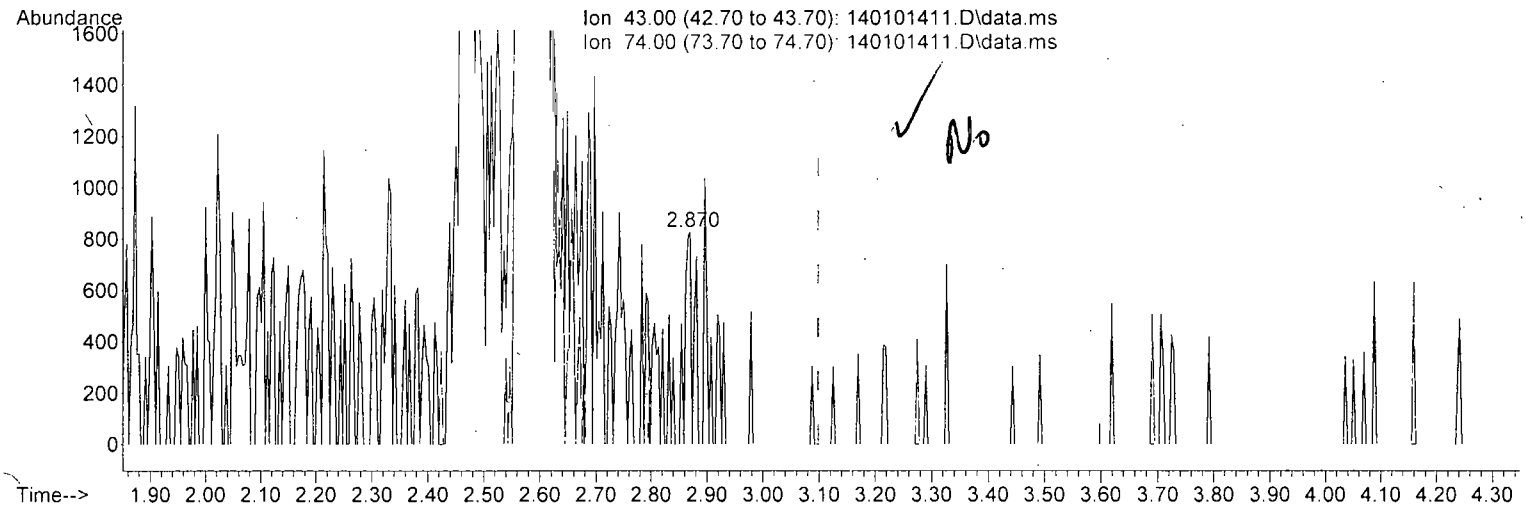
Ion	Exp%	Act%
128.00	100	100
129.00	10.90	0.00#
127.00	12.70	0.00#
0.00	0.00	0.00

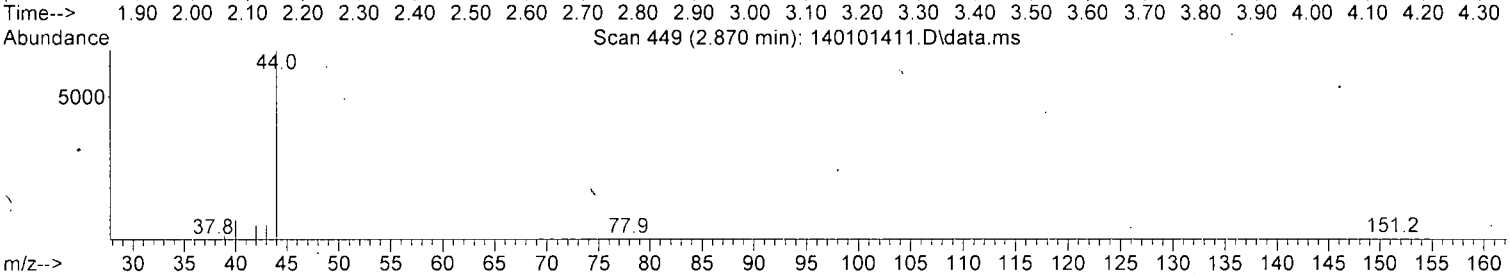
Freedom_0005792_0321

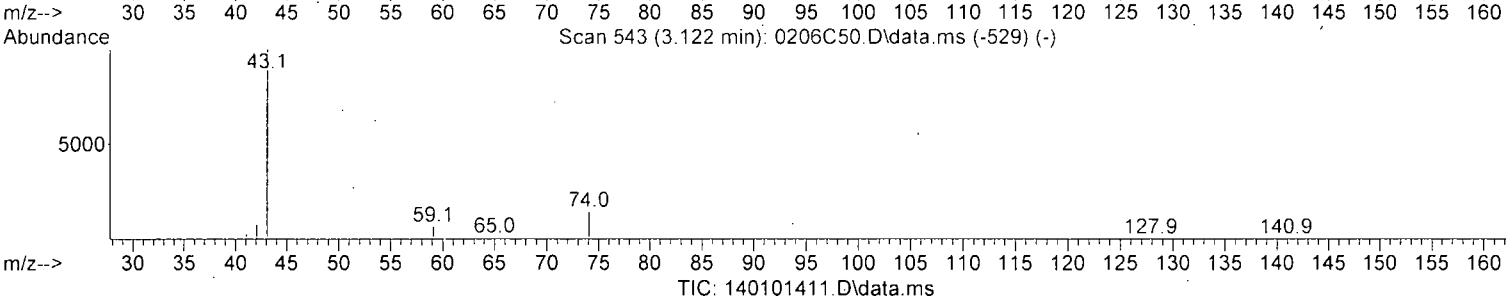
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 140101411.D
Acq On : 12 Feb 2014 15:58
Operator : PZ PZ1-AG5975
Sample : 1401014-11
Misc : A, TB04
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 12 16:18:31 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







(13) METHYL ACETATE (TMCP)

2.870min (-0.229) 0.06 ug/L

response 619

Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0322

LSC Area Percent Report

Data Path : D:\DATA\L02122014\
Data File : 140101411.D
Acq On : 12 Feb 2014 15:58
Operator : PZ PZ1-AG5975
Sample : 1401014-11
Misc : A, TB04
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: NOISY.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L02122014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 140101411.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.473	340	343	351	rVB4	5440	6690	1.52%	0.249%
2	2.581	360	372	390	rBV2	208735	424822	96.72%	15.784%
3	2.896	453	456	463	rVB	8177	8033	1.83%	0.298%
4	2.979	472	478	482	rVB3	5626	7566	1.72%	0.281%
5	3.170	521	529	532	rBV2	7013	6196	1.41%	0.230%
6	5.494	1136	1149	1163	rBV3	109638	222634	50.69%	8.272%
7	6.525	1410	1424	1436	rBV2	186732	346659	78.92%	12.880%
8	6.577	1437	1438	1450	rVB	4191	7400	1.68%	0.275%
9	8.617	1971	1982	1996	rBV3	254789	439230	100.00%	16.319%
10	8.699	1996	2004	2014	rVB4	15386	27575	6.28%	1.025%
11	10.337	2430	2441	2454	rBV3	253119	411179	93.61%	15.277%
12	10.884	2578	2587	2595	rVB3	9106	15381	3.50%	0.571%
13	11.267	2685	2689	2697	rVB5	5258	6804	1.55%	0.253%
14	11.518	2749	2756	2762	rVB2	4978	7138	1.63%	0.265%
15	11.645	2782	2790	2803	rBV2	211159	277969	63.29%	10.328%
16	12.808	3092	3100	3110	rBV2	326819	402151	91.56%	14.942%
17	13.119	3179	3183	3188	rBV	4501	5264	1.20%	0.196%
18	14.903	3654	3659	3667	rVB2	3488	5341	1.22%	0.198%
19	16.522	4085	4091	4094	rBV4	5212	6447	1.47%	0.240%
20	17.006	4218	4220	4224	rBV4	5405	5288	1.20%	0.196%
21	17.126	4248	4252	4258	rBV3	4566	6254	1.42%	0.232%
22	17.651	4387	4392	4399	rBV2	8182	11541	2.63%	0.429%
23	17.812	4433	4435	4439	rVB3	7533	5517	1.26%	0.205%
24	17.992	4480	4483	4487	rVB4	5982	6265	1.43%	0.233%
25	18.254	4550	4553	4558	rVB4	8462	9172	2.09%	0.341%
26	18.296	4561	4564	4569	rBV4	6999	6616	1.51%	0.246%
27	18.794	4694	4697	4702	rVB3	8211	6353	1.45%	0.236%

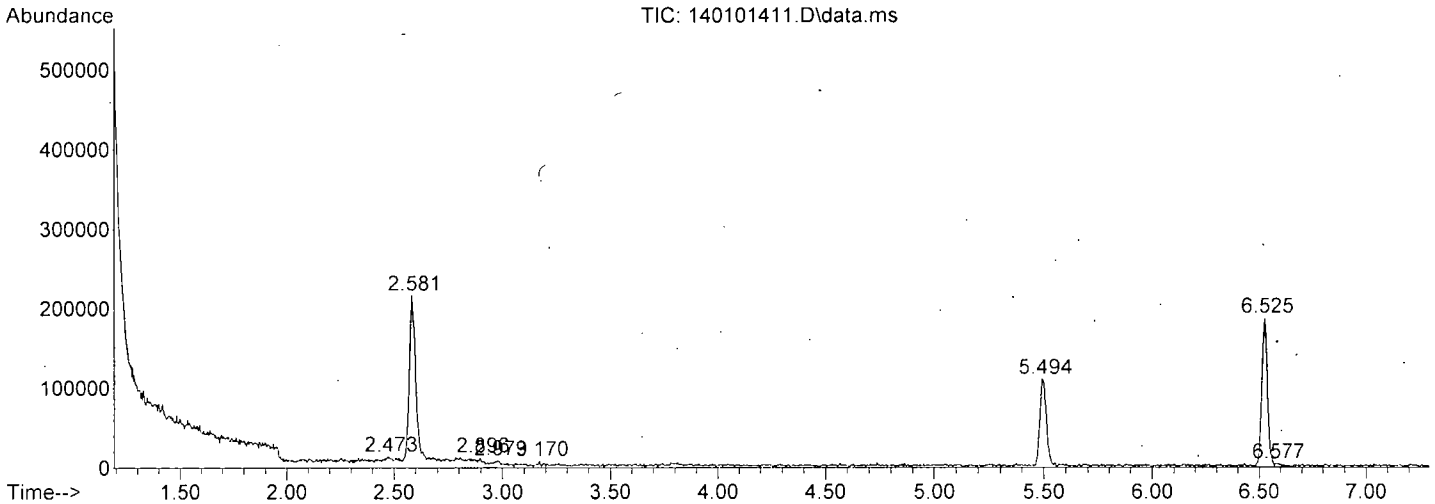
Sum of corrected areas: 2691485

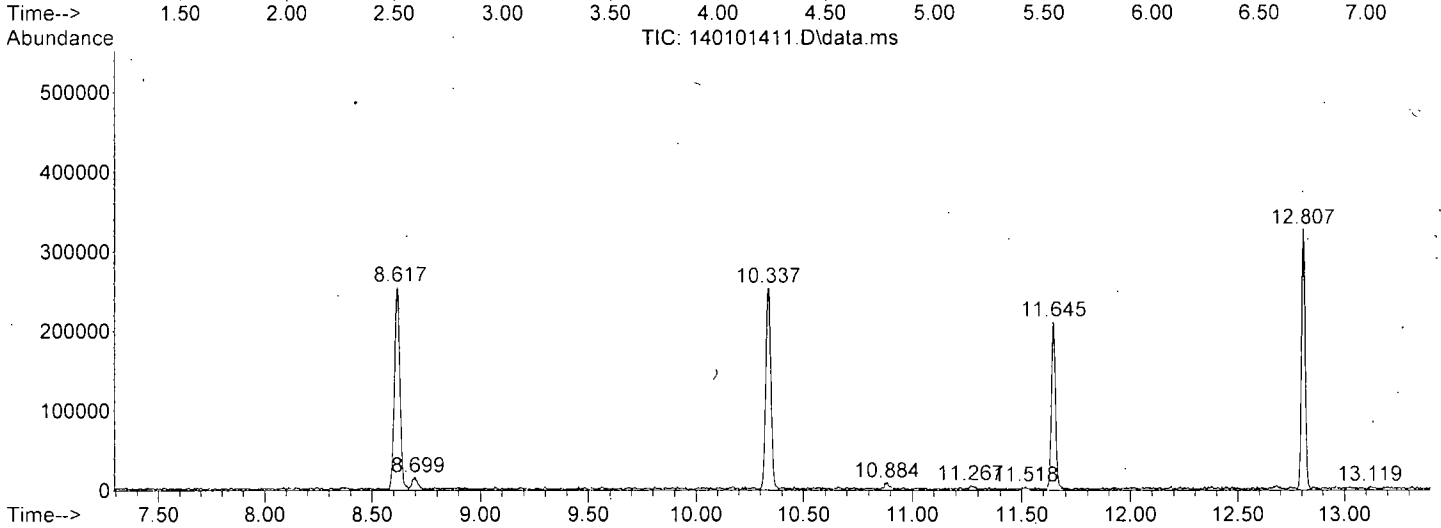
Freedom_0005792_0323

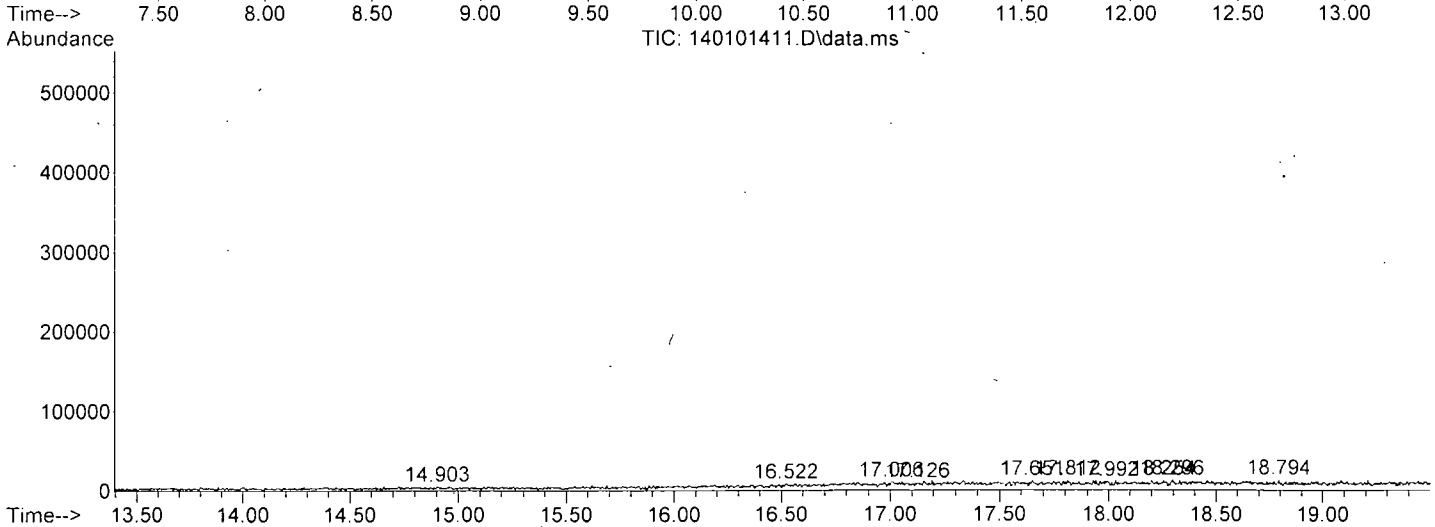
Data Path : D:\DATA\L02122014\
Data File : 140101411.D
Acq On : 12 Feb 2014 15:58
Operator : PZ PZ1-AG5975
Sample : 1401014-11
Misc : A, TB04
ALS Vial : 16 Sample Multiplier: 1

Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P







Data Path : D:\DATA\L02122014\
Data File : 140101411.D
Acq On : 12 Feb 2014 15:58
Operator : PZ PZ1-AG5975
Sample : 1401014-11
Misc : A, TB04
ALS Vial : 16 Sample Multiplier: 1

Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

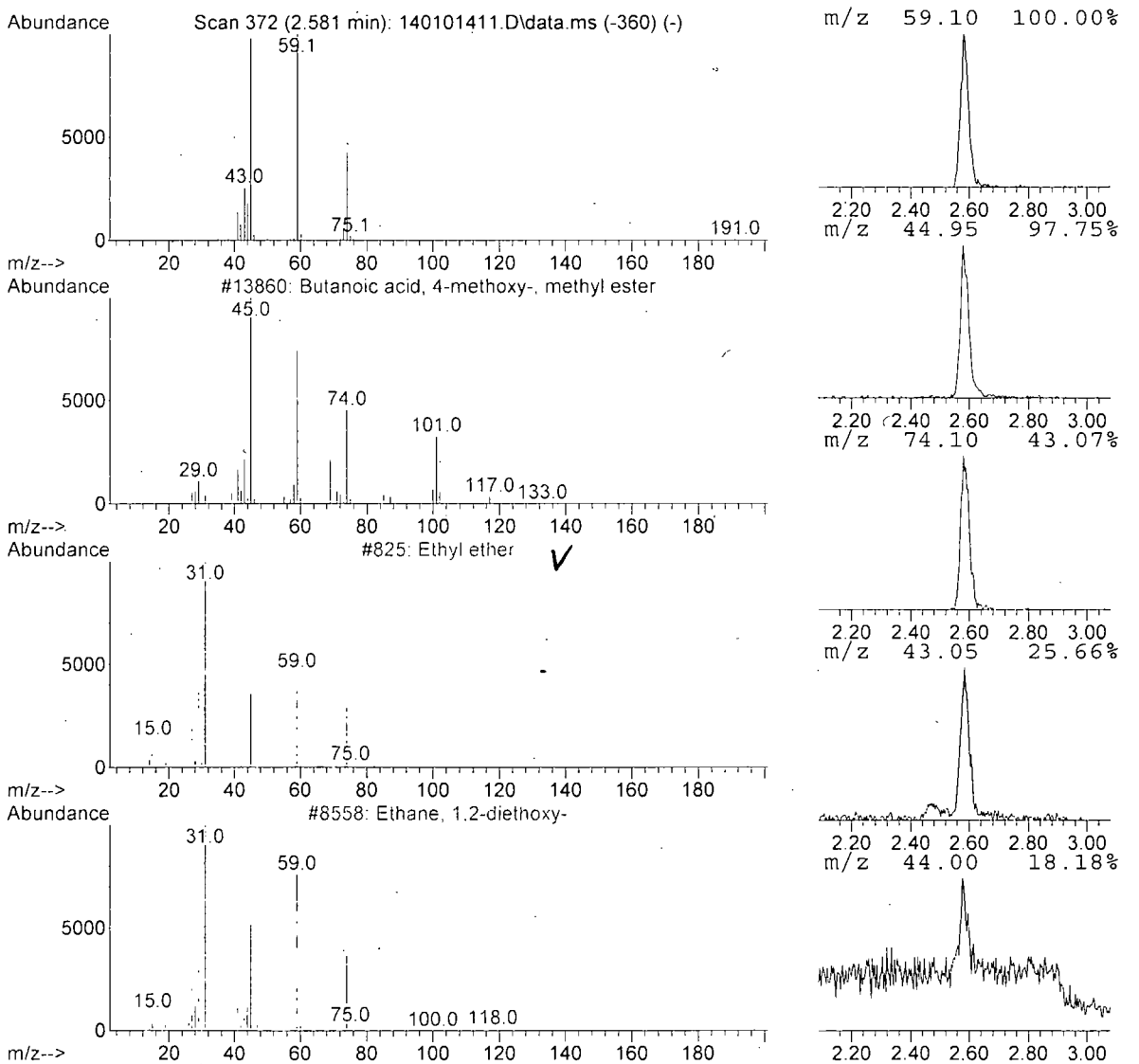
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

See printout

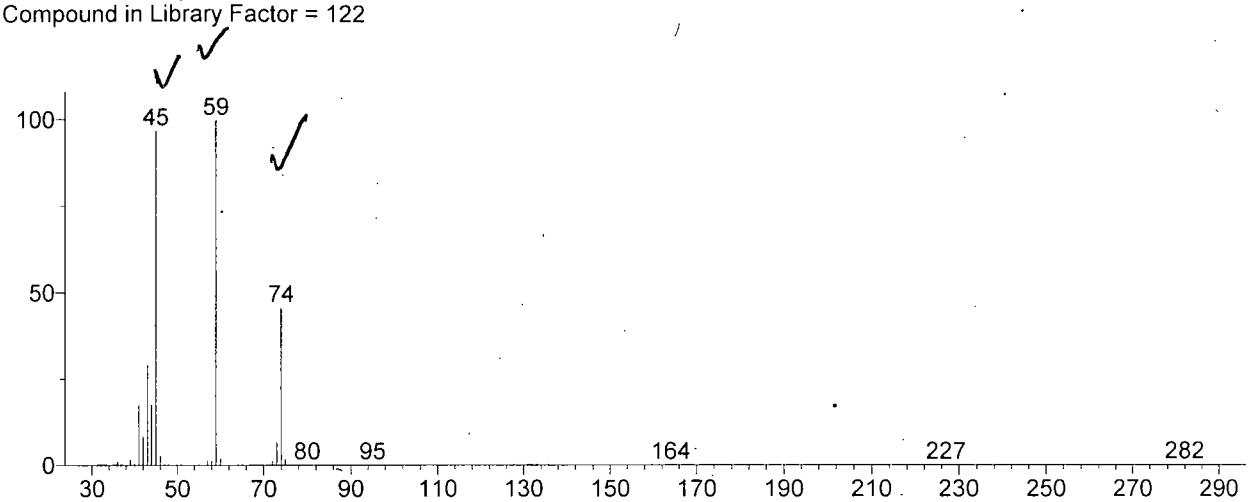
****
Peak Number 1 Butanoic acid, 4-methoxy-, ... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.581	6.13 ug/L	424822	1,4-DIFLUOROBENZENE	6.525

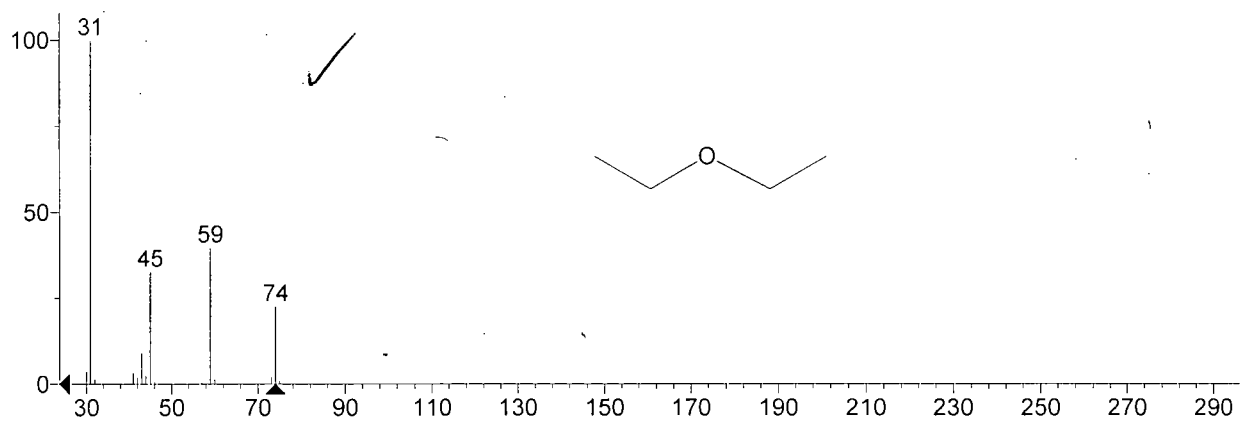
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanoic acid, 4-methoxy-, methy...	132	C6H12O3	029006-01-7	64
2	Ethyl ether	74	C4H10O	000060-29-7	59
3	Ethane, 1,2-diethoxy-	118	C6H14O2	000629-14-1	38
4	Ethene, (2-methoxyethoxy)-	102	C5H10O2	001663-35-0	38
5	2,5,8,11,14-Pentaoxahexadecan-16-ol	252	C11H24O6	023778-52-1	38



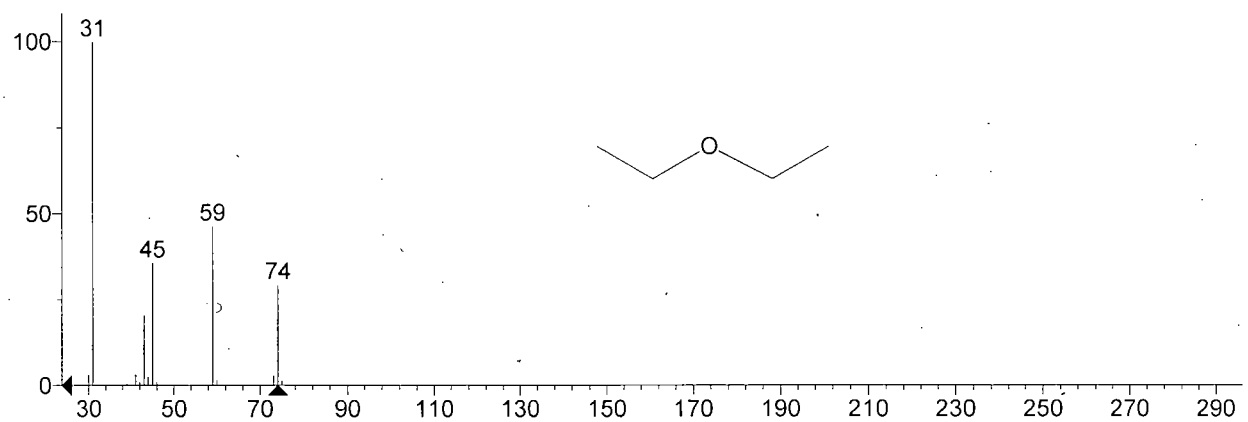
Unknown: Average of 2.555 to 2.619 min.: 140101411.D\data.ms
Compound in Library Factor = 122



Hit 1 : Ethyl ether
C4H10O; MF: 862; RMF: 866; Prob 73.5%; CAS: 60-29-7; Lib: replib; ID: 536.



Hit 2 : Ethyl ether
C4H10O; MF: 844; RMF: 851; Prob 73.5%; CAS: 60-29-7; Lib: replib; ID: 535.



Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L02122014\
Data File : 140101411.D
Acq On : 12 Feb 2014 15:58
Operator : PZ PZ1-AG5975
Sample : 1401014-11
Misc : A, TB04
ALS Vial : 16 Sample Multiplier: 1

Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Butanoic acid, ...	2.581	6.1	ug/L	424822	1	6.525	346659	5.0

Freedom_0005792_0327

Quantitation Report (QT Reviewed)

No TIC

Data Path : D:\DATA\L02122014\
Data File : 140101416.D
Acq On : 12 Feb 2014 16:26
Operator : PZ PZ1-AG5975
Sample : 1401014-16
Misc : A, FB02
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 12 17:08:51 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration

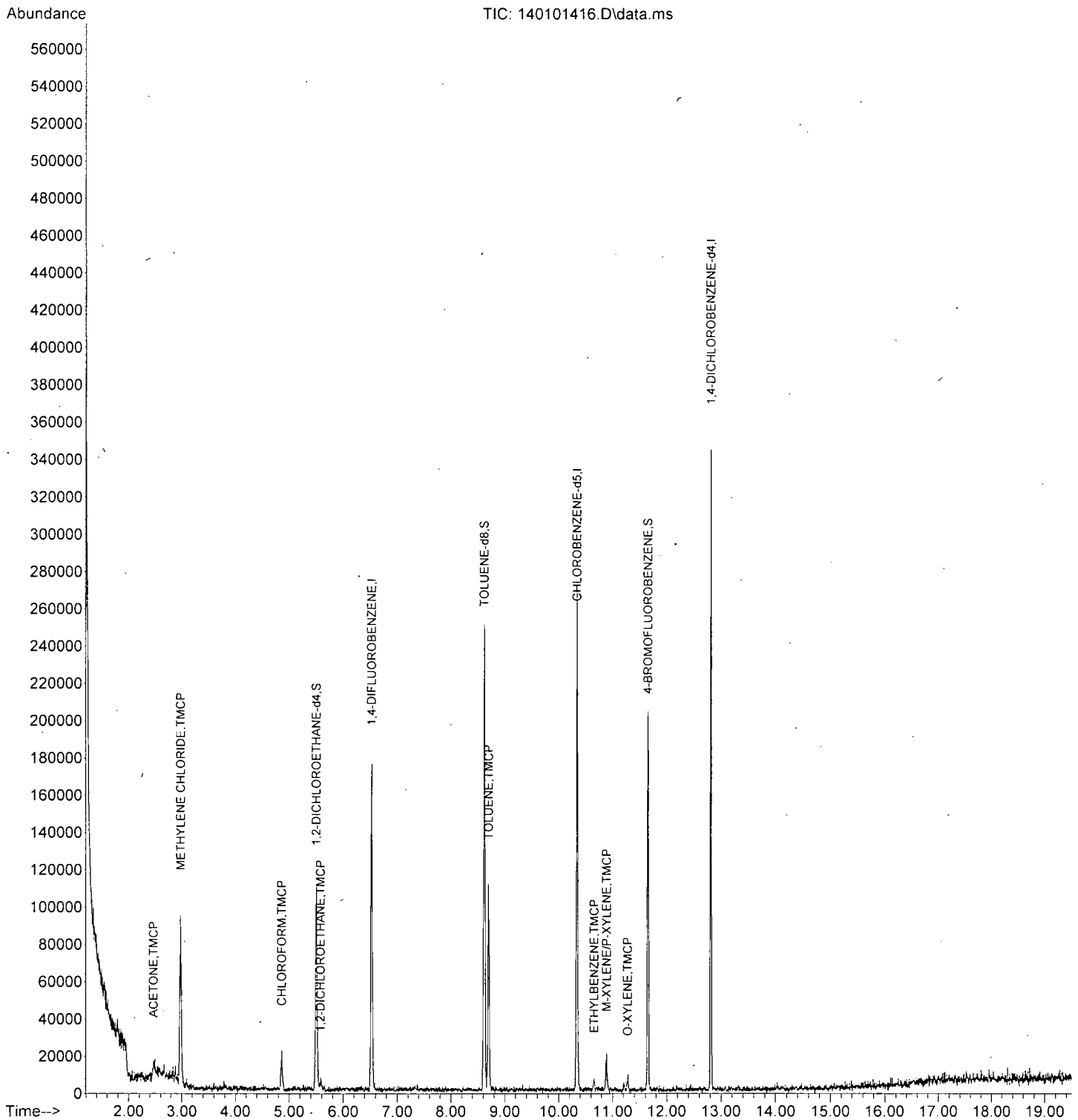
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.525	114	116363	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.334	117	110145	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	51213	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.494	65	84315	5.76	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	=	115.20%#	A
41) TOLUENE-d8	8.613	98	148390	4.81	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	=	96.20%	
59) 4-BROMOFLUOROBENZENE	11.642	95	54430	5.20	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	=	104.00%	
Target Compounds						Qvalue
8) ACETONE	2.461	43	29858m	6.84	ug/L	
10) METHYLENE CHLORIDE	2.975	84	33473	3.66	ug/L #	50
21) CHLOROFORM	4.860	83	14108	0.79	ug/L #	63
24) 1,2-DICHLOROETHANE	5.576	62	3654	0.19	ug/L #	74
42) TOLUENE	8.695	92	37263	1.67	ug/L	96
50) ETHYLBENZENE	10.660	91	4098	0.10	ug/L #	70
52) M-XYLENE/P-XYLENE	10.888	106	5117	0.33	ug/L	93
54) O-XYLENE	11.274	106	1491	0.09	ug/L #	69

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

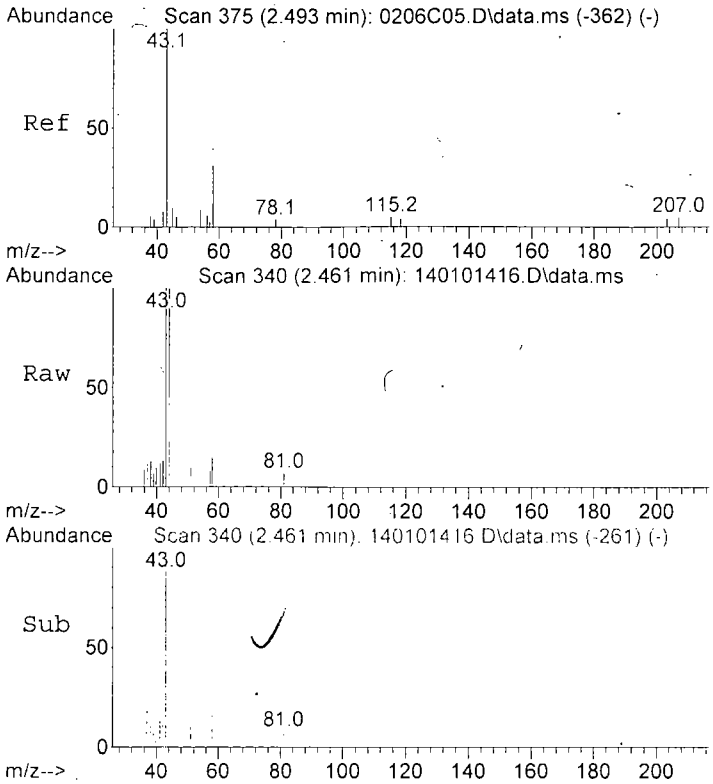
Freedom_0005792_0328

Data Path : D:\DATA\L02122014\
Data File : 140101416.D
Acq On : 12 Feb 2014 16:26
Operator : PZ PZ1-AG5975
Sample : 1401014-16
Misc : A, FB02
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 12 17:08:51 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration



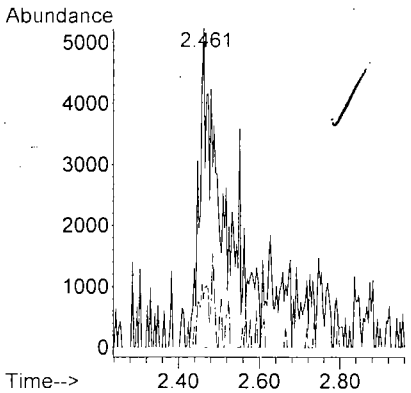
Freedom_0005792_0329

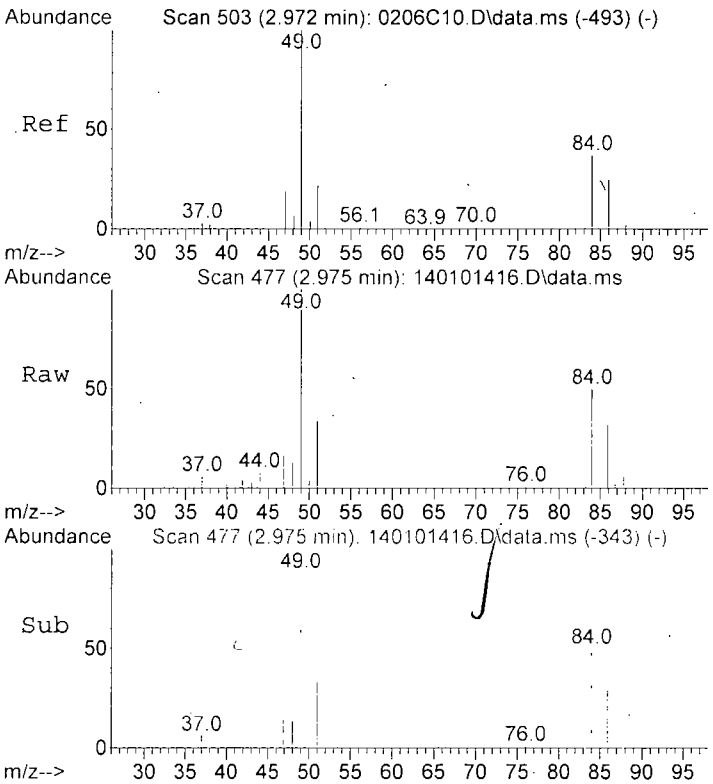


#8
ACETONE
Concen: 6.84 ug/L m
RT: 2.461 min Scan# 340
Delta R.T. -0.004 min
Lab File: 140101416.D
Acq: 12 Feb 2014 16:26

Tgt Ion: 43 Resp: 29858

Ion	Ratio	Lower	Upper
43	100		
58	5.8	22.5	33.7#

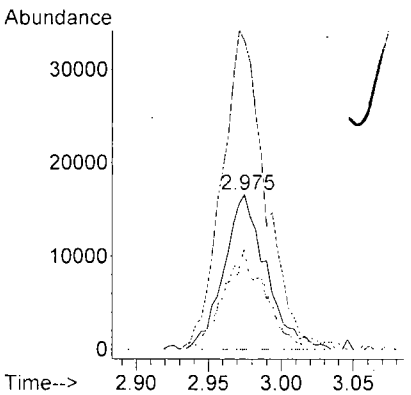




#10
METHYLENE CHLORIDE
Concen: 3.66 ug/L
RT: 2.975 min Scan# 477
Delta R.T. 0.004 min
Lab File: 140101416.D
Acq: 12 Feb 2014 16:26

Tgt Ion: 84 Resp: 33473

Ion	Ratio	Lower	Upper
84	100		
49	214.0	102.1	153.1#
51	63.5	31.0	46.6#
86	64.0	49.2	73.8

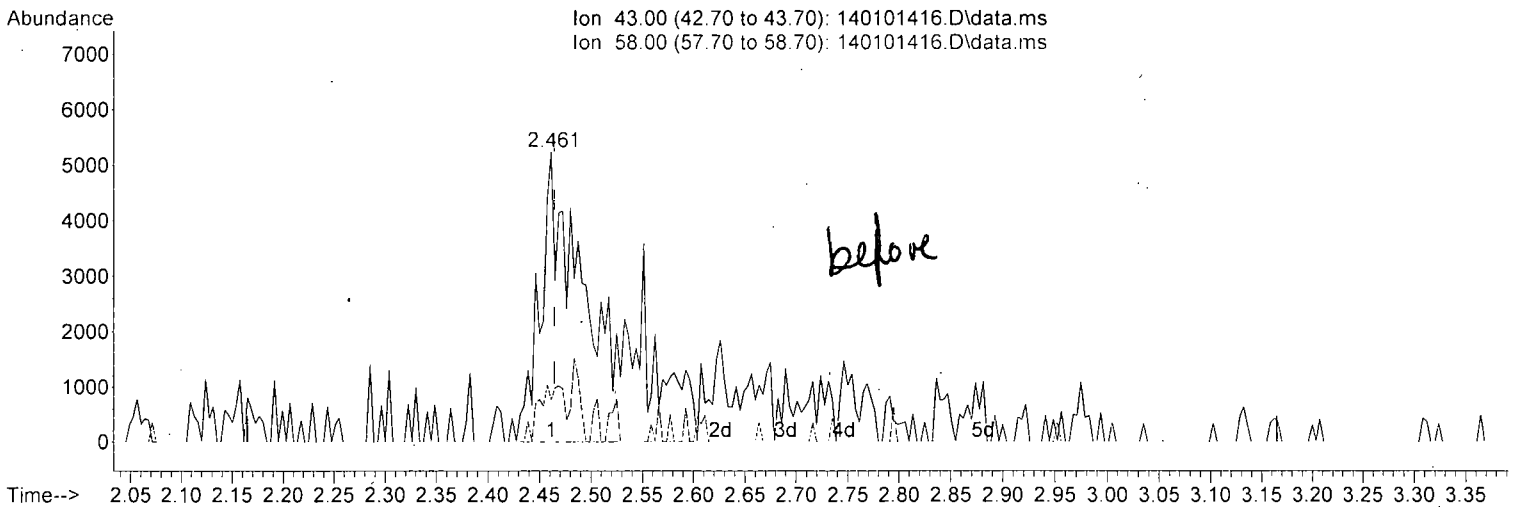


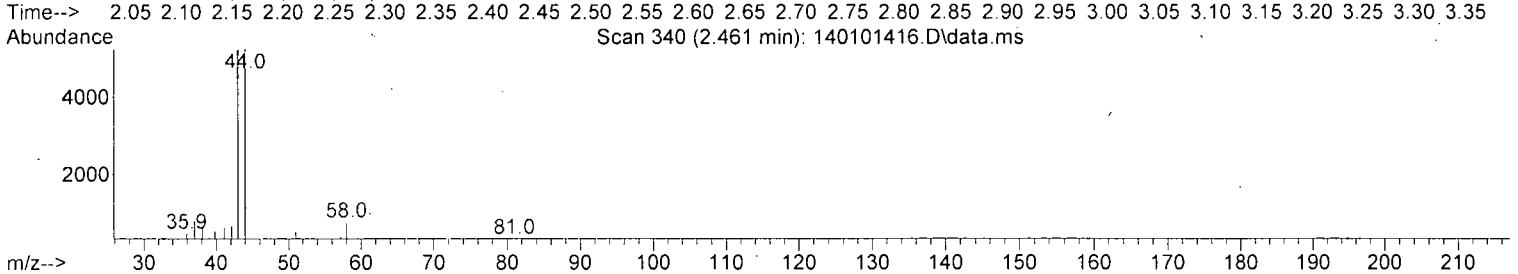
Freedom_0005792_0330

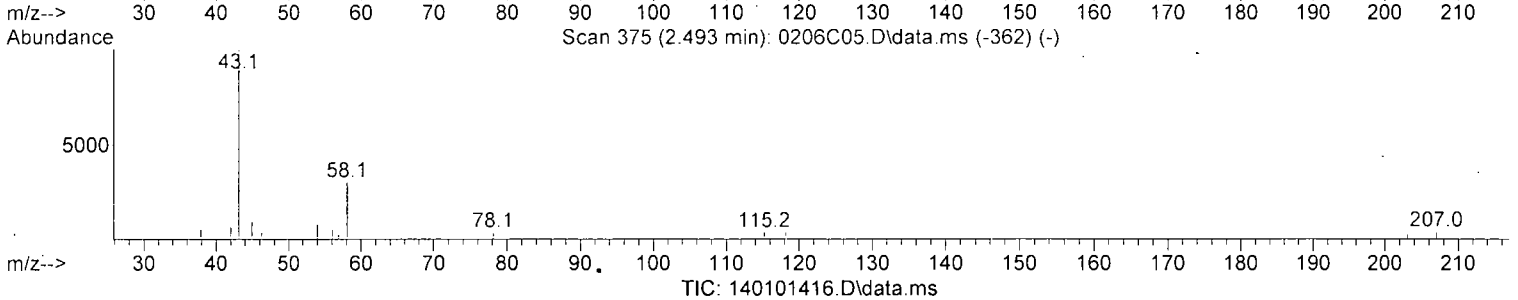
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 140101416.D
Acq On : 12 Feb 2014 16:26
Operator : PZ PZ1-AG5975
Sample : 1401014-16
Misc : A, FB02
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 12 17:08:03 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







(8) ACETONE (TMCP)

2.461min (-0.004) 4.80 ug/L

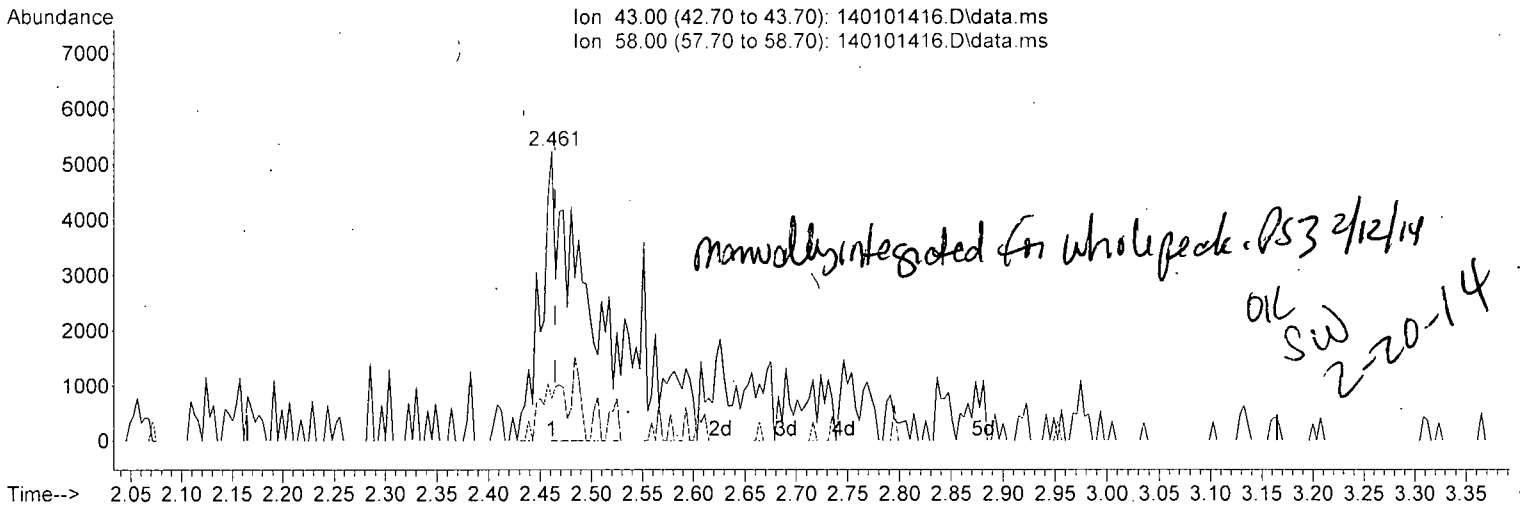
response 20945

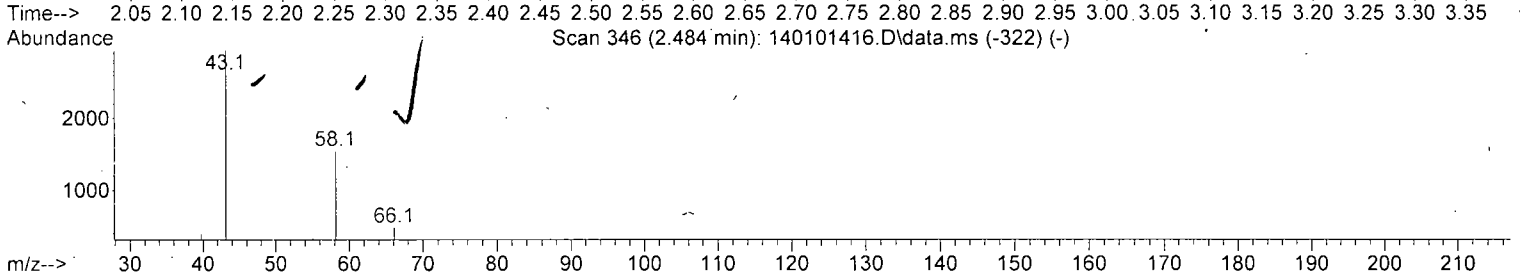
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	8.23#
0.00	0.00	0.00
0.00	0.00	0.00

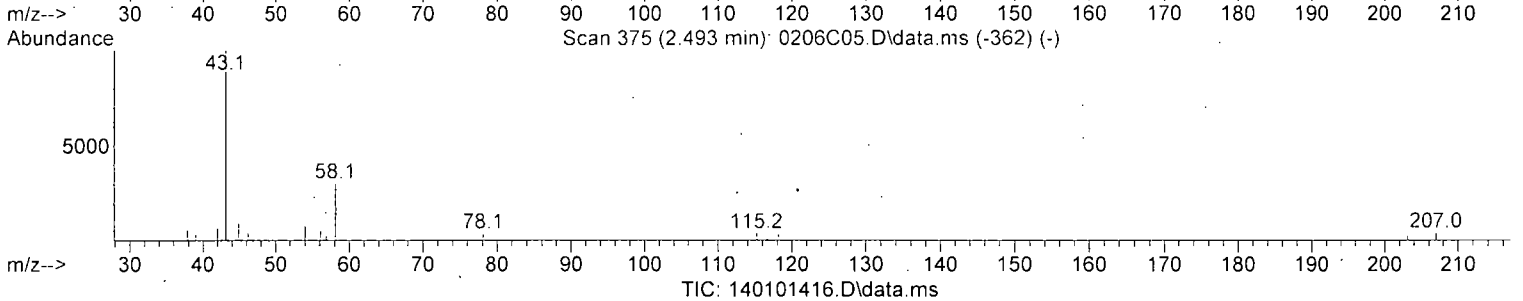
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 140101416.D
Acq On : 12 Feb 2014 16:26
Operator : PZ PZ1-AG5975
Sample : 1401014-16
Misc : A, FB02
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 12 17:08:03 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration.







TIC: 140101416.D\data.ms

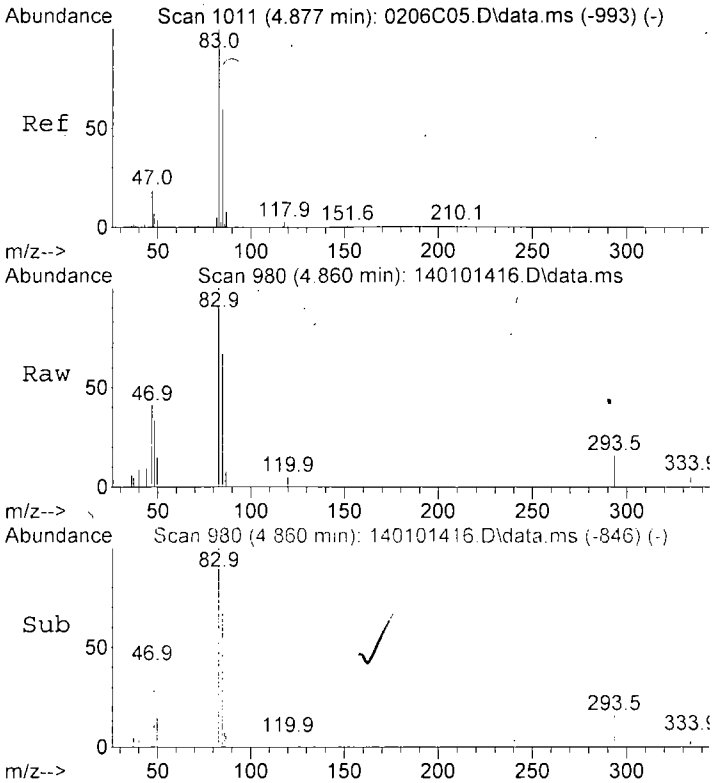
(8) ACETONE (TMCP)

2.461min (-0.004) 6.84 ug/L m

response 29858

Ion	Exp%	Act%
43.00	100	100
58.00	28.10	5.77#
0.00	0.00	0.00
0.00	0.00	0.00

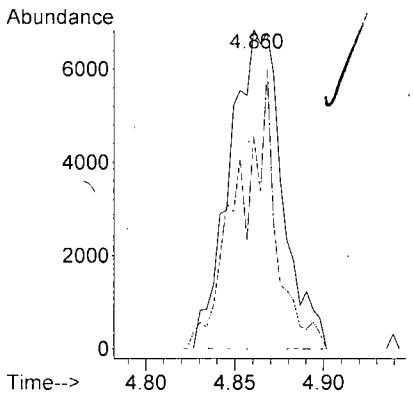
Freedom_0005792_0332

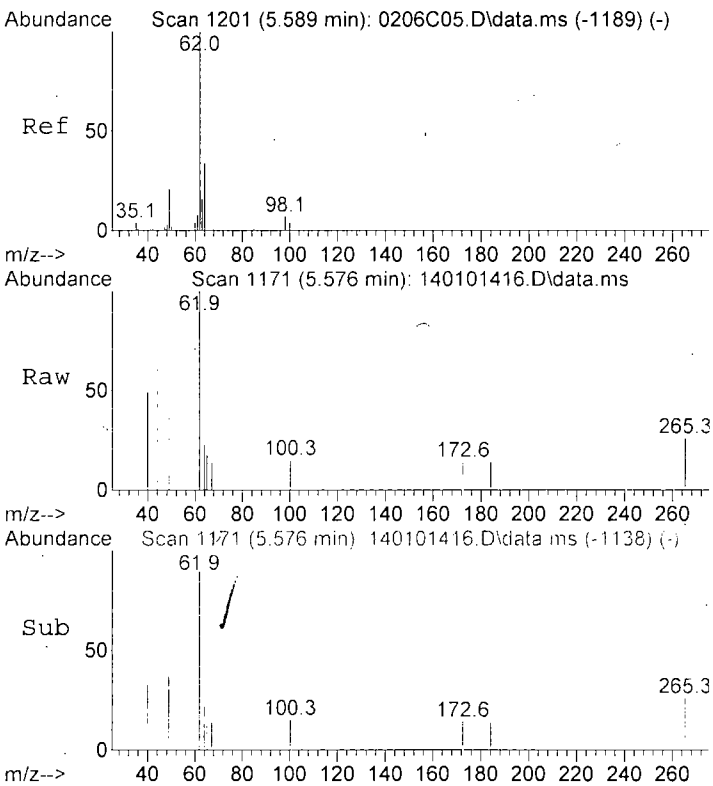


#21
CHLOROFORM
Concen: 0.79 ug/L
RT: 4.860 min Scan# 980
Delta R.T. 0.004 min
Lab File: 140101416.D
Acq: 12 Feb 2014 16:26

Tgt Ion: 83 Resp: 14108

Ion	Ratio	Lower	Upper
83	100		
85	35.3	51.3	76.9#

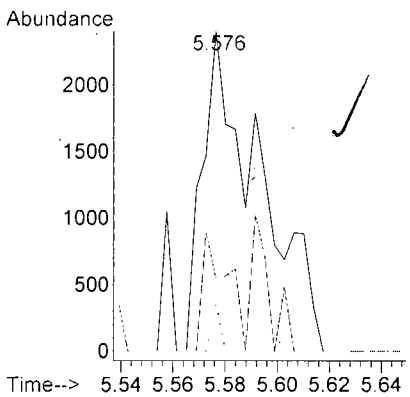




#24
1,2-DICHLOROETHANE
Concen: 0.19 ug/L
RT: 5.576 min Scan# 1171
Delta R.T. -0.007 min
Lab File: 140101416.D
Acq: 12 Feb 2014 16:26

Tgt Ion: 62 Resp: 3654

Ion	Ratio	Lower	Upper
62	100		
64	16.2	25.4	38.2#
98	0.0	6.1	9.1#
100	0.0	3.8	5.8#

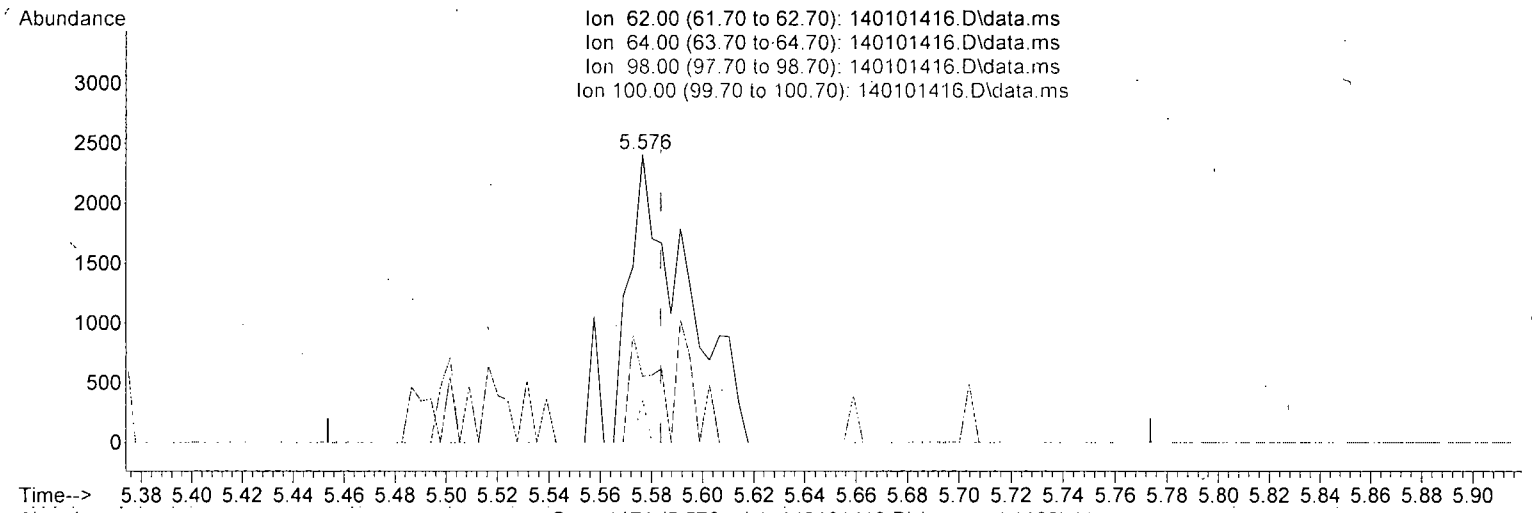


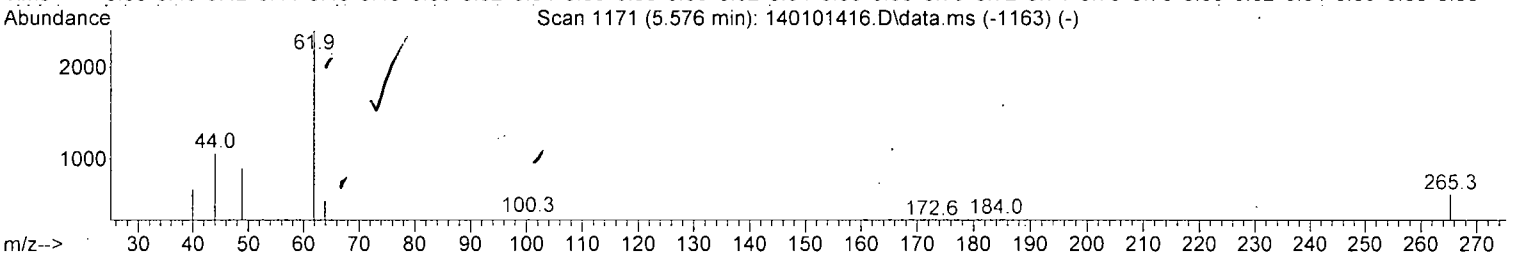
Freedom_0005792_0333

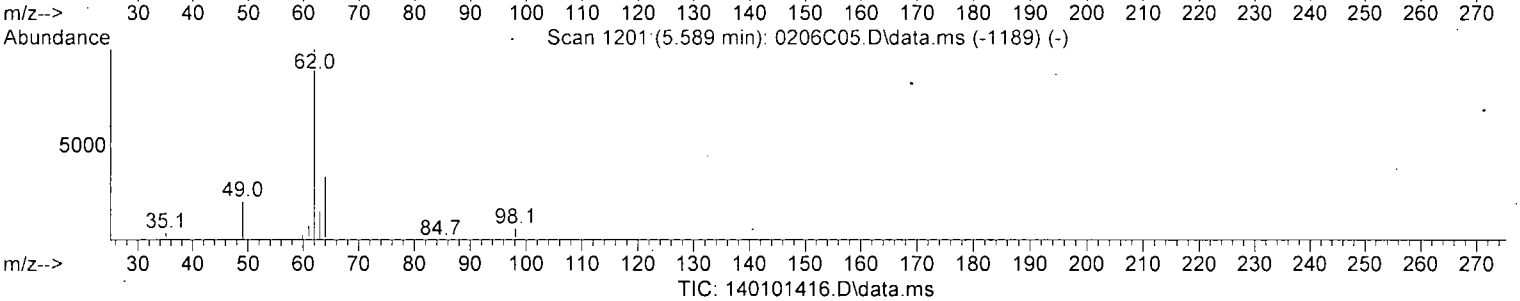
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 140101416.D
Acq On : 12 Feb 2014 16:26
Operator : PZ PZ1-AG5975
Sample : 1401014-16
Misc : A, FB02
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 12 17:08:03 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







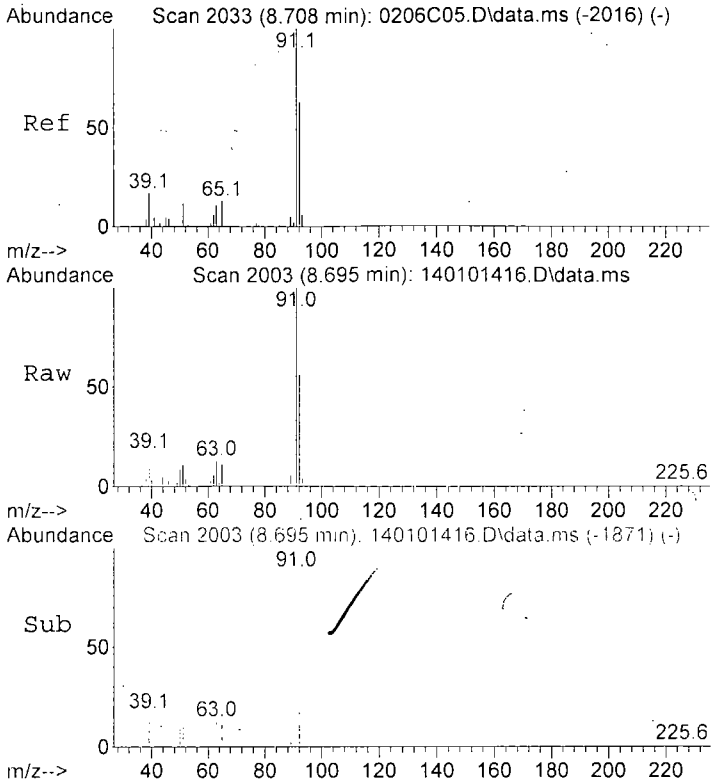
TIC: 140101416.D\data.ms

(24) 1,2-DICHLOROETHANE (TMCP)

5.576min (-0.007) 0.19 ug/L

response 3654

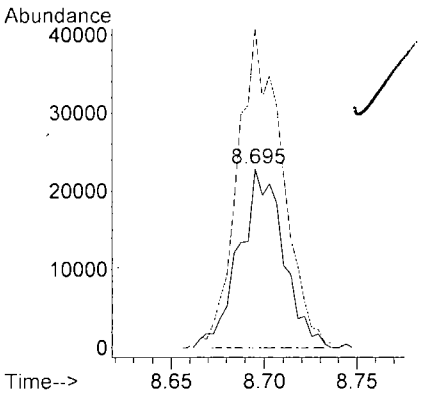
Ion	Exp%	Act%
62.00	100	100
64.00	31.80	16.17#
98.00	7.60	0.00#
100.00	4.80	0.00#

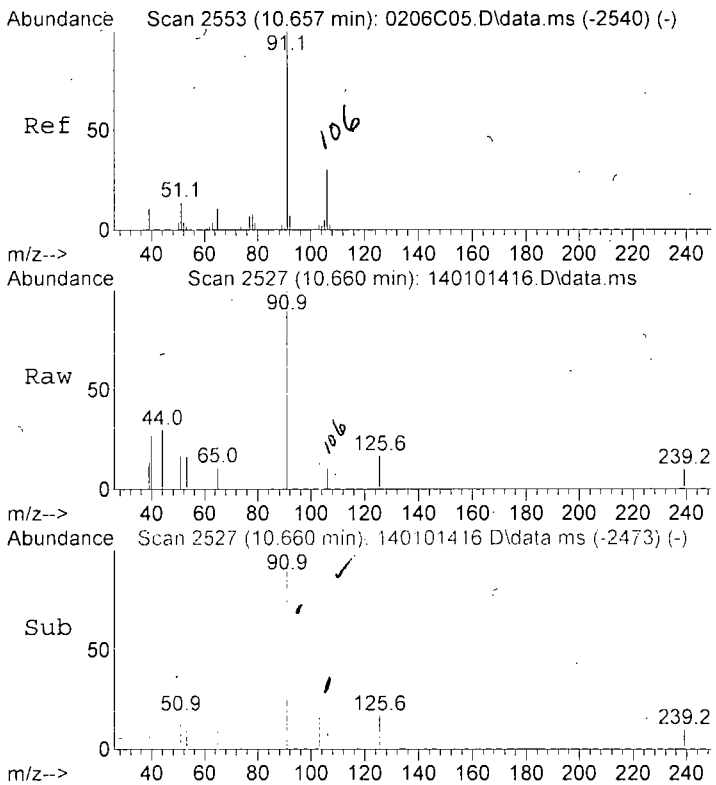


#42
TOLUENE
Concen: 1.67 ug/L
RT: 8.695 min Scan# 2003
Delta R.T. -0.004 min
Lab File: 140101416.D
Acq: 12 Feb 2014 16:26

Tgt Ion: 92 Resp: 37263

Ion	Ratio	Lower	Upper
92	100		
91	180.1	139.3	208.9

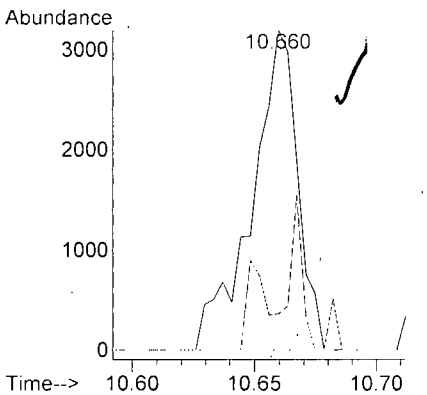




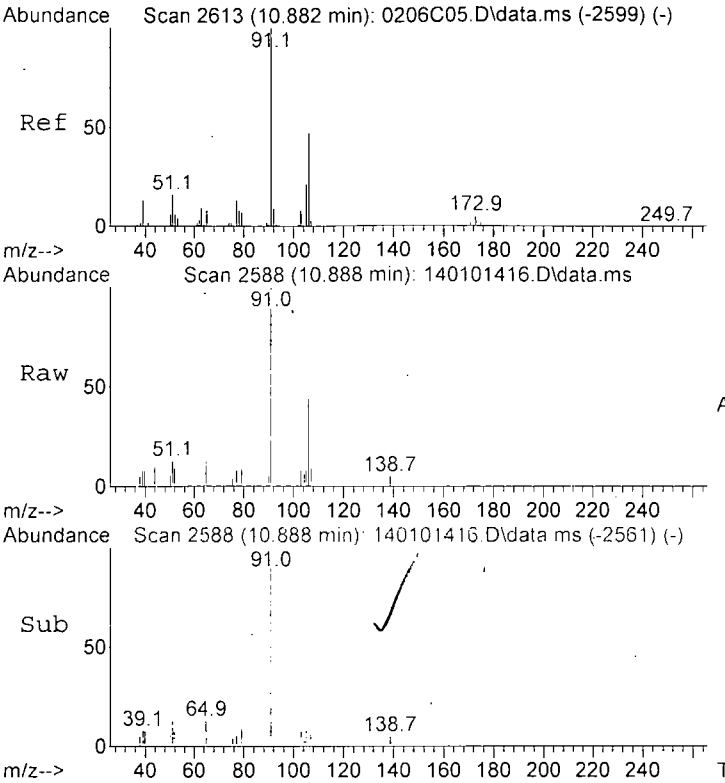
#50
ETHYLBENZENE
Concen: 0.10 ug/L
RT: 10.660 min Scan# 2527
Delta R.T. 0.004 min
Lab File: 140101416.D
Acq: 12 Feb 2014 16:26

Tgt Ion: 91 Resp: 4098

Ion	Ratio	Lower	Upper
91	100		
106	14.6	25.0	37.4#



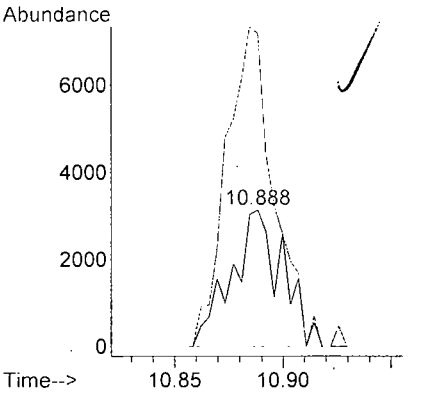
Freedom_0005792_0335

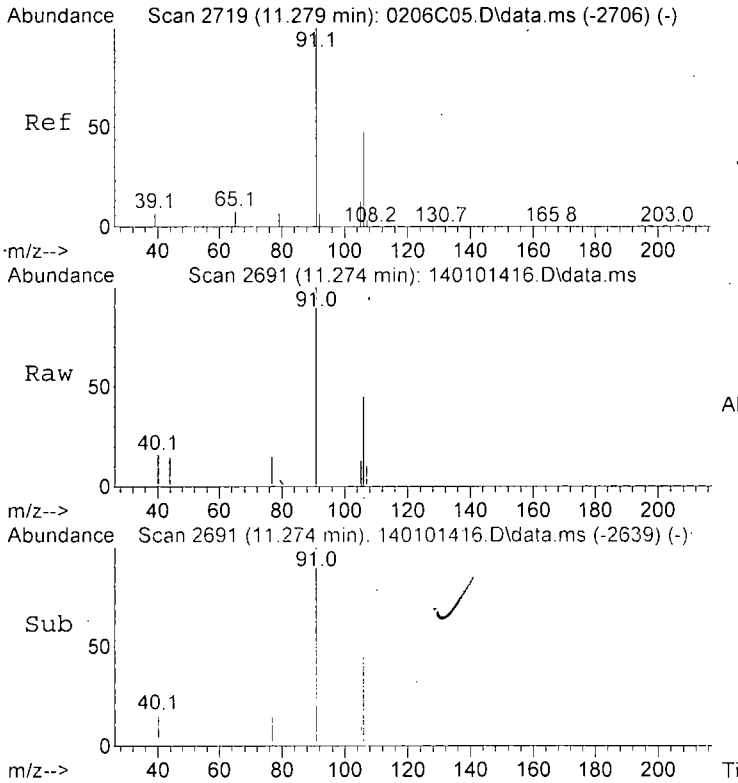


#52
M-XYLENE/P-XYLENE
Concen: 0.33 ug/L
RT: 10.888 min Scan# 2588
Delta R.T. 0.000 min
Lab File: 140101416.D
Acq: 12 Feb 2014 16:26

Tgt Ion:106 Resp: 5117

Ion	Ratio	Lower	Upper
106	100		
91	217.4	164.8	247.2

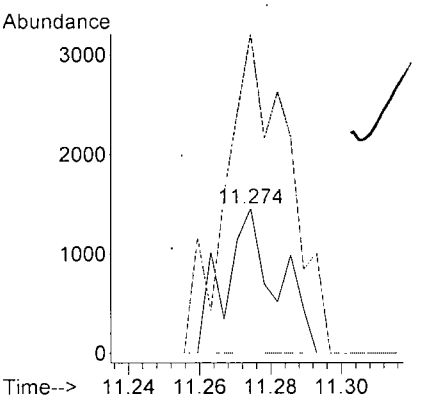




#54
O-XYLENE
Concen: 0.09 ug/L
RT: 11.274 min Scan# 2691
Delta R.T. -0.004 min
Lab File: 140101416.D
Acq: 12 Feb 2014 16:26

Tgt Ion:106 Resp: 1491

Ion	Ratio	Lower	Upper
106	100		
91	266.4	173.3	259.9#

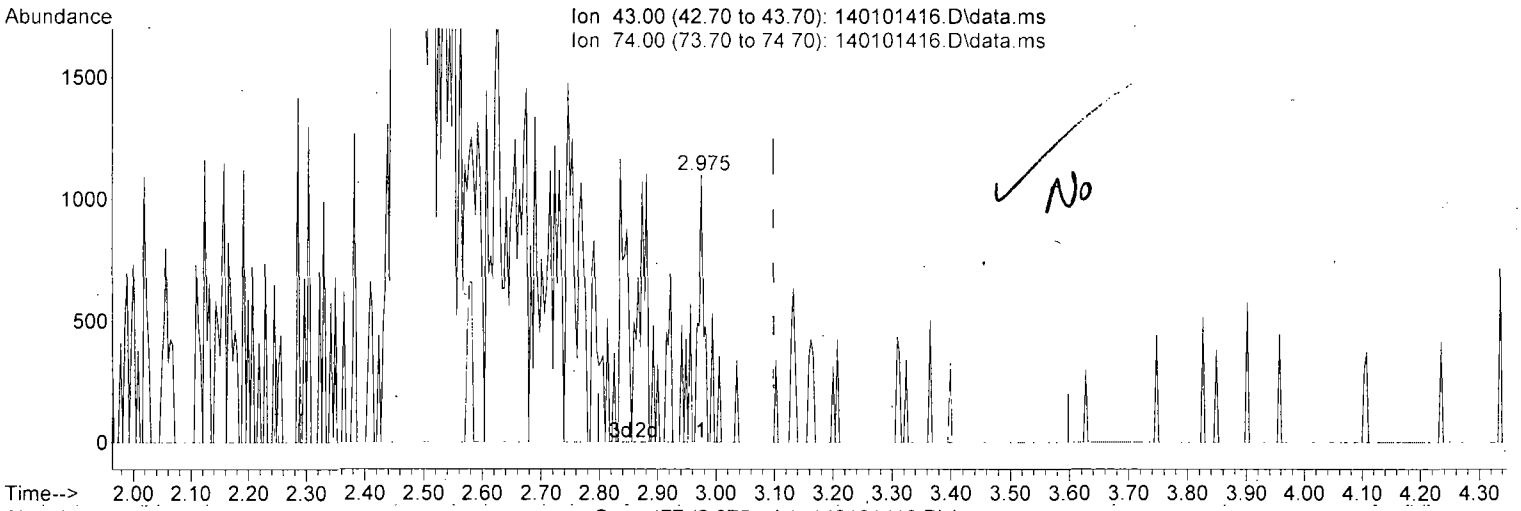


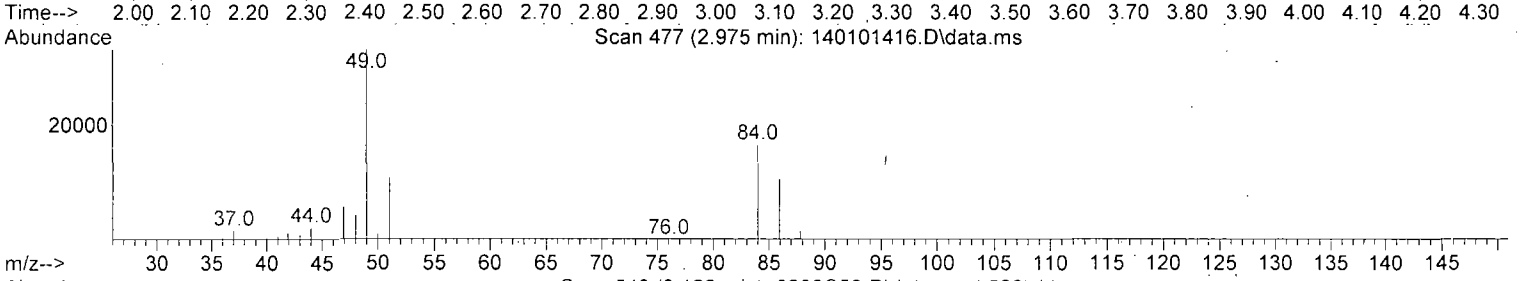
Freedom_0005792_0336

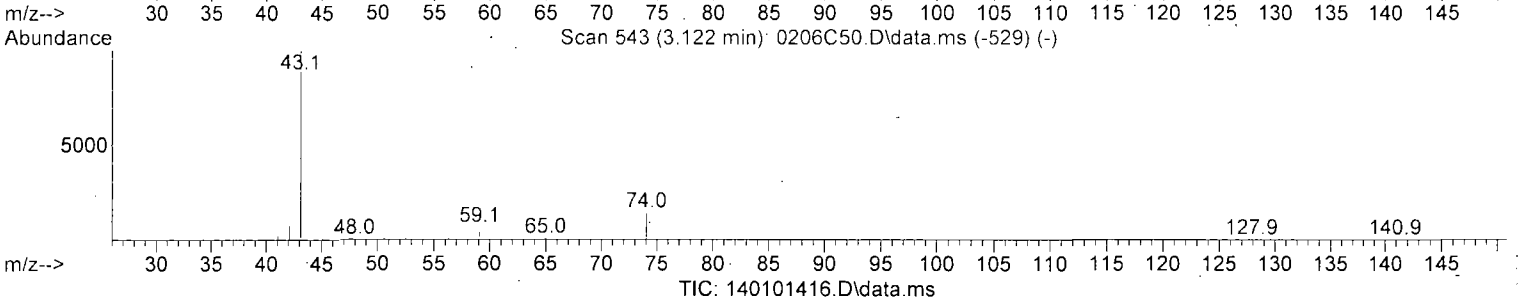
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 140101416.D
Acq On : 12 Feb 2014 16:26
Operator : PZ PZ1-AG5975
Sample : 1401014-16
Misc : A, FB02
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 12 17:08:03 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







TIC: 140101416.D\data.ms

(13) METHYL ACETATE (TMCP)

2.975min (-0.124) 0.07 ug/L

response 671

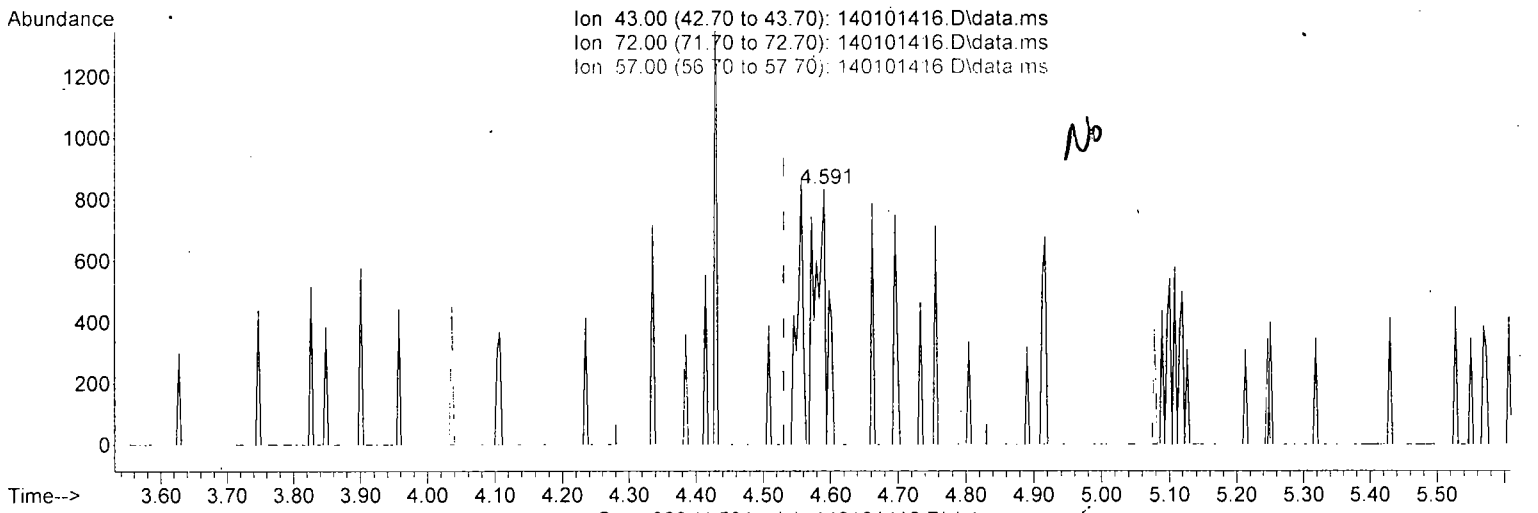
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

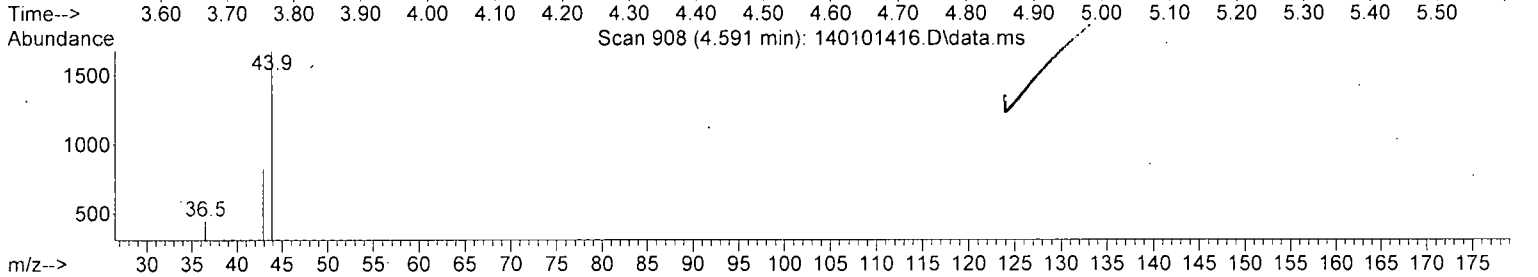
Freedom_0005792_0337

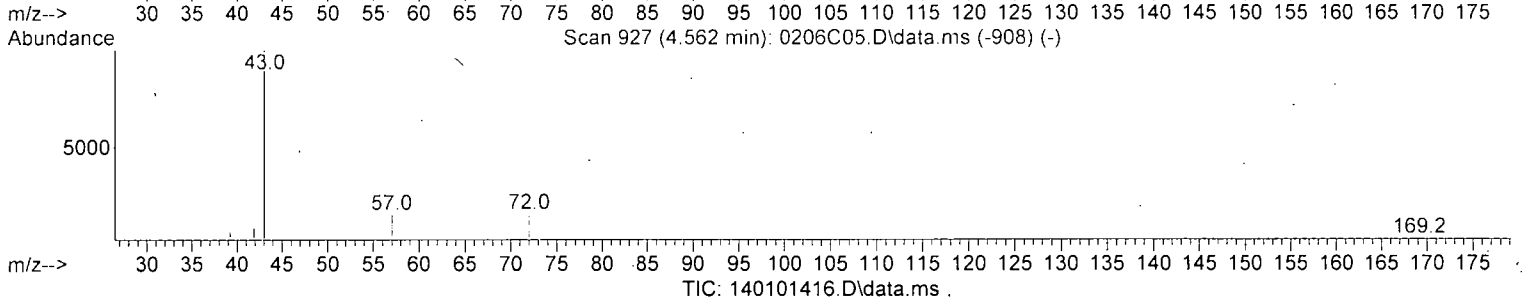
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 140101416.D
Acq On : 12 Feb 2014 16:26
Operator : PZ PZ1-AG5975
Sample : 1401014-16
Misc : A, FB02
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 12 17:08:03 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 13:22:55 2014
Response via : Initial Calibration







(18) 2-BUTANONE (TMCP)

4.591min (+0.060) 0.20 ug/L

response 1036

Ion	Exp%	Act%
43.00	100	100
72.00	18.60	0.00#
57.00	7.60	0.00#
0.00	0.00	0.00

Freedom_0005792_0338

LSC Area Percent Report

Data Path : D:\DATA\L02122014\
Data File : 140101416.D
Acq On : 12 Feb 2014 16:26
Operator : PZ PZ1-AG5975
Sample : 1401014-16
Misc : A, FB02
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: NOISY.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L02122014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

Signal : TIC: 140101416.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.862	179	180	184	rBV	10067	6694	1.51%	0.242%
2	2.128	249	251	255	rVB	5248	4766	1.08%	0.172%
3	2.386	317	320	325	rVB2	4436	5195	1.17%	0.188%
4	2.469	330	342	344	rBV5	11417	21829	4.93%	0.790%
5	2.836	437	440	444	rVB3	8745	6936	1.57%	0.251%
6	2.975	466	477	497	rVB2	93068	203134	45.85%	7.351%
7	4.868	968	982	992	rBV4	21870	41762	9.43%	1.511%
8	5.494	1140	1149	1163	rBV3	106840	216509	48.87%	7.835%
9	6.529	1413	1425	1437	rBV3	176023	337738	76.24%	12.223%
10	8.617	1967	1982	1994	rBV2	251095	442993	100.00%	16.032%
11	8.695	1994	2003	2017	rVB2	111134	190410	42.98%	6.891%
12	10.337	2430	2441	2455	rVB	268921	419955	94.80%	15.198%
13	10.660	2517	2527	2532	rVB4	7472	11482	2.59%	0.416%
14	10.885	2577	2587	2602	rVB4	21433	41520	9.37%	1.503%
15	11.278	2683	2692	2700	rVB4	10042	15819	3.57%	0.572%
16	11.649	2781	2791	2799	rBV2	204508	283317	63.96%	10.253%
17	12.808	3087	3100	3109	rBV2	344518	404278	91.26%	14.631%
18	14.989	3674	3682	3686	rBV2	3838	6201	1.40%	0.224%
19	15.743	3879	3883	3887	rVB2	4878	4808	1.09%	0.174%
20	16.815	4166	4169	4173	rVB2	6608	5467	1.23%	0.198%
21	16.871	4179	4184	4187	rVB4	3907	5354	1.21%	0.194%
22	16.987	4213	4215	4219	rBV	5001	4994	1.13%	0.181%
23	17.104	4243	4246	4250	rBV4	6123	4775	1.08%	0.173%
24	17.527	4357	4359	4369	rVB5	6765	8736	1.97%	0.316%
25	17.591	4371	4376	4383	rBV3	5375	7646	1.73%	0.277%
26	17.954	4468	4473	4478	rVB3	7042	6436	1.45%	0.233%
27	18.303	4563	4566	4570	rBV4	9400	6281	1.42%	0.227%
28	18.532	4625	4627	4633	rBV3	6031	7254	1.64%	0.263%
29	18.596	4641	4644	4649	rBV3	6466	4795	1.08%	0.174%
30	18.685	4665	4668	4671	rVB4	7409	4701	1.06%	0.170%
31	19.023	4754	4758	4761	rBV2	5181	4835	1.09%	0.175%
32	19.094	4772	4777	4781	rVB2	5463	5749	1.30%	0.208%
33	19.132	4785	4787	4794	rVB4	6068	6691	1.51%	0.242%
34	19.300	4829	4832	4837	rVB4	6554	6408	1.45%	0.232%
35	19.330	4837	4840	4847	rBV3	7046	7778	1.76%	0.281%

Freedom_0005792_0339

Data Path : D:\DATA\L02122014\
Data File : 140101416.D
Acq On : 12 Feb 2014 16:26
Operator : PZ PZ1-AG5975
Sample : 1401014-16
Misc : A, FB02
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: NOISY.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 95
Stop Thrs : 0 Peak Location: TOP

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

Method : D:\METHODS\L02122014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

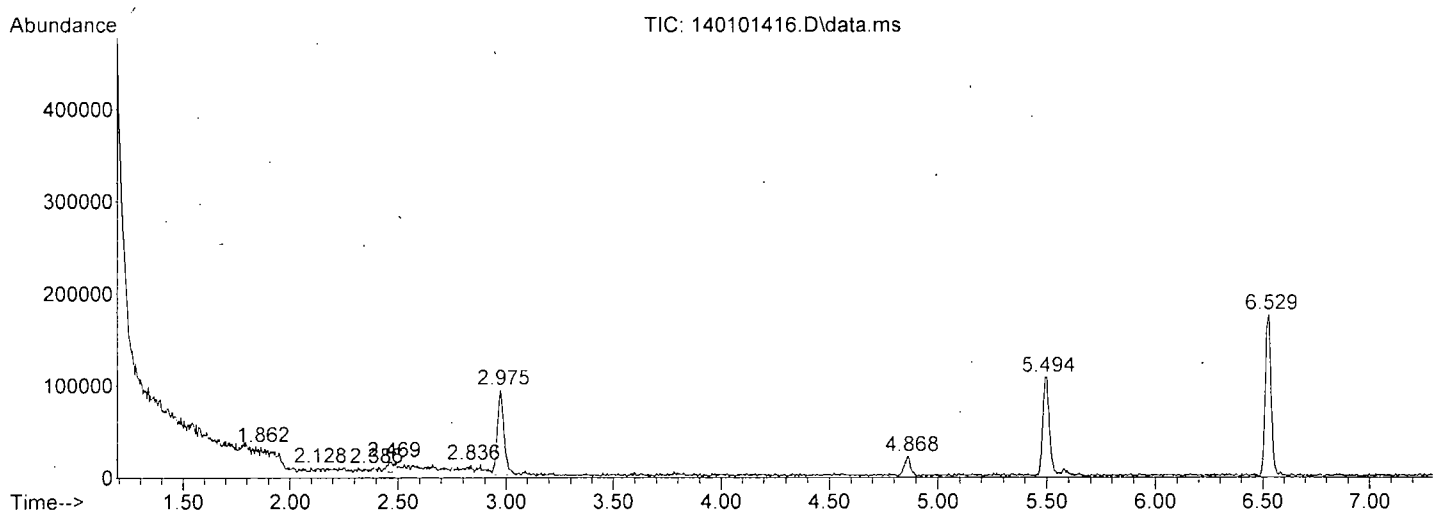
Sum of corrected areas: 2763246

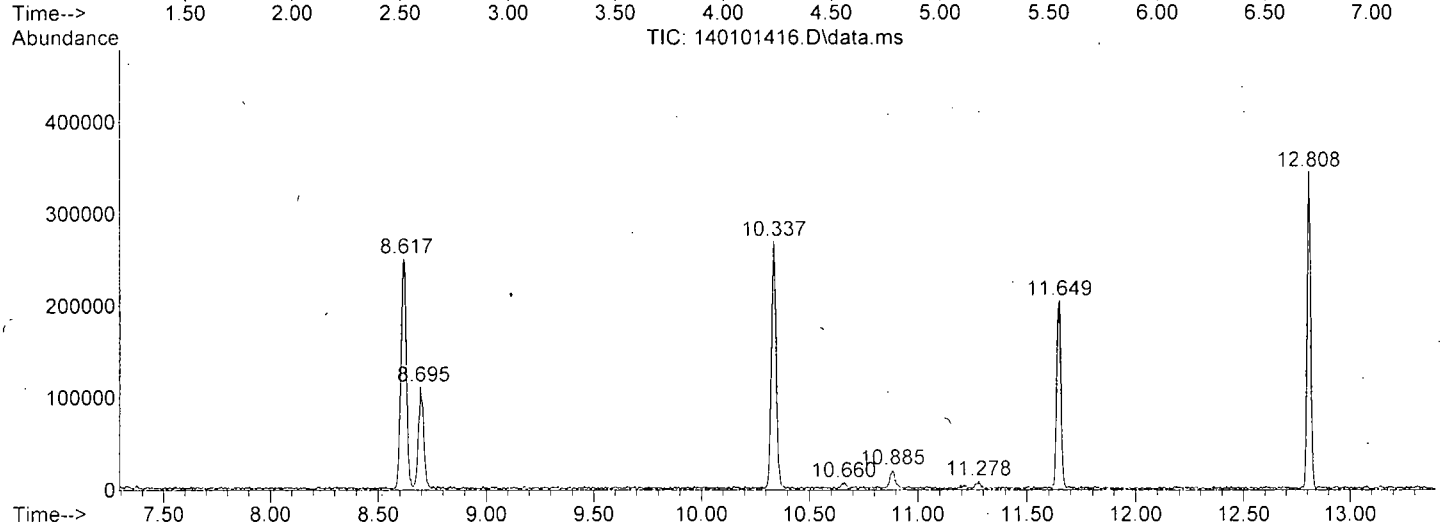
Freedom_0005792_0340

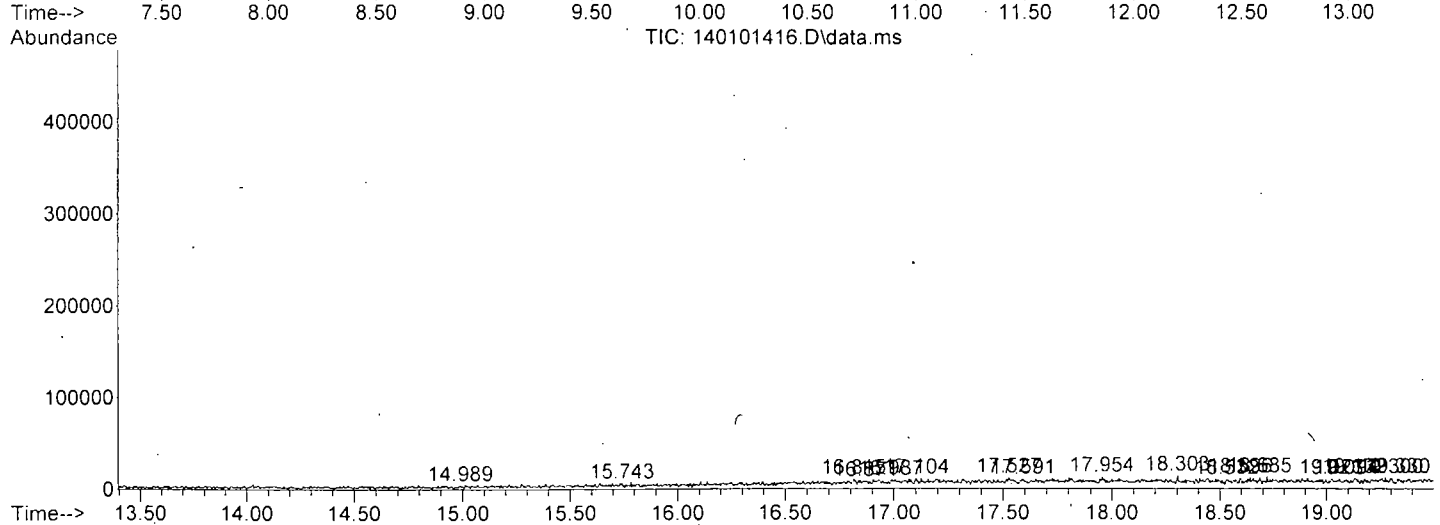
Data Path : D:\DATA\L02122014\
Data File : 140101416.D
Acq On : 12 Feb 2014 16:26
Operator : PZ PZ1-AG5975
Sample : 1401014-16
Misc : A, FB02
ALS Vial : 17 Sample Multiplier: 1

Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : D:\DATA\L02122014\\
Data File : 140101416.D
Acq On : 12 Feb 2014 16:266
Operator : PZ PZ1-AG59755
Sample : 1401014-166
Misc : A, FB022
ALS Vial : 17 Sample Multiplier: 11

Quant Method : D:\METHODS\L02122014.MM
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Methodd

TIC Library : C:\Database\NIST05a.LL
TIC Integration Parameters: LSCINT.PP

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

No Library Search Compounds Detected
****

Freedom_0005792_0342

Case File Contents

Volatile Organic Compounds

VOCs by CLP Equivalent (trace)

WO 1401014

West Virginia Chemical Leak

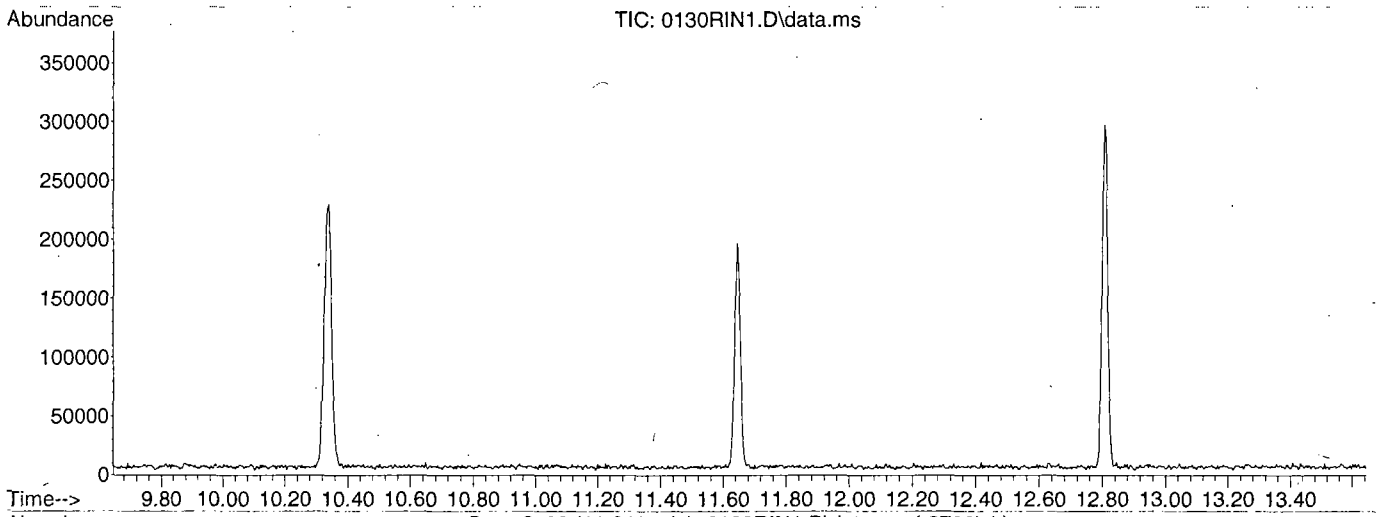
DAS R34317

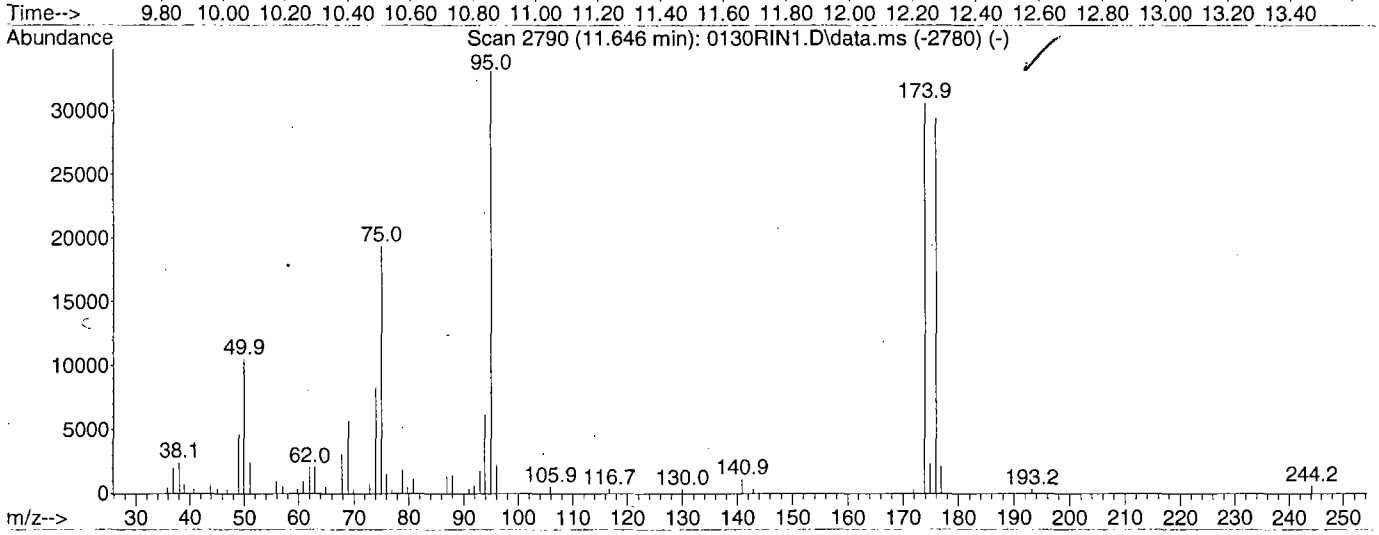
Calibration Data

Data Path : D:\DATA\L01302014\
Data File : 0130RIN1.D
Acq On : 30 Jan 2014 8:06
Operator : PZ PZ1-AG5975
Sample : Blank
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: NORMAL.P

Method : D:\METHODS\L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Tue Jan 14 14:18:43 2014





Spectrum Information: Scan 2790

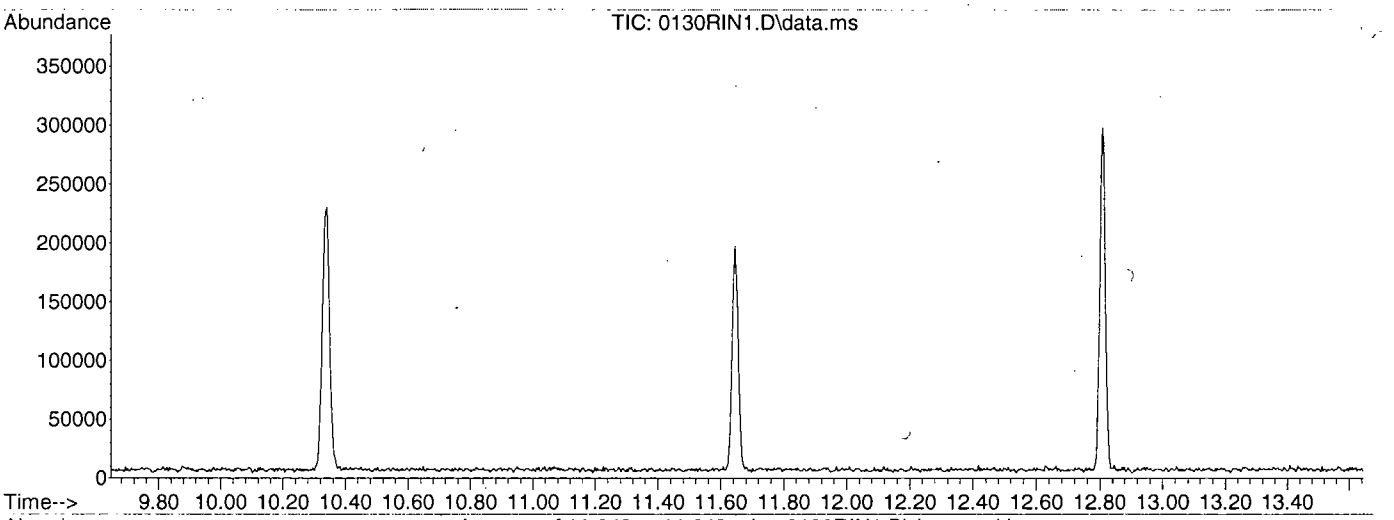
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	31.9	10552	PASS
75	95	30	60	58.5	19384	PASS
95	95	100	100	100.0	33112	PASS
96	95	5	9	6.9	2294	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	92.6	30656	PASS
175	174	5	9	7.5	2300	PASS
176	174	95	101	96.0	29432	PASS
177	176	5	9	7.2	2110	PASS

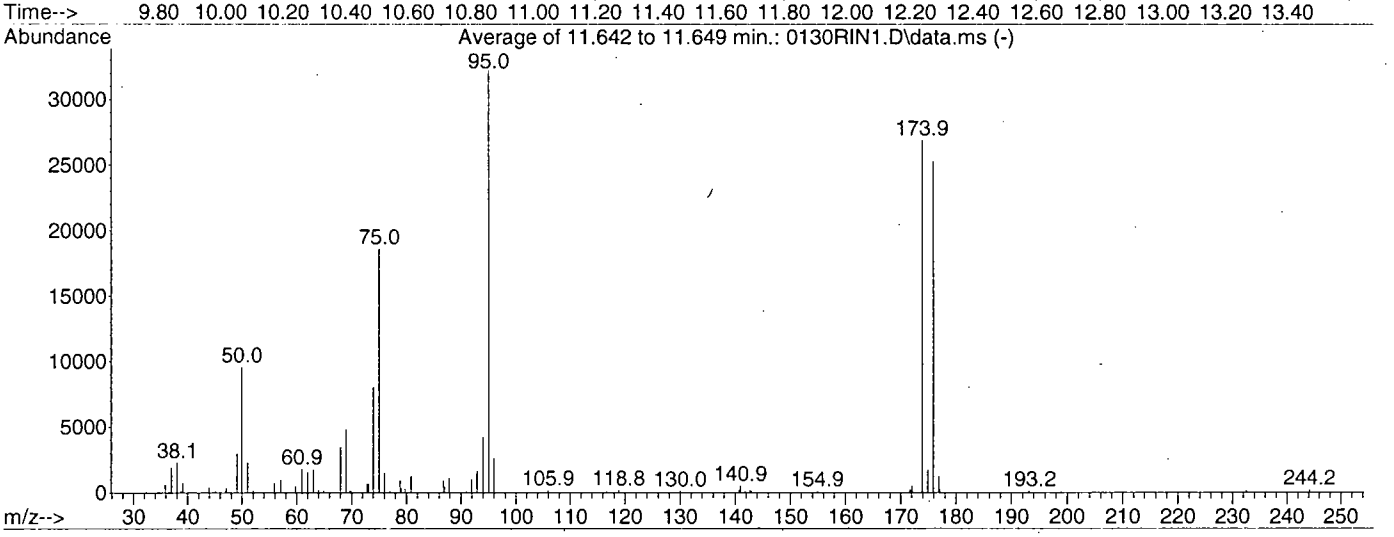
Freedom_0005792_0344

Data Path : D:\DATA\L01302014\
Data File : 0130RIN1.D
Acq On : 30 Jan 2014 8:06
Operator : PZ PZ1-AG5975
Sample : Blank
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: NORMAL.P

Method : D:\METHODS\L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Tue Jan 14 14:18:43 2014





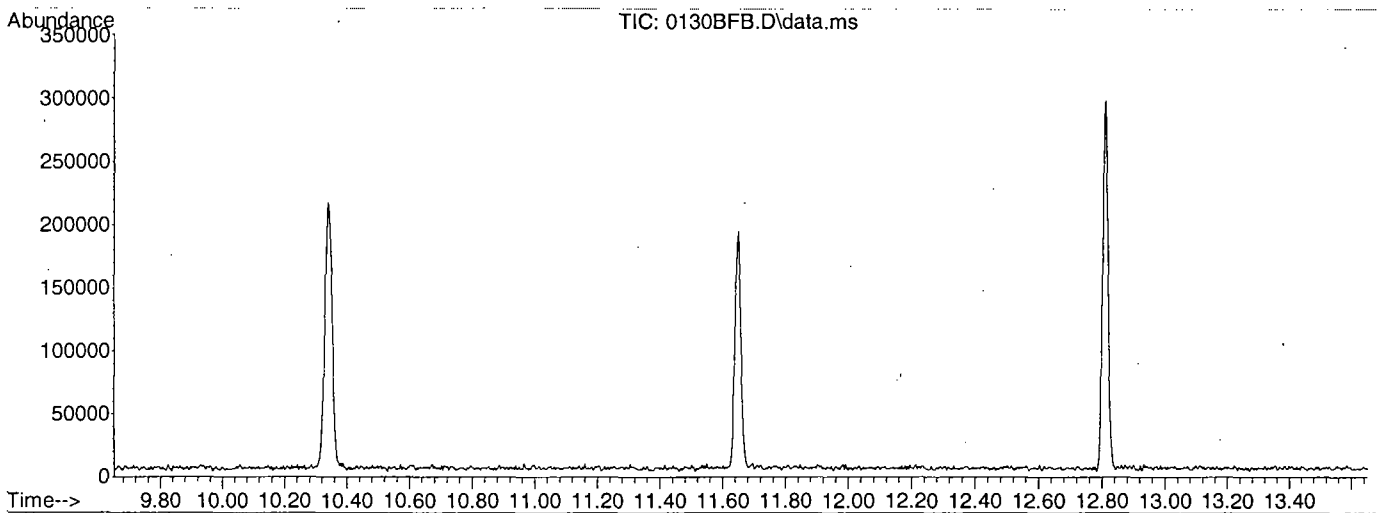
AutoFind: Scans 2789, 2790, 2791; Background Corrected with Scan 2780

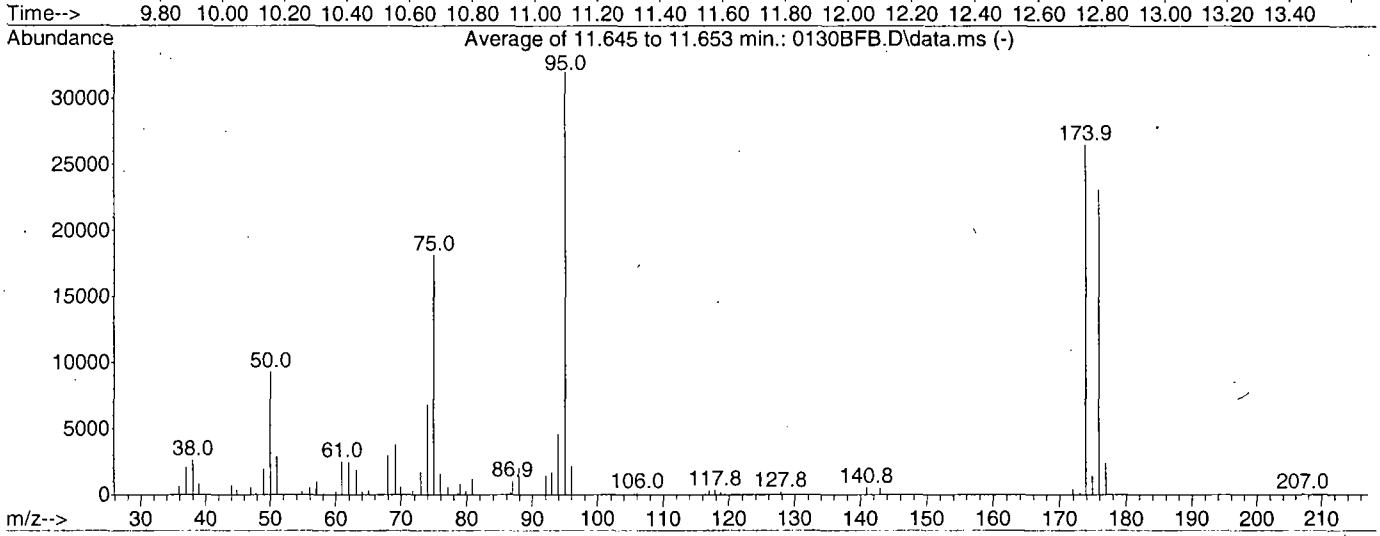
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	29.7	9571	PASS
75	95	30	60	57.7	18619	PASS
95	95	100	100	100.0	32248	PASS
96	95	5	9	8.1	2620	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	83.5	26925	PASS
175	174	5	9	6.5	1757	PASS
176	174	95	101	94.0	25301	FAIL*
177	176	5	9	4.9	1230	FAIL*

Data Path : D:\DATA\L01302014\
Data File : 0130BFB.D
Acq On : 30 Jan 2014 8:34
Operator : PZ PZ1-AG5975
Sample : 25 ng BFB, 2uL IS/SS in 5mL
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: NORMAL.P

Method : D:\METHODS\L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Tue Jan 14 14:18:43 2014





AutoFind: Scans 2790, 2791, 2792; Background Corrected with Scan 2782

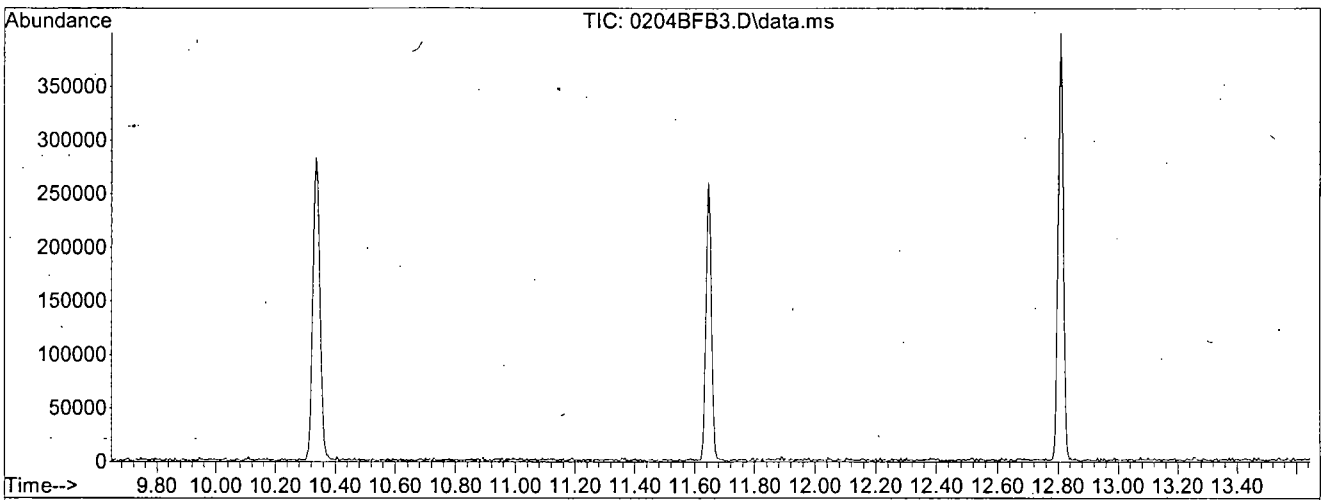
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	28.9	9270	PASS
75	95	30	60	56.7	18142	PASS
95	95	100	100	100.0	32021	PASS
96	95	5	9	6.8	2182	PASS
173	174	0.00	2	0.4	112	PASS
174	95	50	100	82.8	26504	PASS
175	174	5	9	5.4	1431	PASS
176	174	95	101	87.3	23149	FAIL*
177	176	5	9	10.4	2398	FAIL*

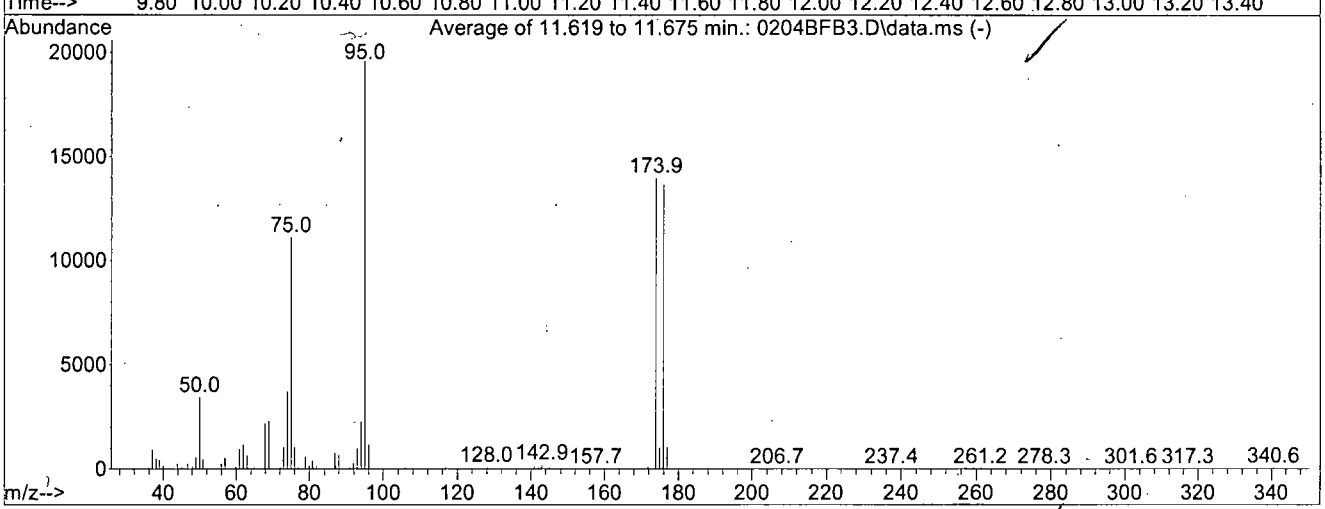
after MS tuned to PFTBA

Data Path : D:\DATA\L02042014\
Data File : 0204BFB3.D
Acq On : 4 Feb 2014 11:26
Operator : PZ PZ1-AG5975
Sample : 25 ng BFB, 2uL IS/SS in 5mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: NORMAL.P

Method : D:\METHODS\L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Thu Jan 30 13:30:19 2014





Spectrum Information: Average of 11.619 to 11.675 min.

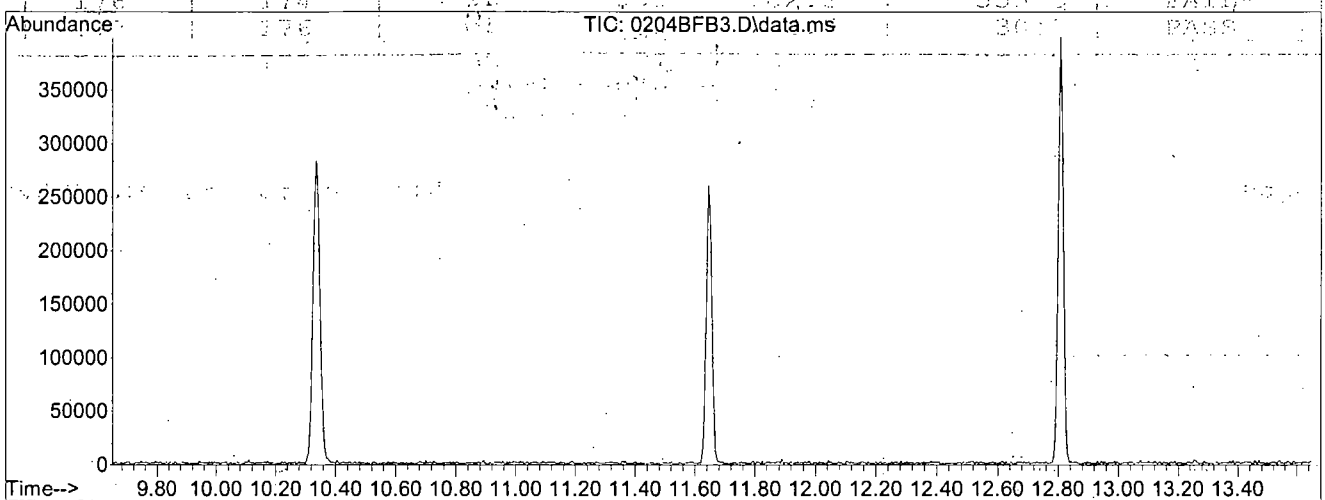
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	3451	PASS
75	95	30	60	56.7	11132	PASS
95	95	100	100	100.0	19634	PASS
96	95	5	9	5.9	1161	PASS
173	174	0.00	2	0.3	36	PASS
174	95	50	100	71.3	13991	PASS
175	174	5	9	7.4	1031	PASS
176	174	95	101	97.8	13678	PASS
177	176	5	9	7.6	1046	PASS

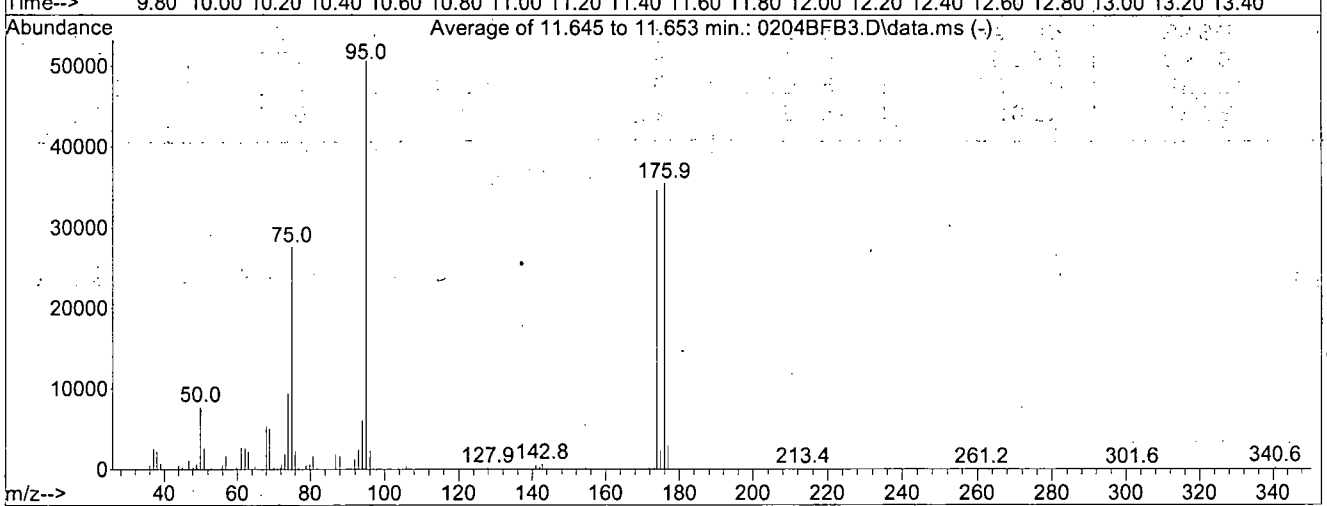
Freedom_0005792_0347

Data Path : D:\DATA\L02042014\
Data File : 0204BFB3.D
Acq On : 4 Feb 2014 11:26
Operator : PZ PZ1-AG5975
Sample : 25 ng BFB, 2uL IS/SS in 5mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: NORMAL.P

Method : D:\METHODS\L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Thu Jan 30 13:30:19 2014





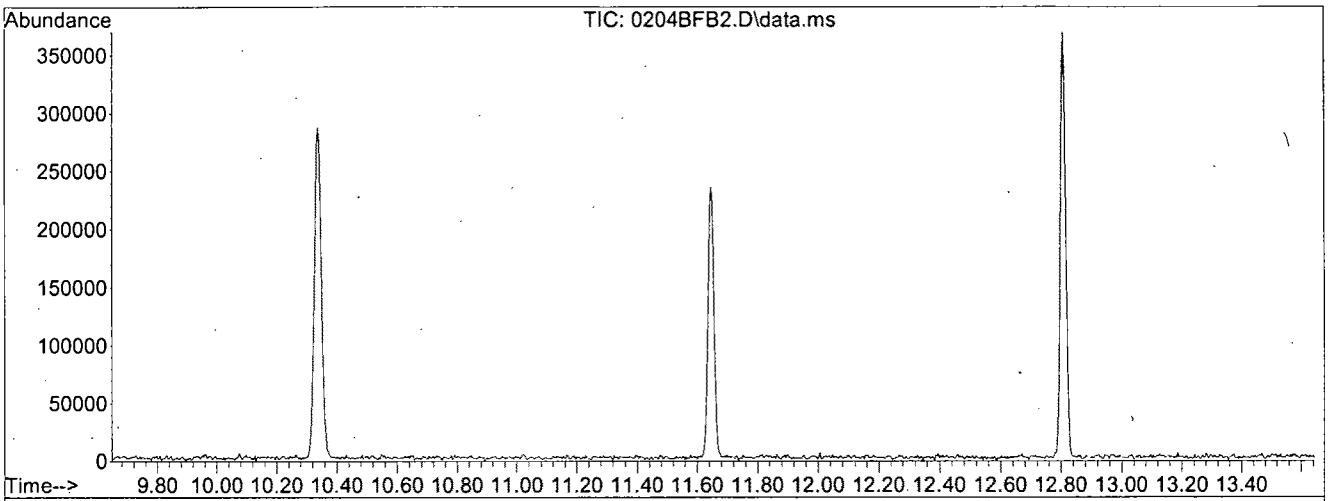
AutoFind: Scans 2790, 2791, 2792; Background Corrected with Scan 2781

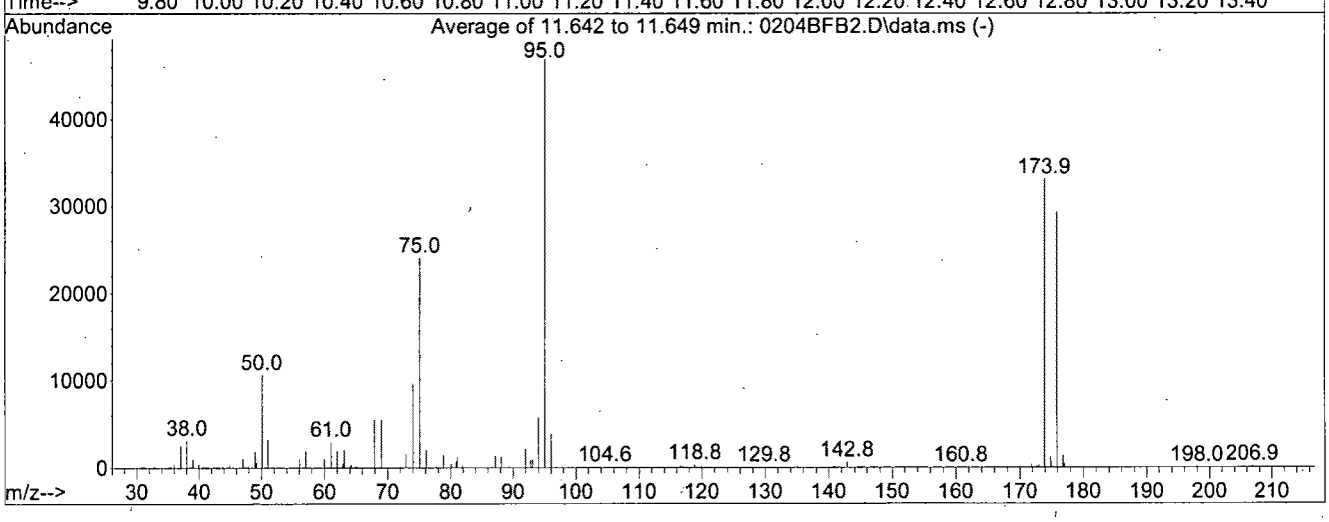
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.3	7765	PASS
75	95	30	60	54.4	27632	PASS
95	95	100	100	100.0	50765	PASS
96	95	5	9	4.7	2386	FAIL*
173	174	0.00	2	0.6	192	PASS
174	95	50	100	68.3	34693	PASS
175	174	5	9	6.9	2393	PASS
176	174	95	101	102.5	35565	FAIL*
177	176	5	9	8.5	3012	PASS

Data Path : D:\DATA\L02042014\
Data File : 0204BFB2.D
Acq On : 4 Feb 2014 9:12
Operator : PZ PZ1-AG5975
Sample : 25 ng BFB, 2uL IS/SS in 5mL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: NORMAL.P

Method : D:\METHODS\L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Thu Jan 30 13:30:19 2014





AutoFind: Scans 2789, 2790, 2791; Background Corrected with Scan 2780

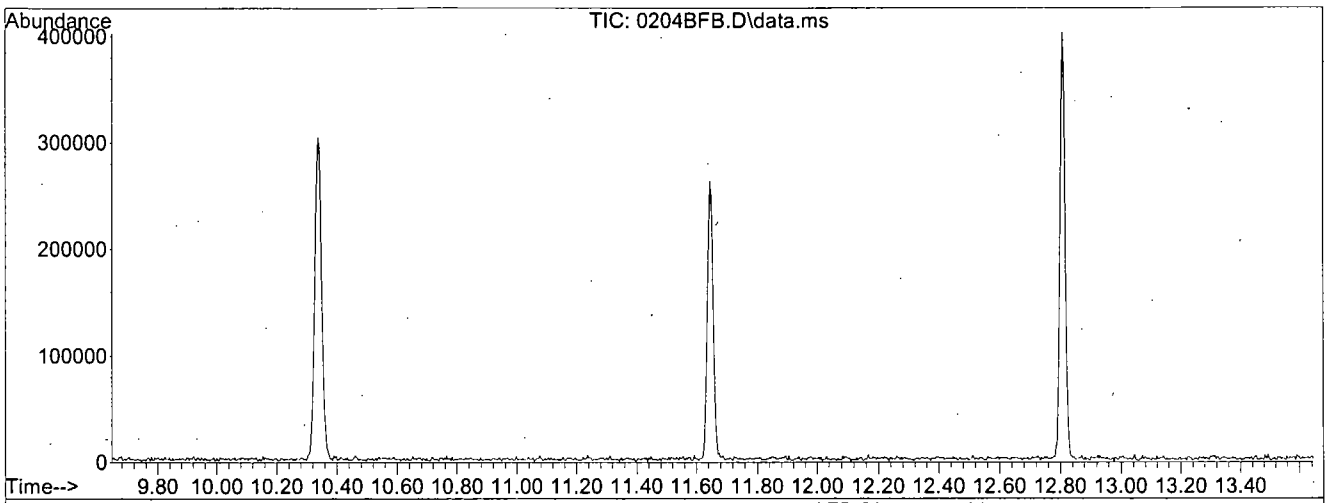
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	10697	PASS
75	95	30	60	51.4	24157	PASS
95	95	100	100	100.0	47005	PASS
96	95	5	9	8.4	3955	PASS
173	174	0.00	2	1.2	389	PASS
174	95	50	100	70.6	33176	PASS
175	174	5	9	4.0	1316	FAIL*
176	174	95	101	88.4	29336	FAIL*
177	176	5	9	4.8	1396	FAIL*

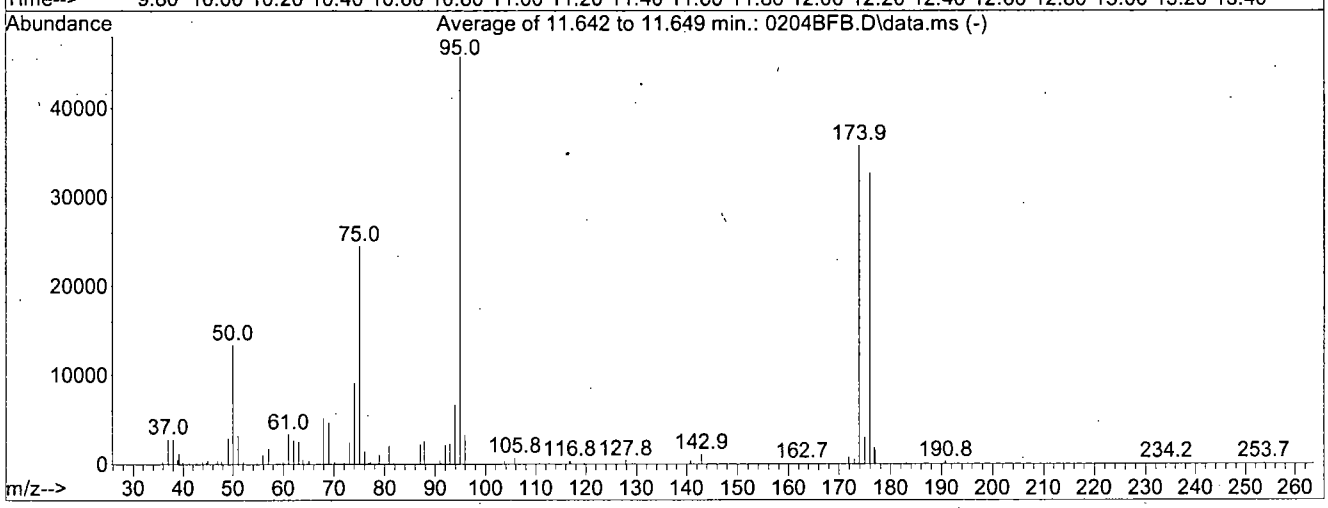
Freedom_0005792_0349

Data Path : D:\DATA\L02042014\Snapshot\
Data File : 0204BFB.D
Acq On : 4 Feb 2014 8:40
Operator : PZ PZ1-AG5975
Sample : 25 ng BFB, 2uL IS/SS in 5mL
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: NORMAL.P

Method : D:\METHODS\L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Thu Jan 30 13:30:19 2014





AutoFind: Scans 2789, 2790, 2791; Background Corrected with Scan 2780

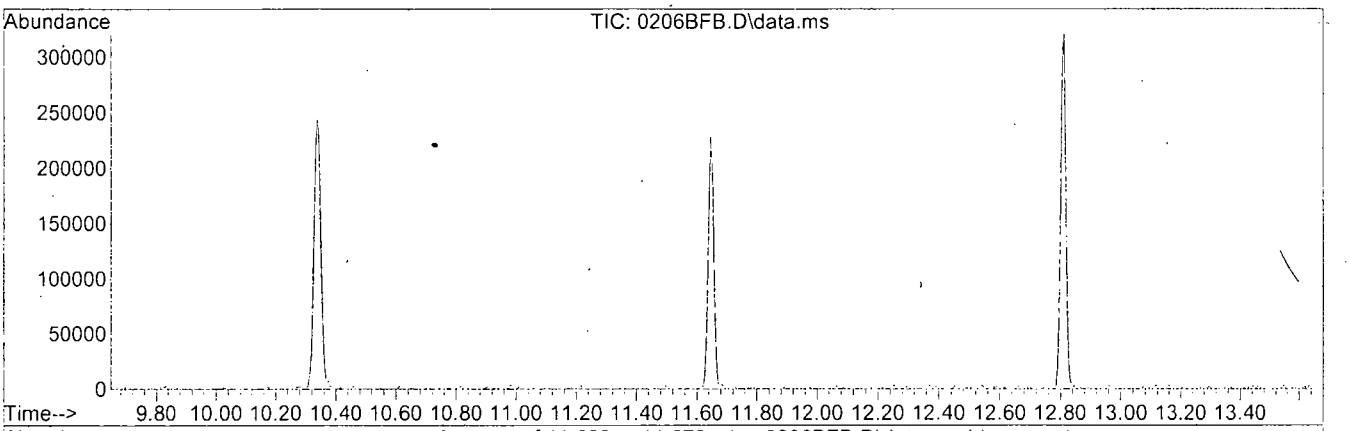
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	29.2	13387	PASS
75	95	30	60	53.4	24501	PASS
95	95	100	100	100.0	45893	PASS
96	95	5	9	7.4	3377	PASS
173	174	0.00	2	1.6	561	PASS
174	95	50	100	78.1	35834	PASS
175	174	5	9	8.4	3008	PASS
176	174	95	101	91.2	32688	FAIL*
177	176	5	9	5.6	1833	PASS

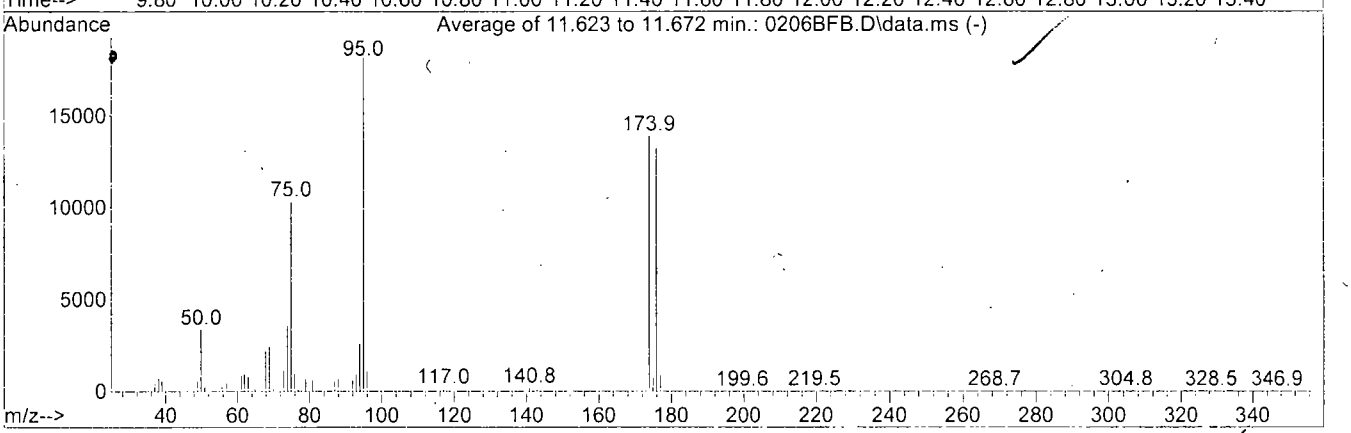
Freedom_0005792_0350

Data Path : D:\DATA\L02062014\
Data File : 0206BFB.D
Acq On : 6 Feb 2014 9:49
Operator : PZ PZ1-AG5975
Sample : 25 ng BFB, 2uL IS/SS in 5mL
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: NORMAL.P

Method : D:\METHODS\L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Tue Feb 04 16:14:21 2014





Spectrum Information: Average of 11.623 to 11.672 min.

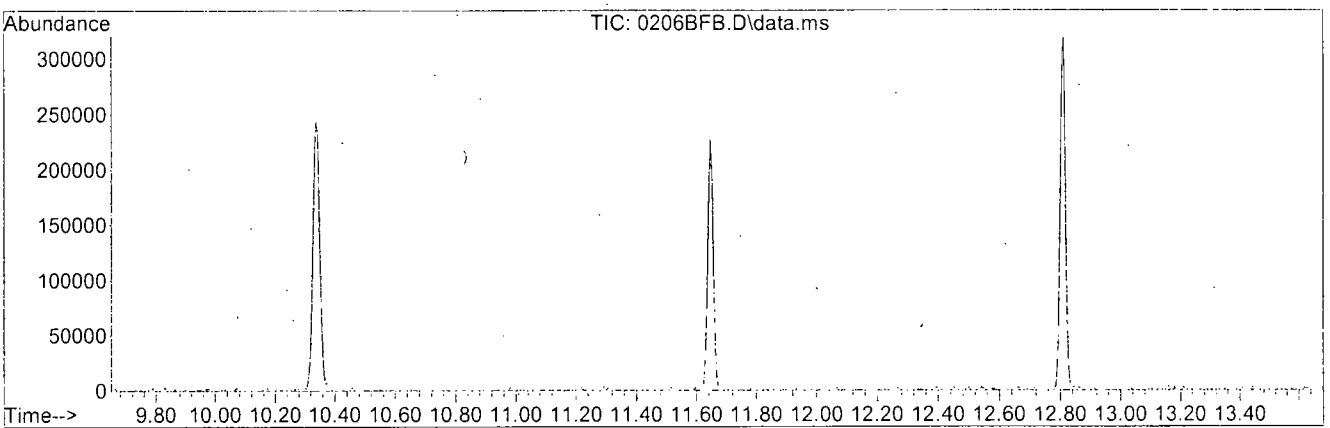
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	3374	PASS
75	95	30	60	56.2	10342	PASS
95	95	100	100	100.0	18393	PASS
96	95	5	9	6.2	1136	PASS
173	174	0.00	2	1.2	162	PASS
174	95	50	100	75.6	13909	PASS
175	174	5	9	5.6	774	PASS
176	174	95	101	95.5	13281	PASS
177	176	5	9	6.8	908	PASS

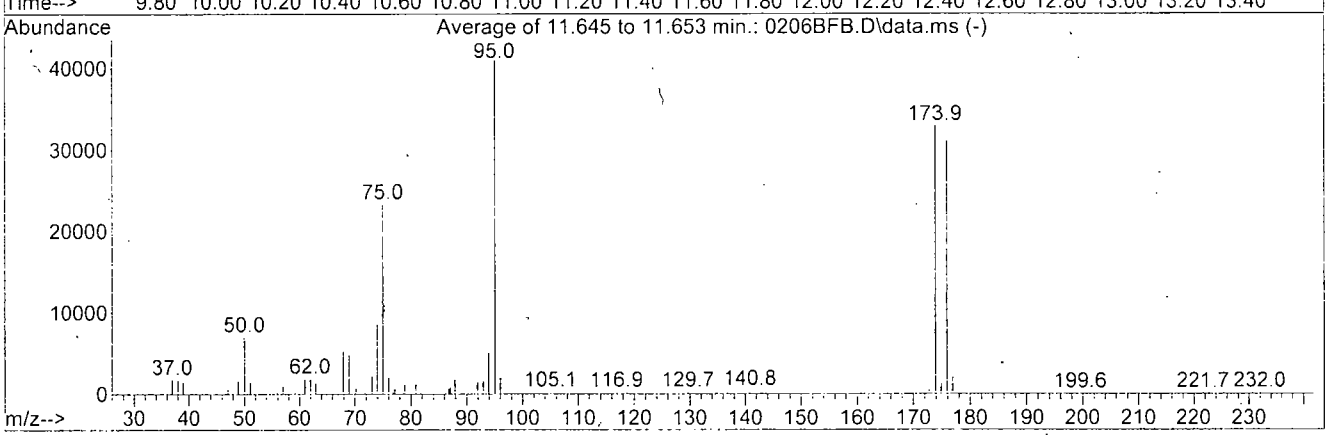
Freedom_0005792_0351

Data Path : D:\DATA\L02062014\
Data File : 0206BFB.D
Acq On : 6 Feb 2014 9:49
Operator : PZ PZ1-AG5975
Sample : 25 ng BFB, 2uL IS/SS in 5mL
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: NORMAL.P

Method : D:\METHODS\L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Tue Feb 04 16:14:21 2014





AutoFind: Scans 2790, 2791, 2792; Background Corrected with Scan 2779

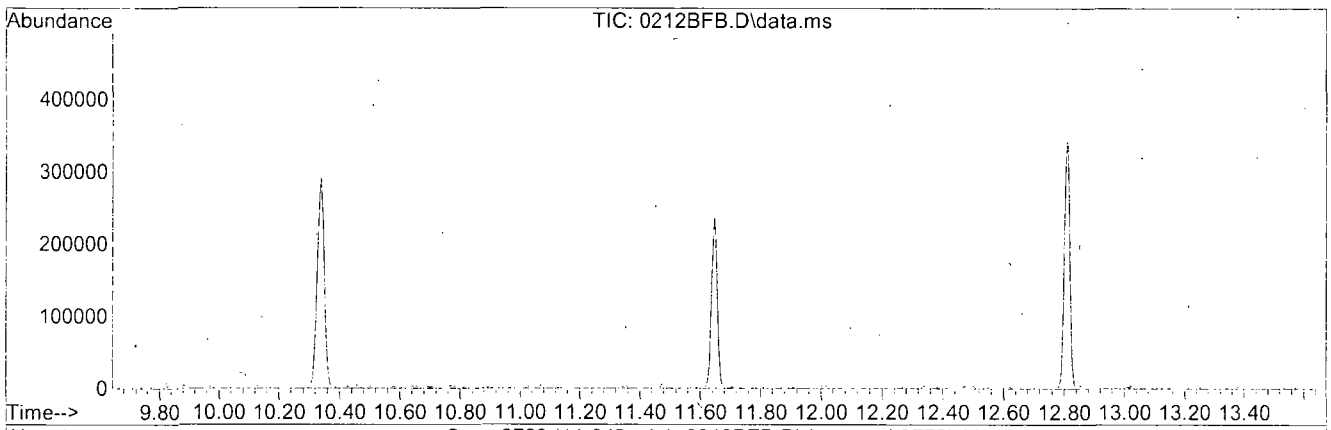
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	7037	PASS
75	95	30	60	56.3	23381	PASS
95	95	100	100	100.0	41544	PASS
96	95	5	9	4.8	2014	FAIL*
173	174	0.00	2	1.3	420	PASS
174	95	50	100	79.3	32965	PASS
175	174	5	9	4.2	1397	FAIL*
176	174	95	101	94.6	31178	FAIL*
177	176	5	9	6.8	2121	PASS

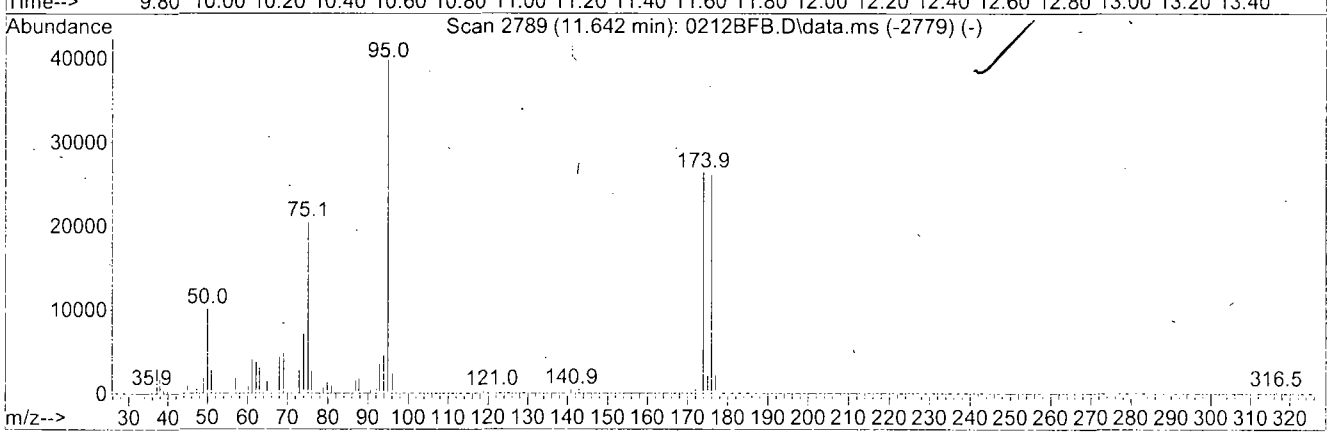
Freedom_0005792_0352

Data Path : D:\DATA\L02122014\
Data File : 0212BFB.D
Acq On : 12 Feb 2014 9:20
Operator : PZ PZ1-AG5975
Sample : 25 ng BFB, 2uL IS/SS in 5mL
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: NOISY.P

Method : D:\METHODS\L02122014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Thu Feb 06 11:16:40 2014





Spectrum Information: Scan 2789

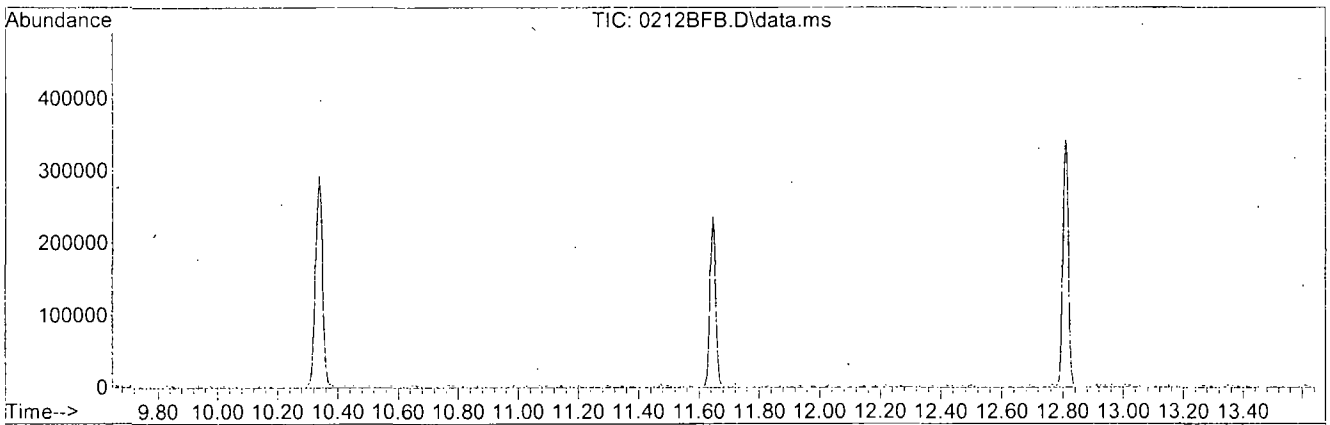
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.0	10089	PASS
75	95	30	60	50.7	20472	PASS
95	95	100	100	100.0	40344	PASS
96	95	5	9	6.2	2497	PASS
173	174	0.00	2	1.5	402	PASS
174	95	50	100	65.3	26360	PASS
175	174	5	9	8.4	2202	PASS
176	174	95	101	99.3	26176	PASS
177	176	5	9	8.6	2249	PASS

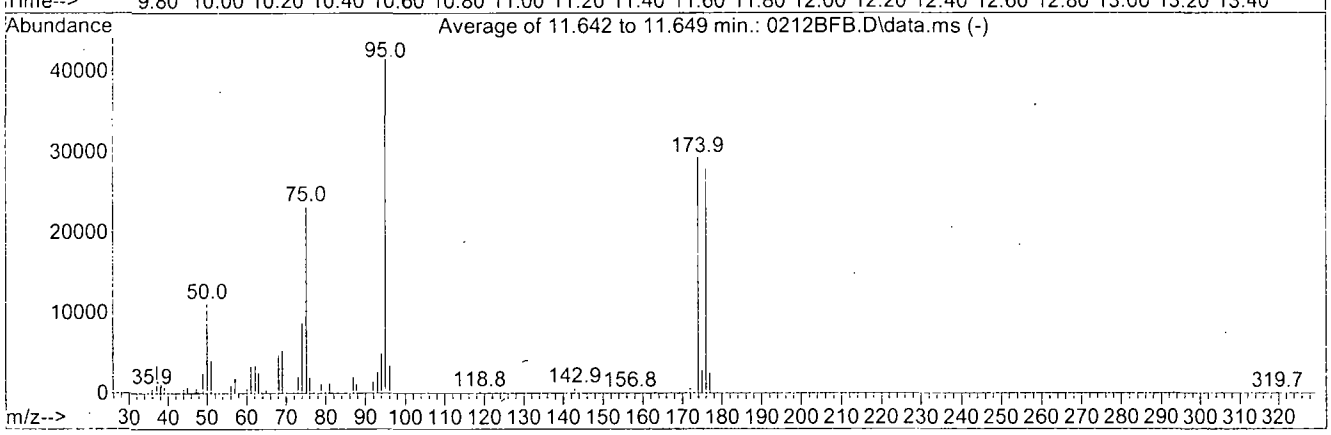
Freedom_0005792_0353

Data Path : D:\DATA\L02122014\
Data File : 0212BFB.D
Acq On : 12 Feb 2014 9:20
Operator : PZ PZ1-AG5975
Sample : 25 ng BFB, 2uL IS/SS in 5mL
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: NOISY.P

Method : D:\METHODS\L02122014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Thu Feb 06 11:16:40 2014





AutoFind: Scans 2789, 2790, 2791; Background Corrected with Scan 2781

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.5	11146	PASS
75	95	30	60	55.4	23253	PASS
95	95	100	100	100.0	42000	PASS
96	95	5	9	8.2	3431	PASS
173	174	0.00	2	0.5	134	PASS
174	95	50	100	69.8	29320	PASS
175	174	5	9	9.6	2828	FAIL*
176	174	95	101	95.3	27933	PASS
177	176	5	9	9.1	2554	FAIL*

Response Factor Report PZ1-AG5975

Method Path : D:\METHODS\
Method File : L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Thu Jan 30 13:30:19 2014
Response Via : Initial Calibration

✓ 6 compds out

1,2-DB-3CP NQL = 1ppb ✓
Ketones NQL = 5ppb ✓

Calibration Files
0.5 =0130C005.D 1 =0130C01.D 5 =0130C05.D 10 =0130C10.D 20 =0130C20.D
50 =0130C50.D

Compound	0.5	1	5	10	20	50	Avg	%RSD
1) I 1,4-DIFLUOROBENZENE				ISTD				
2) TMCPDICHLORODIFLUO...	0.495	0.568	0.475	0.487	0.435	0.460	0.487	9.26
3) TMCPCHLOROMETHANE	0.674	0.598	0.521	0.534	0.485	0.514	0.554	12.56
4) TMCPVINYL CHLORIDE	0.449	0.395	0.416	0.408	0.368	0.392	0.405	6.69
5) TMCPBROMOMETHANE	0.210	0.254	0.194	0.188	0.178	0.188	0.202	13.60
6) TMCPCHLOROETHANE	0.296	0.231	0.239	0.233	0.212	0.212	0.237	13.09
7) TMCPTRICHLOROFLUOR...	0.906	0.852	0.840	0.793	0.715	0.764	0.812	8.41
8) TMCPACETONE			0.295	0.237	0.237	0.189	0.239	18.02
9) TMCP1,1-DICHLOROET...	0.290	0.275	0.268	0.259	0.248	0.244	0.264	6.59
10) TMCPMETHYLENE CHLO...	0.422	0.585	0.308	0.409	0.376	0.372	0.412	22.71#
11) TMCPFreon 113	0.492	0.480	0.393	0.425	0.387	0.390	0.428	11.05
12) TMCPCARBON DISULFIDE	1.225	1.201	1.078	1.140	1.053	1.145	1.140	5.88
13) TMCPMETHYL ACETATE	0.435	0.403	0.402	0.344	0.338	0.346	0.378	10.71
14) TMCPTRANS-1,2-DICH...	0.371	0.434	0.373	0.390	0.376	0.365	0.385	6.64
15) TMCPMETHYL-TERT-BU...	1.021	0.837	0.848	0.909	0.899	0.958	0.912	7.59
16) TMCP1,1-DICHLOROET...	0.788	0.971	0.793	0.812	0.764	0.747	0.813	9.96
17) TMCPVINYL ACETATE	0.800	0.752	0.708	0.798	0.790	0.947	0.799	10.10
18) TMCP2-BUTANONE			0.285	0.230	0.242	0.252	0.252	9.51
19) TMCPCIS-1,2-DICHLO...	0.360	0.427	0.389	0.423	0.407	0.409	0.403	6.16
20) TMCPBROMOCHLOROMET...	0.187	0.219	0.192	0.198	0.195	0.187	0.196	6.16
21) TMCPCHLOROFORM	0.788	0.869	0.791	0.766	0.748	0.730	0.782	6.17
22) TMCP2,2-DICHLOROPR...	0.459	0.471	0.460	0.510	0.503	0.521	0.487	5.63
23) S 1,2-DICHLOROET...	0.582	0.568	0.515	0.522	0.494	0.460	0.523	8.69
24) TMCP1,2-DICHLOROET...	0.879	0.898	0.704	0.758	0.709	0.689	0.773	11.99
25) TMCP1,1,1-TRICHLOR...	0.613	0.601	0.632	0.633	0.631	0.612	0.620	2.18
26) TMCP1,1-DICHLOROPR...	0.463	0.511	0.504	0.566	0.577	0.577	0.533	8.87
27) TMCPCYCLOHEXANE	0.778	0.664	0.724	0.810	0.792	0.812	0.763	7.65
28) TMCPCARBON TETRACH...	0.567	0.623	0.565	0.577	0.562	0.571	0.578	3.97
29) TMCPBENZENE	1.583	1.705	1.671	1.716	1.611	1.562	1.641	3.95
30) TMCPDIBROMOMETHANE	0.321	0.280	0.257	0.263	0.255	0.251	0.271	9.82
31) TMCP1,2-DICHLOROPR...	0.471	0.496	0.413	0.446	0.431	0.429	0.448	6.89
32) TMCPTRICHLOROETHENE	0.510	0.551	0.472	0.499	0.499	0.489	0.503	5.28
33) TMCPBROMODICHLOROM...	0.547	0.530	0.565	0.559	0.566	0.567	0.556	2.65
34) TMCPMETHYLCYCLOHEXANE	0.567	0.589	0.565	0.679	0.674	0.716	0.632	10.39
35) TMCP2-CHLOROETHYLV...		0.195	0.224	0.243	0.226		0.222	8.96
36) TMCPCIS-1,3-DICHLO...	0.411	0.539	0.553	0.623	0.632	0.663	0.570	16.03
37) I CHLOROBENZENE-d5				ISTD				
38) TMCP4-METHYL-2-PEN...			0.419	0.469	0.467	0.567	0.480	12.89
39) TMCPTRANS-1,3-DICH...	0.359	0.422	0.458	0.541	0.558	0.648	0.498	21.01#
40) TMCP1,1,2-TRICHLOR...	0.343	0.426	0.369	0.406	0.375	0.381	0.384	7.62
41) S TOLUENE-d8	1.197	1.264	1.229	1.341	1.344	1.362	1.290	5.35
42) TMCPTOLUENE	0.905	1.068	0.964	1.051	1.031	1.036	1.009	6.15
43) TMCP1,3-DICHLOROPR...	0.667	0.915	0.770	0.787	0.743	0.757	0.773	10.50
44) TMCPCHLORODIBROMOM...	0.312	0.367	0.354	0.390	0.386	0.420	0.371	9.94
45) TMCP2-HEXANONE			0.301	0.318	0.362	0.420	0.350	15.17
46) TMCP1,2-DIBROMOETH...	0.370	0.366	0.386	0.415	0.393	0.423	0.392	5.91
47) TMCPTETRACHLOROETHENE	0.341	0.415	0.352	0.367	0.354	0.365	0.366	7.14
48) TMCP1,1,1,2-TETRAC...	0.368	0.385	0.383	0.396	0.390	0.418	0.390	4.29
49) TMCPCHLOROBENZENE	1.069	1.135	1.062	1.084	1.034	1.090	1.079	3.13
50) TMCPETHYLBENZENE	1.456	1.562	1.841	2.097	2.085	2.188	1.872	16.30
51) TMCPBROMOFORM	0.220	0.244	0.256	0.255	0.280	0.319	0.262	13.03
52) TMCPM-XYLENE/P-XYLENE	0.431	0.587	0.735	0.814	0.778	0.793	0.690	21.84#
53) TMCPSTYRENE	0.784	1.004	1.229	1.341	1.285	1.424	1.178	20.33# ok
54) TMCPO-XYLENE	0.528	0.721	0.831	0.852	0.769	0.811	0.752	15.83
55) TMCPISOPROPYLBENZENE	1.207	1.635	1.903	2.039	2.038	2.187	1.835	19.58
56) I 1,4-DICHLOROBENZEN...				ISTD				
57) TMCP1,1,2,2-TETRAC...	0.661	0.653	0.571	0.576	0.488	0.454	0.567	14.83

Freedom_0005792_0355

Method Path : D:\METHODS\
Method File : L01302014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

58)	TMCP1,2,3-TRICHLOR...	0.740	0.878	0.743	0.723	0.710	0.711	0.751	8.51
59)	S 4-BROMOFLUOROB...	0.911	0.879	0.981	0.993	0.963	0.908	0.939	4.89
60)	TMCPBROMOBENZENE	0.837	0.917	0.824	0.841	0.830	0.821	0.845	4.29
61)	TMCPN-PROPYLBENZENE	2.695	3.036	3.704	4.114	4.000	4.051	3.600	16.55
62)	TMCP2-CHLOROTOLUENE	1.730	2.324	2.431	2.556	2.406	2.326	2.295	12.63
63)	TMCP4-CHLOROTOLUENE	1.716	2.426	2.551	2.647	2.500	2.492	2.389	14.13
64)	TMCP1,3,5-TRIMETHY...	1.857	2.327	2.829	3.194	3.158	3.193	2.760	20.11# OK
65)	TMCPTERT-BUTYLBENZENE	1.322	1.853	2.112	2.398	2.341	2.388	2.069	20.41# OK
66)	TMCP1,2,4-TRIMETHY...	1.660	2.400	2.981	3.375	3.195	3.285	2.816	23.62#
67)	TMCPSEC-BUTYLBENZENE	2.285	3.221	3.856	4.055	3.913	3.960	3.548	19.35
68)	TMCP1,3-DICHLOROBE...	1.572	1.725	1.750	1.742	1.649	1.611	1.675	4.48
69)	TMCP1,4-DICHLOROBE...	1.730	1.994	1.869	1.910	1.814	1.795	1.852	5.03
70)	TMCPP-ISOPROPYLTOL...	2.080	2.399	2.949	3.274	3.227	3.315	2.874	18.02
71)	TMCP1,2-DICHLOROBE...	1.426	1.664	1.616	1.639	1.609	1.574	1.588	5.36
72)	TMCPN-BUTYLBENZENE	1.735	2.346	3.227	3.724	3.721	3.775	3.088	27.78#
73)	TMCP1,2-DIBROMO-3- NQ-1		0.101	0.114	0.133	0.142	0.164	0.131	18.67
74)	TMCP1,2,4-TRICHLOR...	0.920	1.170	1.160	1.306	1.367	1.424	1.225	14.88
75)	TMCPNAPHTHALENE	1.409	1.749	2.270	2.831	3.011	3.237	2.418	30.29#
76)	TMCPHEXACHLOROBUTA...	0.569	0.621	0.731	0.845	0.845	0.949	0.760	19.20
77)	TMCP1,2,3-TRICHLOR...	0.941	1.015	1.280	1.402	1.334	1.421	1.232	16.58

(#) = Out of Range

Freedom_0005792_0356

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:07:20 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.525	114	102276	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.341	117	101176	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	54534	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.502	65	59519	5.98	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	=	119.60%#	
41) TOLUENE-d8	8.620	98	121088	4.65	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	=	93.00%	
59) 4-BROMOFLUOROBENZENE	11.646	95	49659	4.81	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	=	96.20%	
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.311	85	5065	0.54	ug/L	98
3) CHLOROMETHANE	1.423	50	6898	0.67	ug/L #	78
4) VINYL CHLORIDE	1.528	62	4593	0.60	ug/L #	84
5) BROMOMETHANE	1.794	94	2149m	0.56	ug/L	
6) CHLOROETHANE	1.903	64	3030m	0.68	ug/L	
7) TRICHLOROFLUOROMETHANE	2.326	101	9267	0.63	ug/L	94
8) ACETONE	2.491	43	1704	0.38	ug/L #	47
9) 1,1-DICHLOROETHENE	2.791	96	2963m	0.59	ug/L	
10) METHYLENE CHLORIDE	2.982	84	4317	0.61	ug/L #	71
11) Freon 113	3.057	101	5035	0.67	ug/L #	42
12) CARBON DISULFIDE	3.102	76	12526	0.59	ug/L #	74
13) METHYL ACETATE	3.129	43	4449m	0.57	ug/L	
14) TRANS-1,2-DICHLOROETHENE	3.695	96	3790	0.53	ug/L #	83
15) METHYL-TERT-BUTYL ETHER	3.878	73	10444	0.60	ug/L #	86
16) 1,1-DICHLOROETHANE	3.965	63	8061	0.54	ug/L #	89
17) VINYL ACETATE	4.257	43	8186m	0.54	ug/L	
19) CIS-1,2-DICHLOROETHENE	4.609	96	3679	0.48	ug/L #	37
20) BROMOCHLOROMETHANE	4.782	128	1908m	0.51	ug/L	
21) CHLOROFORM	4.868	83	8061	0.57	ug/L	96
22) 2,2-DICHLOROPROPANE	4.924	77	4690	0.53	ug/L #	58
24) 1,2-DICHLOROETHANE	5.595	62	8985	0.69	ug/L #	69
25) 1,1,1-TRICHLOROETHANE	5.685	97	6266	0.57	ug/L #	49
26) 1,1-DICHLOROPROPENE	5.921	75	4735	0.48	ug/L #	81
27) CYCLOHEXANE	5.970	56	7954m	0.55	ug/L	
28) CARBON TETRACHLORIDE	6.079	117	5797	0.58	ug/L #	88
29) BENZENE	6.154	78	16191	0.52	ug/L	95
30) DIBROMOMETHANE	6.795	93	3288	0.65	ug/L #	62
31) 1,2-DICHLOROPROPANE	6.862	63	4820m	0.57	ug/L	
32) TRICHLOROETHENE	6.915	130	5212	0.57	ug/L #	89
33) BROMODICHLOROMETHANE	6.967	83	5591	0.53	ug/L #	88
34) METHYLCYCLOHEXANE	7.485	83	5797	0.46	ug/L #	81
36) CIS-1,3-DICHLOROPROPENE	7.784	75	4205	0.41	ug/L	89
38) 4-METHYL-2-PENTANONE	8.017	43	3665	0.38	ug/L #	46
39) TRANS-1,3-DICHLOROPROPENE	8.335	75	3632m	0.40	ug/L	
40) 1,1,2-TRICHLOROETHANE	8.474	97	3467	0.47	ug/L #	77
42) TOLUENE	8.703	92	9156	0.46	ug/L	99
43) 1,3-DICHLOROPROPANE	8.770	76	6744	0.47	ug/L #	86
44) CHLORODIBROMOMETHANE	9.018	129	3155	0.42	ug/L #	37
45) 2-HEXANONE	9.085	43	1010	0.15	ug/L #	40
46) 1,2-DIBROMOETHANE (EDB)	9.299	107	3746	0.51	ug/L #	91
47) TETRACHLOROETHENE	9.550	164	3446	0.50	ug/L	91
48) 1,1,1,2-TETRACHLOROETHANE	10.292	131	3720	0.51	ug/L #	80

Freedom_0005792_0357

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:07:20 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	CHLOROBENZENE	10.367	112	10811	0.48	ug/L		94
50)	ETHYLBENZENE	10.660	91	14735	0.40	ug/L		96
51)	BROMOFORM	10.870	173	2221	0.44	ug/L	#	30
52)	M-XYLENE/P-XYLENE	10.888	106	8718	0.62	ug/L		83
53)	STYRENE	11.211	104	15869	0.68	ug/L		97
54)	O-XYLENE	11.282	106	10694	0.69	ug/L		92
55)	ISOPROPYLBENZENE	11.649	105	12214	0.30	ug/L		99
57)	1,1,2,2-TETRACHLOROETHANE	11.263	83	3605	0.56	ug/L	#	89
58)	1,2,3-TRICHLOROPROPANE	11.406	75	4037	0.49	ug/L	#	66
60)	BROMOBENZENE	11.803	156	4563	0.49	ug/L		83
61)	N-PROPYLBENZENE	12.065	91	14698	0.34	ug/L		95
62)	2-CHLOROTOLUENE	12.110	91	9432	0.36	ug/L	#	85
63)	4-CHLOROTOLUENE	12.185	91	9358	0.32	ug/L	#	87
64)	1,3,5-TRIMETHYLBENZENE	12.362	105	10129	0.35	ug/L	#	80
65)	TERT-BUTYLBENZENE	12.568	119	7209	0.29	ug/L		95
66)	1,2,4-TRIMETHYLBENZENE	12.684	105	9053	0.30	ug/L		100
67)	SEC-BUTYLBENZENE	12.755	105	12461	0.29	ug/L	#	90
68)	1,3-DICHLOROBENZENE	12.766	146	8571	0.42	ug/L		95
69)	1,4-DICHLOROBENZENE	12.834	146	9436	0.45	ug/L		96
70)	P-ISOPROPYLTOLUENE	12.935	119	11341	0.35	ug/L		97
71)	1,2-DICHLOROBENZENE	13.111	146	7774	0.41	ug/L		96
72)	N-BUTYLBENZENE	13.269	91	9459	0.28	ug/L		96
74)	1,2,4-TRICHLOROBENZENE	14.558	180	5019	0.36	ug/L	#	87
75)	NAPHTHALENE	14.731	128	7683	0.27	ug/L		96
76)	HEXACHLOROBUTADIENE	14.806	225	3105	0.41	ug/L	#	87
77)	1,2,3-TRICHLOROBENZENE	14.877	180	5134	0.37	ug/L	#	91

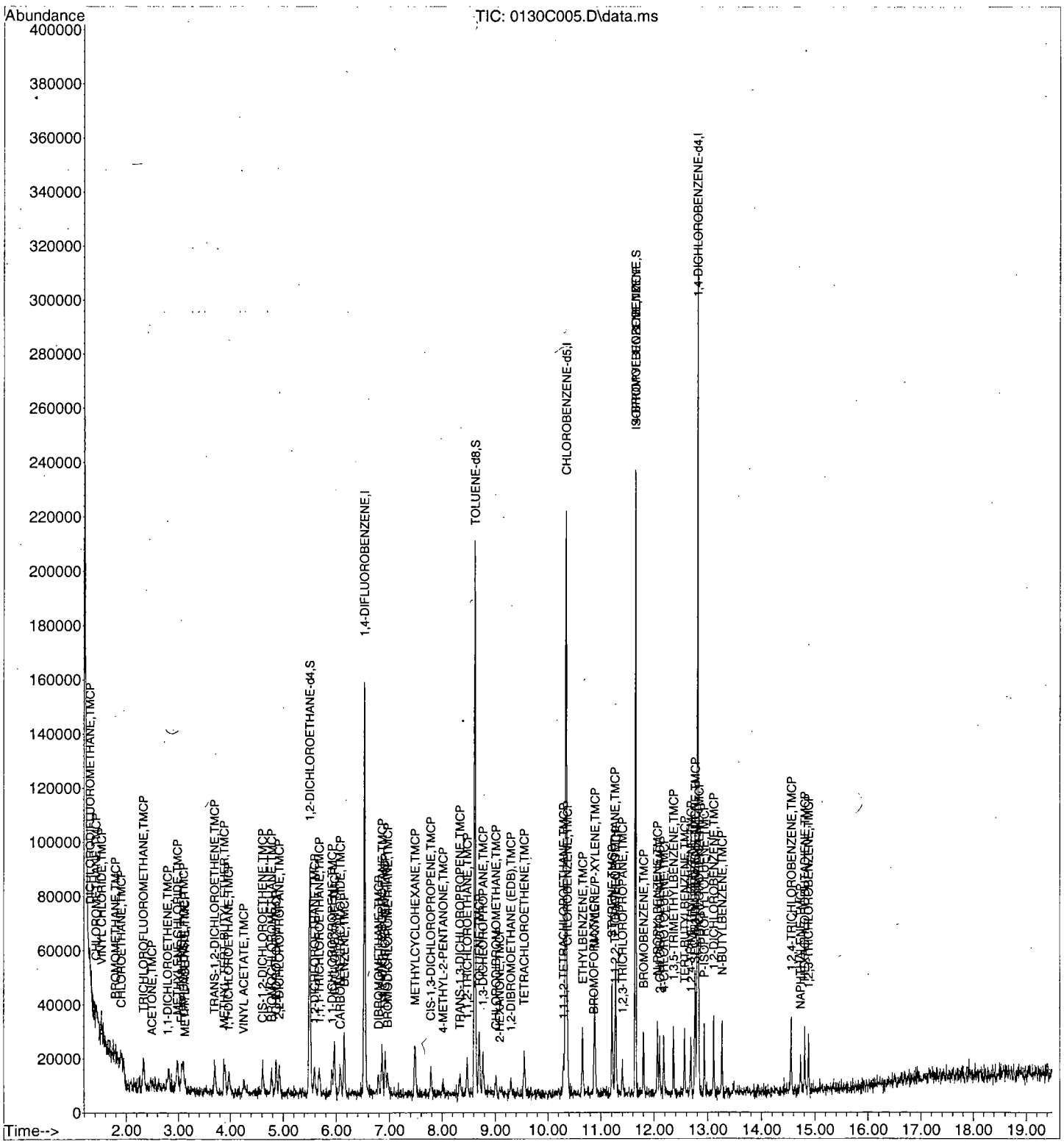
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0358

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:07:20 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration

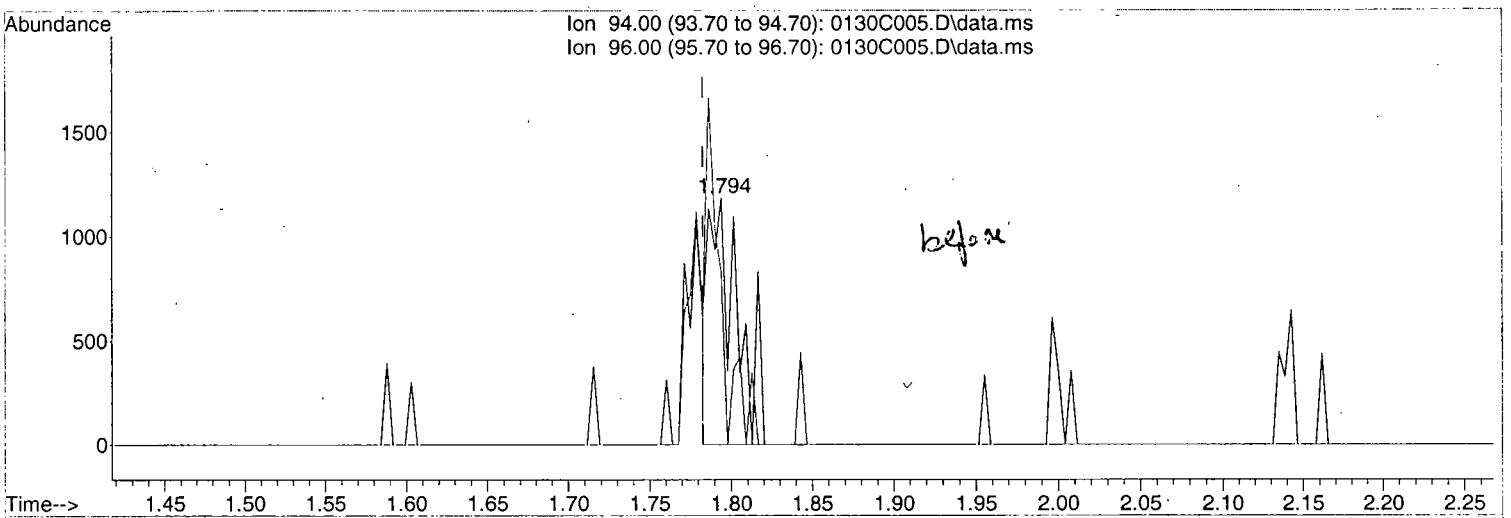


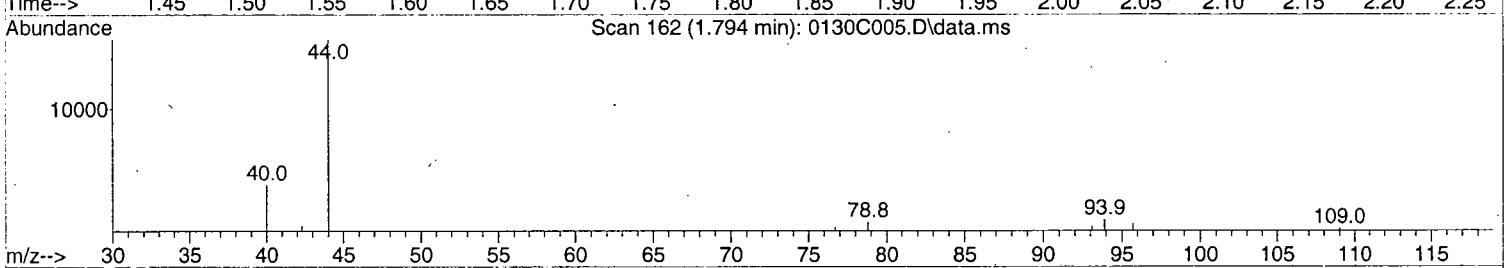
Freedom_0005792_0359

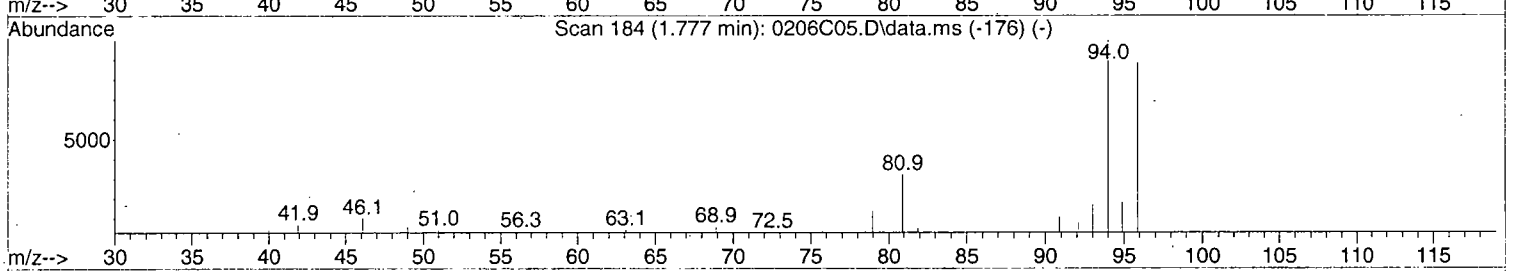
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C005.D\data.ms

(5) BROMOMETHANE (TMCP)

1.794min (+0.011) 0.38 ug/L

response 1452

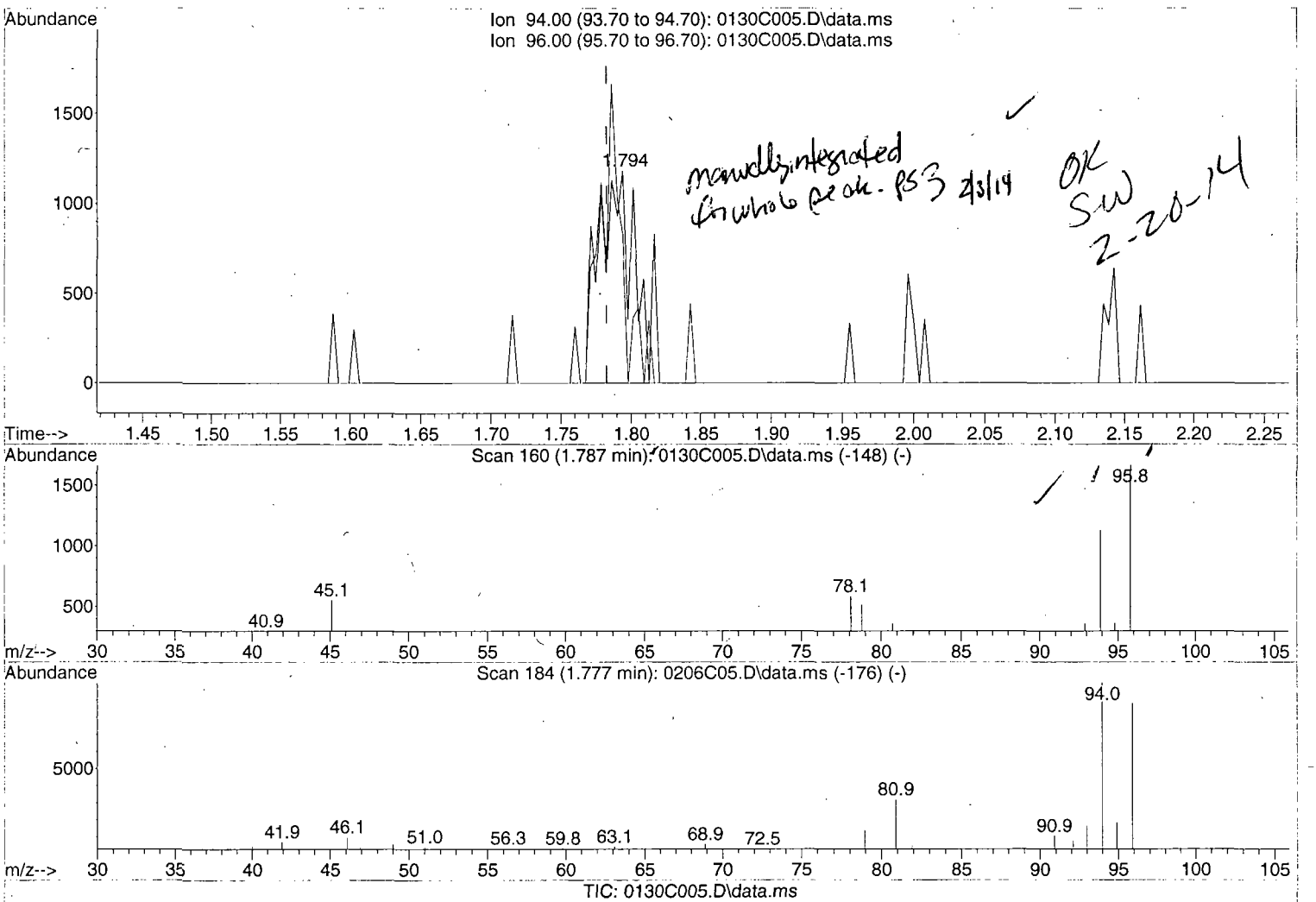
Ion	Exp%	Act%
94.00	100	100
96.00	93.10	108.68
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0360

Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



(5) BROMOMETHANE (TMCP)

1.794min (+0.011) 0.56 ug/L m

response 2149

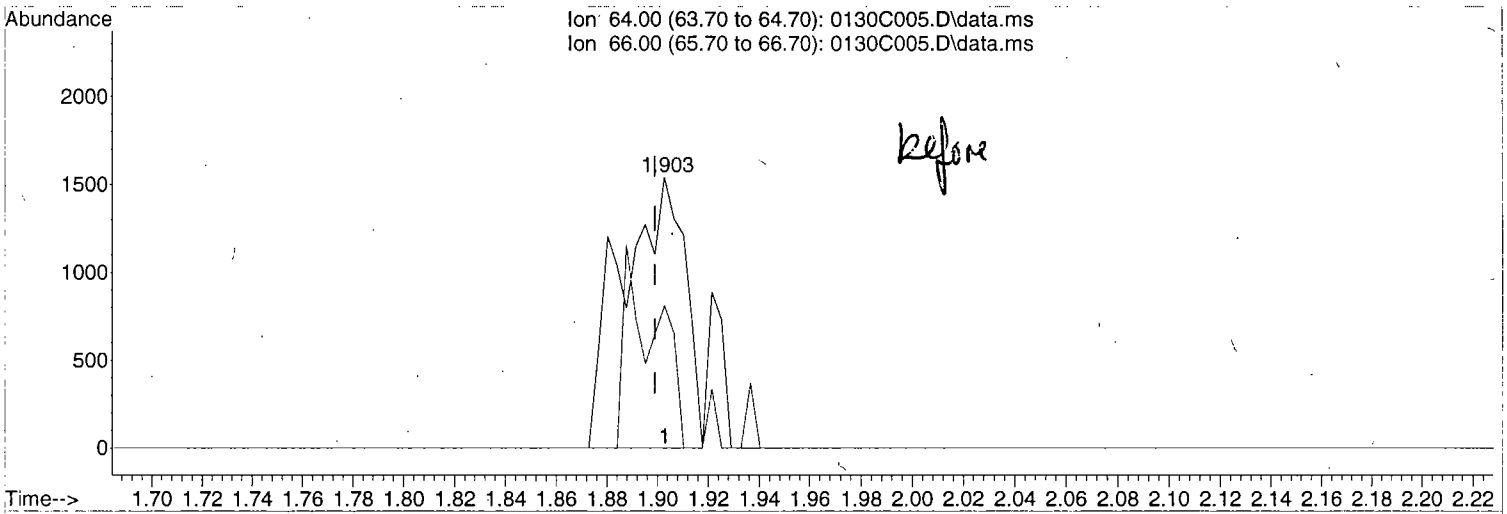
Ion	Exp%	Act%
94.00	100	100
96.00	93.10	73.43#
0.00	0.00	0.00
0.00	0.00	0.00

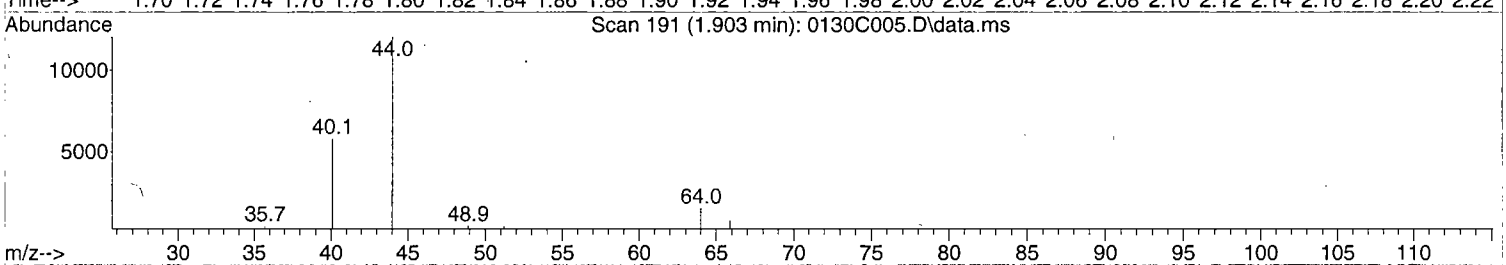
Freedom_0005792_0361

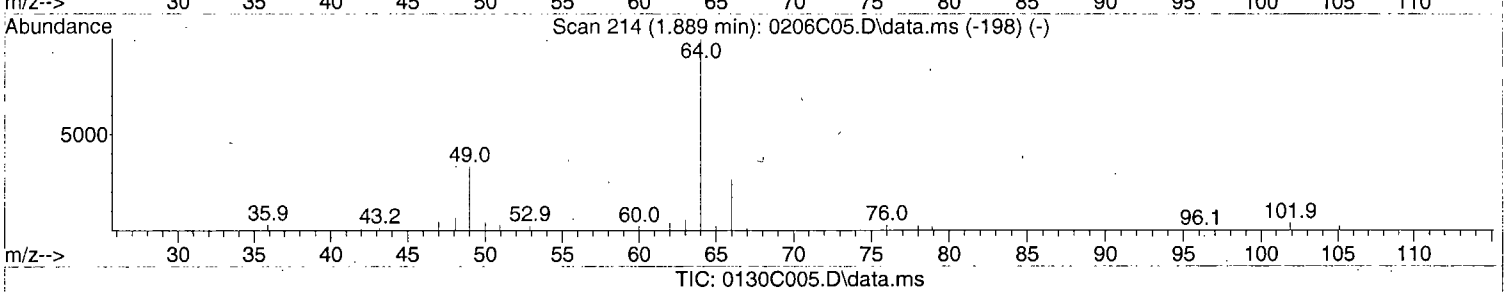
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C005.D\data.ms

(6) CHLOROETHANE (TMCP)

1.903min (+0.004) 0.59 ug/L

response 2666

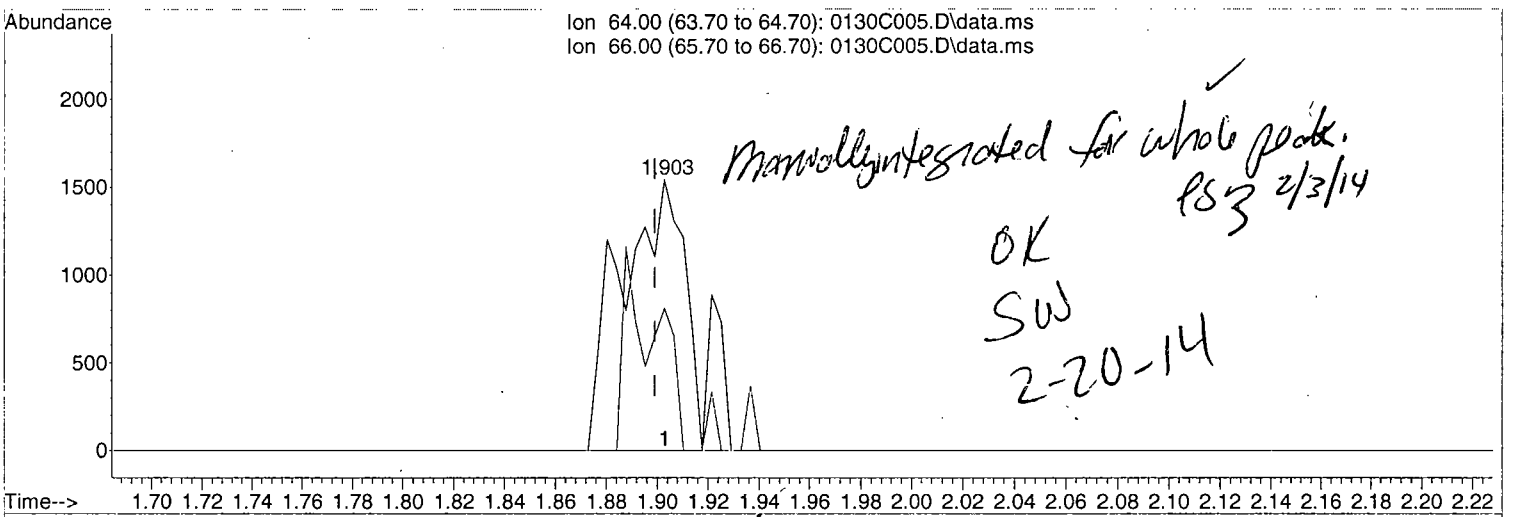
Ion	Exp%	Act%
64.00	100	100
66.00	31.20	20.07#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0362

Quantitation Report (Qedit)

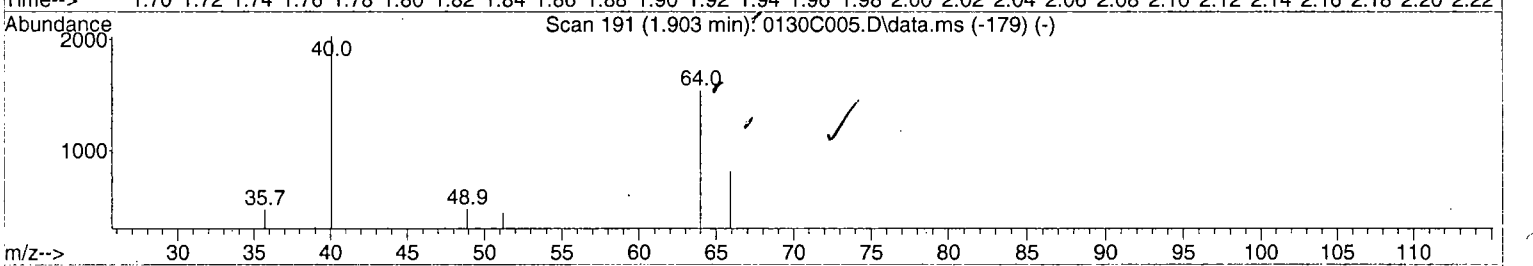
Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

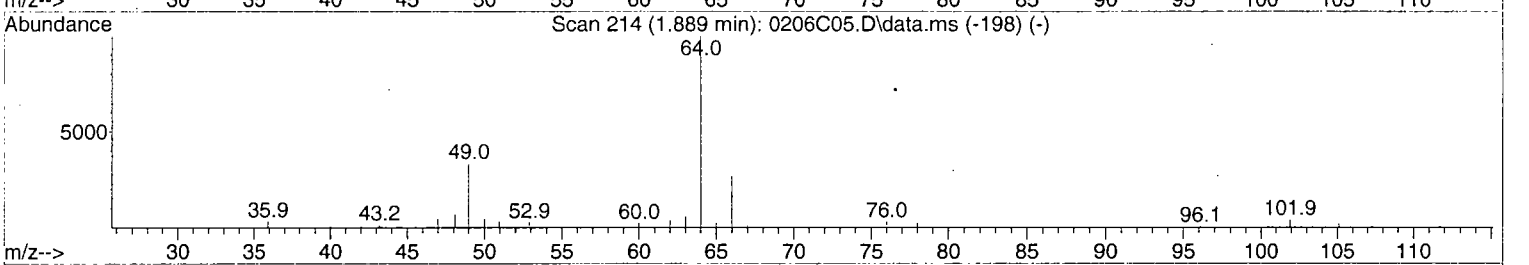
Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



Manually integrated for whole peak. RSZ 2/3/14

OK
SW
2-20-14





TIC: 0130C005.D\data.ms

(6) CHLOROETHANE (TMCP)

1.903min (+0.004) 0.68 ug/L m

response 3030

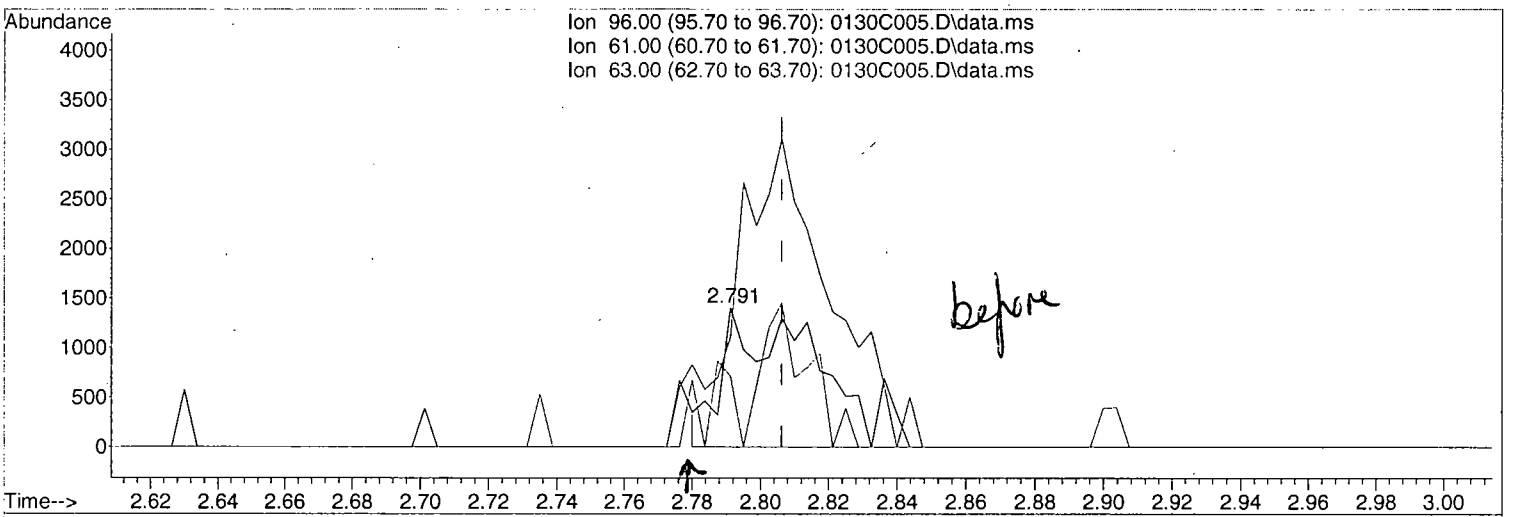
Ion	Exp%	Act%
64.00	100	100
66.00	31.20	17.66#
0.00	0.00	0.00
0.00	0.00	0.00

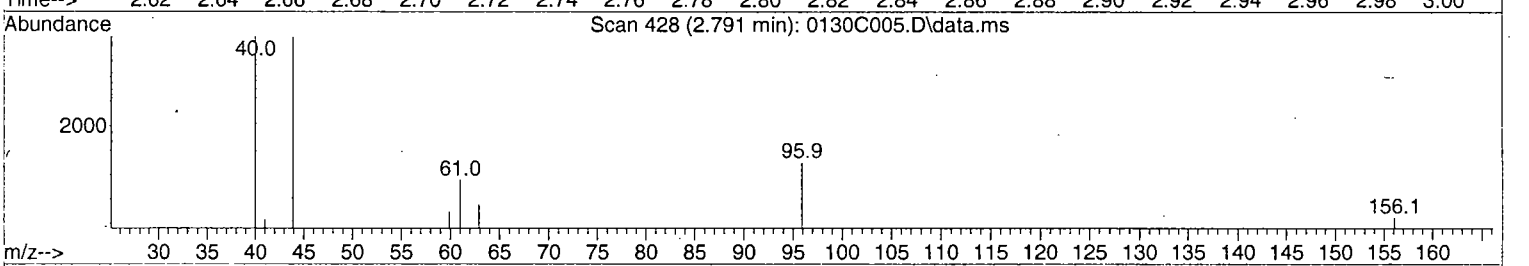
Freedom_0005792_0363

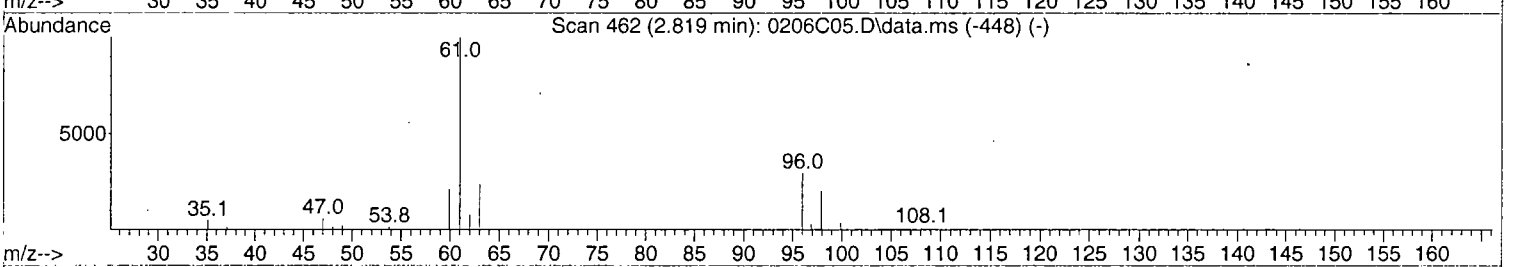
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C005.D\data.ms

(9) 1,1-DICHLOROETHENE (TMCP)

2.791min (-0.015) 0.55 ug/L

response 2732

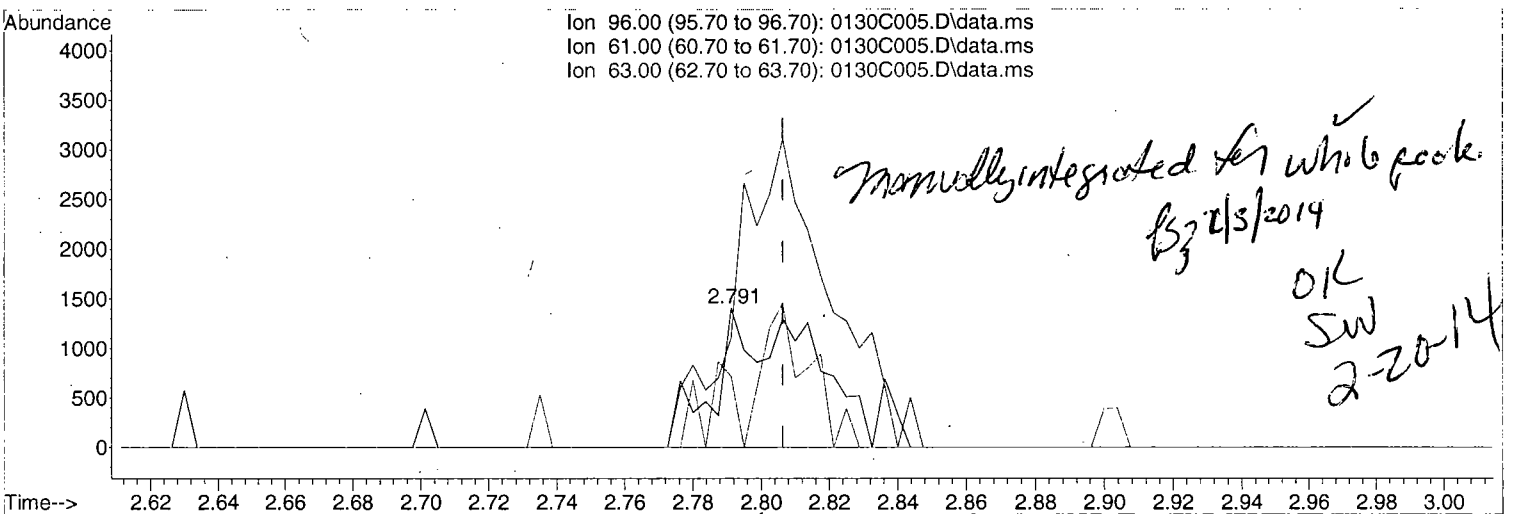
Ion	Exp%	Act%
96.00	100	100
61.00	173.00	0.00#
63.00	55.30	18.63#
0.00	0.00	0.00

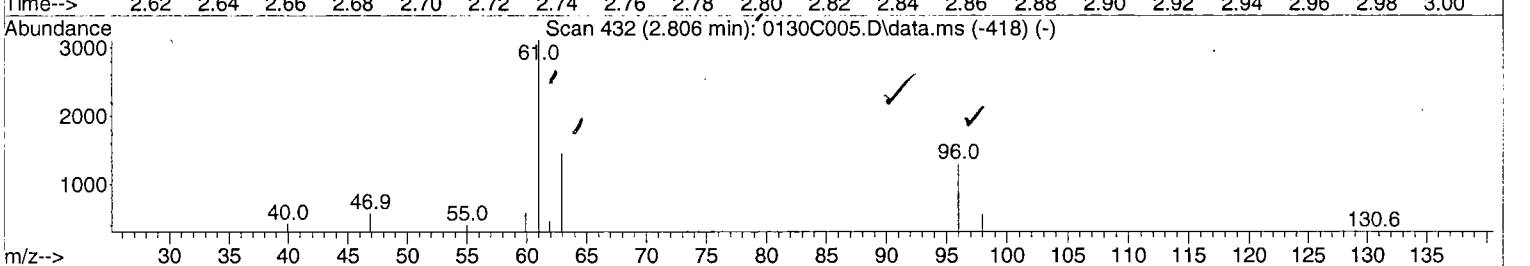
Freedom_0005792_0364

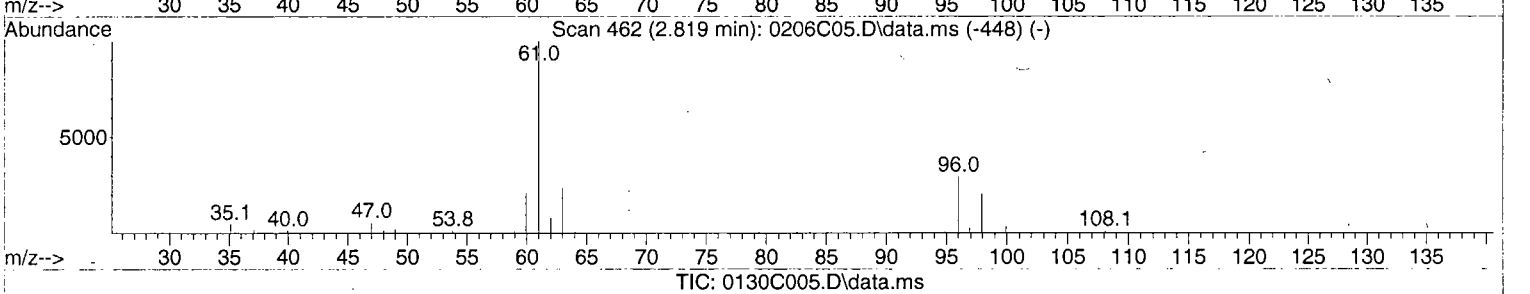
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C005.D\data.ms

(9) 1,1-DICHLOROETHENE (TMCP)

2.791min (-0.015) 0.59 ug/L m

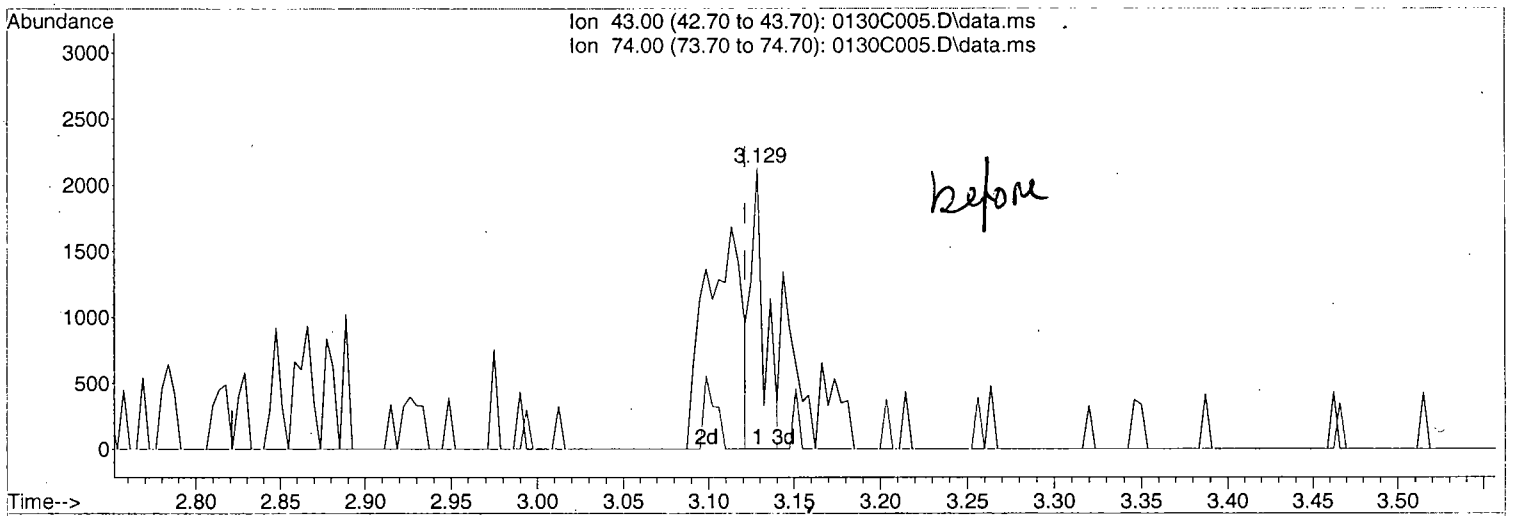
response 2963

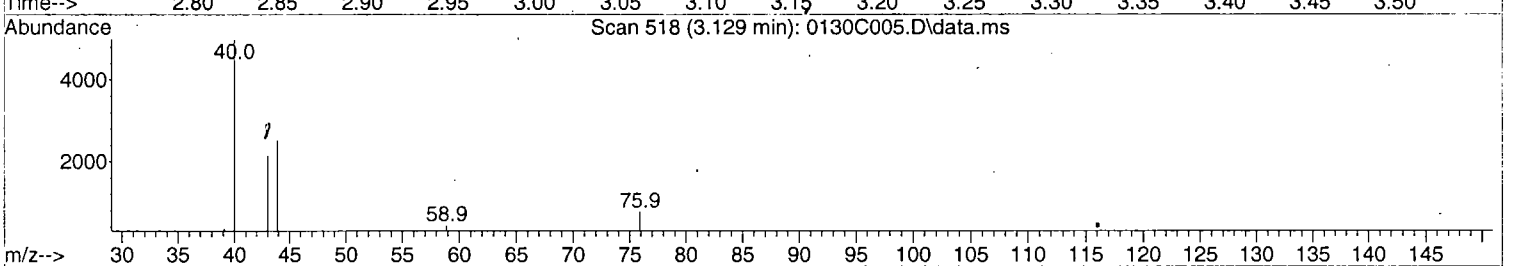
Ion	Exp%	Act%
96.00	100	100
61.00	173.00	0.00#
63.00	55.30	17.18#
0.00	0.00	0.00

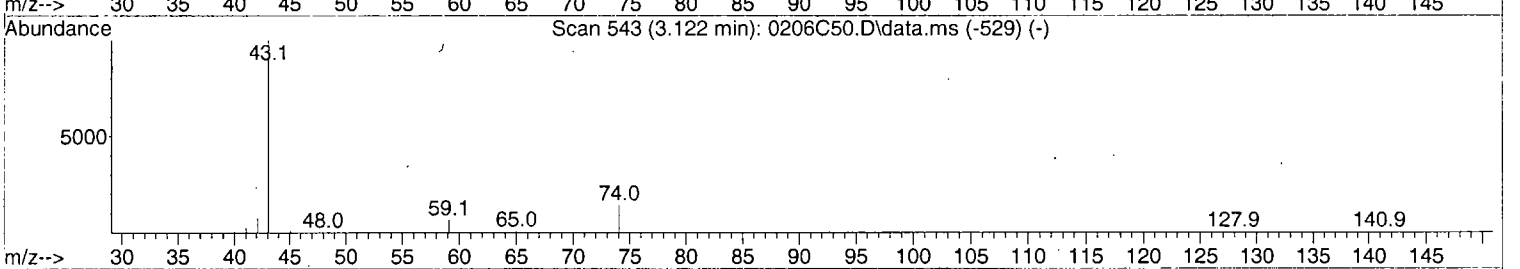
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C005.D\data.ms

(13) METHYL ACETATE (TMCP)

3.129min (+0.007) 0.15 ug/L

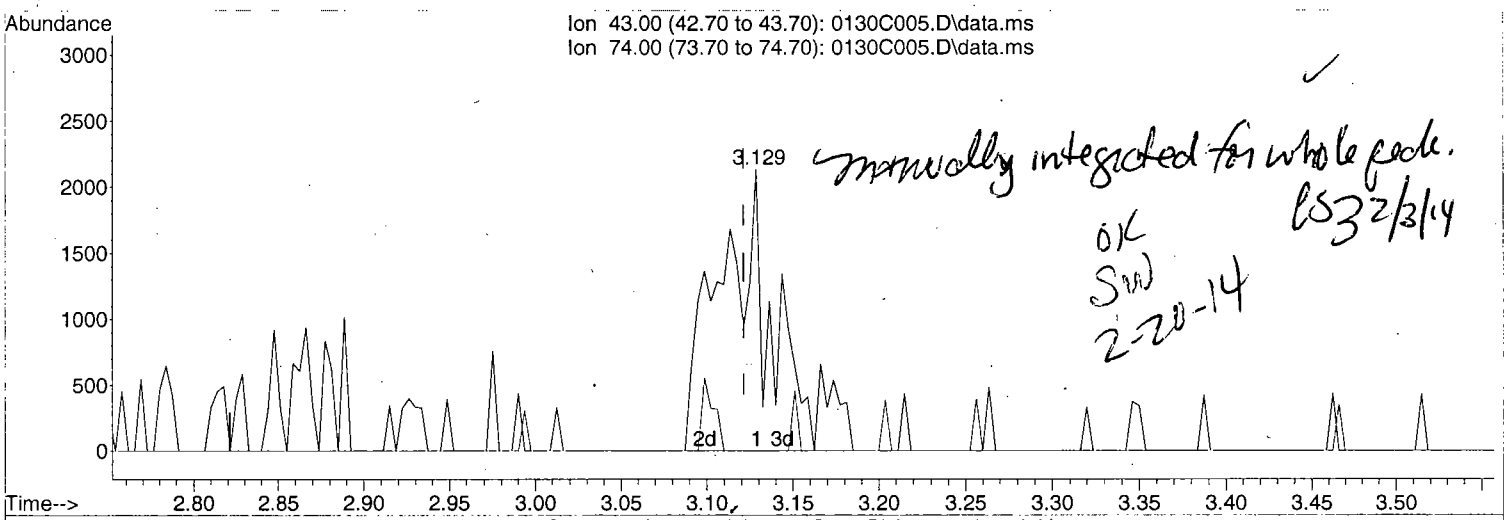
response 1175

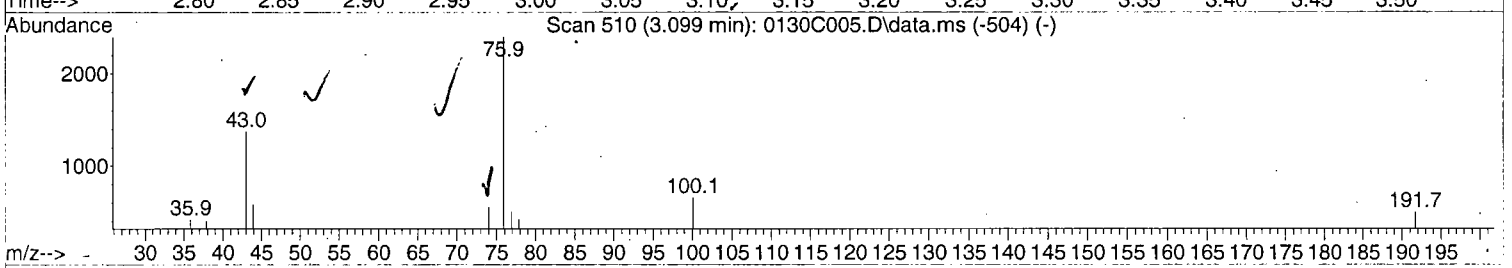
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

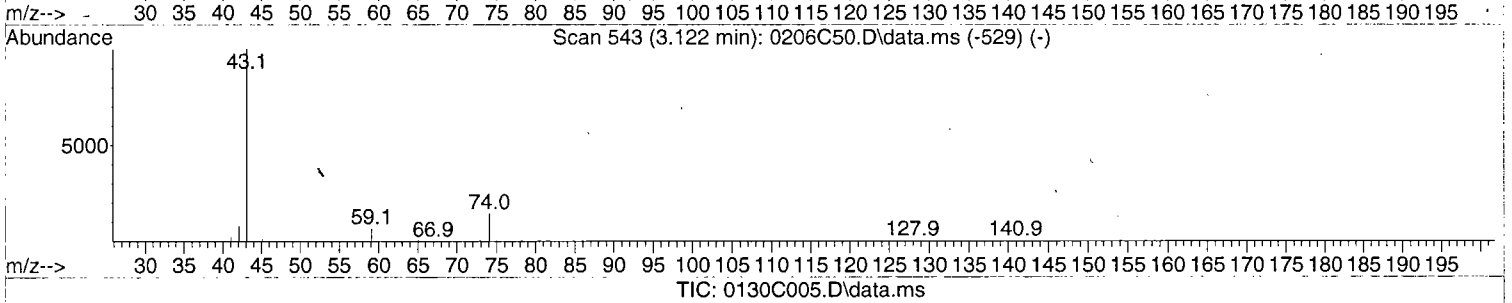
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







(13) METHYL ACETATE (TMCP)

3.129min (+0.007) 0.57 ug/L m

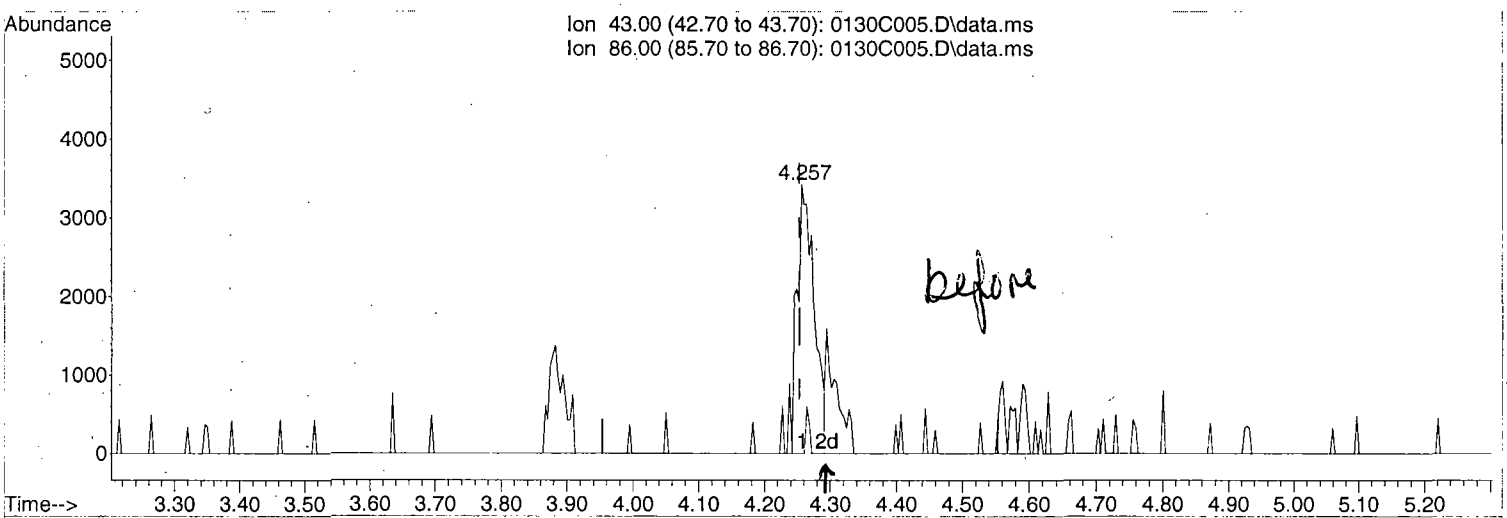
response 4449

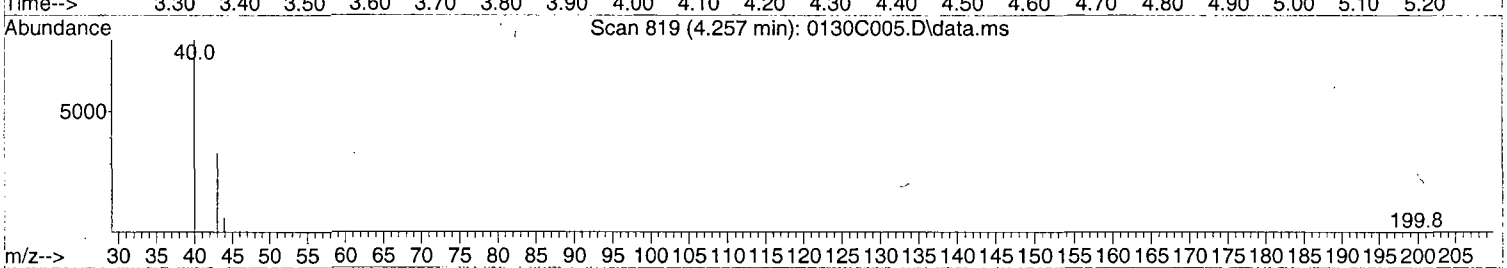
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

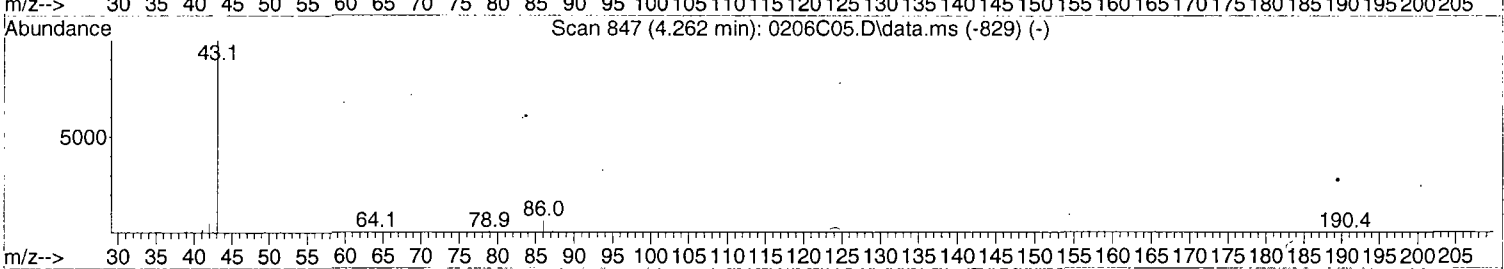
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37.
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C005.D\data.ms

(17) VINYL ACETATE (TMCP)

4.257min (+0.004) 0.42 ug/L

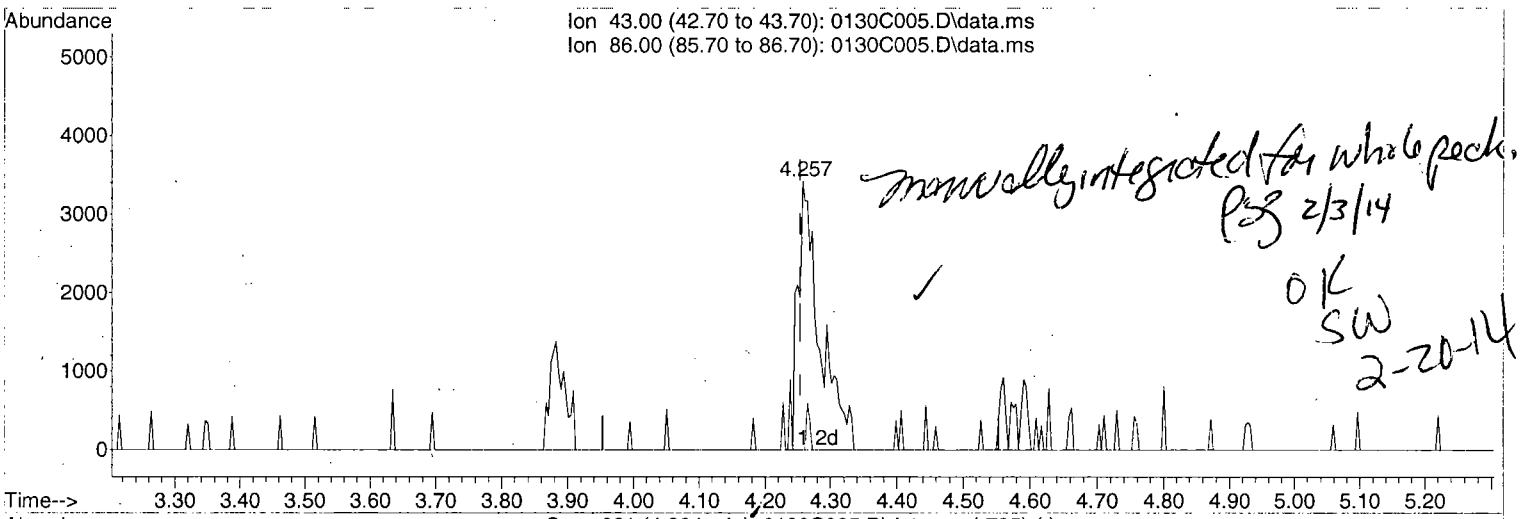
response 6339

Ion	Exp%	Act%
43.00	100	100
86.00	8.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

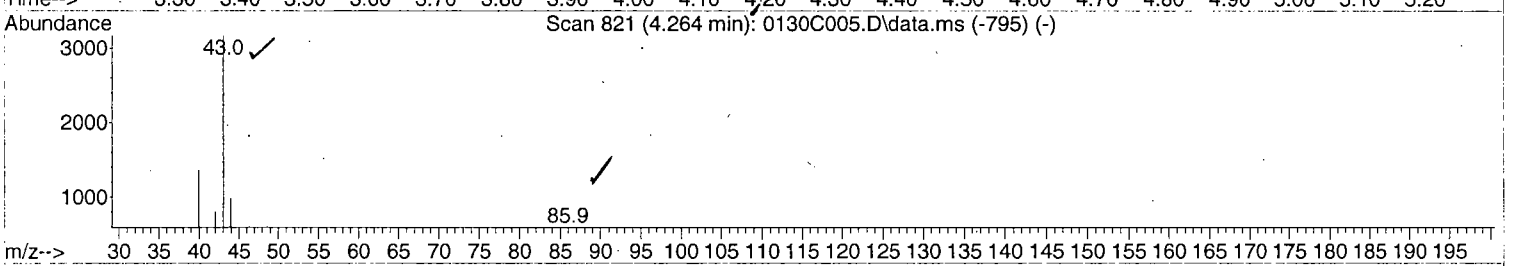
Quantitation Report (Qedit)

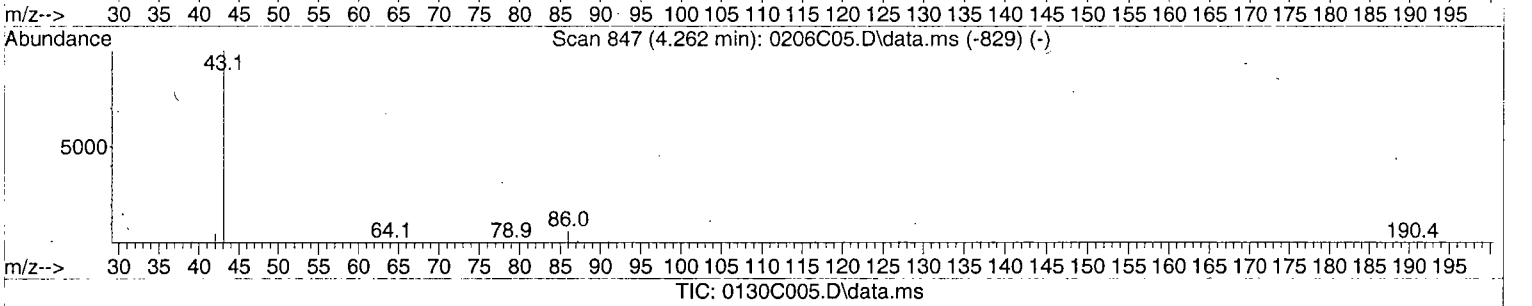
Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



manually integrated for whole peak. PJS 2/3/14
OK SW 2-20-14





TIC: 0130C005.D\data.ms

(17) VINYL ACETATE (TMCP)

4.257min (+0.004) 0.54 ug/L m

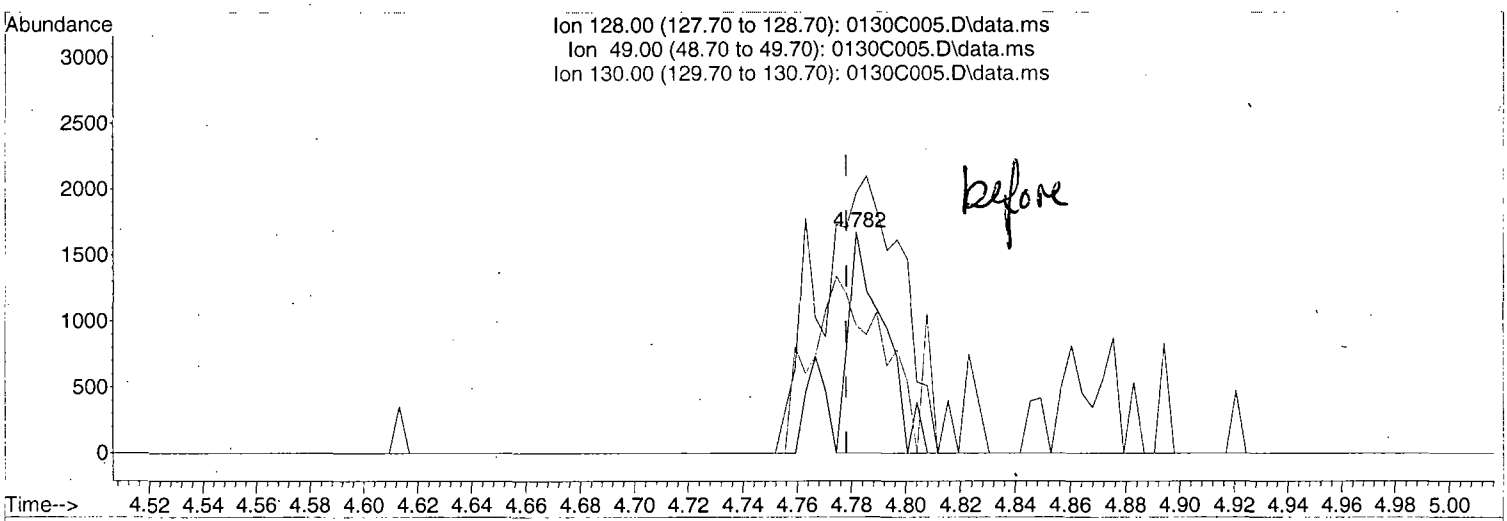
response 8186

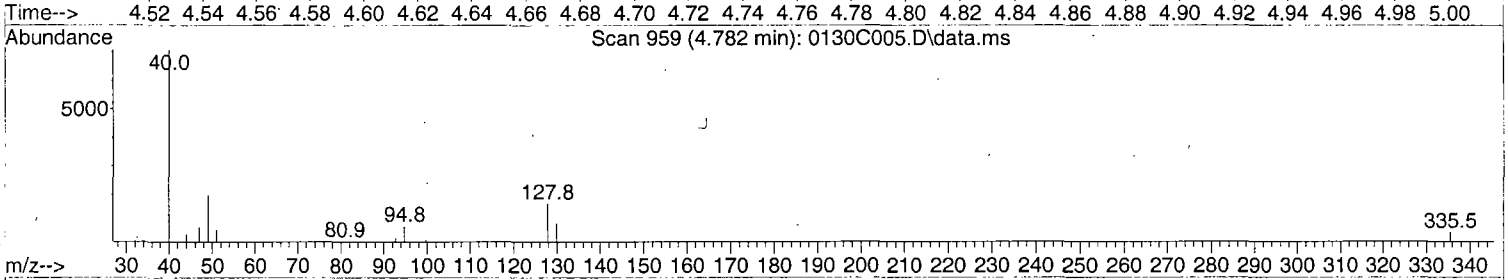
Ion	Exp%	Act%
43.00	100	100
86.00	8.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

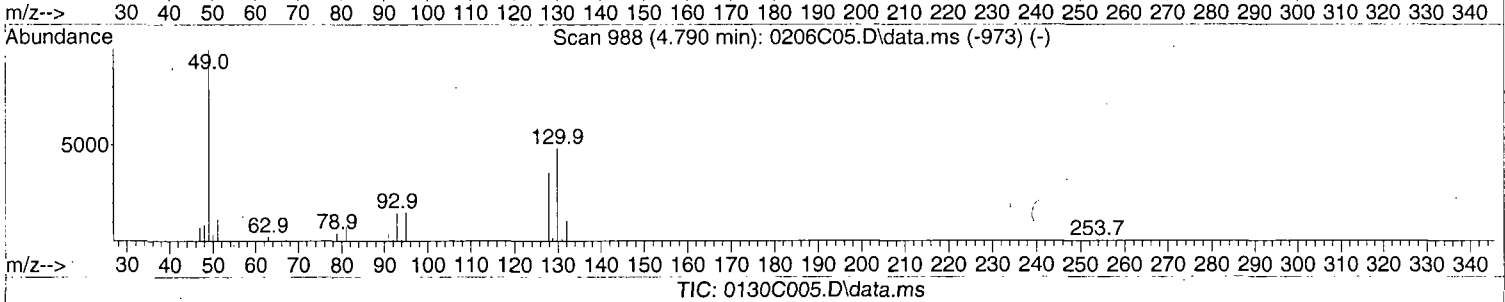
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C005.D\data.ms

(20) BROMOCHLOROMETHANE (TMCP)

4.782min (+0.004) 0.41 ug/L

response 1535

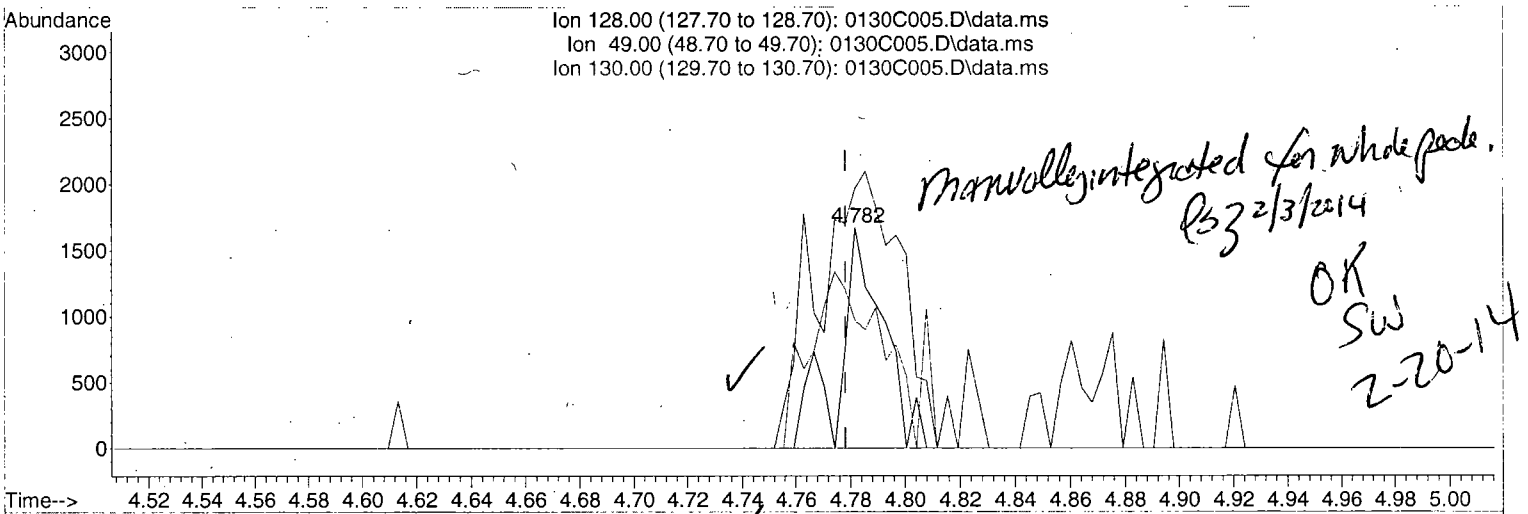
Ion	Exp%	Act%
128.00	100	100
49.00	154.70	220.13#
130.00	132.80	156.87
0.00	0.00	0.00

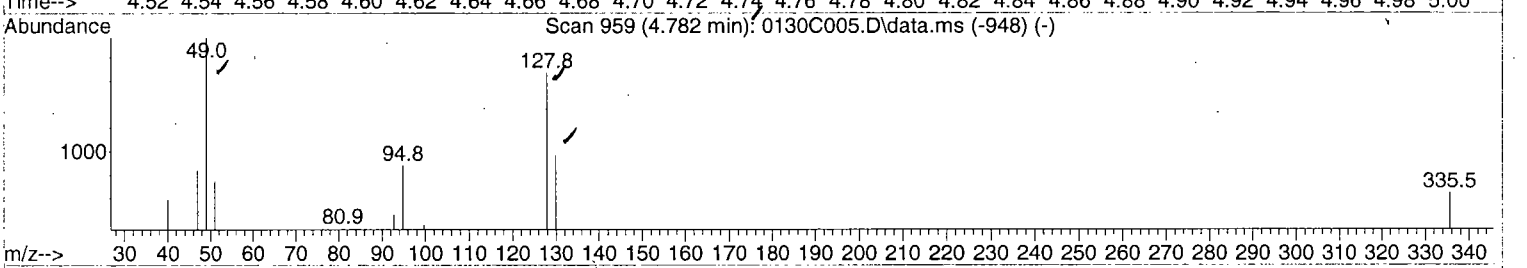
Freedom_0005792_0370

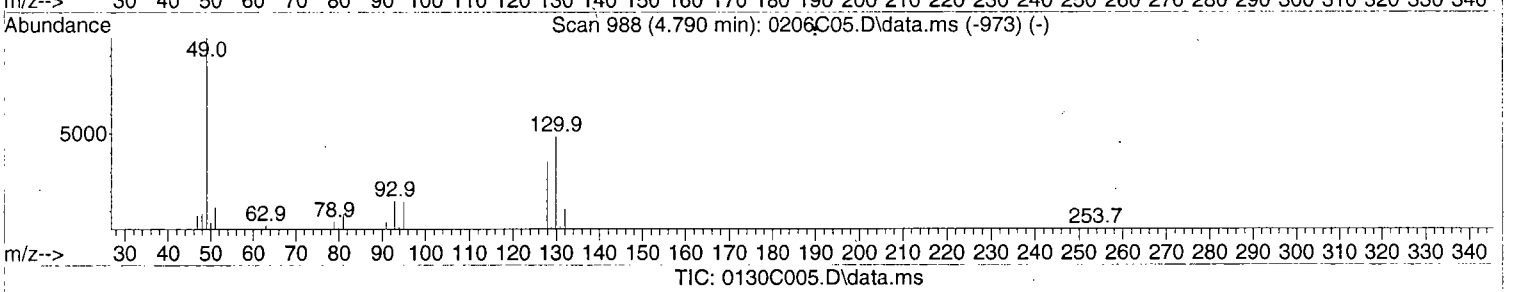
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C005.D\data.ms

(20) BROMOCHLOROMETHANE (TMCP)

4.782min (+0.004) 0.51 ug/L m

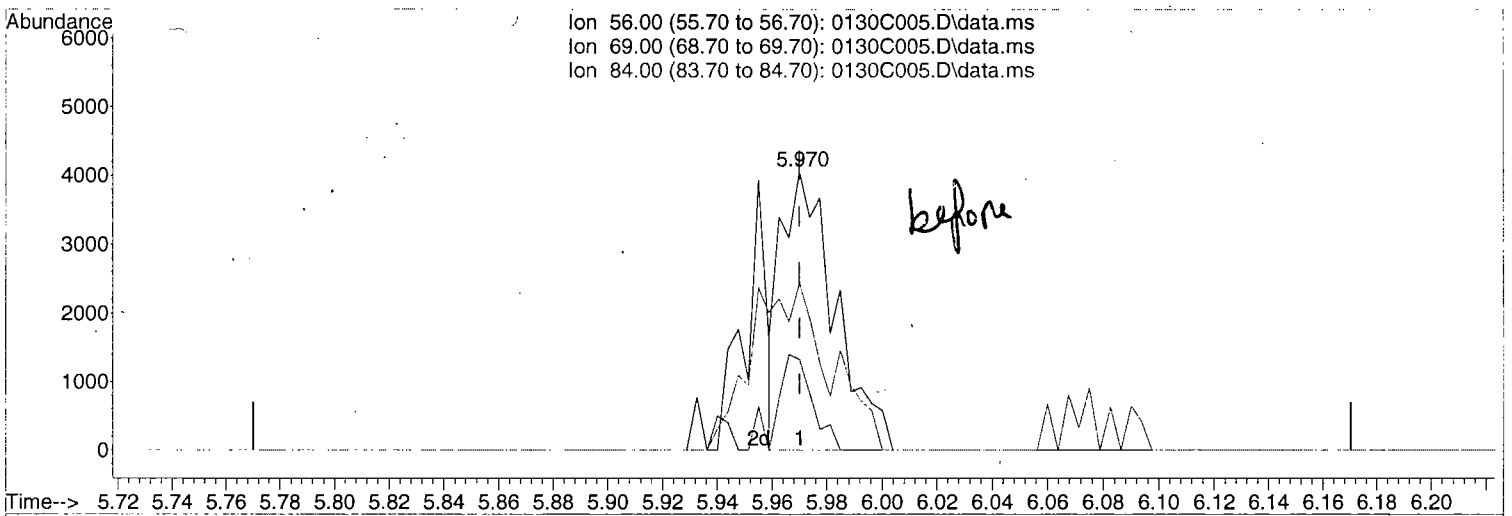
response 1908

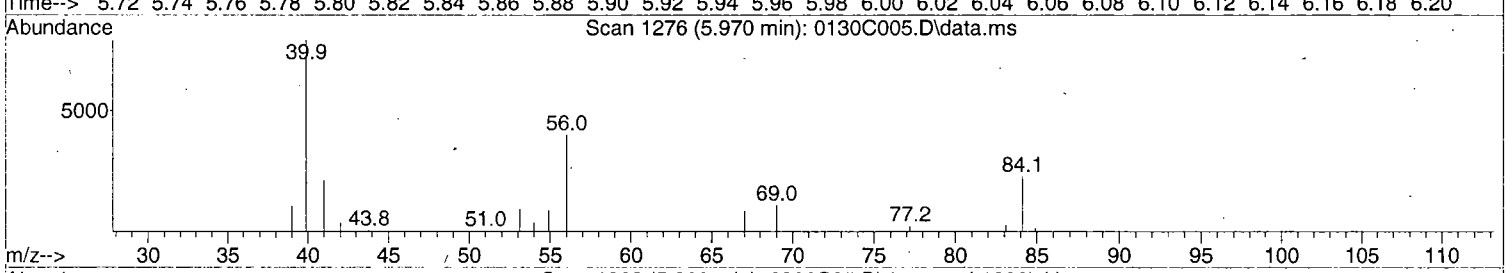
Ion	Exp%	Act%
128.00	100	100
49.00	154.70	177.10
130.00	132.80	126.21
0.00	0.00	0.00

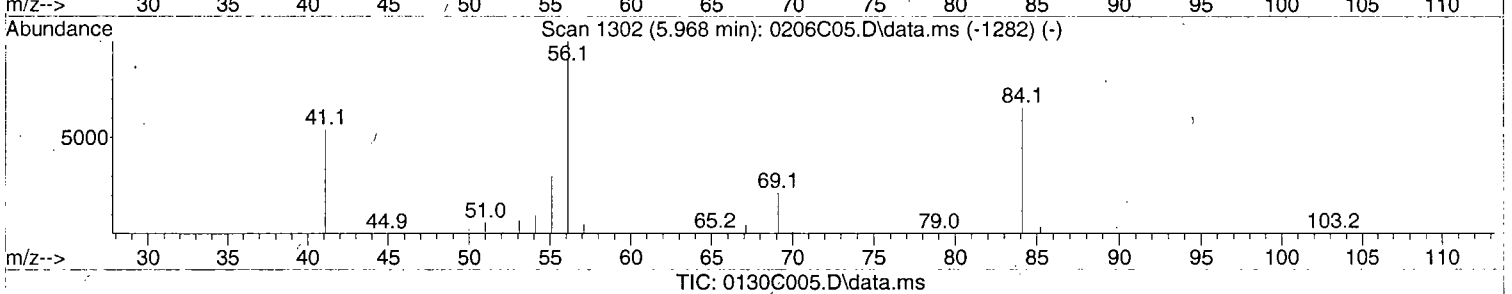
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C005.D\data.ms

(27) CYCLOHEXANE (TMCP)

5.970min (-0.000) 0.38 ug/L

response 5562

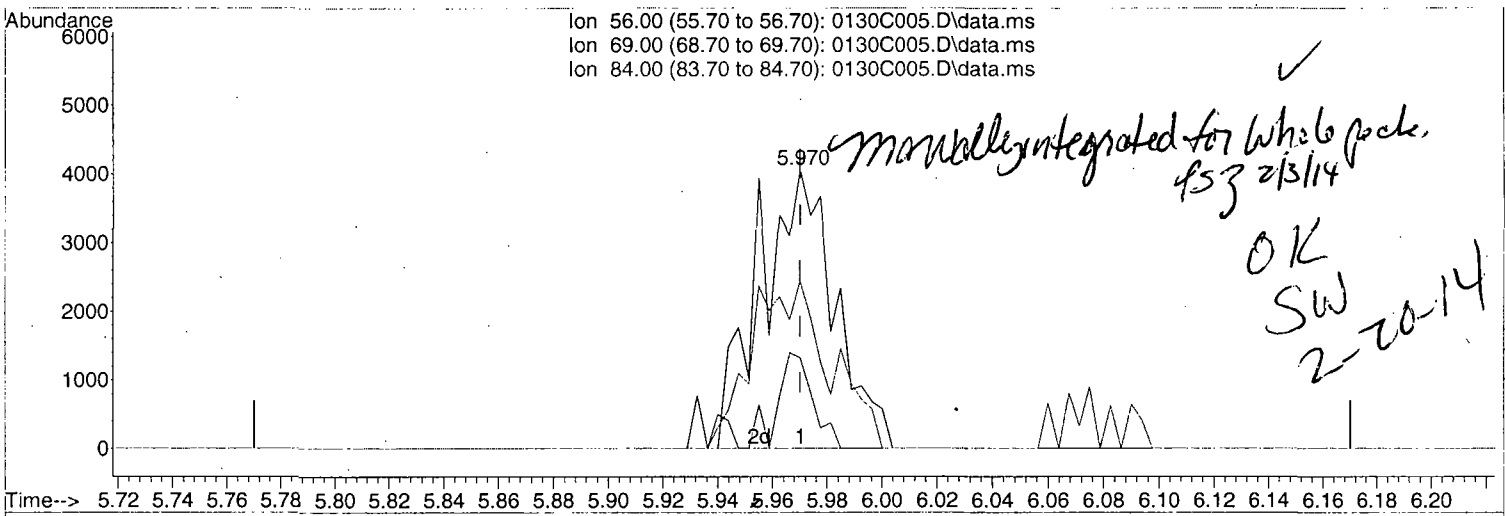
Ion	Exp%	Act%
56.00	100	100
69.00	29.60	22.82#
84.00	86.40	72.06
0.00	0.00	0.00

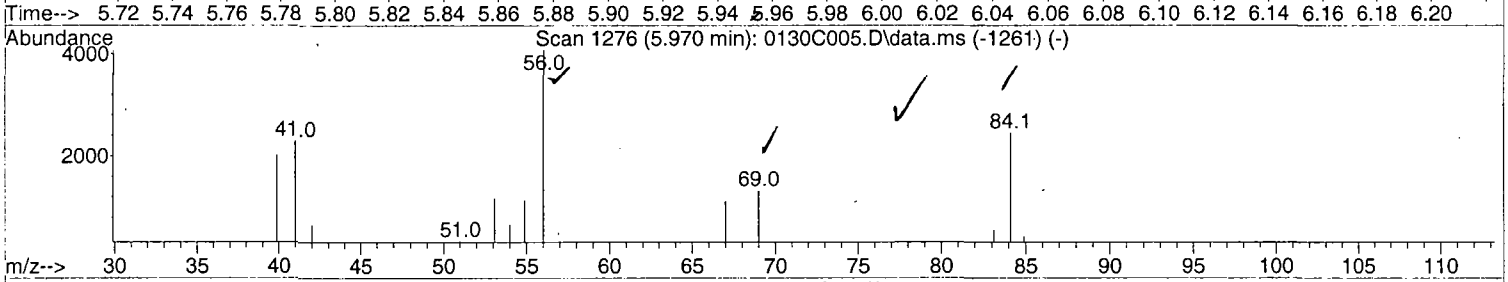
Freedom_0005792_0372

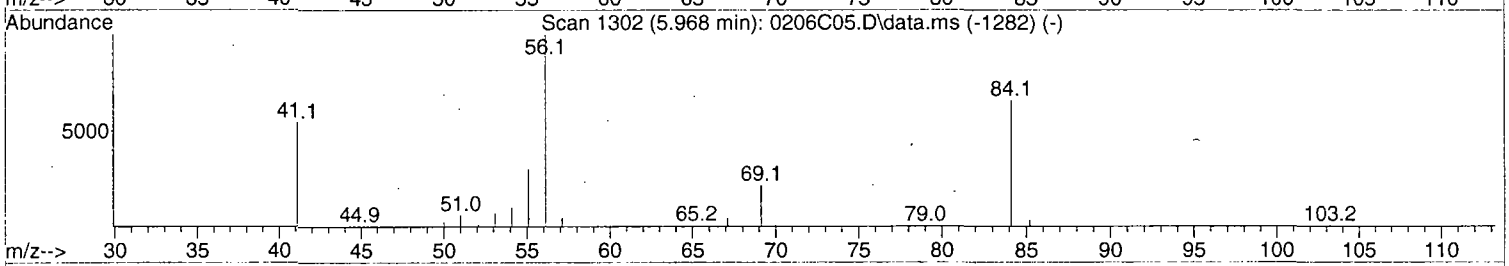
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C005.D\data.ms

(27) CYCLOHEXANE (TMCP)

5.970min (-0.000) 0.55 ug/L m

response 7954

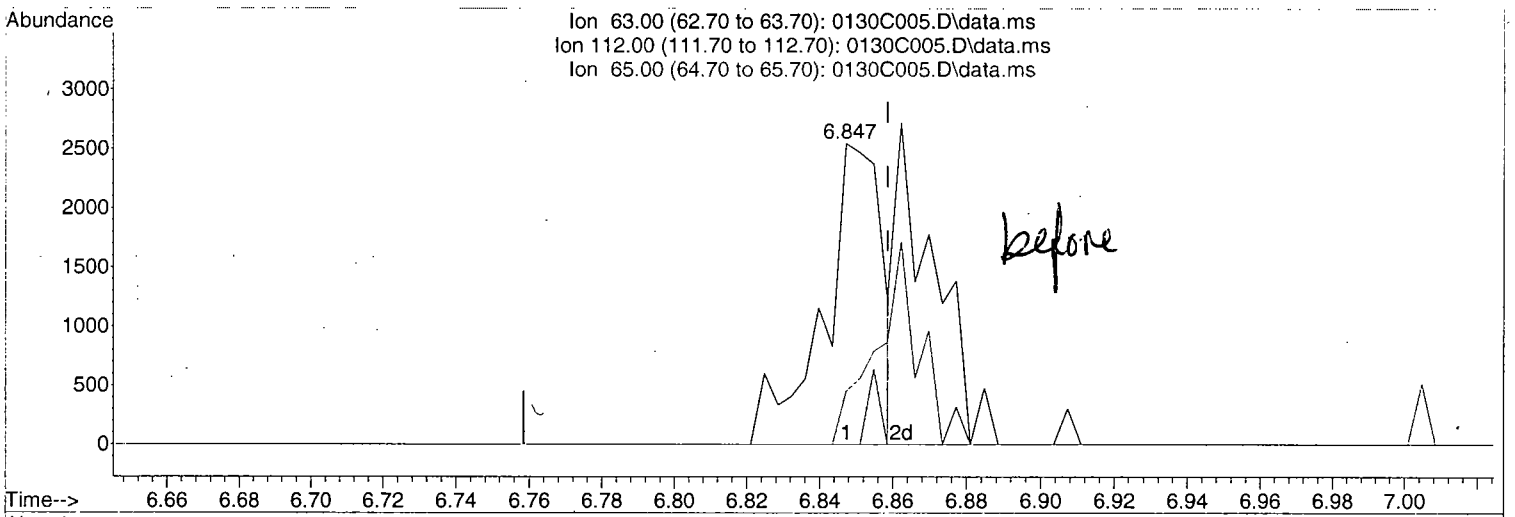
Ion	Exp%	Act%
56.00	100	100
69.00	29.60	15.95#
84.00	86.40	50.39#
0.00	0.00	0.00

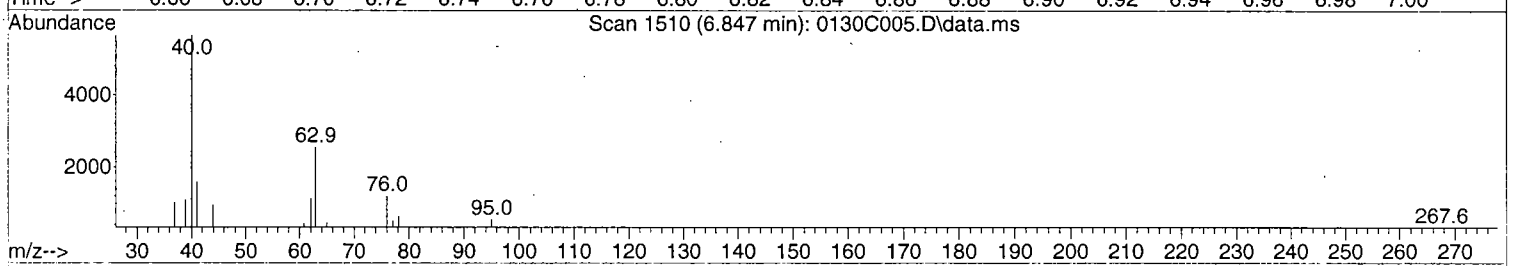
Freedom_0005792_0373

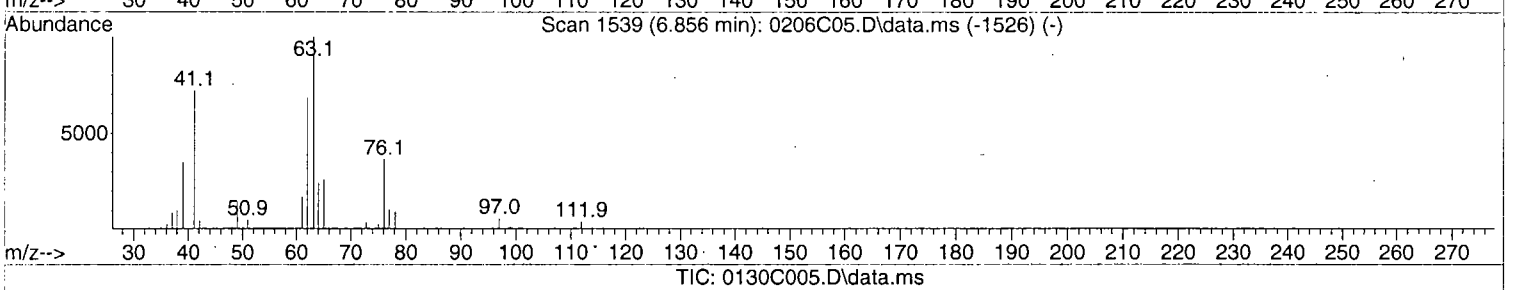
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C005.D\data.ms

(31) 1,2-DICHLOROPROPANE (TMCP)

6.847min (-0.011) 0.34 ug/L

response 2813

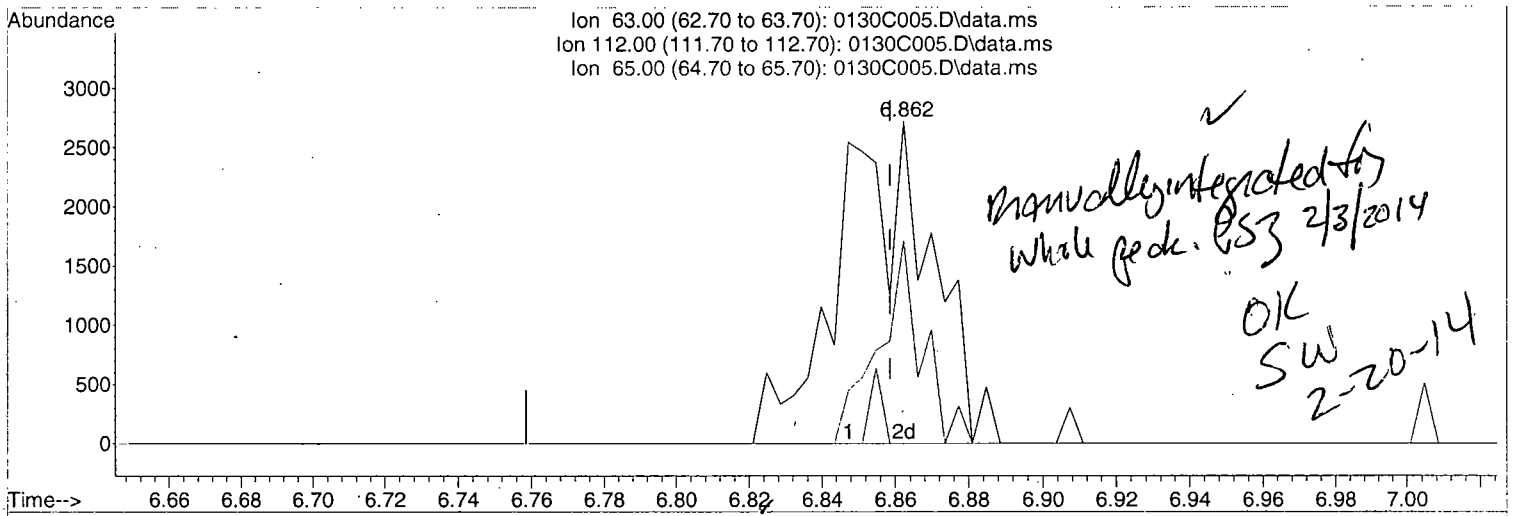
Ion	Exp%	Act%
63.00	100	100
112.00	4.40	0.00#
65.00	30.50	0.00#
0.00	0.00	0.00

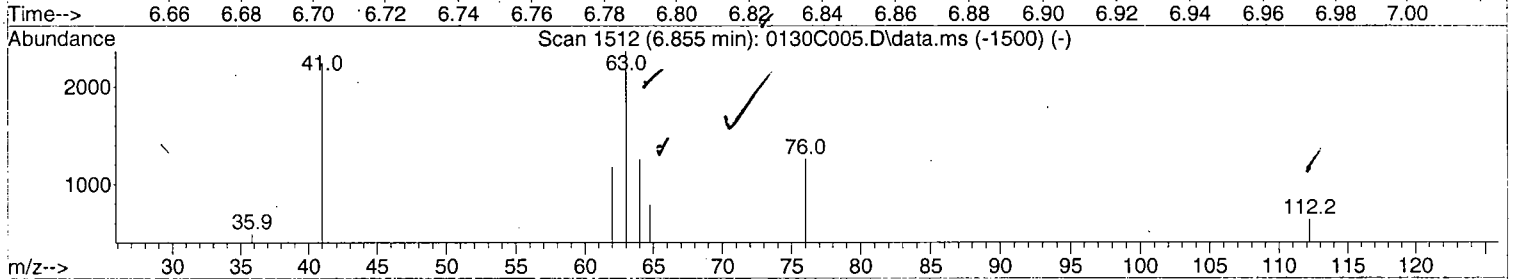
Freedom_0005792_0374

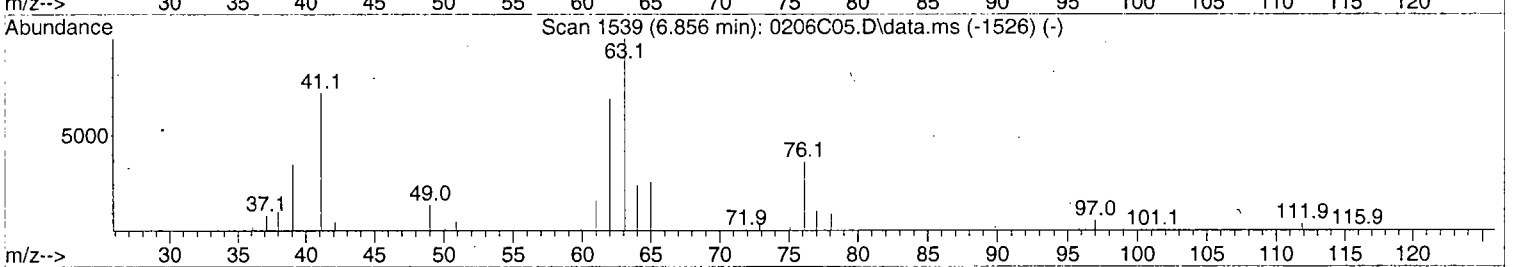
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C005.D\data.ms

(31) 1,2-DICHLOROPROPANE (TMCP)

6.862min (+0.004) 0.57 ug/L m

response 4820

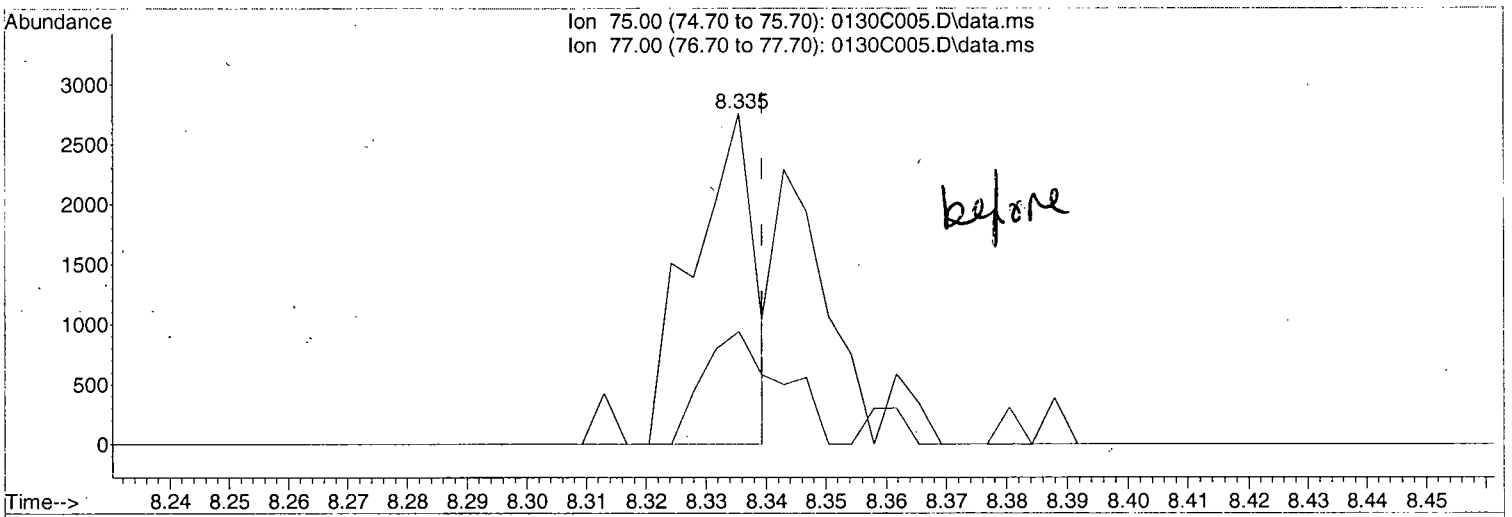
Ion	Exp%	Act%
63.00	100	100
112.00	4.40	0.00#
65.00	30.50	0.00#
0.00	0.00	0.00

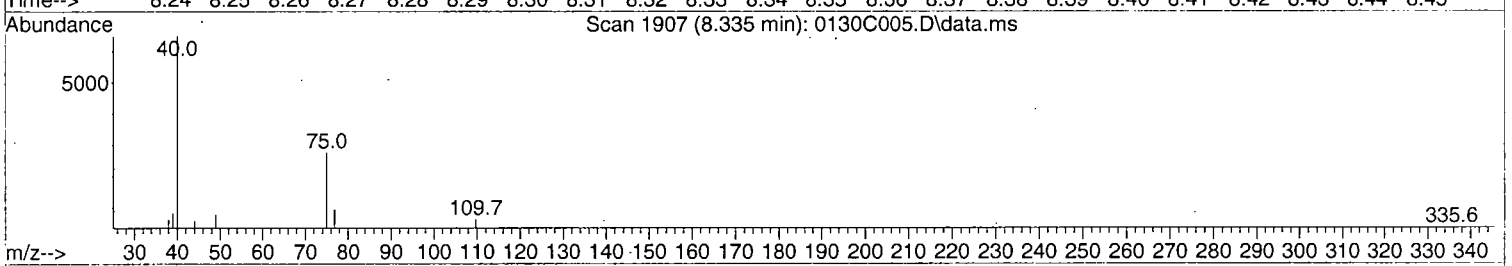
Freedom_0005792_0375

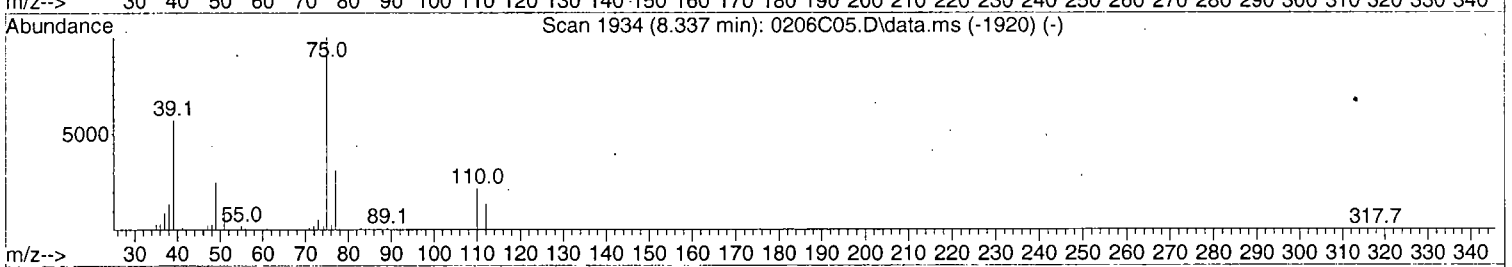
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C005.D\data.ms

(39) TRANS-1,3-DICHLOROPROPENE (TMCP)

8.335min (-0.004) 0.23 ug/L

response 2060

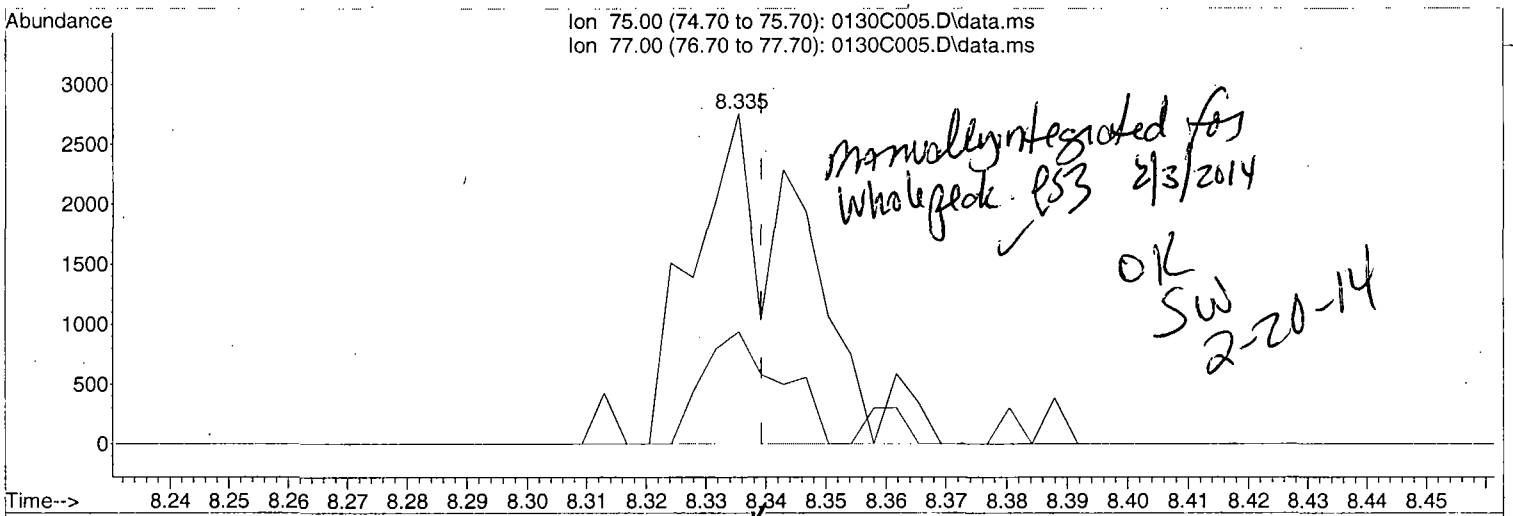
Ion	Exp%	Act%
75.00	100	100
77.00	31.60	41.75#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0376

Quantitation Report (Qedit)

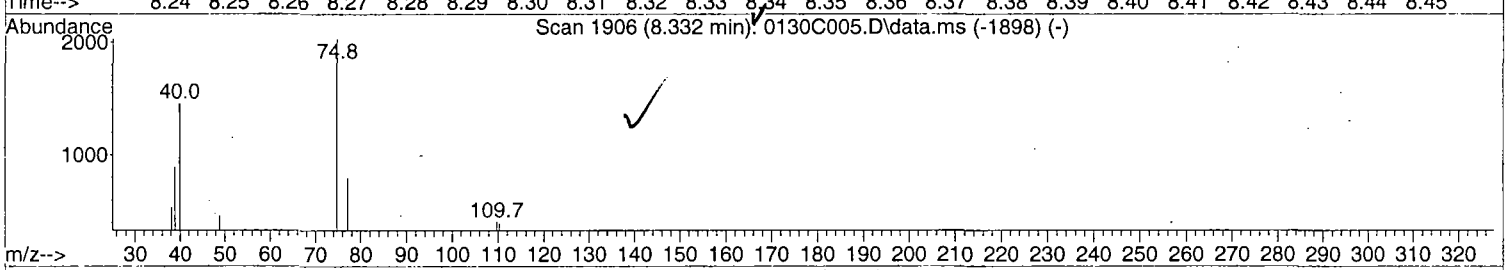
Data Path : D:\DATA\L01302014\
Data File : 0130C005.D
Acq On : 30 Jan 2014 9:37
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

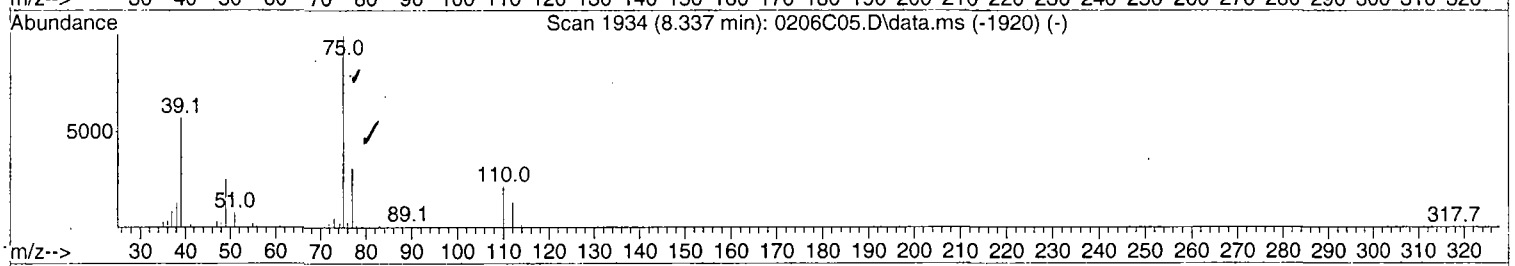
Quant Time: Jan 30 11:02:34 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



manually integrated for whole peak. PS3 2/3/2014

OK SW 2-20-14





TIC: 0130C005.D\data.ms

(39) TRANS-1,3-DICHLOROPROPENE (TMCP)

8.335min (-0.004) 0.40 ug/L m

response 3632

Ion	Exp%	Act%
75.00	100	100
77.00	31.60	23.68#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:13:12 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-DIFLUOROBENZENE	6.529	114	107388	5.00 ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	104807	5.00 ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	60595	5.00 ug/L	0.00
System Monitoring Compounds					
23) 1,2-DICHLOROETHANE-d4	5.501	65	60983	5.84 ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 116.80%#	
41) TOLUENE-d8	8.620	98	132469	4.91 ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 98.20%	
59) 4-BROMOFLUOROBENZENE	11.645	95	53272	4.64 ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 92.80%	
Target Compounds					Qvalue
2) DICHLORODIFLUOROMETHANE	1.307	85	12192	1.24 ug/L	100
3) CHLOROMETHANE	1.427	50	12836m	1.18 ug/L	
4) VINYL CHLORIDE	1.539	62	8481	1.06 ug/L	91
5) BROMOMETHANE	1.783	94	5453m	1.35 ug/L	
6) CHLOROETHANE	1.884	64	4967m	1.05 ug/L	
7) TRICHLOROFLUOROMETHANE	2.330	101	18296	1.18 ug/L	93
8) ACETONE	2.484	43	2740	0.58 ug/L #	47
9) 1,1-DICHLOROETHENE	2.802	96	5917	1.13 ug/L #	56
10) METHYLENE CHLORIDE	2.975	84	12562m	1.69 ug/L	
11) Freon 113	3.057	101	10299	1.31 ug/L #	47
12) CARBON DISULFIDE	3.091	76	25795	1.16 ug/L #	86
13) METHYL ACETATE	3.132	43	8664m	1.06 ug/L	
14) TRANS-1,2-DICHLOROETHENE	3.687	96	9325m	1.25 ug/L	
15) METHYL-TERT-BUTYL ETHER	3.882	73	17977	0.98 ug/L #	84
16) 1,1-DICHLOROETHANE	3.968	63	20859m	1.33 ug/L	
17) VINYL ACETATE	4.249	43	16142m	1.01 ug/L	
18) 2-BUTANONE	4.583	43	3055	0.59 ug/L #	64
19) CIS-1,2-DICHLOROETHENE	4.617	96	9171	1.13 ug/L #	67
20) BROMOCHLOROMETHANE	4.782	128	4712m	1.19 ug/L	
21) CHLOROFORM	4.864	83	18654	1.25 ug/L	94
22) 2,2-DICHLOROPROPANE	4.932	77	10115	1.08 ug/L	96
24) 1,2-DICHLOROETHANE	5.595	62	19291	1.40 ug/L #	88
25) 1,1,1-TRICHLOROETHANE	5.674	97	12904	1.12 ug/L	94
26) 1,1-DICHLOROPROPENE	5.921	75	10972	1.06 ug/L #	82
27) CYCLOHEXANE	5.963	56	14257	0.94 ug/L #	85
28) CARBON TETRACHLORIDE	6.068	117	13383	1.27 ug/L	92
29) BENZENE	6.146	78	36616	1.13 ug/L	93
30) DIBROMOMETHANE	6.791	93	6003	1.13 ug/L #	76
31) 1,2-DICHLOROPROPANE	6.858	63	10663	1.21 ug/L #	95
32) TRICHLOROETHENE	6.915	130	11831	1.22 ug/L	93
33) BROMODICHLOROMETHANE	6.956	83	11378	1.03 ug/L	95
34) METHYLCYCLOHEXANE	7.484	83	12653	0.96 ug/L #	81
35) 2-CHLOROETHYLVINYL ETHER	7.604	63	4194	0.88 ug/L #	88
36) CIS-1,3-DICHLOROPROPENE	7.784	75	11570	1.07 ug/L	97
38) 4-METHYL-2-PENTANONE	8.002	43	6528	0.65 ug/L #	65
39) TRANS-1,3-DICHLOROPROPENE	8.339	75	8839m	0.95 ug/L	
40) 1,1,2-TRICHLOROETHANE	8.474	97	8931	1.18 ug/L	96
42) TOLUENE	8.699	92	22381	1.09 ug/L	96
43) 1,3-DICHLOROPROPANE	8.770	76	19189	1.28 ug/L	90
44) CHLORODIBROMOMETHANE	9.010	129	7685	0.99 ug/L #	94
45) 2-HEXANONE	9.089	43	6276	0.88 ug/L #	56
46) 1,2-DIBROMOETHANE (EDB)	9.310	107	7664	1.01 ug/L #	98

Freedom_0005792_0378

Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:13:12 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47)	TETRACHLOROETHENE	9.554	164	8703	1.23	ug/L		93
48)	1,1,1,2-TETRACHLOROETHANE	10.296	131	8070	1.07	ug/L		91
49)	CHLOROBENZENE	10.371	112	23787	1.02	ug/L		96
50)	ETHYLBENZENE	10.652	91	32752	0.86	ug/L		98
51)	BROMOFORM	10.870	173	5123	0.99	ug/L	#	65
52)	M-XYLENE/P-XYLENE	10.888	106	24629	1.69	ug/L		99
53)	STYRENE	11.207	104	42075	1.74	ug/L		95
54)	O-XYLENE	11.274	106	30235	1.88	ug/L		96
55)	ISOPROPYLBENZENE	11.653	105	34277	0.82	ug/L		96
57)	1,1,2,2-TETRACHLOROETHANE	11.259	83	7913	1.10	ug/L	#	94
58)	1,2,3-TRICHLOROPROPANE	11.406	75	10642	1.16	ug/L		96
60)	BROMOBENZENE	11.803	156	11116	1.07	ug/L	#	81
61)	N-PROPYLBENZENE	12.062	91	36794	0.76	ug/L		99
62)	2-CHLOROTOLUENE	12.103	91	28164	0.95	ug/L	#	83
63)	4-CHLOROTOLUENE	12.178	91	29406	0.92	ug/L		89
64)	1,3,5-TRIMETHYLBENZENE	12.361	105	28206	0.88	ug/L		93
65)	TERT-BUTYLBENZENE	12.568	119	22452	0.83	ug/L		88
66)	1,2,4-TRIMETHYLBENZENE	12.684	105	29088	0.85	ug/L		98
67)	SEC-BUTYLBENZENE	12.755	105	39037	0.83	ug/L		95
68)	1,3-DICHLOROBENZENE	12.770	146	20905	0.91	ug/L		89
69)	1,4-DICHLOROBENZENE	12.830	146	24169	1.05	ug/L		95
70)	P-ISOPROPYLTOLUENE	12.939	119	29078	0.81	ug/L	#	92
71)	1,2-DICHLOROBENZENE	13.107	146	20163	0.95	ug/L		100
72)	N-BUTYLBENZENE	13.265	91	28428	0.76	ug/L		90
73)	1,2-DIBROMO-3-CHLOROPR...	13.494	75	1228	0.81	ug/L	#	81
74)	1,2,4-TRICHLOROBENZENE	14.554	180	14183	0.92	ug/L	#	91
75)	NAPHTHALENE	14.727	128	21191	0.68	ug/L		95
76)	HEXACHLOROBUTADIENE	14.806	225	7528	0.90	ug/L	#	89
77)	1,2,3-TRICHLOROBENZENE	14.877	180	12305	0.80	ug/L	#	81

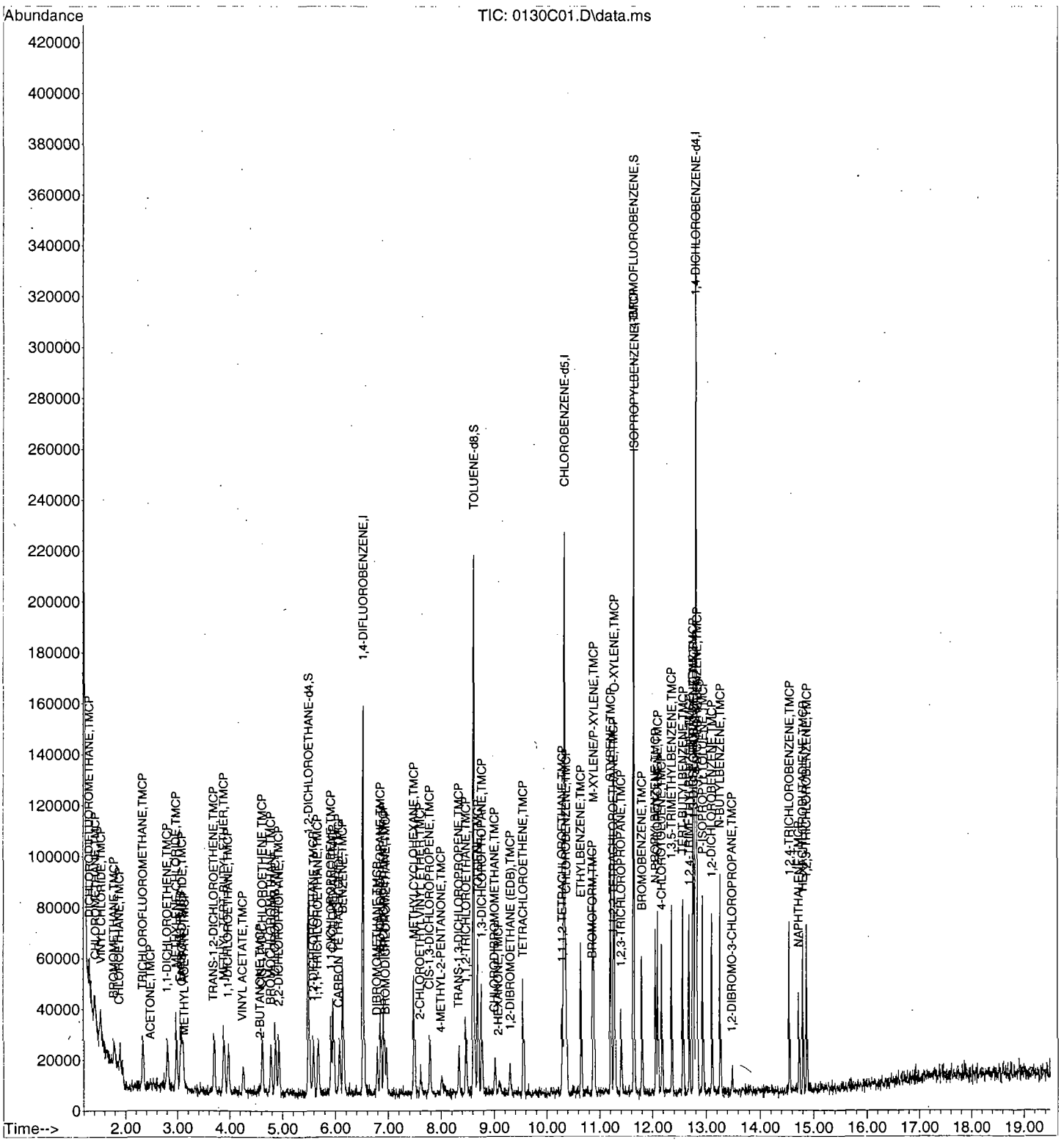
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0379

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:13:12 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration

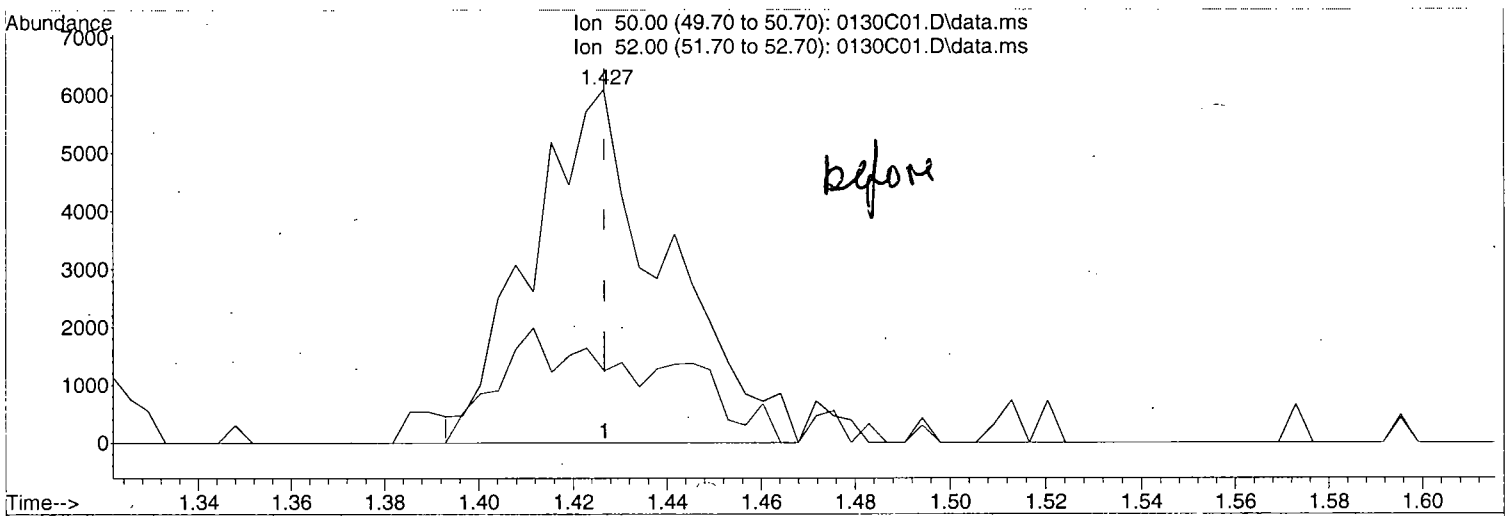


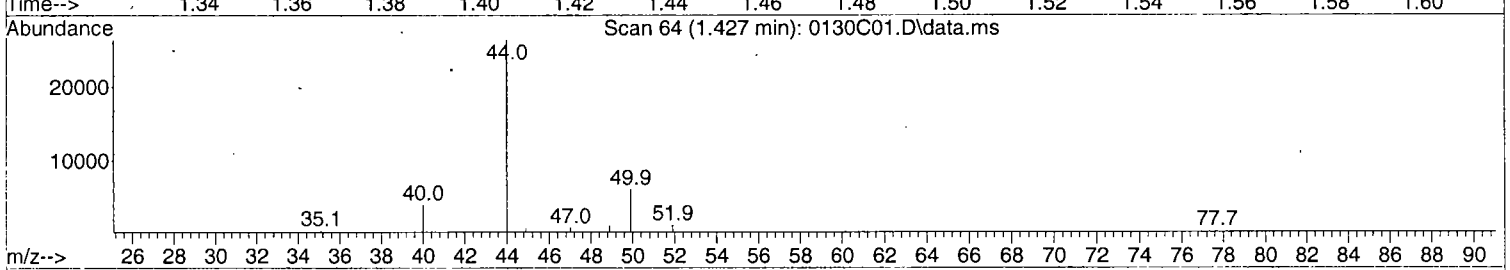
Freedom_0005792_0380

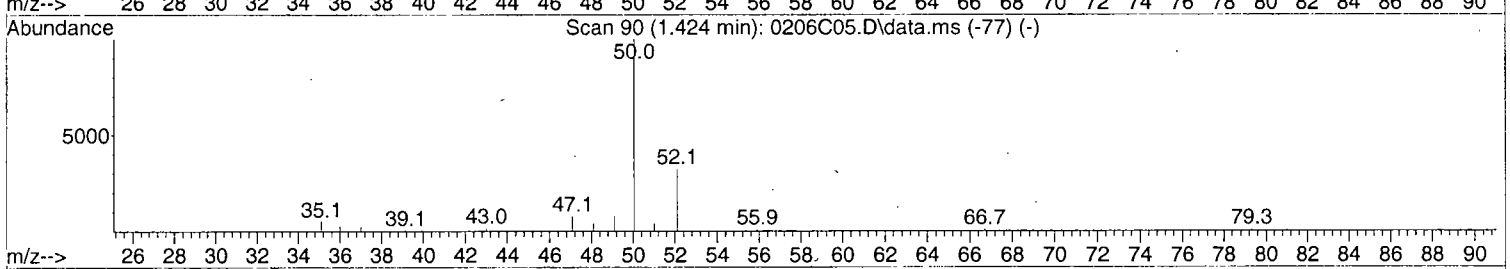
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C01.D\data.ms

(3) CHLOROMETHANE (TMCP)

1.427min (-0.000) 1.11 ug/L

response 12043

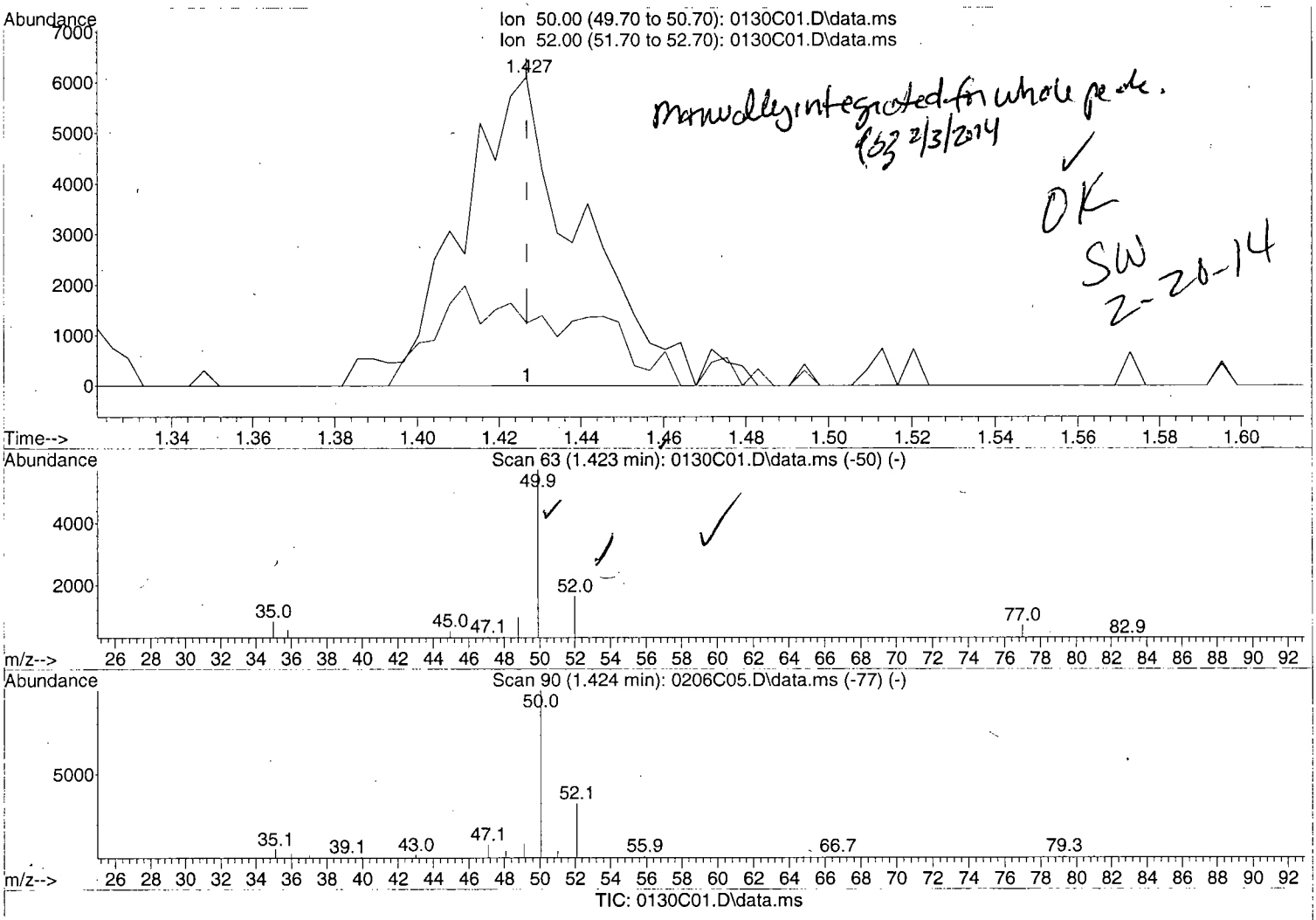
Ion	Exp%	Act%
50.00	100	100
52.00	31.20	25.89
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0381

Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



manually integrated for whole peak.
KG 2/3/2014

OK
SW
2-20-14

(3) CHLOROMETHANE (TMCP)

1.427min (-0.000) 1.18 ug/L m

response 12836

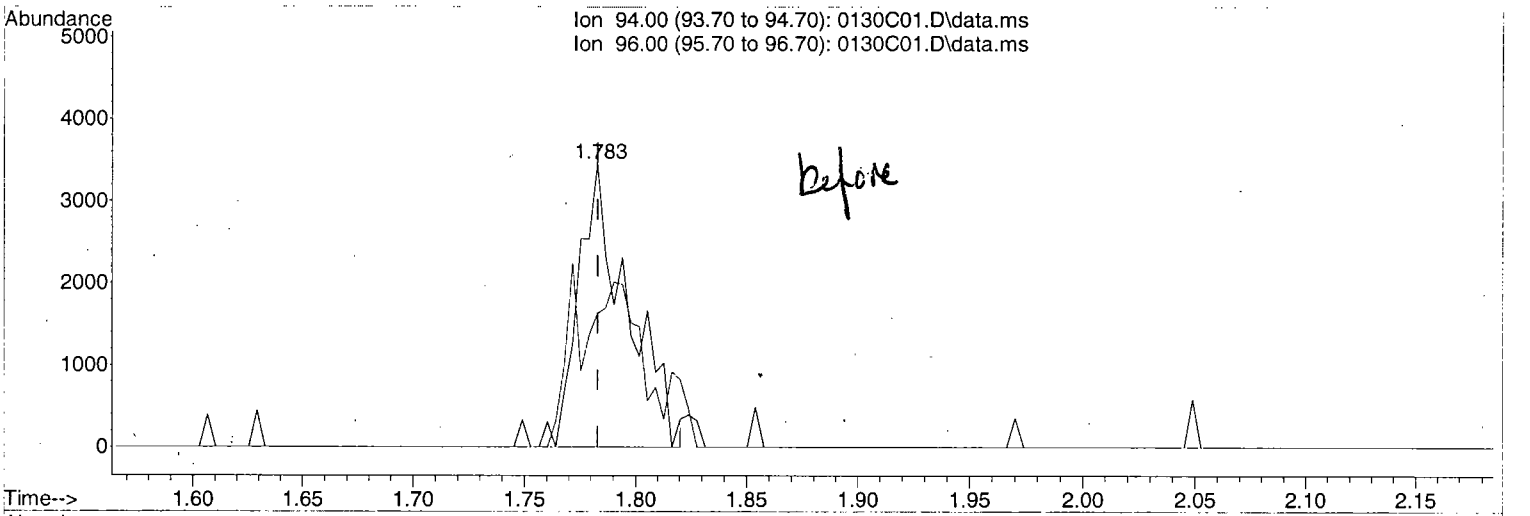
Ion	Exp%	Act%
50.00	100	100
52.00	31.20	24.29#
0.00	0.00	0.00
0.00	0.00	0.00

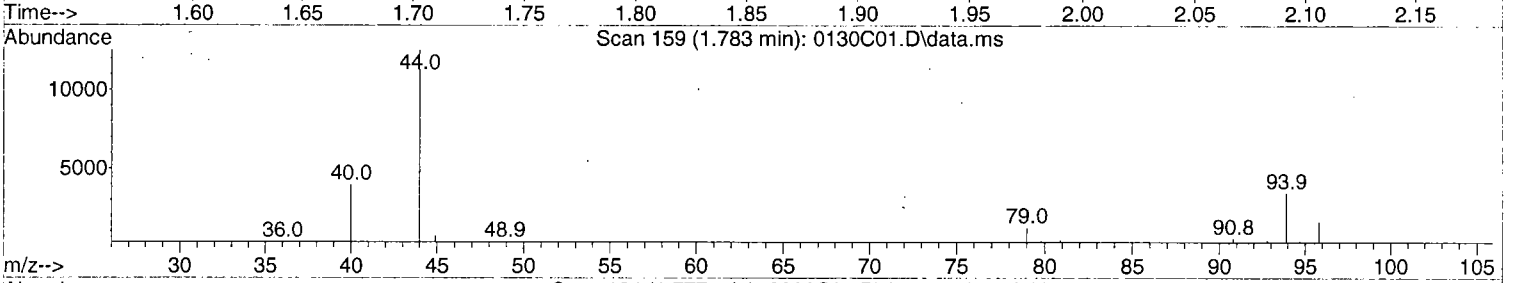
Freedom_0005792_0382

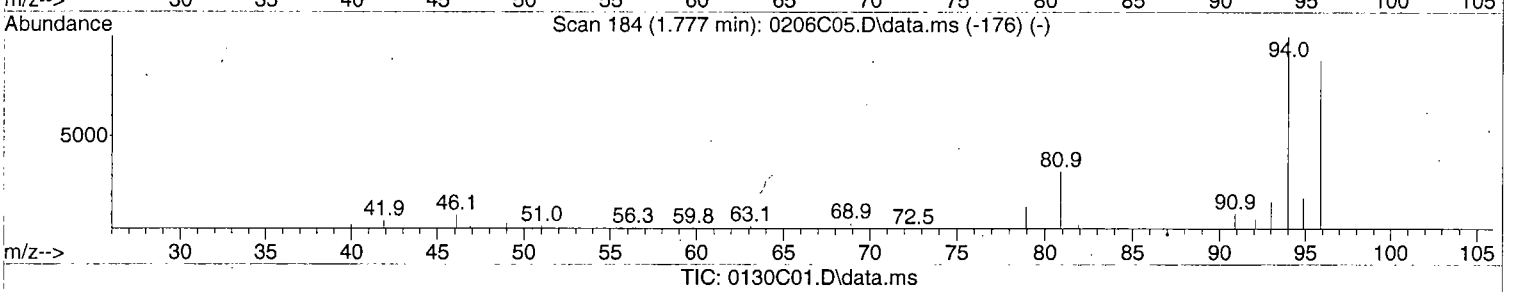
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C01.D\data.ms

(5) BROMOMETHANE (TMCP)

1.783min (-0.000) 1.31 ug/L

response 5291

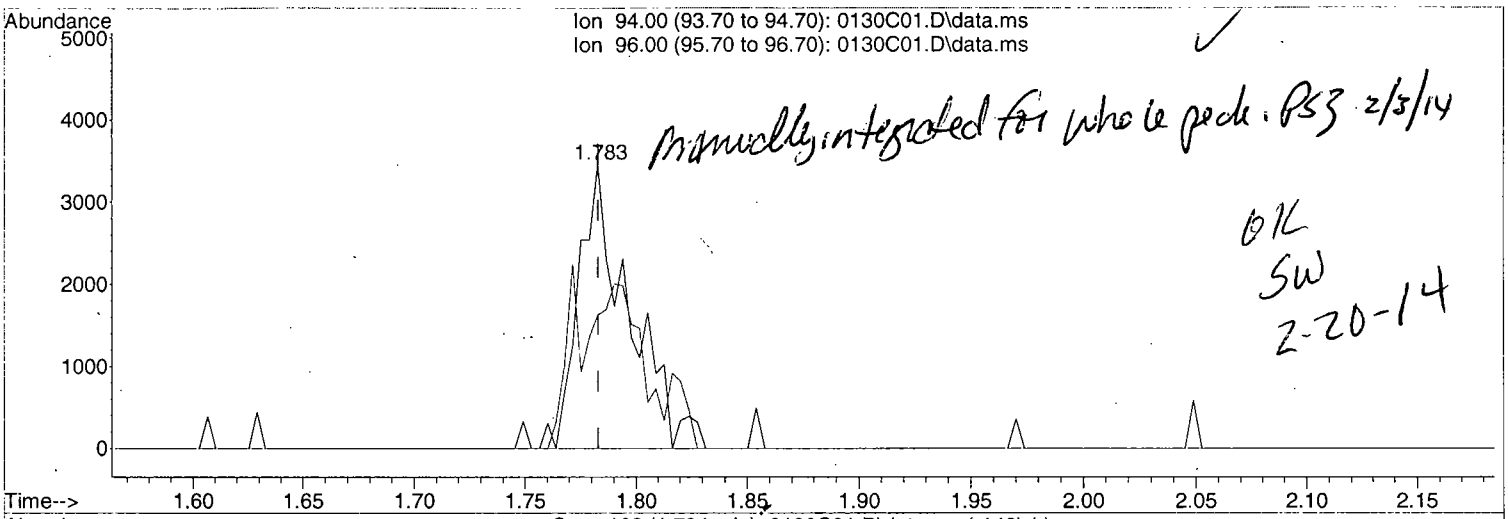
Ion	Exp%	Act%
94.00	100	100
96.00	93.10	50.65#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0383

Quantitation Report (Qedit)

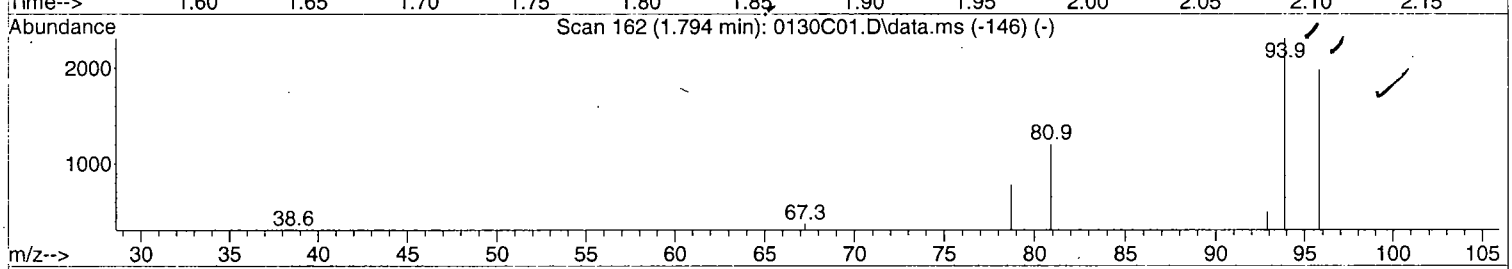
Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

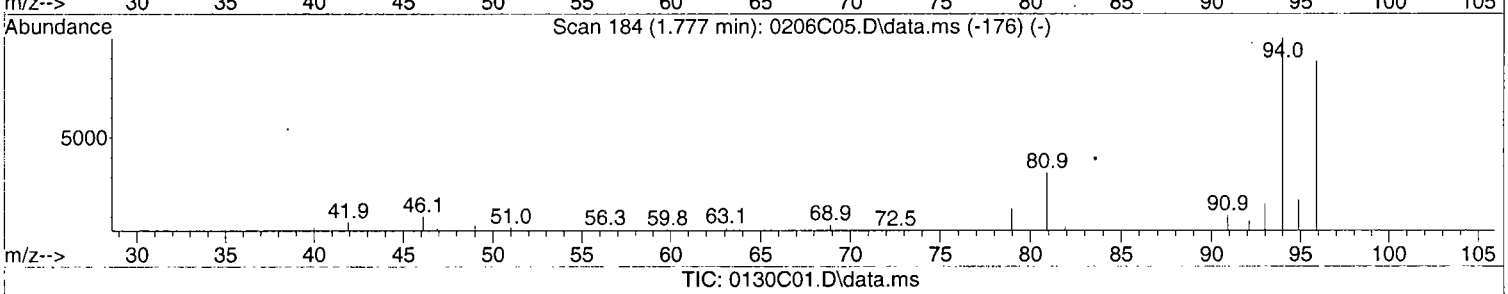
Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



manually integrated for whole peak. PS3 2/3/14

OK
SW
2-20-14





(5) BROMOMETHANE (TMCP)

1.783min (-0.000) 1.35 ug/L m

response 5453

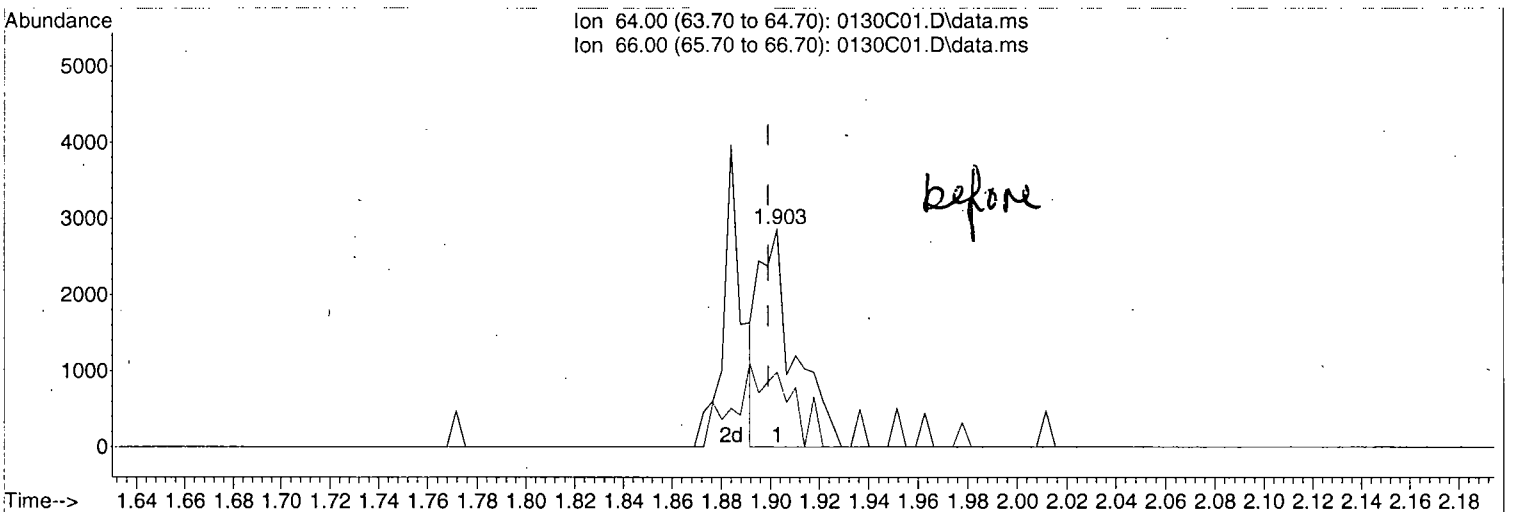
Ion	Exp%	Act%
94.00	100	100
96.00	93.10	49.15#
0.00	0.00	0.00
0.00	0.00	0.00

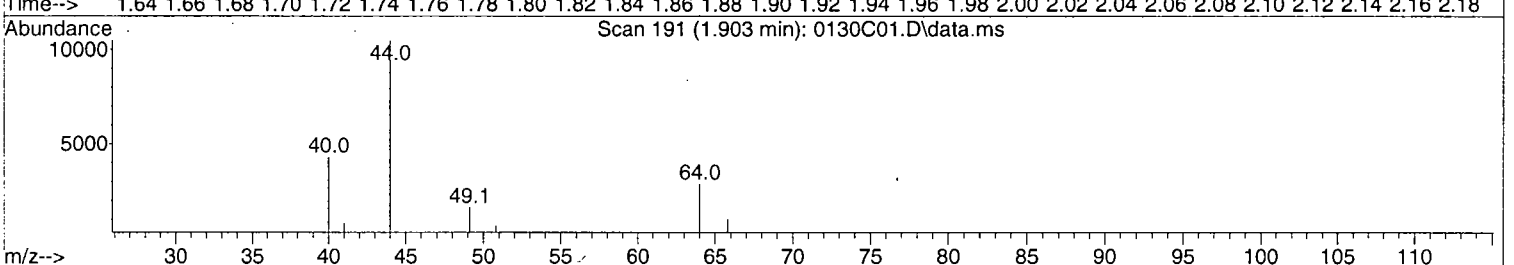
Freedom_0005792_0384

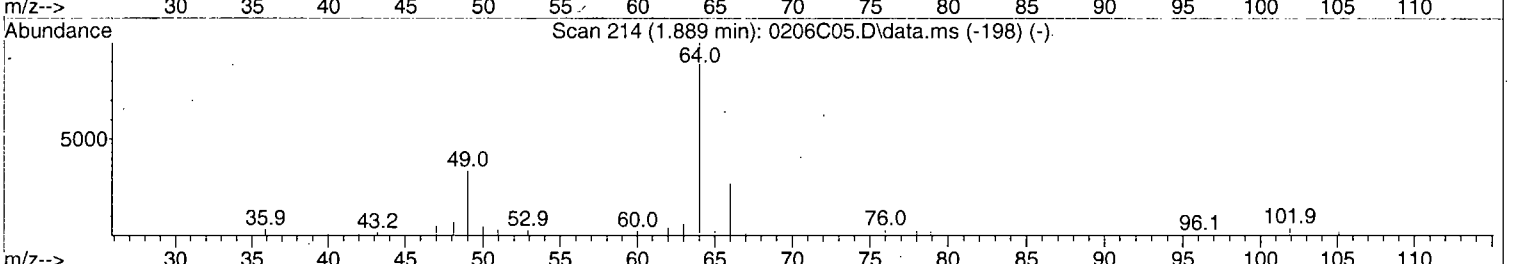
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C01.D\data.ms

(6) CHLOROETHANE (TMCP)

1.903min (+0.004) 0.61 ug/L

response 2874

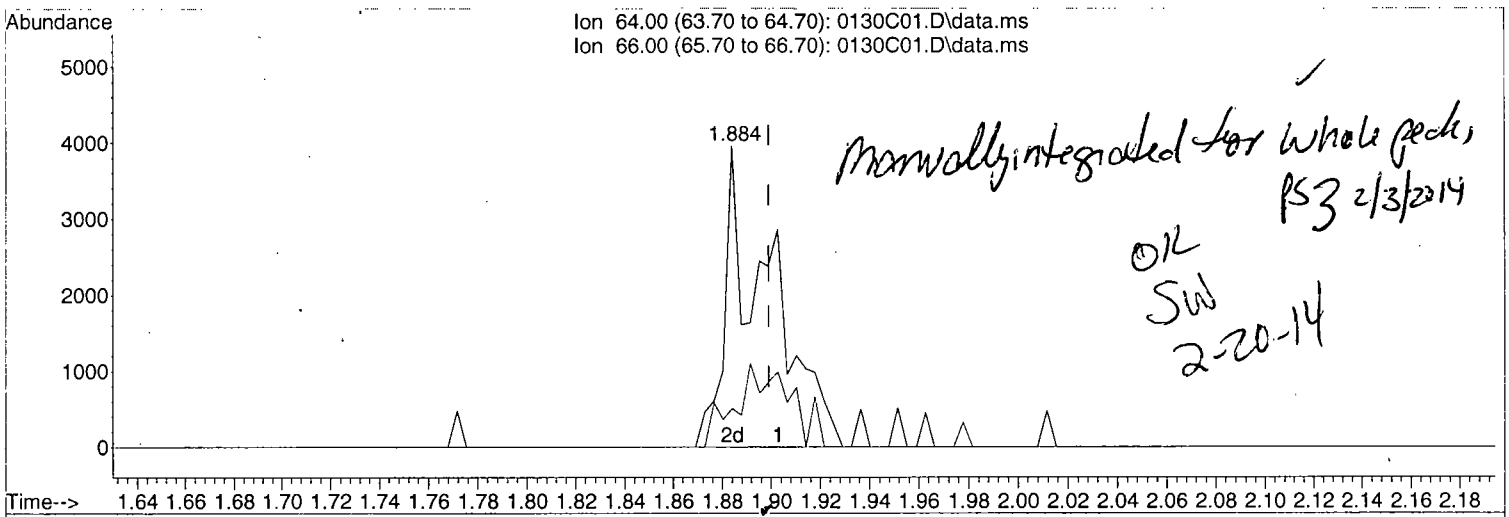
Ion	Exp%	Act%
64.00	100	100
66.00	31.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0385

Quantitation Report (Qedit)

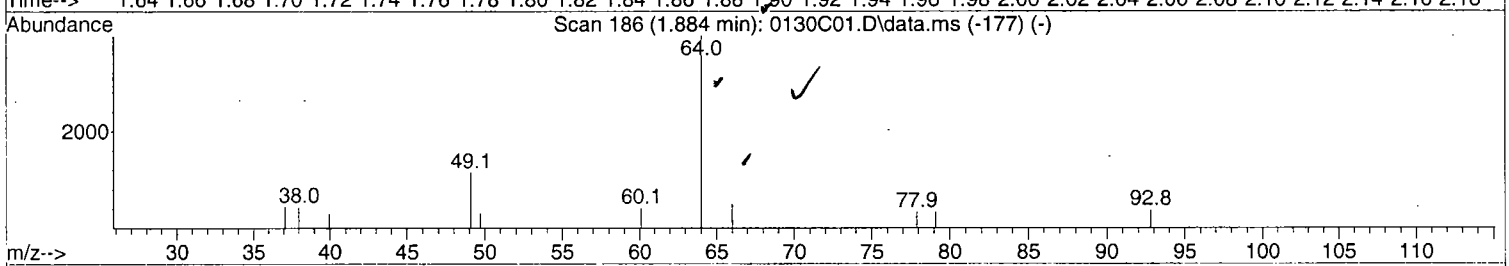
Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

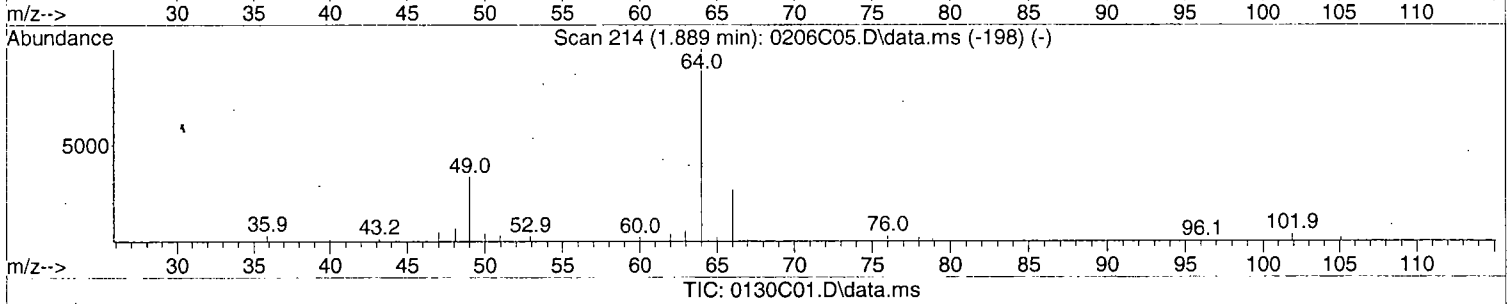
Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



Manually integrated for whole peak, PS 2/3/2014

OK SW 2-20-14





TIC: 0130C01.D\data.ms

(6) CHLOROETHANE (TMCP)

1.884min (-0.015) 1.05 ug/L m

response 4967

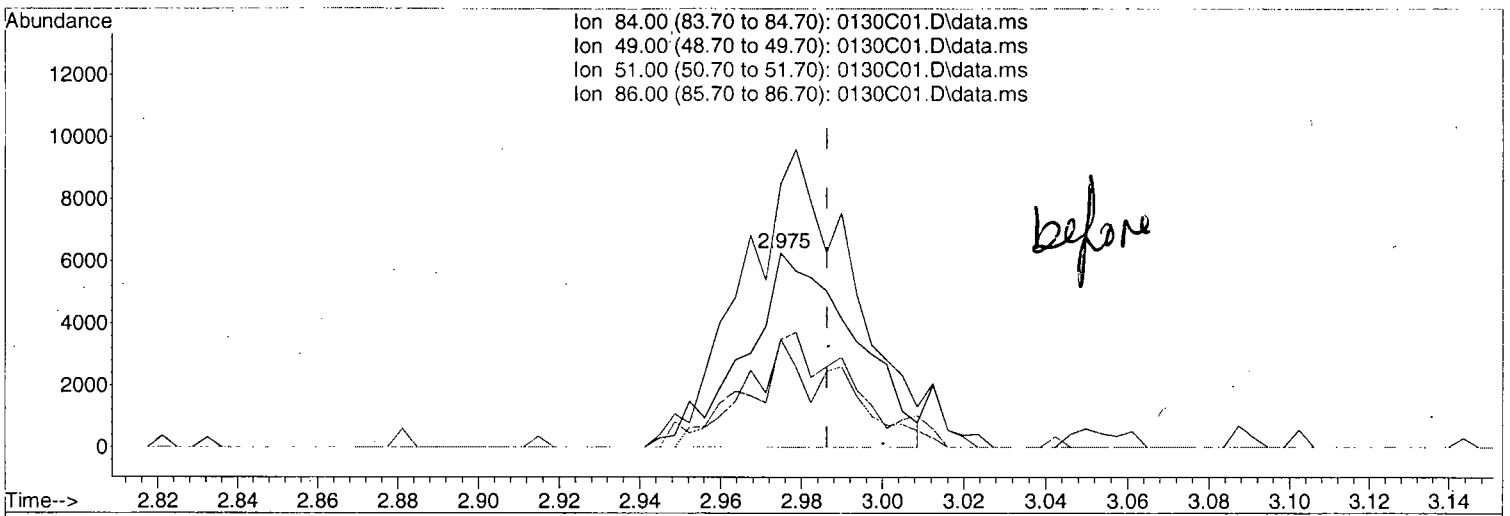
Ion	Exp%	Act%
64.00	100	100
66.00	31.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

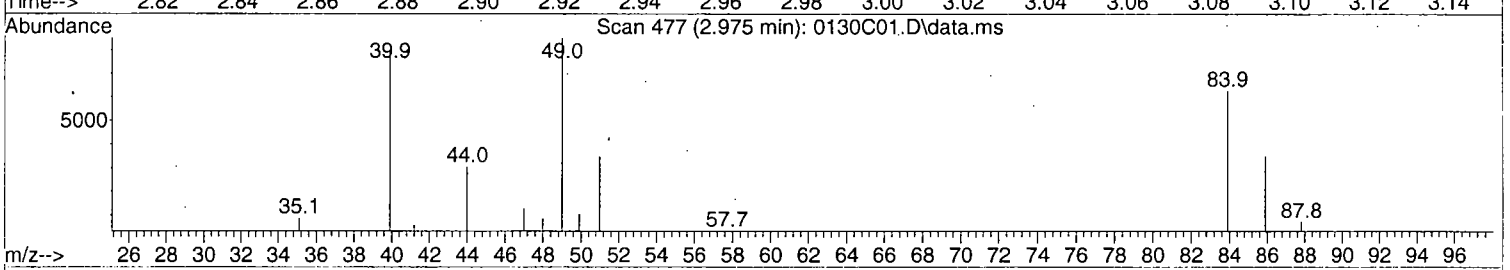
Freedom_0005792_0386

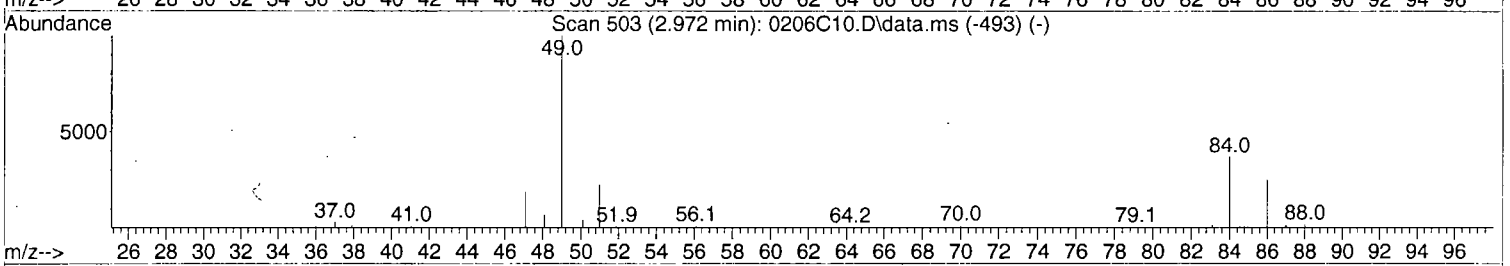
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C01.D\data.ms

(10) METHYLENE CHLORIDE (TMCP)

2.975min (-0.011) 1.59 ug/L

response 11802

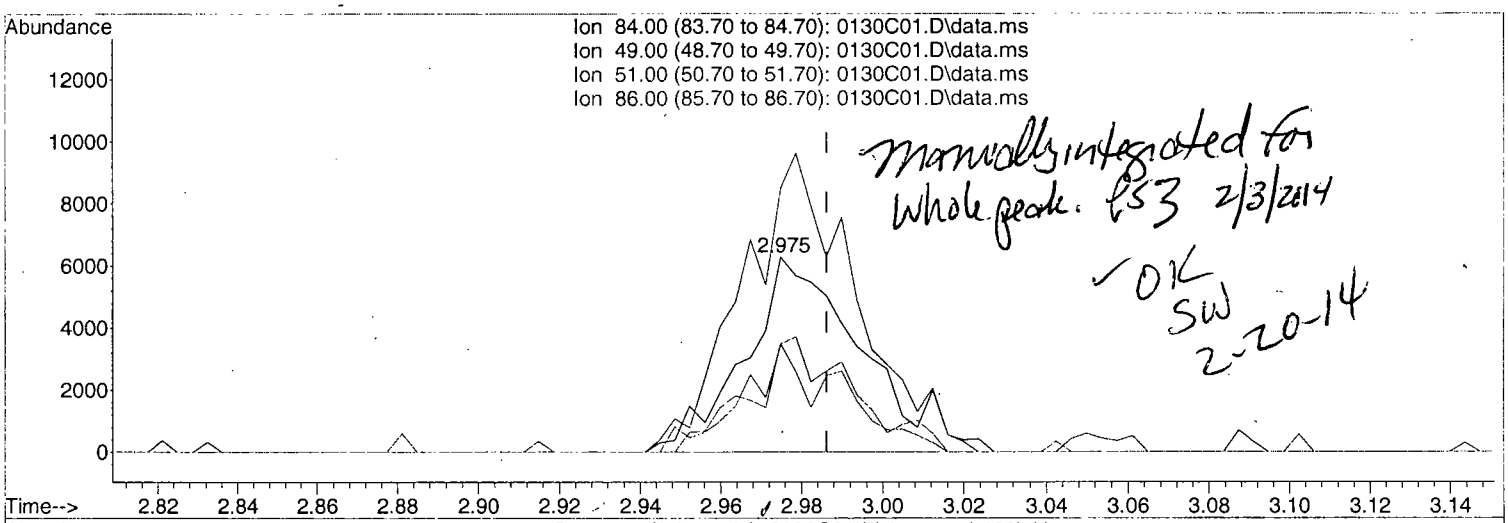
Ion	Exp%	Act%
84.00	100	100
49.00	127.60	158.39#
51.00	38.80	28.96#
86.00	61.50	57.03

Freedom_0005792_0387

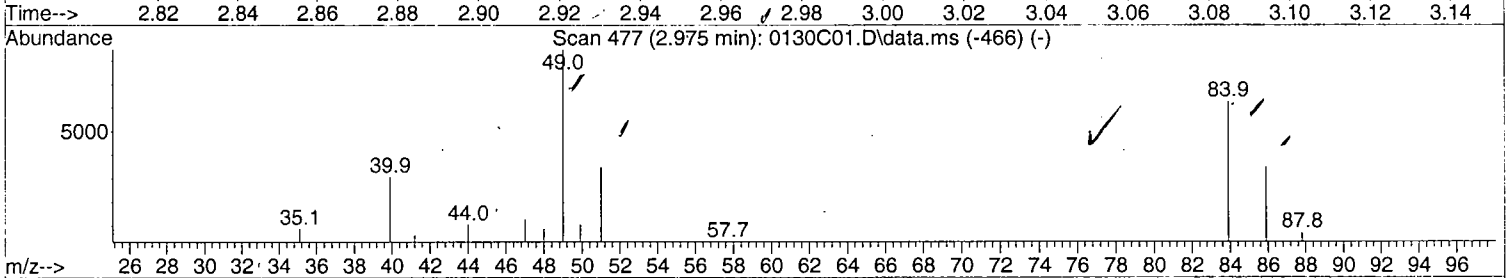
Quantitation Report (Qedit)

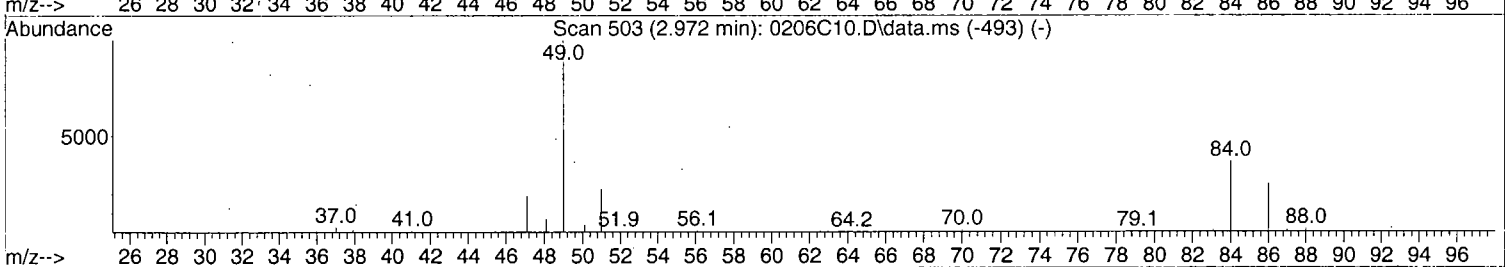
Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



manually integrated for whole peak. LS3 2/3/2014
✓ OK SW 2-20-14





TIC: 0130C01.D\data.ms

(10) METHYLENE CHLORIDE (TMCP)

2.975min (-0.011) 1.69 ug/L m

response 12562

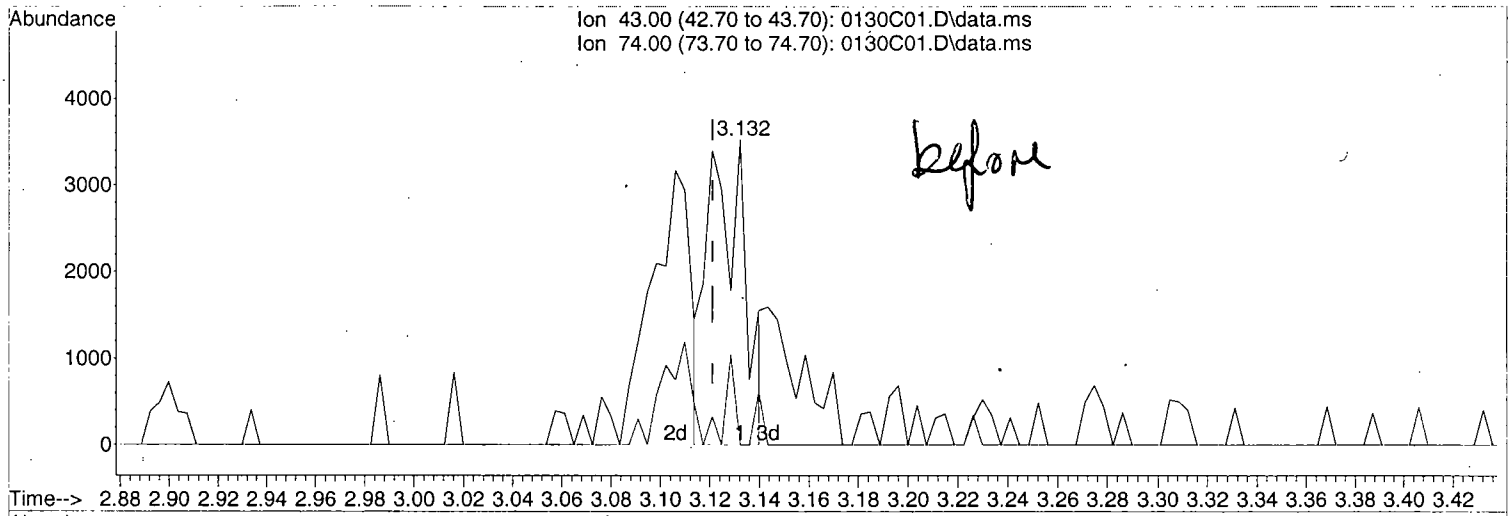
Ion	Exp%	Act%
84.00	100	100
49.00	127.60	148.81
51.00	38.80	27.21#
86.00	61.50	53.58

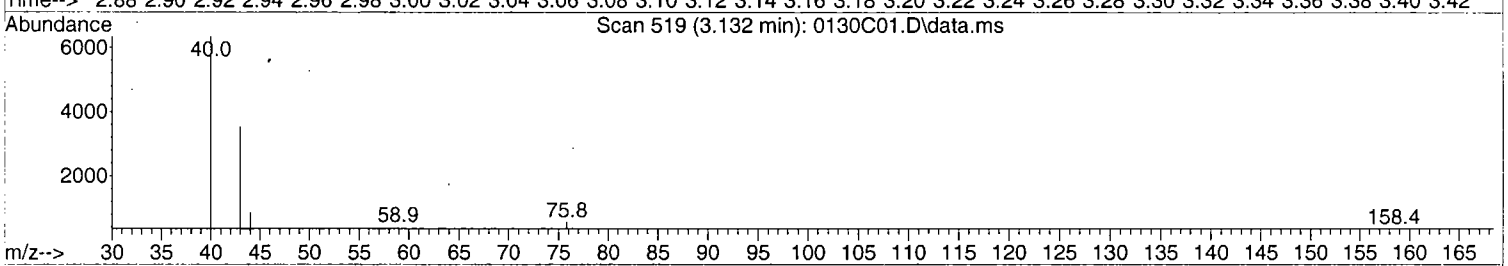
Freedom_0005792_0388

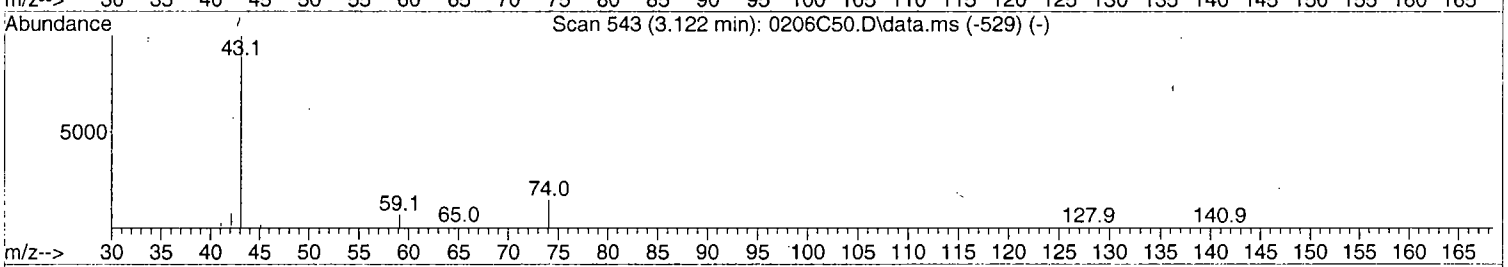
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C01.D\data.ms

(13) METHYL ACETATE (TMCP)

3.132min (+0.011) 0.43 ug/L

response 3555

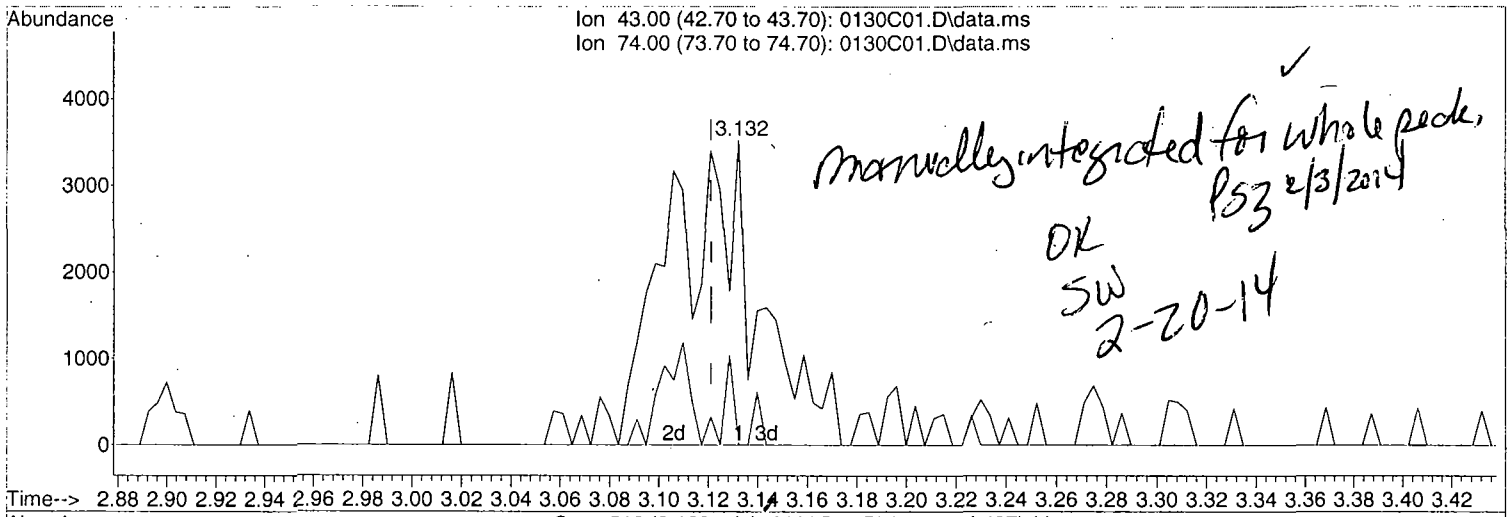
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0389

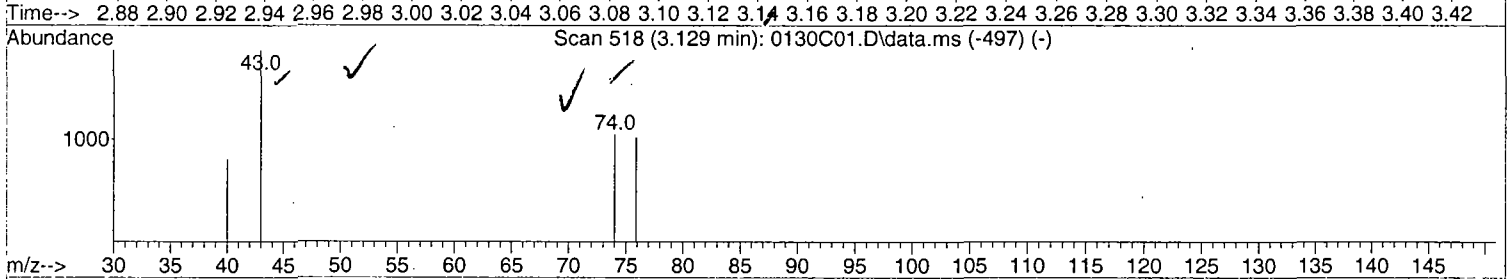
Quantitation Report (Qedit)

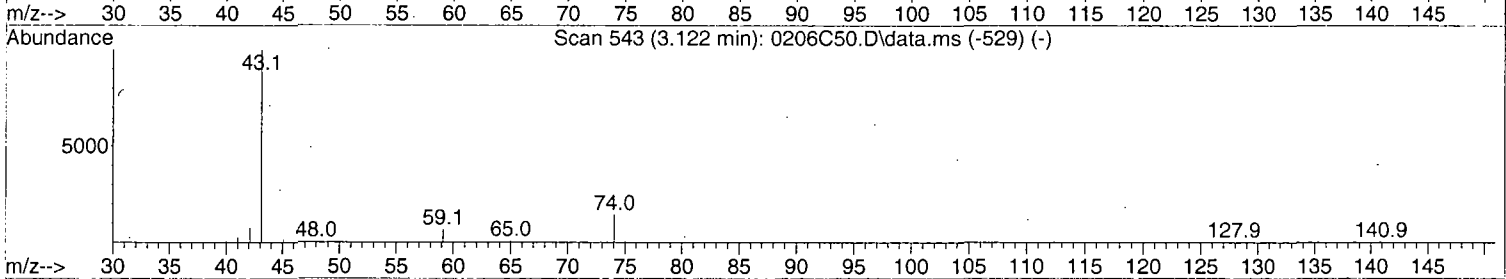
Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



manually integrated for whole peak, PSJ 2/3/2014
OK
SW
2-20-14





TIC: 0130C01.D\data.ms

(13) METHYL ACETATE (TMCP)

3.132min (+0.011) 1.06 ug/L m

response 8664

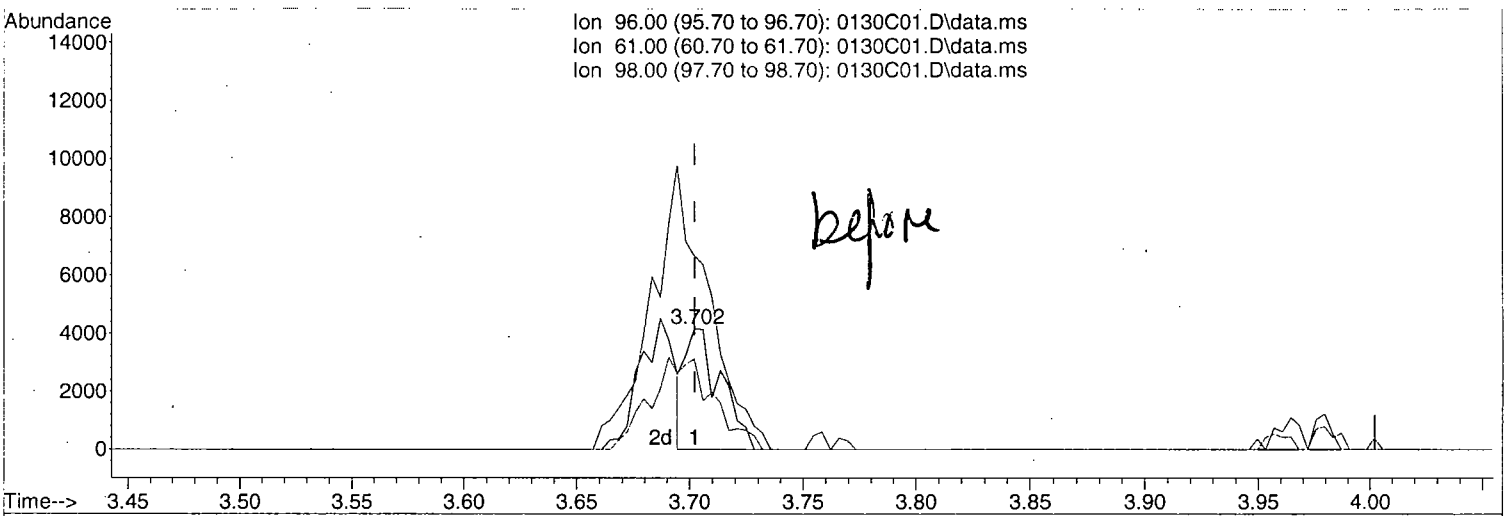
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

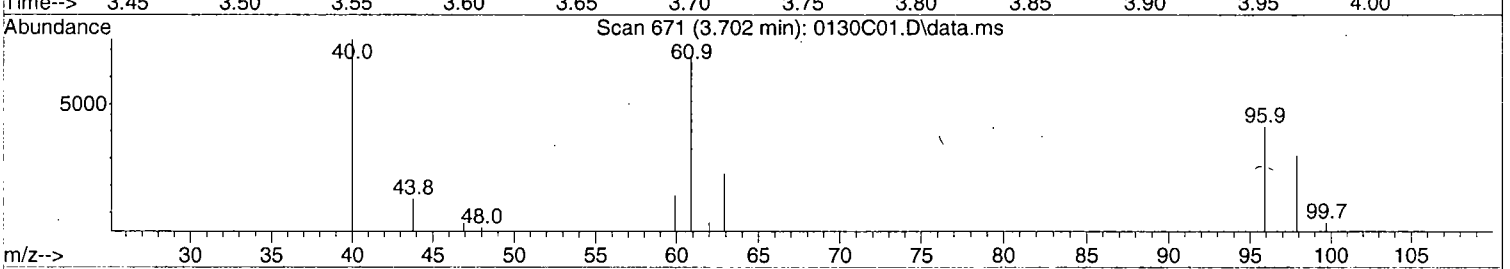
Freedom_0005792_0390

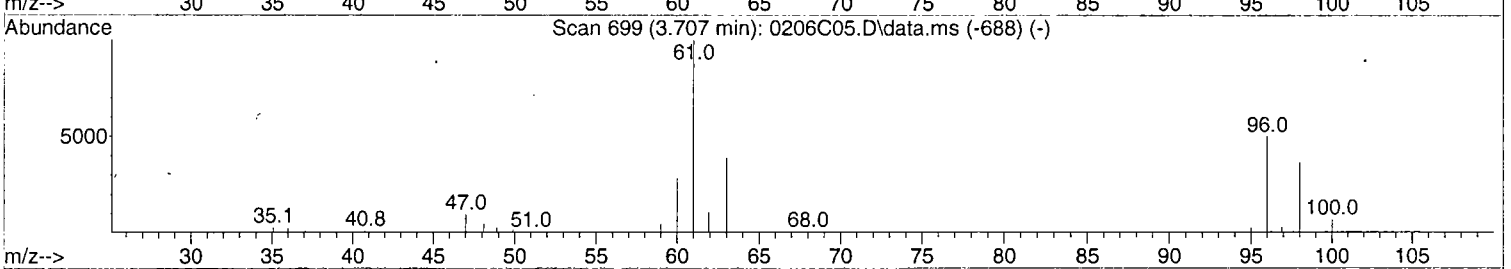
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C01.D\data.ms

(14) TRANS-1,2-DICHLOROETHENE (TMCP)

3.702min (-0.000) 0.60 ug/L

response 4498

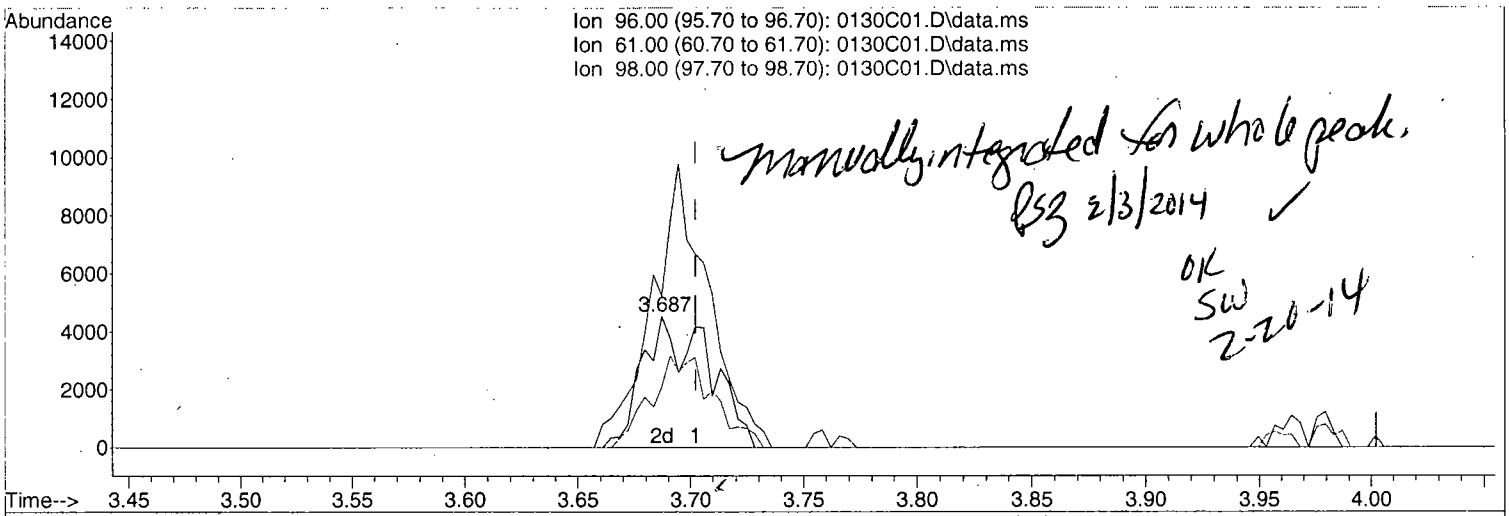
Ion	Exp%	Act%
96.00	100	100
61.00	148.60	0.00#
98.00	63.30	0.00#
0.00	0.00	0.00

Freedom_0005792_0391

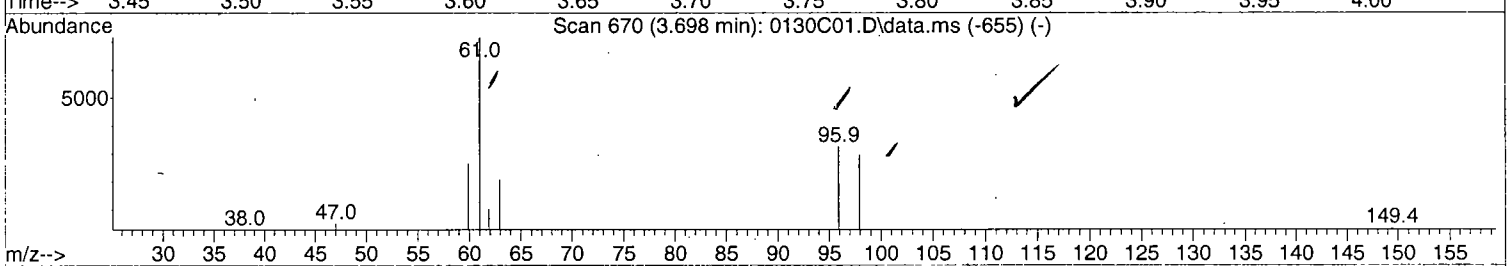
Quantitation Report (Qedit)

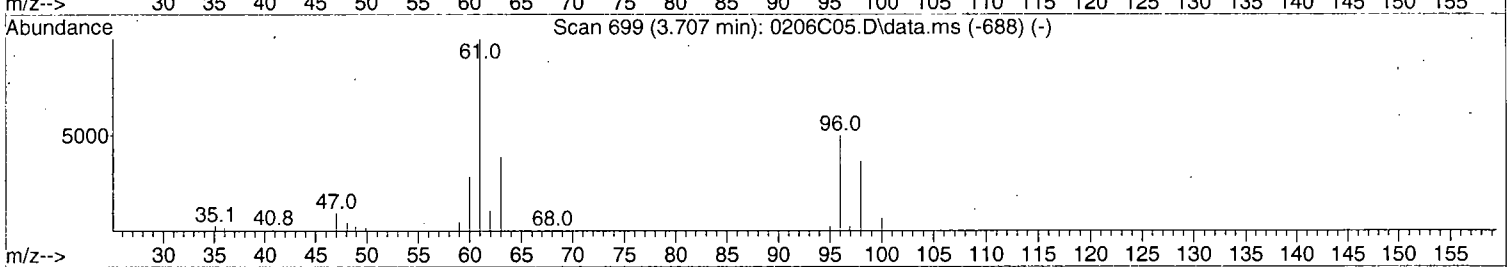
Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



manually integrated for whole peak.
RSZ 2/3/2014
OK
SW
2-20-14





TIC: 0130C01.D\data.ms

(14) TRANS-1,2-DICHLOROETHENE (TMCP)

3.687min (-0.015) 1.25 ug/L m

response 9325

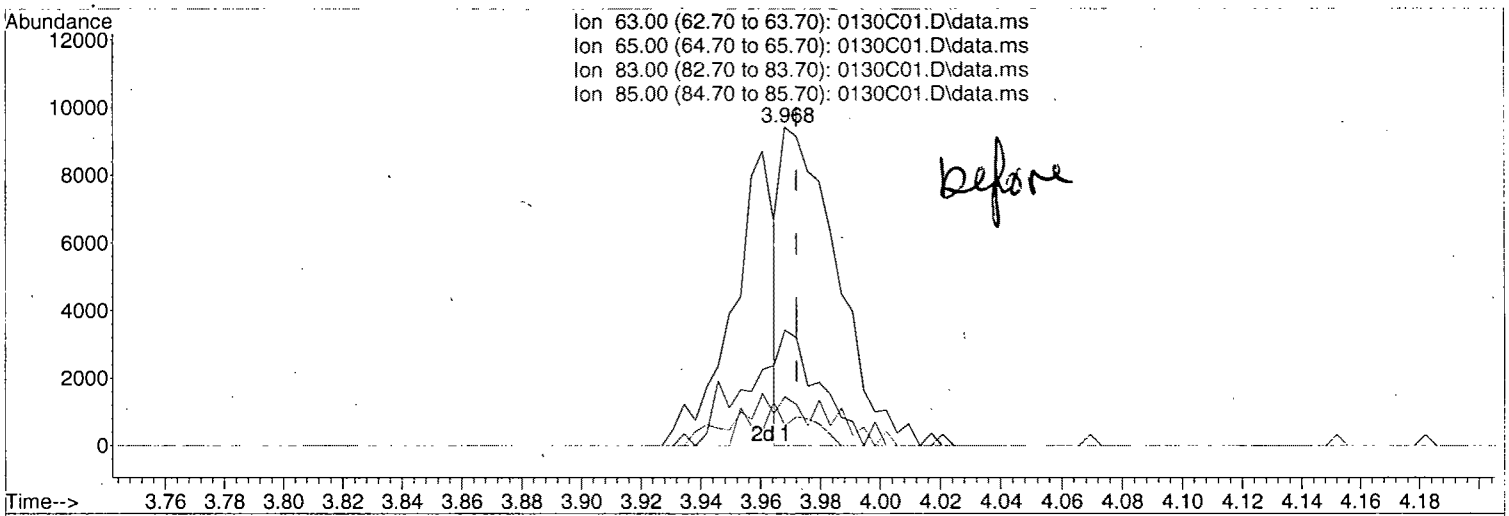
Ion	Exp%	Act%
96.00	100	100
61.00	148.60	0.00#
98.00	63.30	0.00#
0.00	0.00	0.00

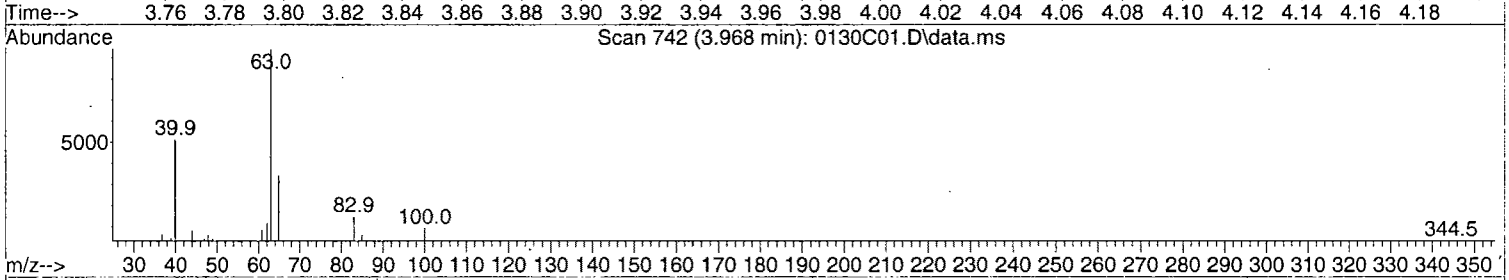
Freedom_0005792_0392

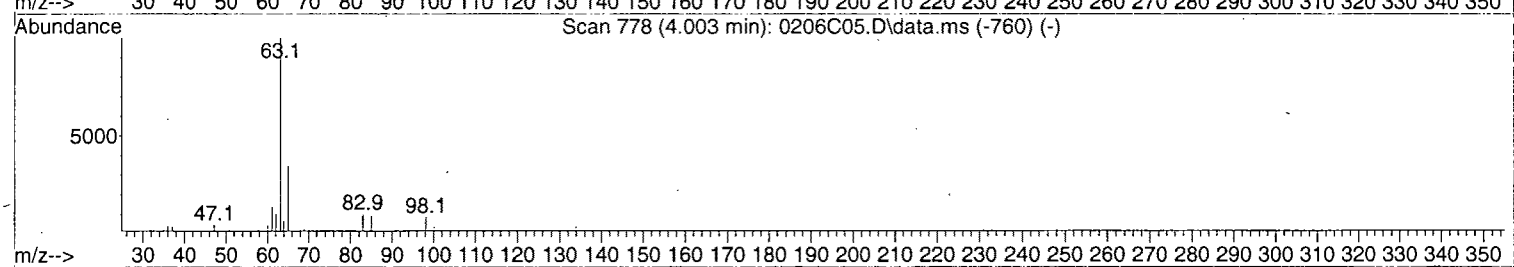
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C01.D\data.ms

(16) 1,1-DICHLOROETHANE (TMCP)

3.968min (-0.004) 0.78 ug/L

response 12258

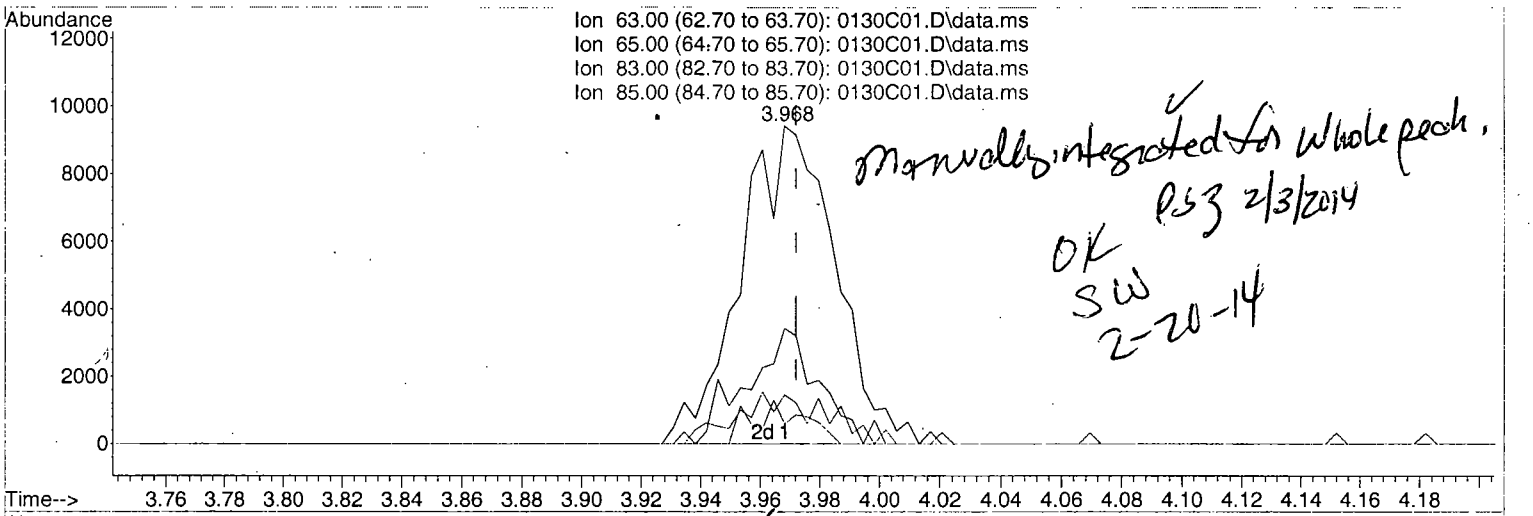
Ion	Exp%	Act%
63.00	100	100
65.00	31.30	47.35#
83.00	13.20	7.22#
85.00	8.60	8.31

Freedom_0005792_0393

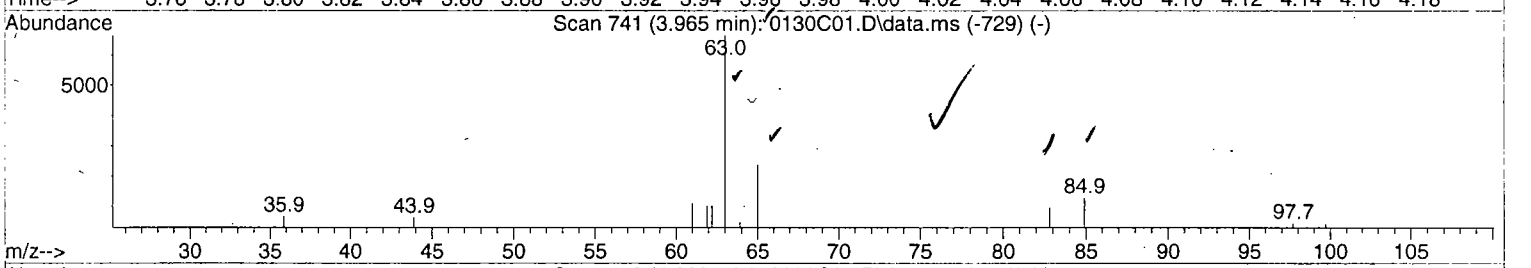
Quantitation Report (Qedit)

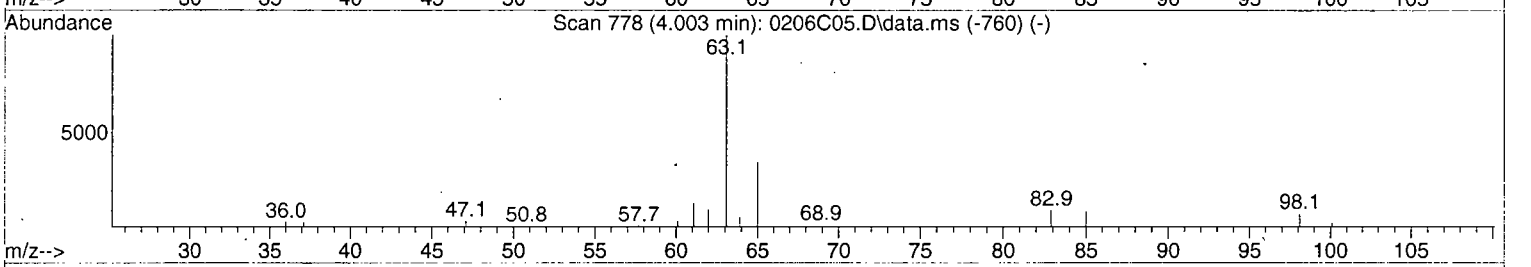
Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



Manually integrated for whole peak.
PSZ 2/3/2014
OK
SW
2-20-14





TIC: 0130C01.D\data.ms

(16) 1,1-DICHLOROETHANE (TMCP)

3.968min (-0.004) 1.33 ug/L m

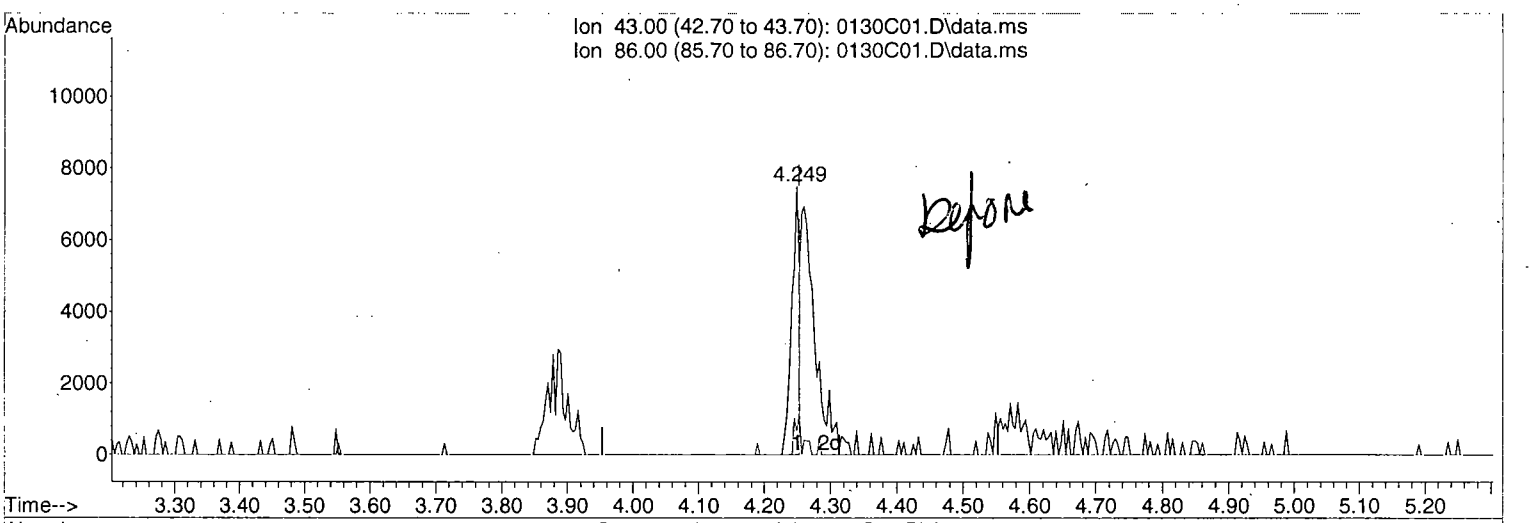
response 20859

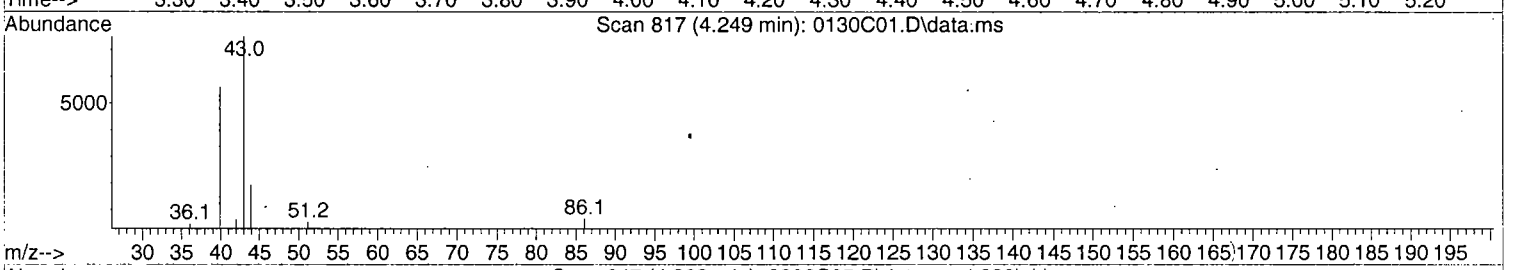
Ion	Exp%	Act%
63.00	100	100
65.00	31.30	27.82
83.00	13.20	4.24#
85.00	8.60	4.89#

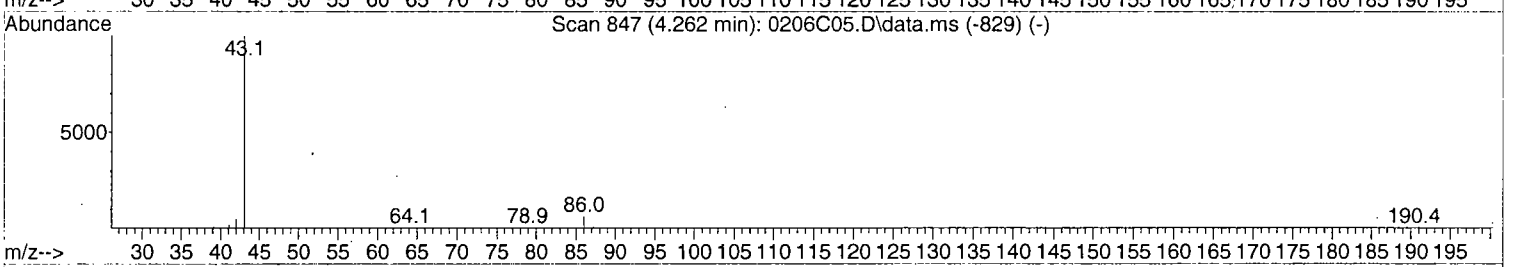
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C01.D\data.ms

(17) VINYL ACETATE (TMCP)

4.249min (-0.004) 0.37 ug/L

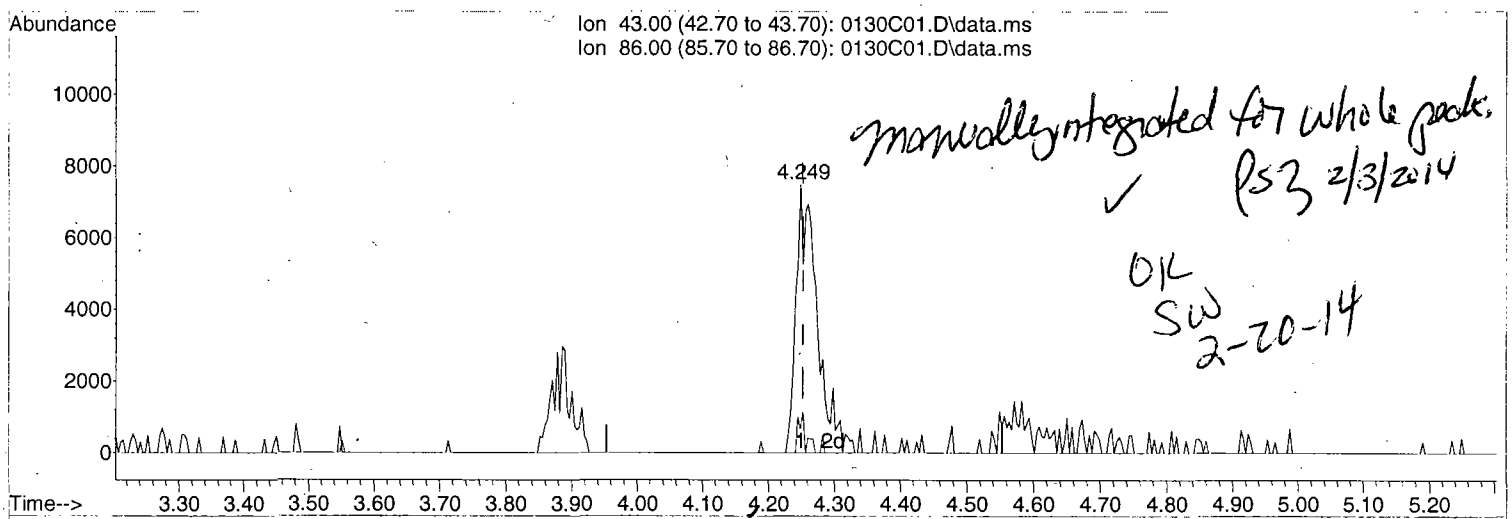
response 5928

Ion	Exp%	Act%
43.00	100	100
86.00	8.90	13.77#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

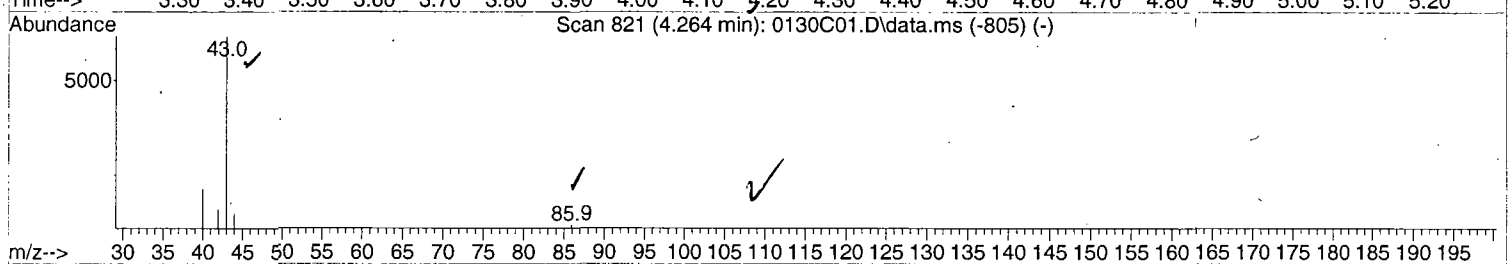
Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

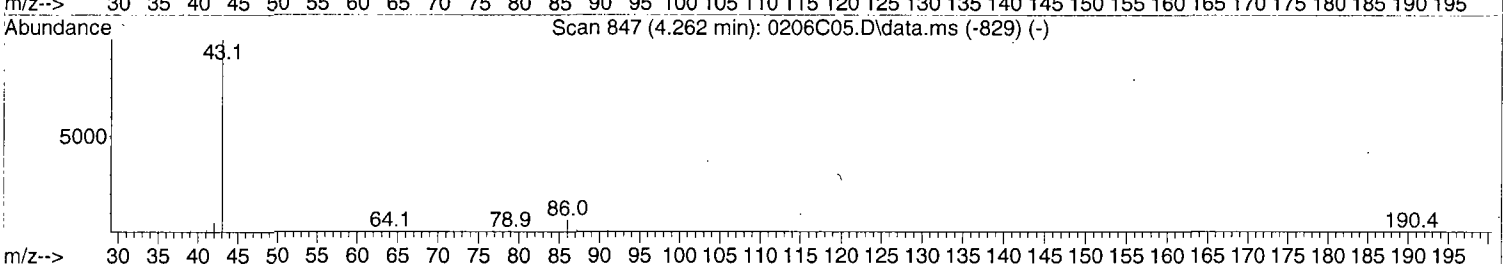
Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



manually integrated for whole peak. PSZ 2/3/2014

OK SW 2-20-14





TIC: 0130C01.D\data.ms

(17) VINYL ACETATE (TMCP)

4.249min (-0.004) 1.01 ug/L m

response 16142

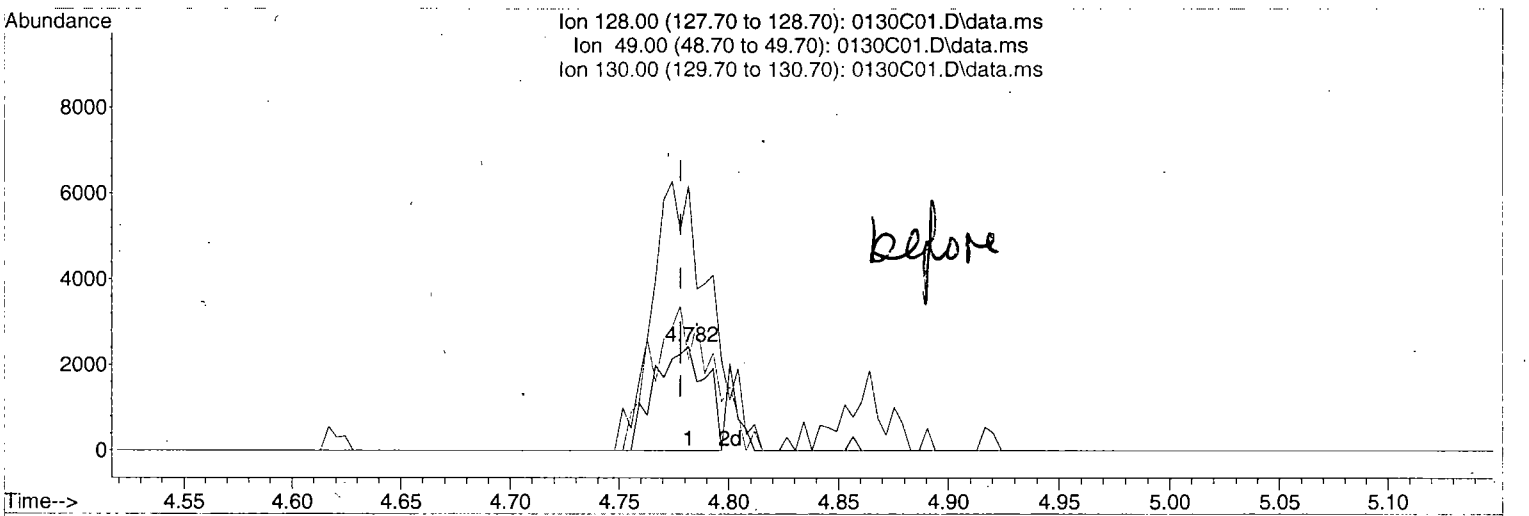
Ion	Exp%	Act%
43.00	100	100
86.00	8.90	5.06#
0.00	0.00	0.00
0.00	0.00	0.00

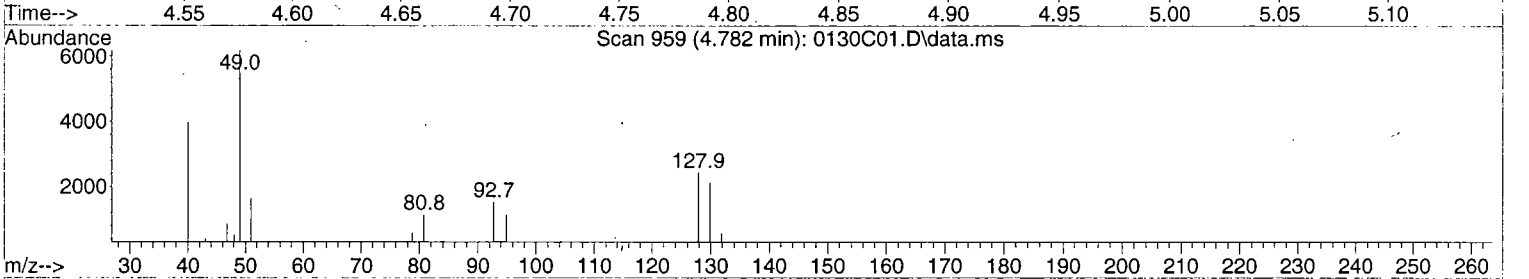
Freedom_0005792_0396

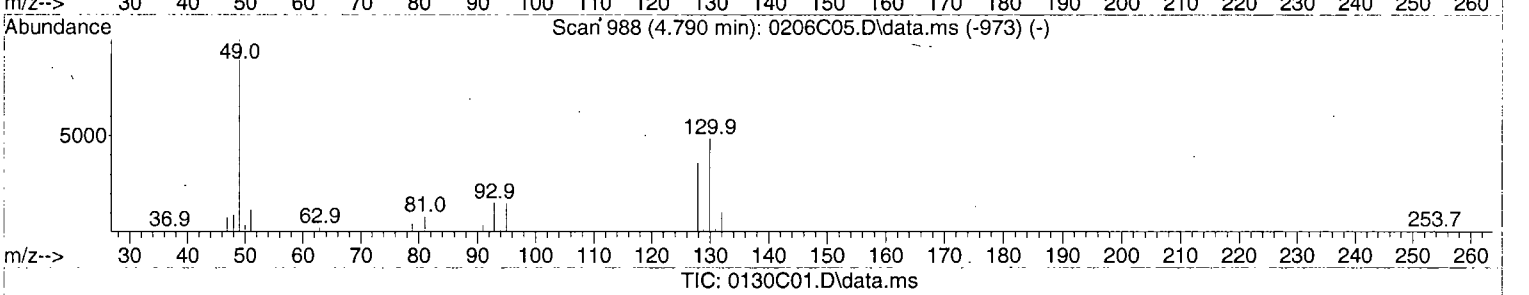
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C01.D\data.ms

(20) BROMOCHLOROMETHANE (TMCP)

4.782min (+0.004) 1.00 ug/L

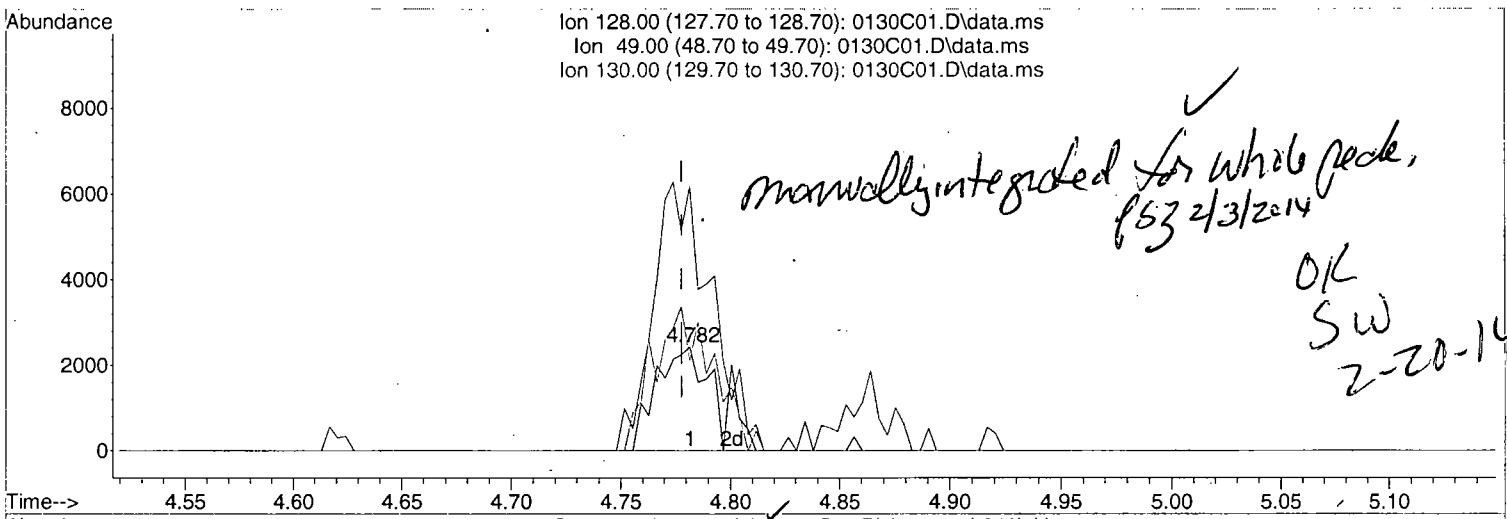
response 3972

Ion	Exp%	Act%
128.00	100	100
49.00	154.70	289.80#
130.00	132.80	160.05#
0.00	0.00	0.00

Quantitation Report (Qedit)

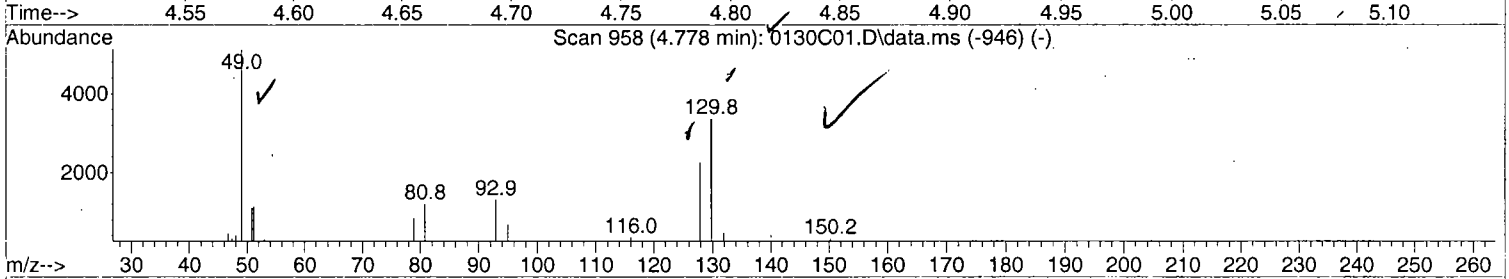
Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

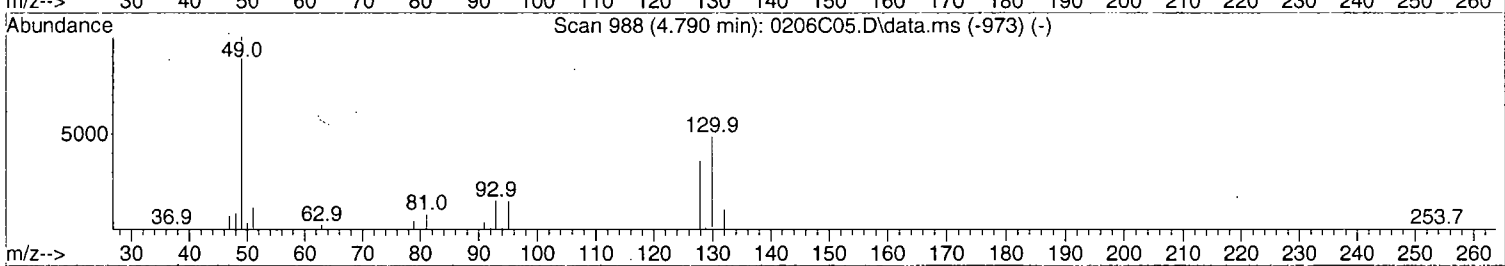
Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



manually integrated for whole peak, fsz 2/3/2014

OK SW 2-20-14





TIC: 0130C01.D\data.ms

(20) BROMOCHLOROMETHANE (TMCP)

4.782min (+0.004) 1.19 ug/L m

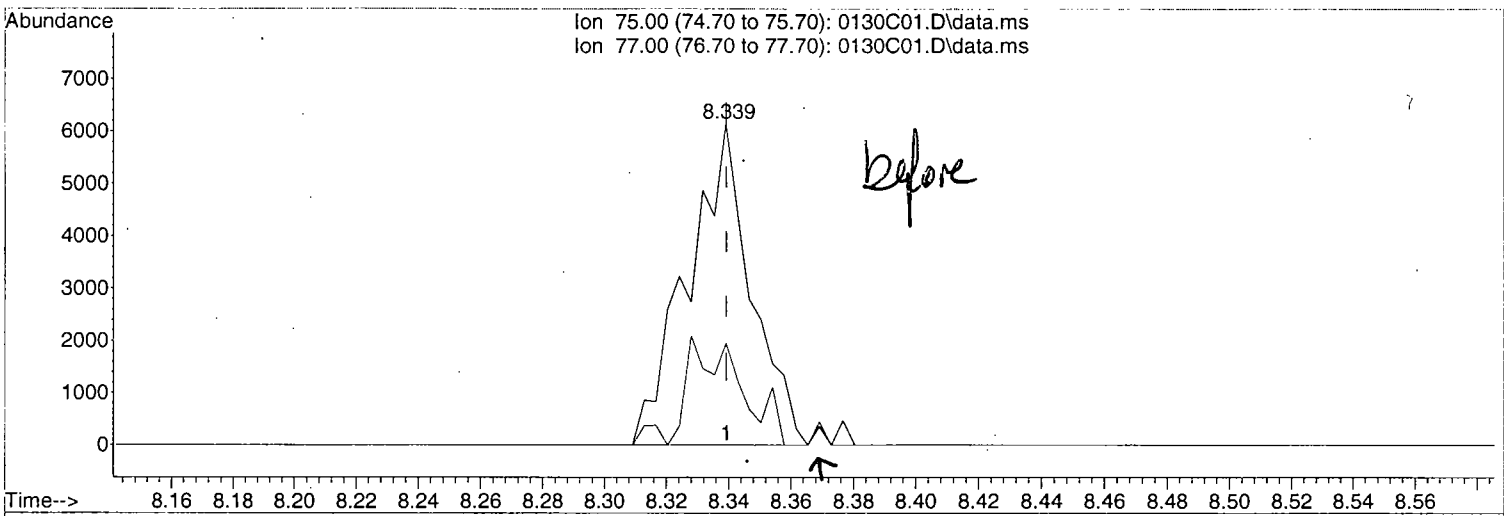
response 4712

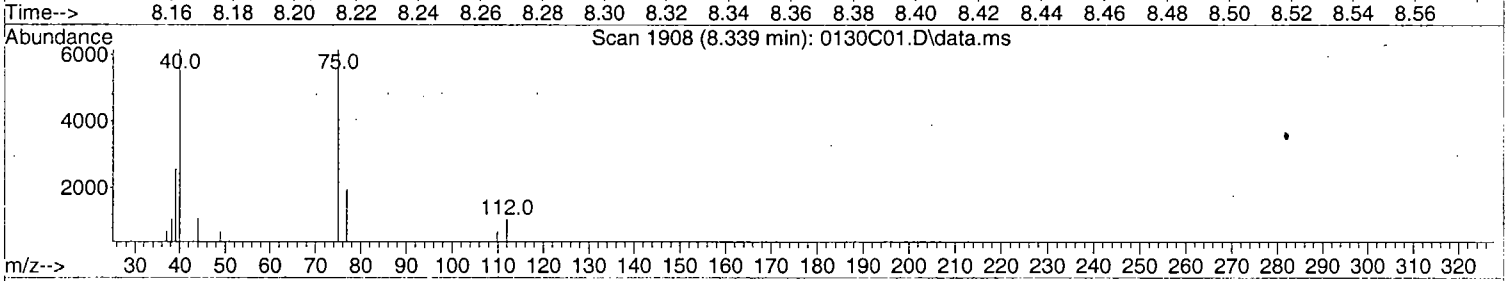
Ion	Exp%	Act%
128.00	100	100
49.00	154.70	244.29#
130.00	132.80	134.91
0.00	0.00	0.00

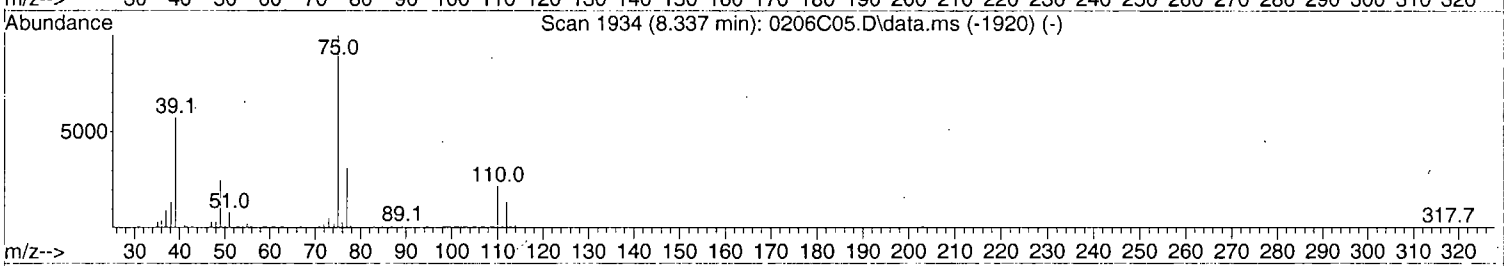
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C01.D\data.ms

(39) TRANS-1,3-DICHLOROPROPENE (TMCP)

8.339min (-0.000) 0.93 ug/L

response 8650

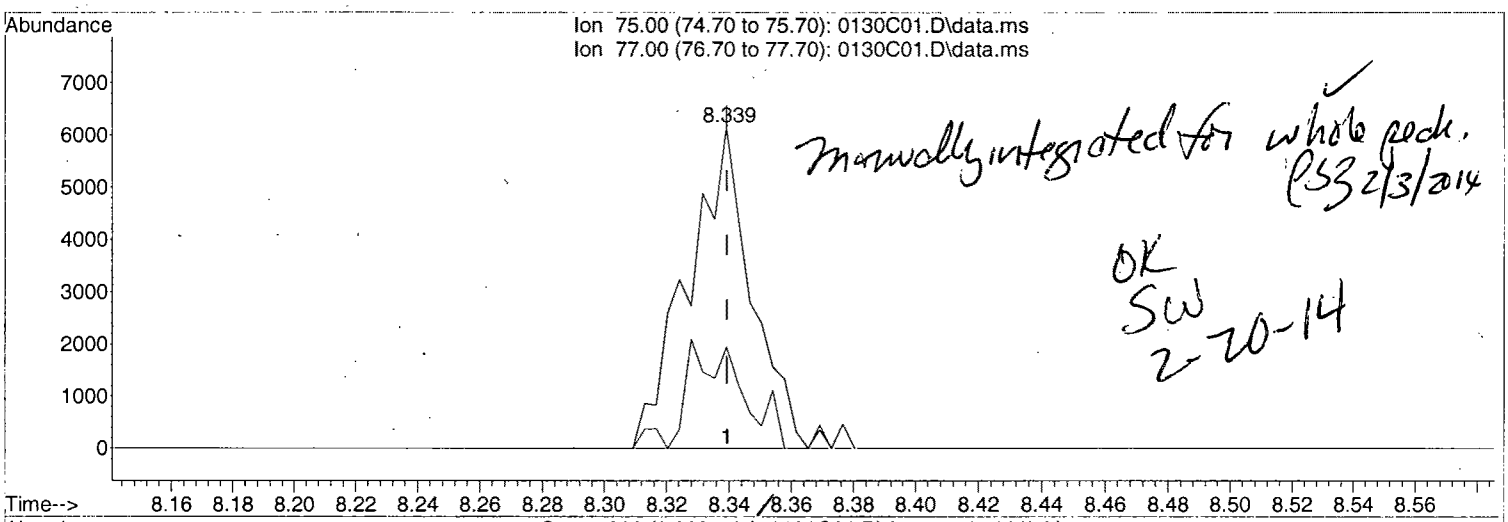
Ion	Exp%	Act%
75.00	100	100
77.00	31.60	29.76
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0399

Quantitation Report (Qedit)

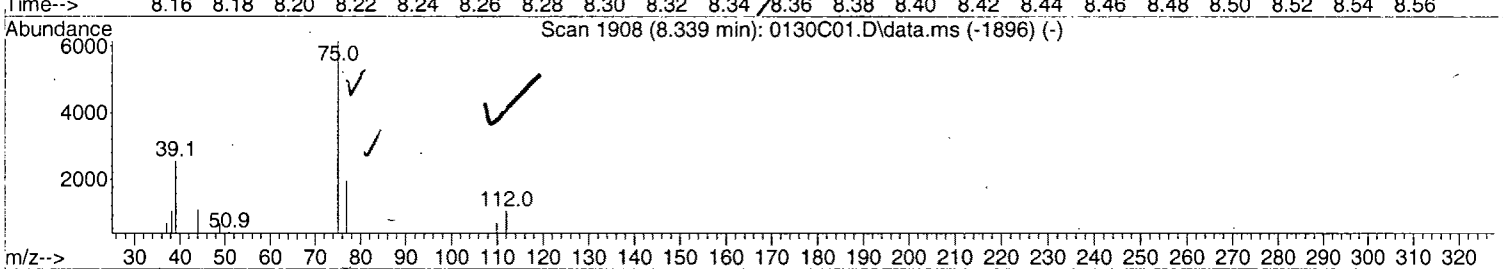
Data Path : D:\DATA\L01302014\
Data File : 0130C01.D
Acq On : 30 Jan 2014 10:05
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

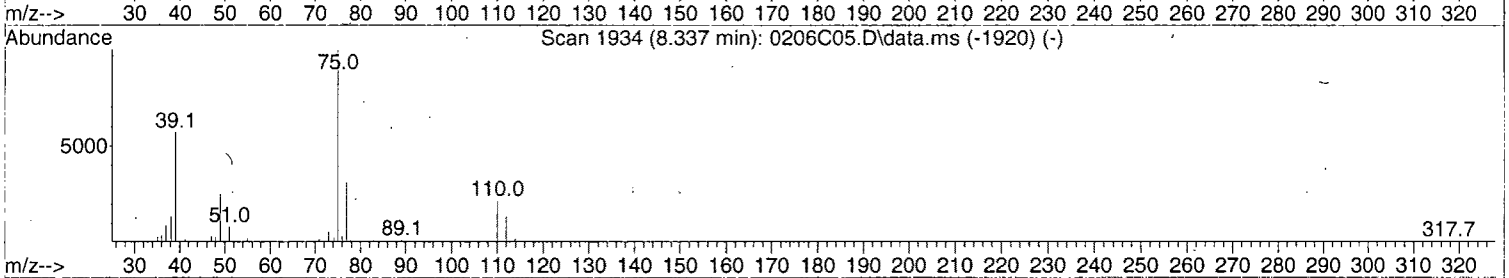
Quant Time: Jan 30 11:02:41 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



manually integrated for whole peak. CSS 2/3/2014

OK SW 2-20-14





TIC: 0130C01.D\data.ms

(39) TRANS-1,3-DICHLOROPROPENE (TMCP)

8.339min (-0.000) 0.95 ug/L m

response 8839

Ion	Exp%	Act%
75.00	100	100
77.00	31.60	29.12
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0400

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 0130C05.D
Acq On : 30 Jan 2014 10:32
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 30 11:17:46 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.525	114	116187	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.333	117	110635	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.804	152	68493	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.501	65	59842	5.30	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 106.00%		
41) TOLUENE-d8	8.620	98	136007	4.77	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 95.40%		
59) 4-BROMOFLUOROBENZENE	11.649	95	67168	5.18	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 103.60%		
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.307	85	55179	5.17	ug/L	97
3) CHLOROMETHANE	1.419	50	60543	5.16	ug/L	93
4) VINYL CHLORIDE	1.532	62	48348	5.61	ug/L	89
5) BROMOMETHANE	1.790	94	22520	5.17	ug/L	99
6) CHLOROETHANE	1.888	64	27788	5.45	ug/L	96
7) TRICHLOROFLUOROMETHANE	2.330	101	97540	5.81	ug/L	98
8) ACETONE	2.510	43	34239m	6.68	ug/L	
9) 1,1-DICHLOROETHENE	2.802	96	31118	5.49	ug/L #	65
10) METHYLENE CHLORIDE	2.975	84	35761	4.44	ug/L #	56
11) Freon 113	3.054	101	45645	5.37	ug/L #	83
12) CARBON DISULFIDE	3.095	76	125217	5.21	ug/L	100
13) METHYL ACETATE	3.117	43	46684m	5.27	ug/L	
14) TRANS-1,2-DICHLOROETHENE	3.698	96	43312	5.35	ug/L	87
15) METHYL-TERT-BUTYL ETHER	3.886	73	98500m	4.99	ug/L	
16) 1,1-DICHLOROETHANE	3.972	63	92185	5.44	ug/L	99
17) VINYL ACETATE	4.249	43	82227	4.75	ug/L #	87
18) 2-BUTANONE	4.557	43	33169m	5.96	ug/L	
19) CIS-1,2-DICHLOROETHENE	4.617	96	45241	5.15	ug/L	85
20) BROMOCHLOROMETHANE	4.778	128	22285	5.20	ug/L #	59
21) CHLOROFORM	4.864	83	91858	5.70	ug/L	97
22) 2,2-DICHLOROPROPANE	4.928	77	53442	5.28	ug/L #	87
24) 1,2-DICHLOROETHANE	5.588	62	81852	5.51	ug/L #	96
25) 1,1,1-TRICHLOROETHANE	5.678	97	73443	5.89	ug/L #	93
26) 1,1-DICHLOROPROPENE	5.925	75	58533	5.23	ug/L	99
27) CYCLOHEXANE	5.966	56	84172	5.11	ug/L #	86
28) CARBON TETRACHLORIDE	6.075	117	65686	5.75	ug/L	96
29) BENZENE	6.150	78	194141	5.53	ug/L	100
30) DIBROMOMETHANE	6.787	93	29871	5.18	ug/L #	80
31) 1,2-DICHLOROPROPANE	6.855	63	47999	5.04	ug/L	99
32) TRICHLOROETHENE	6.915	130	54811	5.23	ug/L #	88
33) BROMODICHLOROMETHANE	6.967	83	65634	5.51	ug/L #	94
34) METHYLCYCLOHEXANE	7.488	83	65650	4.63	ug/L #	82
35) 2-CHLOROETHYLVINYL ETHER	7.604	63	26036m	5.06	ug/L	
36) CIS-1,3-DICHLOROPROPENE	7.781	75	64236	5.50	ug/L	100
38) 4-METHYL-2-PENTANONE	8.005	43	46384	4.36	ug/L #	84
39) TRANS-1,3-DICHLOROPROPENE	8.335	75	50654	5.15	ug/L	98
40) 1,1,2-TRICHLOROETHANE	8.467	97	40875	5.10	ug/L	90
42) TOLUENE	8.699	92	106663	4.94	ug/L	98
43) 1,3-DICHLOROPROPANE	8.774	76	85187	5.40	ug/L	98
44) CHLORODIBROMOMETHANE	9.018	129	39146	4.77	ug/L	90
45) 2-HEXANONE	9.081	43	33356	4.42	ug/L #	77
46) 1,2-DIBROMOETHANE (EDB)	9.299	107	42670	5.30	ug/L	98

Freedom_0005792_0401

Data Path : D:\DATA\L01302014\
Data File : 0130C05.D
Acq On : 30 Jan 2014 10:32
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 30 11:17:46 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47)	TETRACHLOROETHENE	9.554	164	38926	5.19	ug/L		96
48)	1,1,1,2-TETRACHLOROETHANE	10.296	131	42411	5.34	ug/L		94
49)	CHLOROBENZENE	10.375	112	117497	4.78	ug/L		94
50)	ETHYLBENZENE	10.656	91	203664	5.09	ug/L		98
51)	BROMOFORM	10.873	173	28287	5.15	ug/L	#	93
52)	M-XYLENE/P-XYLENE	10.888	106	162622	10.59	ug/L		95
53)	STYRENE	11.211	104	271899	10.63	ug/L		98
54)	O-XYLENE	11.278	106	183961	10.83	ug/L		96
55)	ISOPROPYLBENZENE	11.649	105	210516	4.78	ug/L		96
57)	1,1,2,2-TETRACHLOROETHANE	11.259	83	39109	4.81	ug/L	#	96
58)	1,2,3-TRICHLOROPROPANE	11.402	75	50906	4.89	ug/L		98
60)	BROMOBENZENE	11.803	156	56415	4.81	ug/L	#	84
61)	N-PROPYLBENZENE	12.065	91	253719	4.61	ug/L		97
62)	2-CHLOROTOLUENE	12.103	91	166478	4.99	ug/L		93
63)	4-CHLOROTOLUENE	12.181	91	174727	4.81	ug/L		90
64)	1,3,5-TRIMETHYLBENZENE	12.361	105	193744	5.35	ug/L		96
65)	TERT-BUTYLBENZENE	12.568	119	144641	4.71	ug/L		90
66)	1,2,4-TRIMETHYLBENZENE	12.684	105	204155	5.30	ug/L		98
67)	SEC-BUTYLBENZENE	12.755	105	264088	4.96	ug/L		97
68)	1,3-DICHLOROBENZENE	12.770	146	119892	4.63	ug/L		95
69)	1,4-DICHLOROBENZENE	12.830	146	128010	4.91	ug/L		96
70)	P-ISOPROPYLTOLUENE	12.935	119	202014	4.96	ug/L		96
71)	1,2-DICHLOROBENZENE	13.111	146	110670	4.62	ug/L		97
72)	N-BUTYLBENZENE	13.269	91	221000	5.19	ug/L		97
73)	1,2-DIBROMO-3-CHLOROPR...	13.490	75	7834	4.54	ug/L	#	81
74)	1,2,4-TRICHLOROBENZENE	14.554	180	79486	4.58	ug/L	#	96
75)	NAPHTHALENE	14.731	128	155445	4.40	ug/L		99
76)	HEXACHLOROBUTADIENE	14.809	225	50063	5.31	ug/L	#	84
77)	1,2,3-TRICHLOROBENZENE	14.881	180	87665	5.05	ug/L	#	96

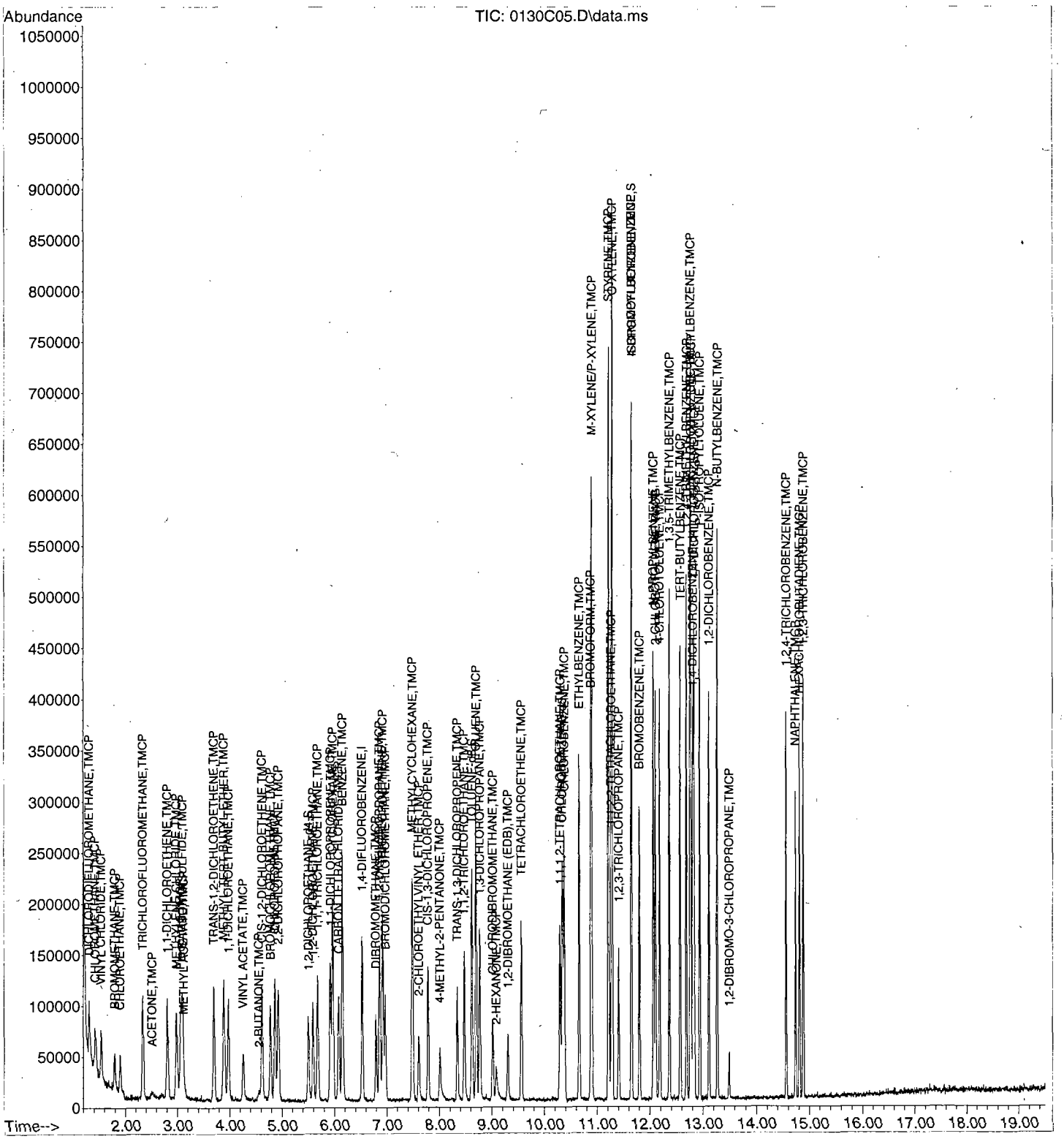
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0402

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 0130C05.D
Acq On : 30 Jan 2014 10:32
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 30 11:17:46 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration

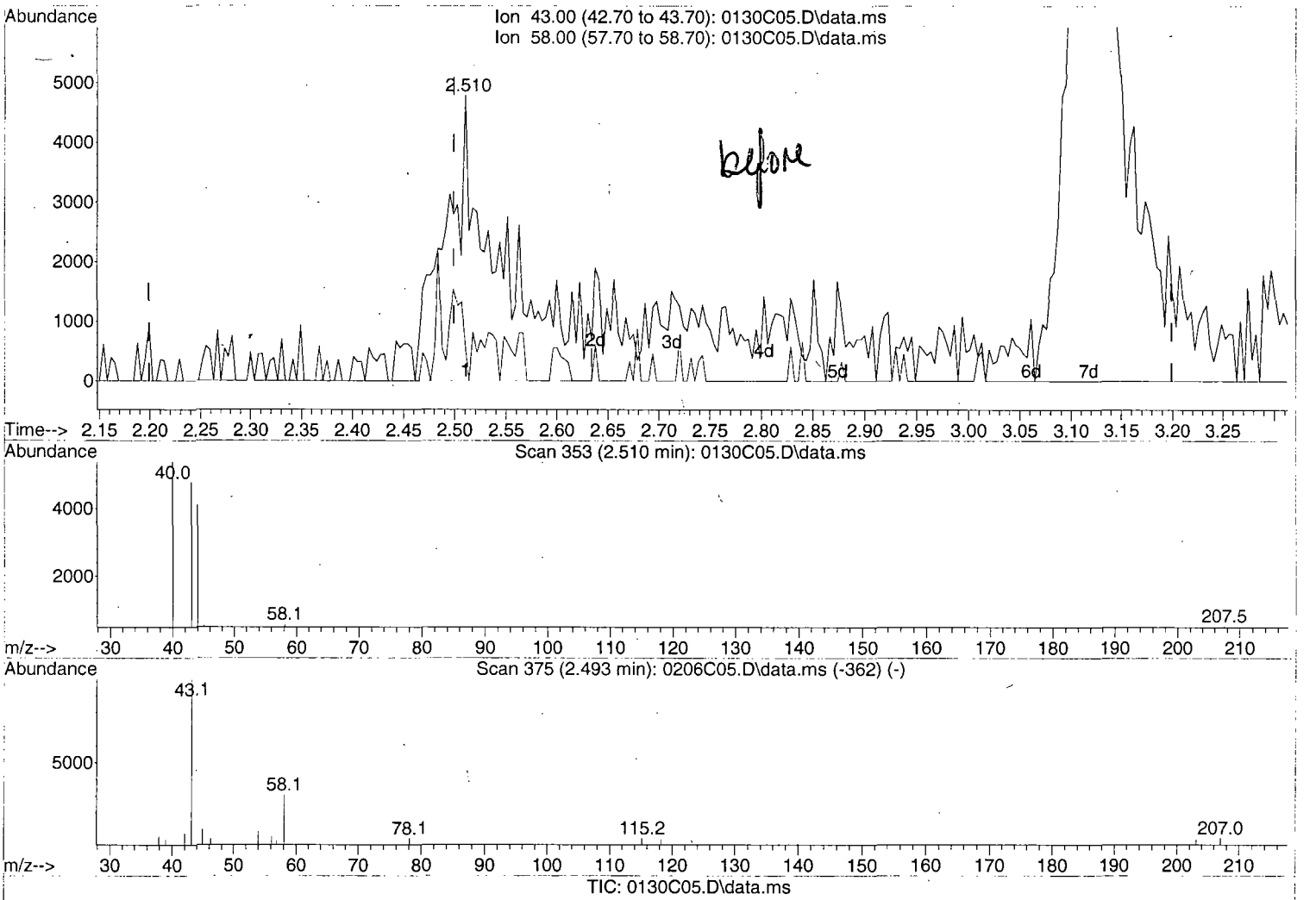


Freedom_0005792_0403

Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C05.D
Acq On : 30 Jan 2014 10:32
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 30 11:02:47 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



(8) ACETONE (TMCP)

2.510min (+0.011) 3.54 ug/L

response 18157

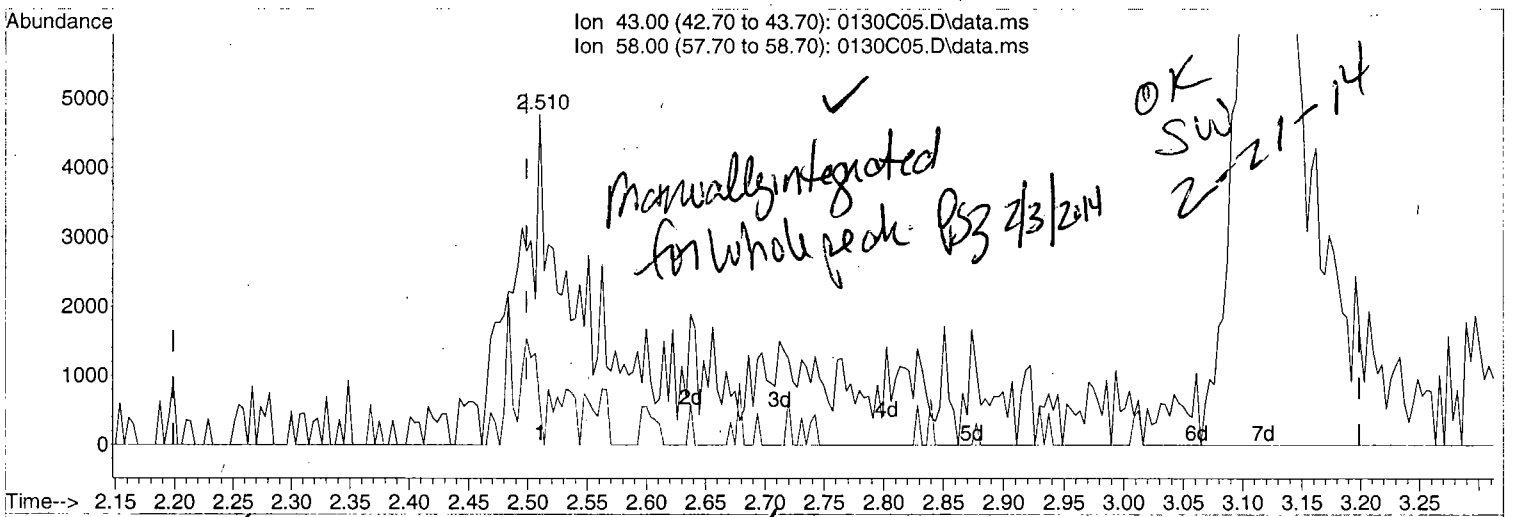
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	5.93#
0.00	0.00	0.00
0.00	0.00	0.00

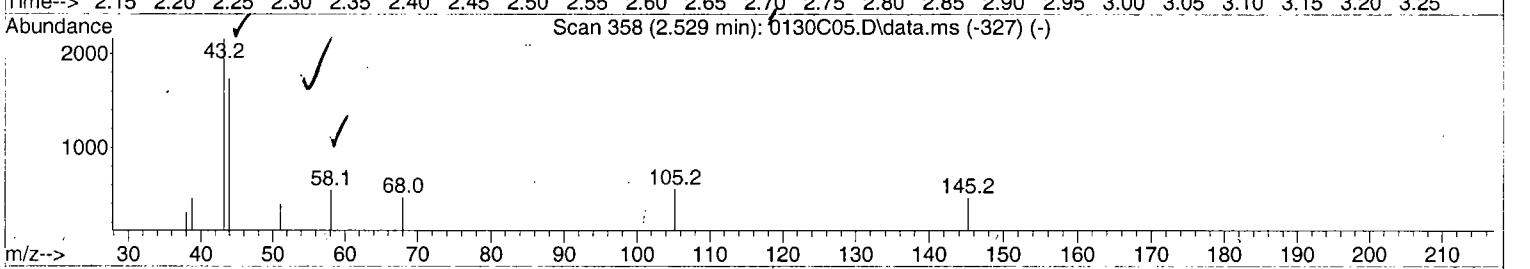
Freedom_0005792_0404

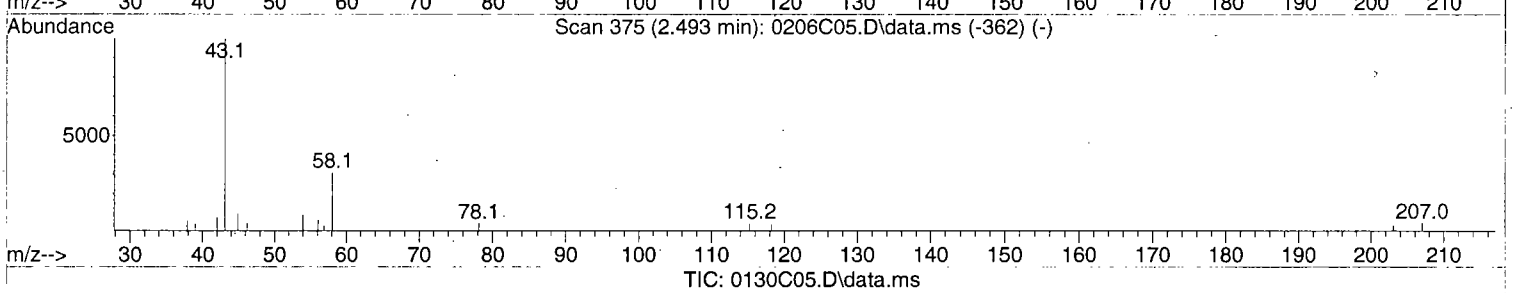
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C05.D
Acq On : 30 Jan 2014 10:32
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 30 11:02:47 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







(8) ACETONE (TMCP)

2.510min (+0.011) 6.68 ug/L m

response 34239

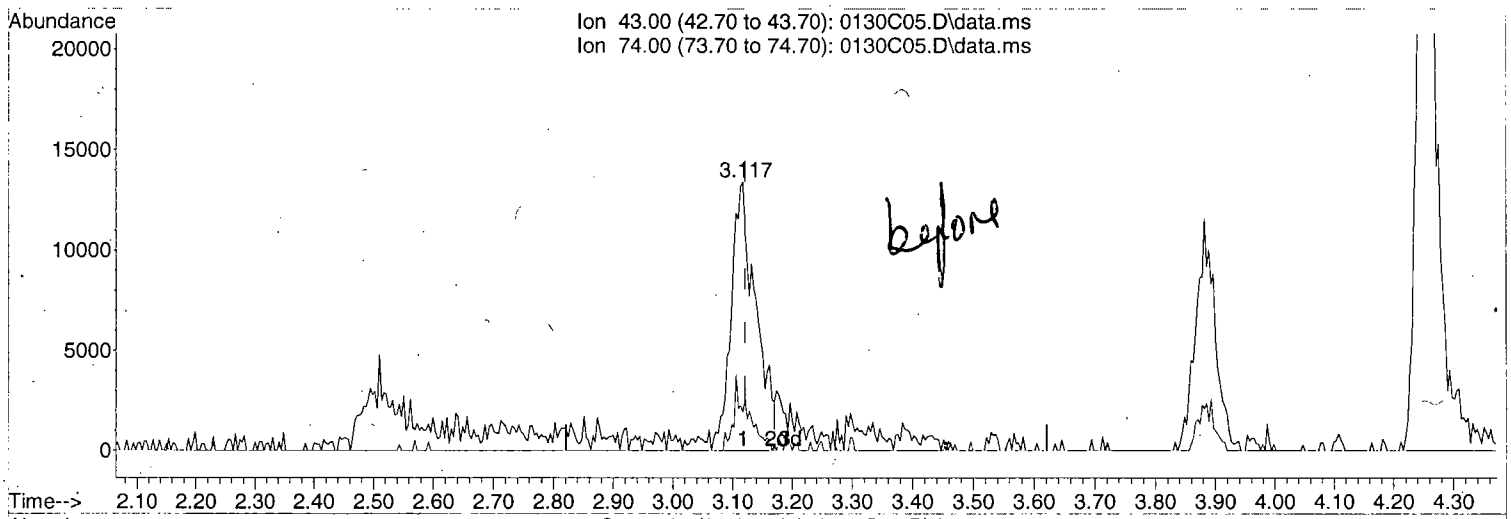
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	3.15#
0.00	0.00	0.00
0.00	0.00	0.00

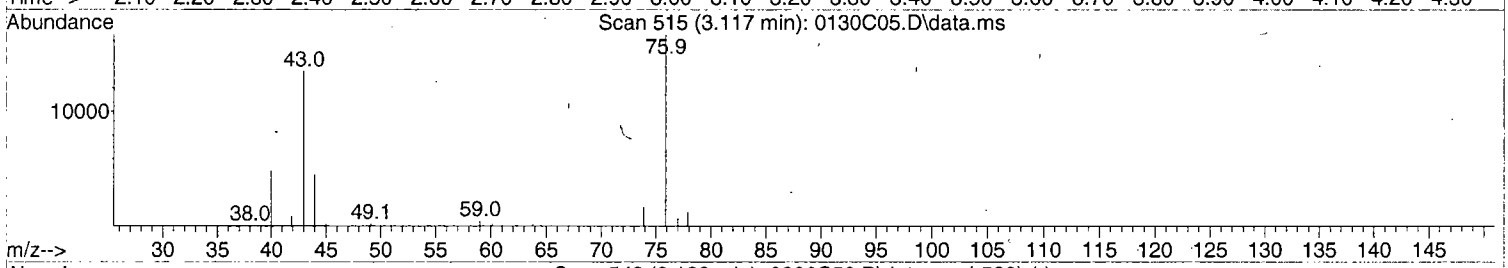
Freedom_0005792_0405

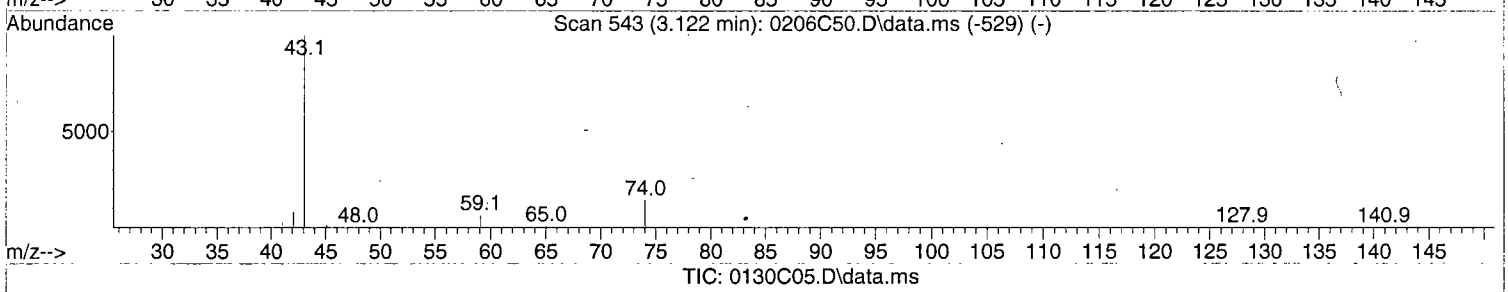
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C05.D
Acq On : 30 Jan 2014 10:32
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 30 11:02:47 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C05.D\data.ms

(13) METHYL ACETATE (TMCP)

3.117min (-0.004) 4.37 ug/L

response 38659

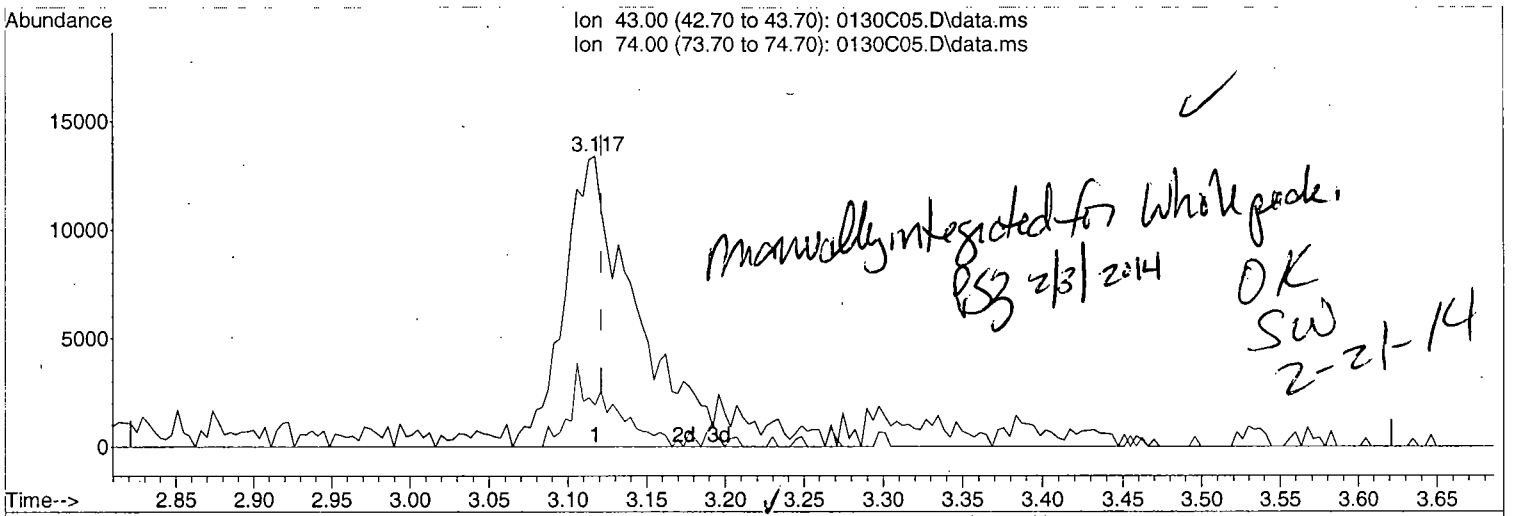
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	16.74
0.00	0.00	0.00
0.00	0.00	0.00

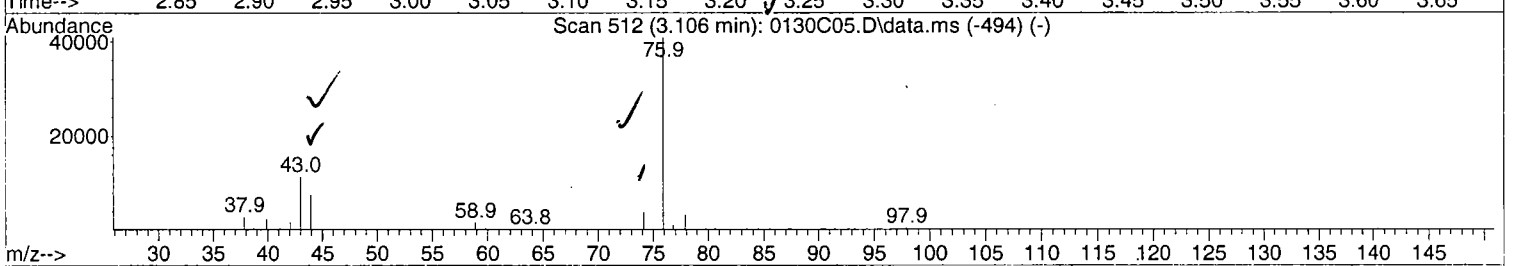
Freedom_0005792_0406

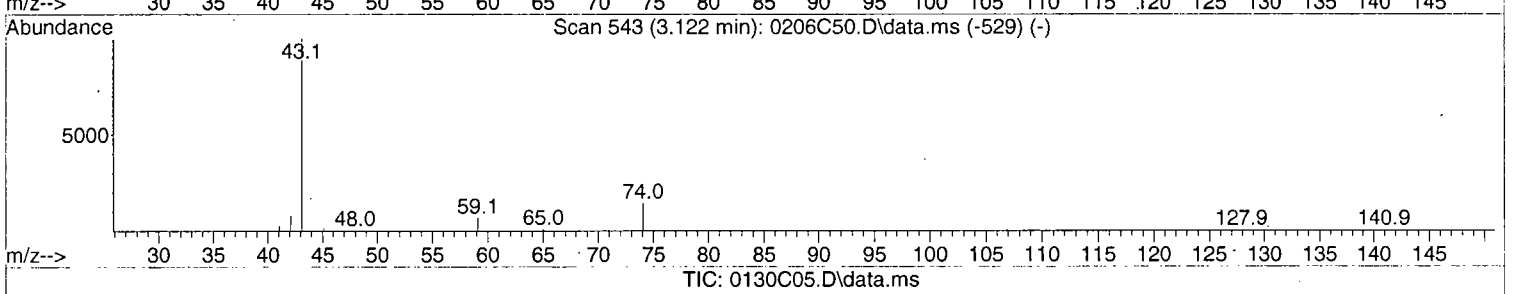
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C05.D
Acq On : 30 Jan 2014 10:32
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 30 11:02:47 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







(13) METHYL ACETATE (TMCP)

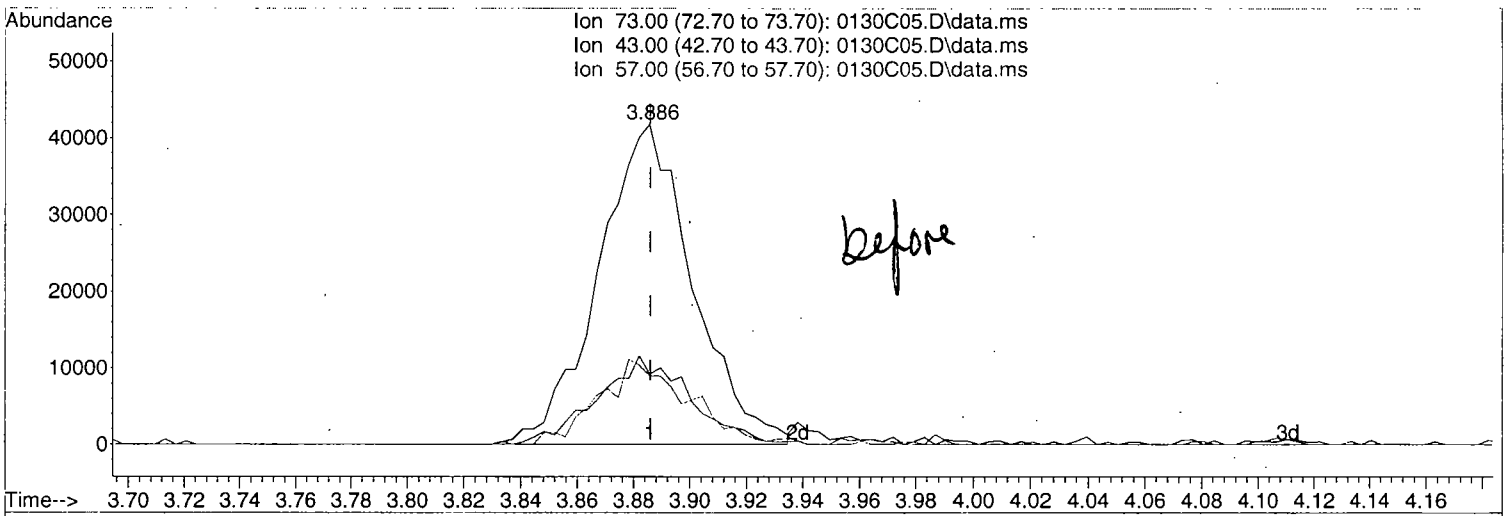
3.117min (-0.004) 5.27 ug/L m

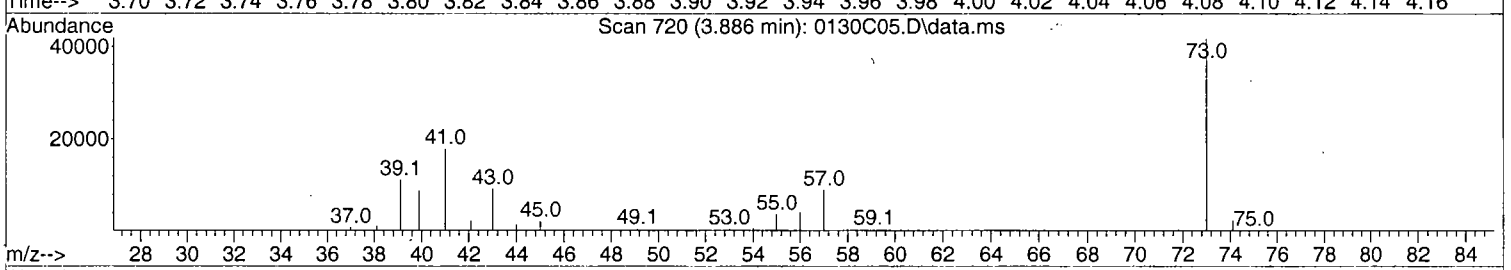
response 46684

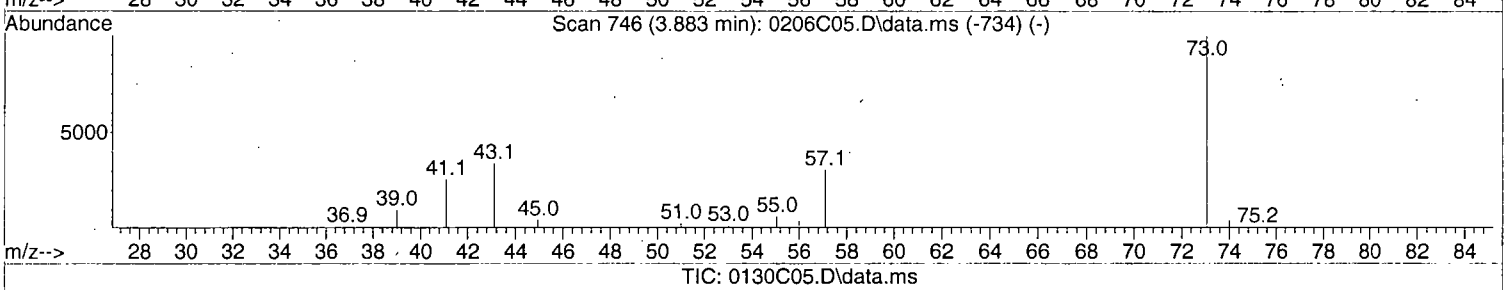
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	13.86#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\DATA\L01302014\
Data File : 0130C05.D
Acq On : 30 Jan 2014 10:32
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 30 11:02:47 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C05.D\data.ms

(15) METHYL-TERT-BUTYL ETHER (TMCP)

3.886min (-0.000) 4.91 ug/L

response 96911

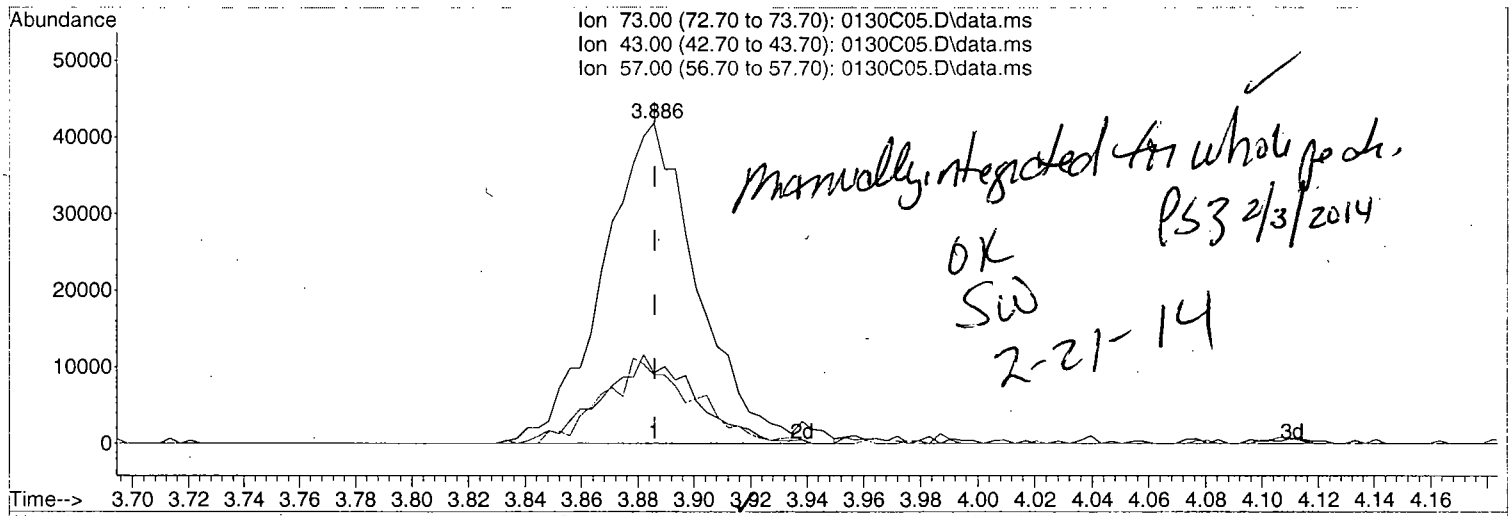
Ion	Exp%	Act%
73.00	100	100
43.00	22.10	27.26#
57.00	21.50	24.89
0.00	0.00	0.00

Freedom_0005792_0408

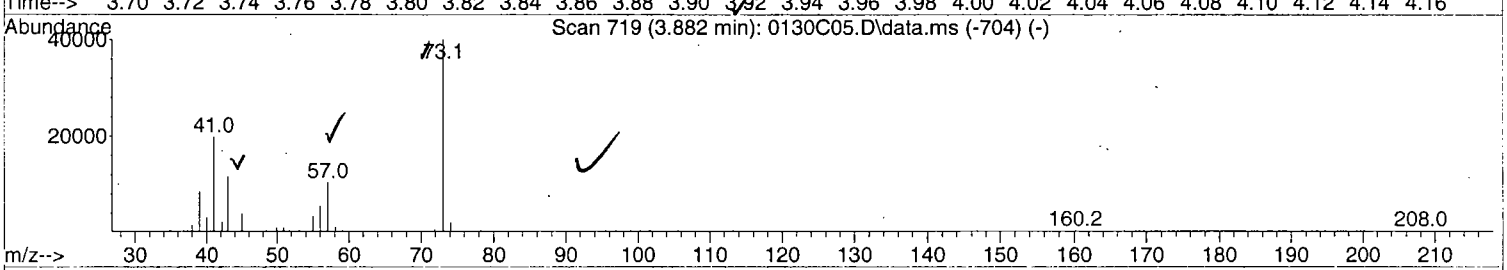
Quantitation Report (Qedit)

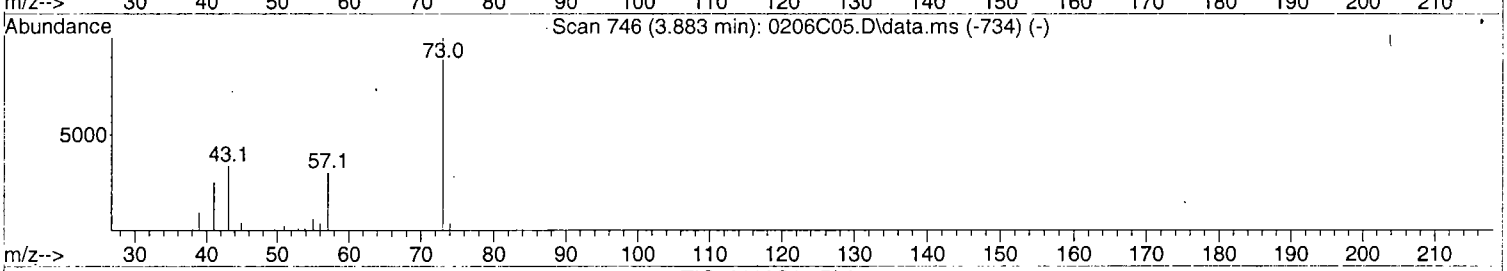
Data Path : D:\DATA\L01302014\
Data File : 0130C05.D
Acq On : 30 Jan 2014 10:32
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 30 11:02:47 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



manually integrated for whole peak.
PS3 2/3/2014
OK
SW
2-21-14





TIC: 0130C05.D\data.ms

(15) METHYL-TERT-BUTYL ETHER (TMCP)

3.886min (-0.000) 4.99 ug/L m

response 98500

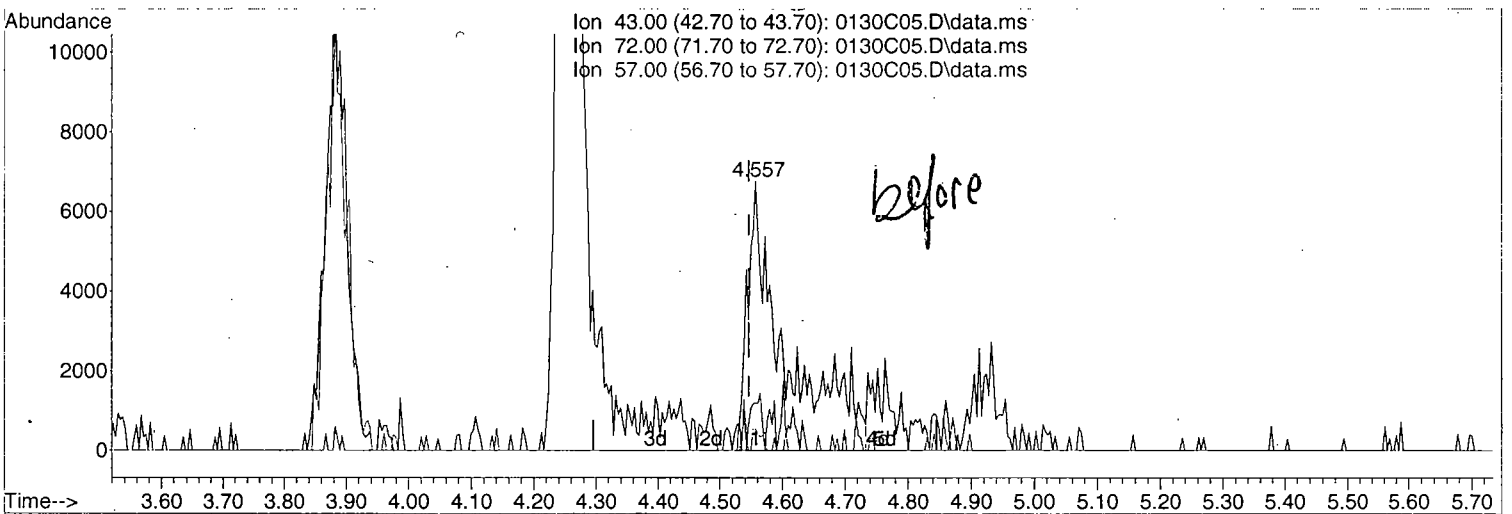
Ion	Exp%	Act%
73.00	100	100
43.00	22.10	26.82#
57.00	21.50	24.49
0.00	0.00	0.00

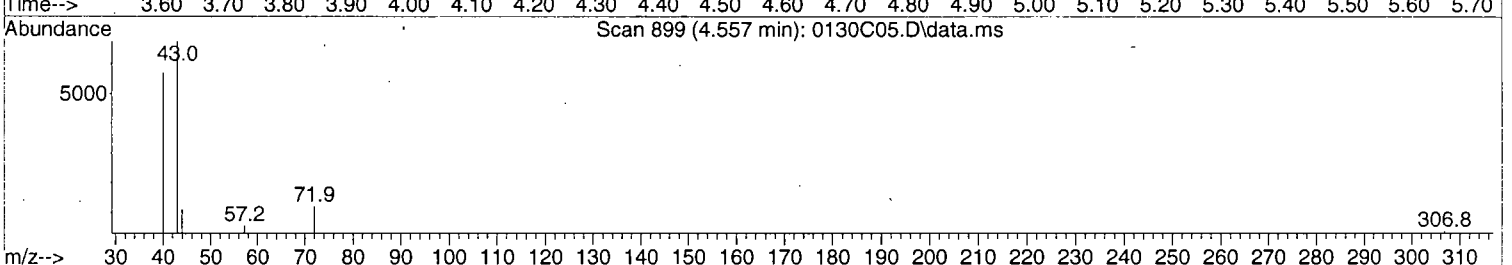
Freedom_0005792_0409

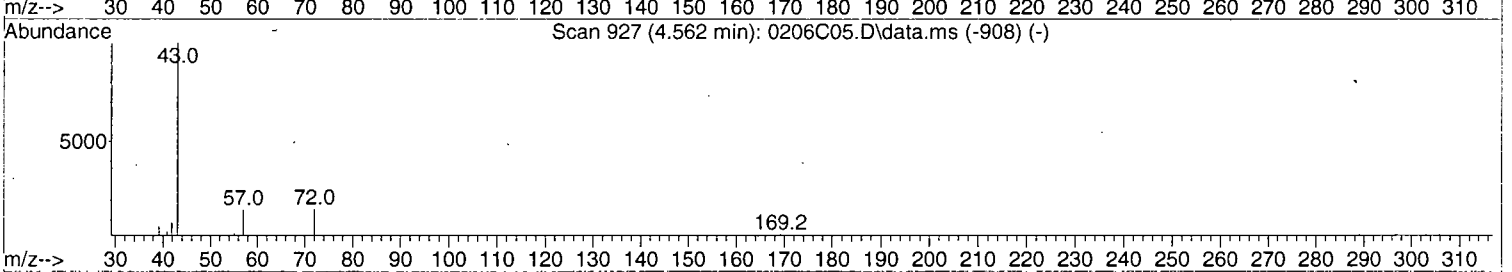
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C05.D
Acq On : 30 Jan 2014 10:32
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 30 11:02:47 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C05.D\data.ms

(18) 2-BUTANONE (TMCP)

4.557min (+0.011) 5.13 ug/L

response 28525

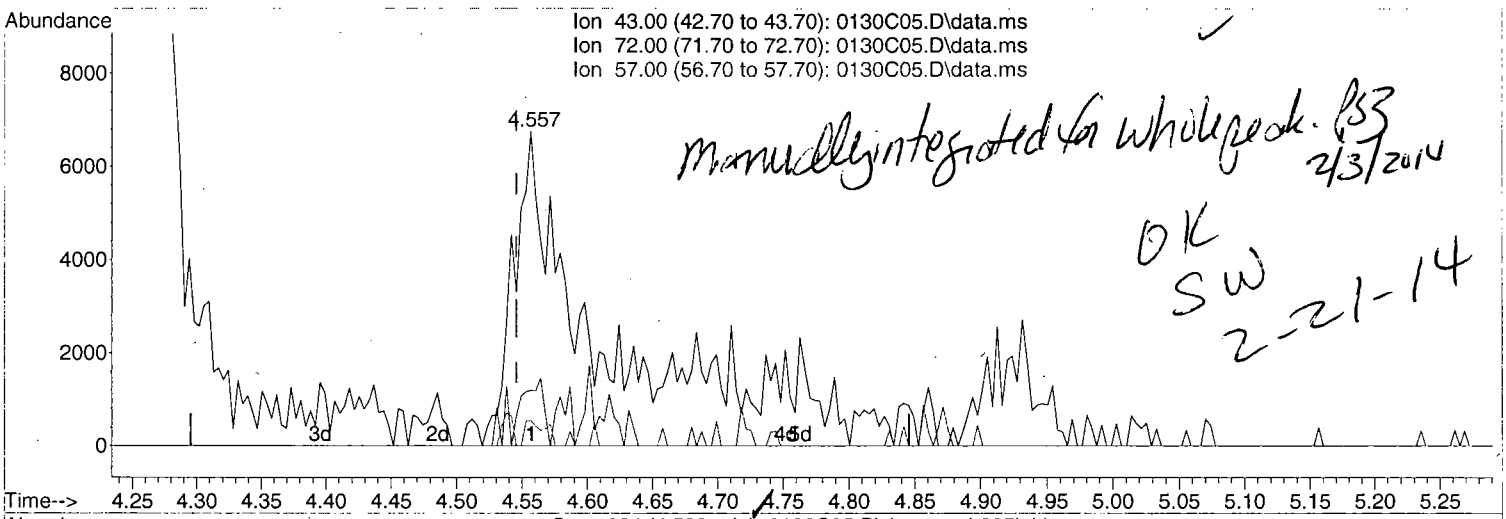
Ion	Exp%	Act%
43.00	100	100
72.00	18.60	5.86#
57.00	7.60	2.12#
0.00	0.00	0.00

Freedom_0005792_0410

Quantitation Report (Qedit)

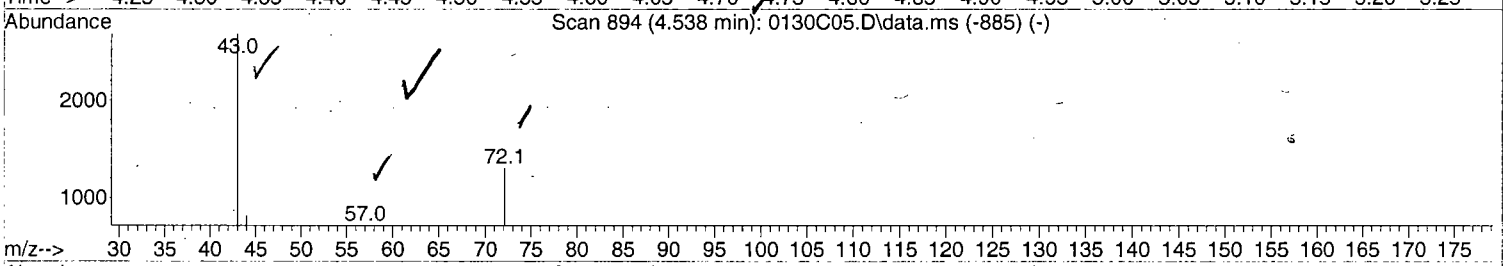
Data Path : D:\DATA\L01302014\
Data File : 0130C05.D
Acq On : 30 Jan 2014 10:32
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

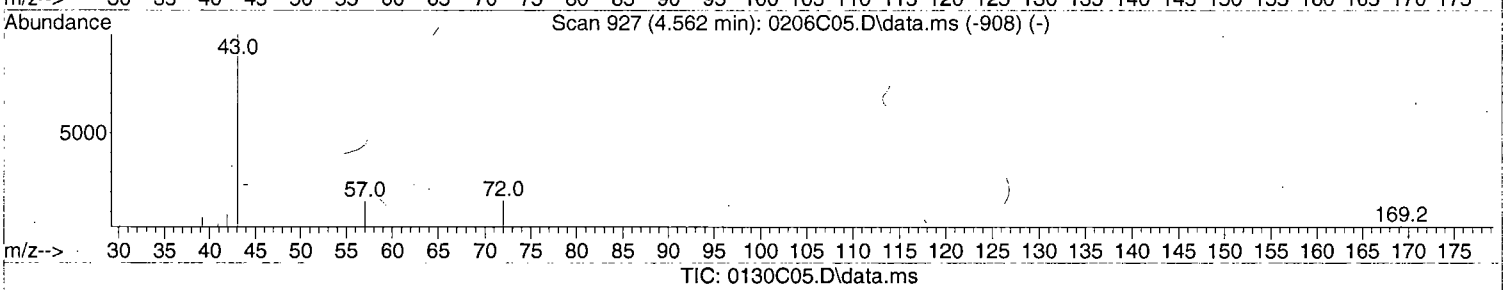
Quant Time: Jan 30 11:02:47 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



Manually integrated for whole peak. BS 2/3/2014

OK SW 2-21-14





TIC: 0130C05.D\data.ms

(18) 2-BUTANONE (TMCP)

4.557min (+0.011) 5.96 ug/L m

response 33169

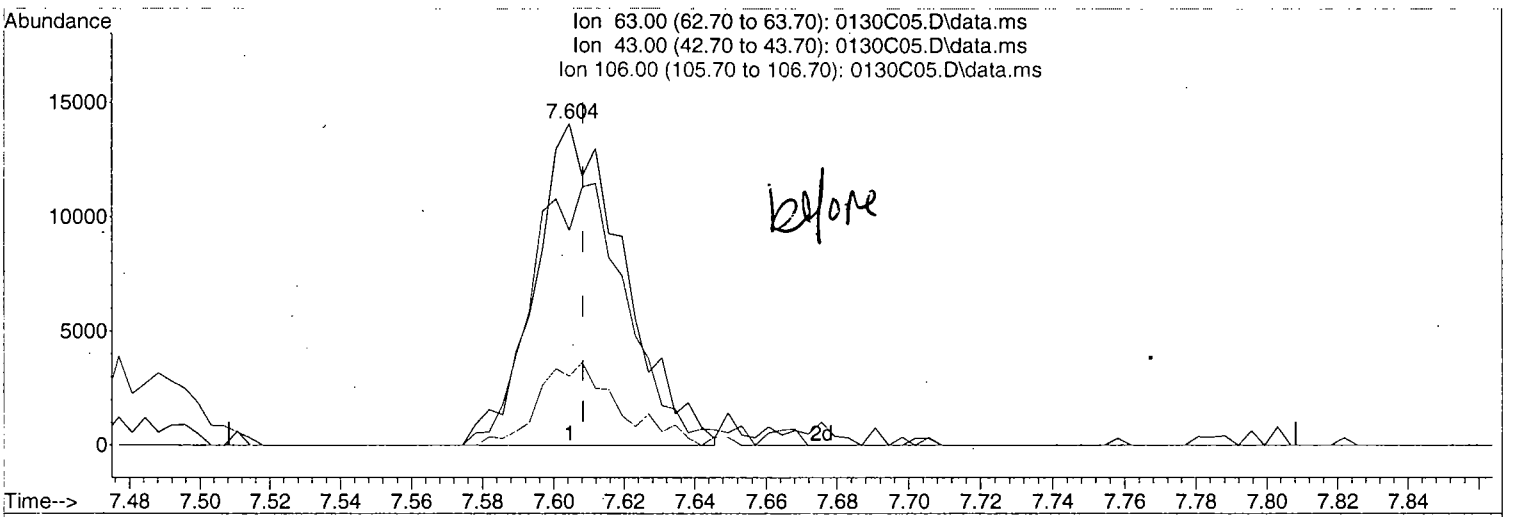
Ion	Exp%	Act%
43.00	100	100
72.00	18.60	5.04#
57.00	7.60	1.83#
0.00	0.00	0.00

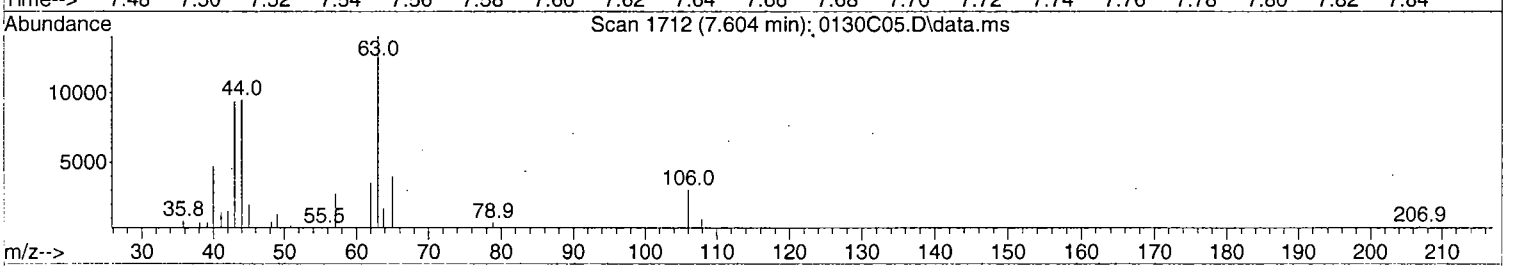
Freedom_0005792_0411

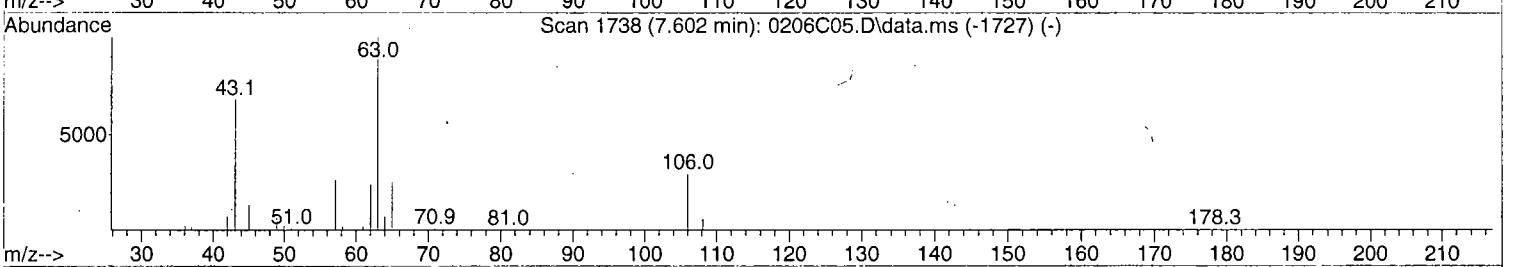
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C05.D
Acq On : 30 Jan 2014 10:32
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 30 11:02:47 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration







TIC: 0130C05.D\data.ms

(35) 2-CHLOROETHYLVINYL ETHER (TMCP)

7.604min (-0.004) 4.78 ug/L

response 24593

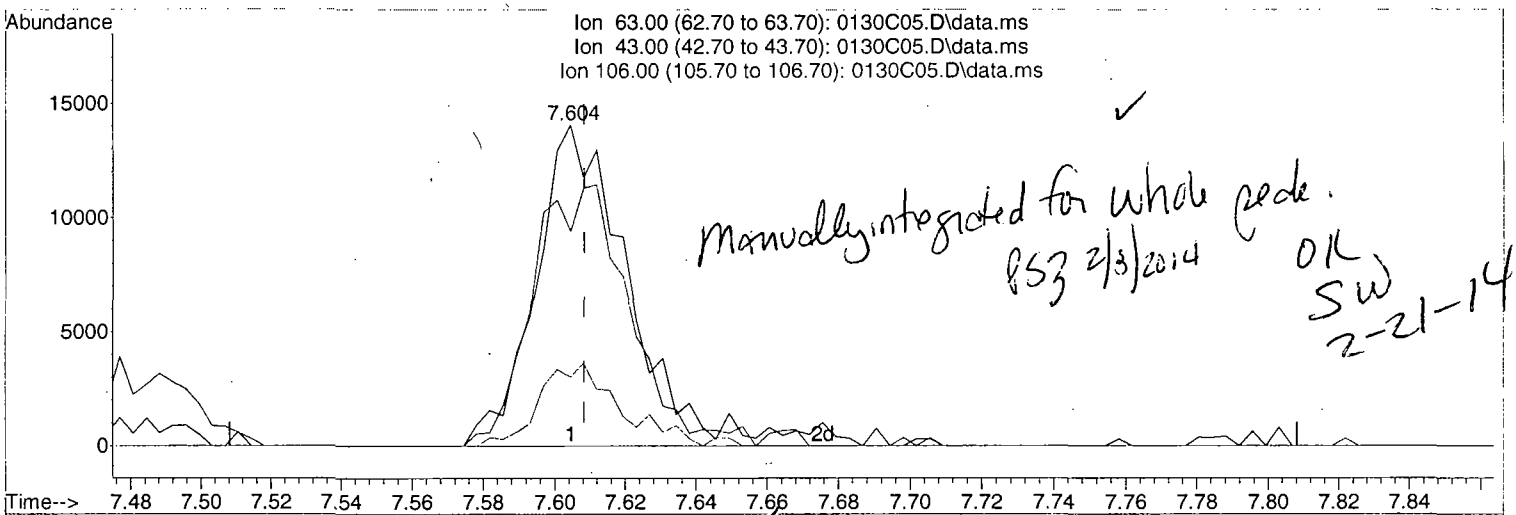
Ion	Exp%	Act%
63.00	100	100
43.00	73.00	88.60#
106.00	30.00	23.14#
0.00	0.00	0.00

Freedom_0005792_0412

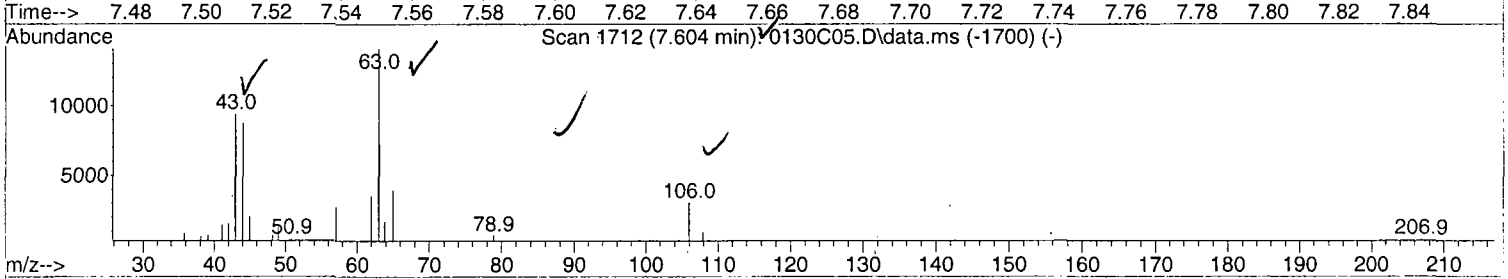
Quantitation Report (Qedit)

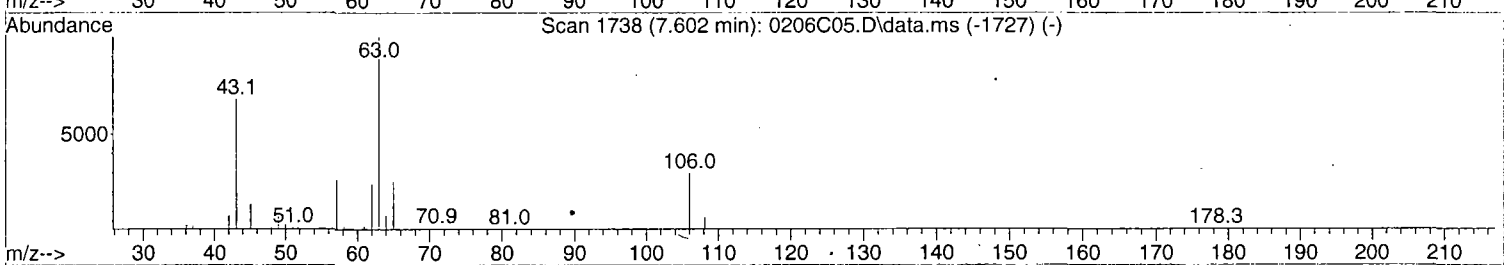
Data Path : D:\DATA\L01302014\
Data File : 0130C05.D
Acq On : 30 Jan 2014 10:32
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 30 11:02:47 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Jan 14 14:18:43 2014
Response via : Initial Calibration



Manually integrated for whole peak. RSJ 2/3/2014 OK SW 2-21-14





TIC: 0130C05.D\data.ms

(35) 2-CHLOROETHYLVINYL ETHER (TMCP)

7.604min (-0.004) 5.06 ug/L m

response 26036

Ion	Exp%	Act%
63.00	100	100
43.00	73.00	83.69
106.00	30.00	21.86#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 0130C10.D
Acq On : 30 Jan 2014 11:00
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 30 11:21:32 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 11:18:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.529	114	119472	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.341	117	113298	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.811	152	71837	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.498	65	62335	5.11	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery = 102.20%			
41) TOLUENE-d8	8.620	98	151932	5.21	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery = 104.20%			
59) 4-BROMOFLUOROBENZENE	11.645	95	71321	5.28	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery = 105.60%			
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.310	85	116414	10.33	ug/L	99
3) CHLOROMETHANE	1.419	50	127697	9.98	ug/L	96
4) VINYL CHLORIDE	1.535	62	97426	10.61	ug/L	93
5) BROMOMETHANE	1.790	94	44993	9.56	ug/L	96
6) CHLOROETHANE	1.895	64	55576	10.16	ug/L	100
7) TRICHLOROFLUOROMETHANE	2.326	101	189452	10.27	ug/L	98
8) ACETONE	2.503	43	56513m	10.10	ug/L	
9) 1,1-DICHLOROETHENE	2.806	96	61914	10.26	ug/L #	58
10) METHYLENE CHLORIDE	2.982	84	97782	10.72	ug/L #	71
11) Freon 113	3.054	101	101636	10.52	ug/L #	82
12) CARBON DISULFIDE	3.095	76	272412	10.30	ug/L	100
13) METHYL ACETATE	3.117	43	82151m	8.73	ug/L	
14) TRANS-1,2-DICHLOROETHENE	3.698	96	93292	10.58	ug/L	91
15) METHYL-TERT-BUTYL ETHER	3.886	73	217285	10.23	ug/L #	90
16) 1,1-DICHLOROETHANE	3.968	63	193908	10.29	ug/L #	91
17) VINYL ACETATE	4.253	43	190750	10.19	ug/L	96
18) 2-BUTANONE	4.549	43	54869m	9.34	ug/L	
19) CIS-1,2-DICHLOROETHENE	4.620	96	100984	10.94	ug/L	90
20) BROMOCHLOROMETHANE	4.782	128	47322	10.45	ug/L #	55
21) CHLOROFORM	4.860	83	183125	10.18	ug/L	99
22) 2,2-DICHLOROPROPANE	4.928	77	121833	11.18	ug/L	97
24) 1,2-DICHLOROETHANE	5.588	62	181173	10.34	ug/L	98
25) 1,1,1-TRICHLOROETHANE	5.678	97	151238	10.96	ug/L #	91
26) 1,1-DICHLOROPROPENE	5.921	75	135205	11.48	ug/L	93
27) CYCLOHEXANE	5.966	56	193521	10.83	ug/L #	85
28) CARBON TETRACHLORIDE	6.075	117	137937	10.57	ug/L	97
29) BENZENE	6.150	78	410024	10.80	ug/L	99
30) DIBROMOMETHANE	6.791	93	62901	10.06	ug/L #	81
31) 1,2-DICHLOROPROPANE	6.858	63	106557	10.29	ug/L	99
32) TRICHLOROETHENE	6.918	130	119205	10.34	ug/L	89
33) BROMODICHLOROMETHANE	6.967	83	133587	10.49	ug/L	98
34) METHYLCYCLOHEXANE	7.488	83	162208	10.86	ug/L #	87
35) 2-CHLOROETHYLVINYL ETHER	7.604	63	58145	10.76	ug/L #	83
36) CIS-1,3-DICHLOROPROPENE	7.784	75	148756	11.67	ug/L	99
38) 4-METHYL-2-PENTANONE	8.002	43	106161	9.65	ug/L #	90
39) TRANS-1,3-DICHLOROPROPENE	8.335	75	122679	11.33	ug/L	98
40) 1,1,2-TRICHLOROETHANE	8.470	97	92094	10.83	ug/L	99
42) TOLUENE	8.703	92	238218	10.56	ug/L	98
43) 1,3-DICHLOROPROPANE	8.767	76	178442	10.53	ug/L	99
44) CHLORODIBROMOMETHANE	9.018	129	88394	10.52	ug/L	100
45) 2-HEXANONE	9.081	43	71959	9.09	ug/L #	82
46) 1,2-DIBROMOETHANE (EDB)	9.299	107	93972	10.97	ug/L	97

Freedom_0005792_0414

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 0130C10.D
Acq On : 30 Jan 2014 11:00
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 30 11:21:32 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 11:18:25 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47)	TETRACHLOROETHENE	9.554	164	83085	10.23	ug/L		96
48)	1,1,1,2-TETRACHLOROETHANE	10.296	131	89745	10.43	ug/L		98
49)	CHLOROBENZENE	10.371	112	245657	9.77	ug/L		96
50)	ETHYLBENZENE	10.656	91	475062	11.44	ug/L		98
51)	BROMOFORM	10.873	173	57706	9.84	ug/L		98
52)	M-XYLENE/P-XYLENE	10.888	106	368818	23.51	ug/L		95
53)	STYRENE	11.211	104	607627	22.78	ug/L		98
54)	O-XYLENE	11.278	106	385959	22.38	ug/L		98
55)	ISOPROPYLBENZENE	11.649	105	462073	10.74	ug/L		96
57)	1,1,2,2-TETRACHLOROETHANE	11.259	83	82712	10.29	ug/L		93
58)	1,2,3-TRICHLOROPROPANE	11.402	75	103918	9.79	ug/L		96
60)	BROMOBENZENE	11.803	156	120766	10.06	ug/L	#	83
61)	N-PROPYLBENZENE	12.065	91	591083	10.90	ug/L		97
62)	2-CHLOROTOLUENE	12.103	91	367237	10.88	ug/L		92
63)	4-CHLOROTOLUENE	12.182	91	380275	10.71	ug/L		93
64)	1,3,5-TRIMETHYLBENZENE	12.361	105	458912	11.98	ug/L		95
65)	TERT-BUTYLBENZENE	12.568	119	344573	11.18	ug/L		90
66)	1,2,4-TRIMETHYLBENZENE	12.680	105	484885	12.26	ug/L		93
67)	SEC-BUTYLBENZENE	12.755	105	582550	11.04	ug/L		95
68)	1,3-DICHLOROBENZENE	12.766	146	250294	10.11	ug/L		98
69)	1,4-DICHLOROBENZENE	12.830	146	274459	10.43	ug/L		96
70)	P-ISOPROPYLTOLUENE	12.935	119	470380	11.19	ug/L		97
71)	1,2-DICHLOROBENZENE	13.111	146	235541	10.04	ug/L		97
72)	N-BUTYLBENZENE	13.265	91	535019	12.30	ug/L		97
73)	1,2-DIBROMO-3-CHLOROPR...	13.490	75	19117	10.48	ug/L	#	81
74)	1,2,4-TRICHLOROBENZENE	14.554	180	187668	10.86	ug/L	#	96
75)	NAPHTHALENE	14.731	128	406792	11.81	ug/L		98
76)	HEXACHLOROBUTADIENE	14.806	225	121465	11.90	ug/L	#	85
77)	1,2,3-TRICHLOROBENZENE	14.881	180	201388	11.63	ug/L	#	95

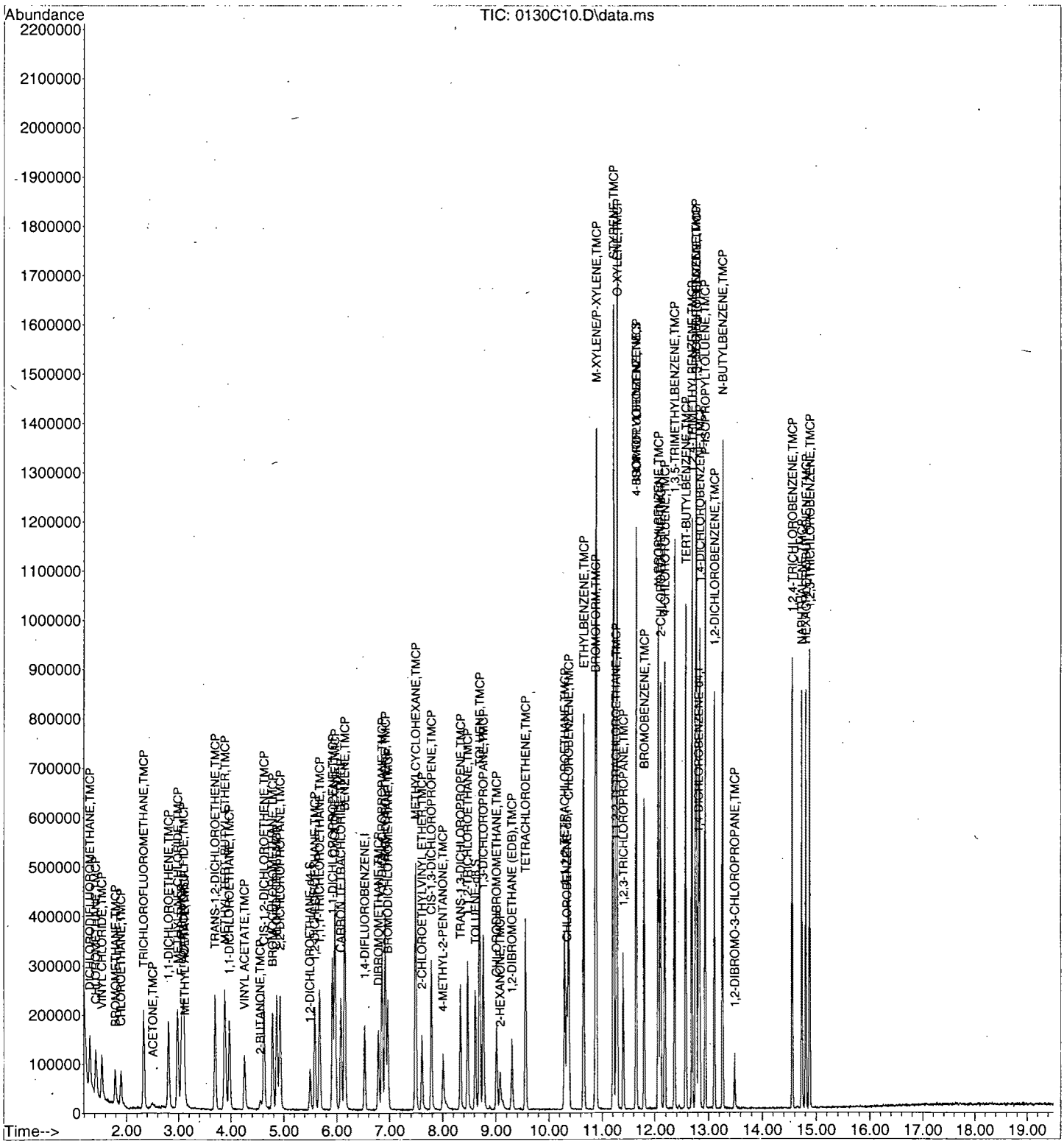
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0415

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 0130C10.D
Acq On : 30 Jan 2014 11:00
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 30 11:21:32 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 11:18:25 2014
Response via : Initial Calibration

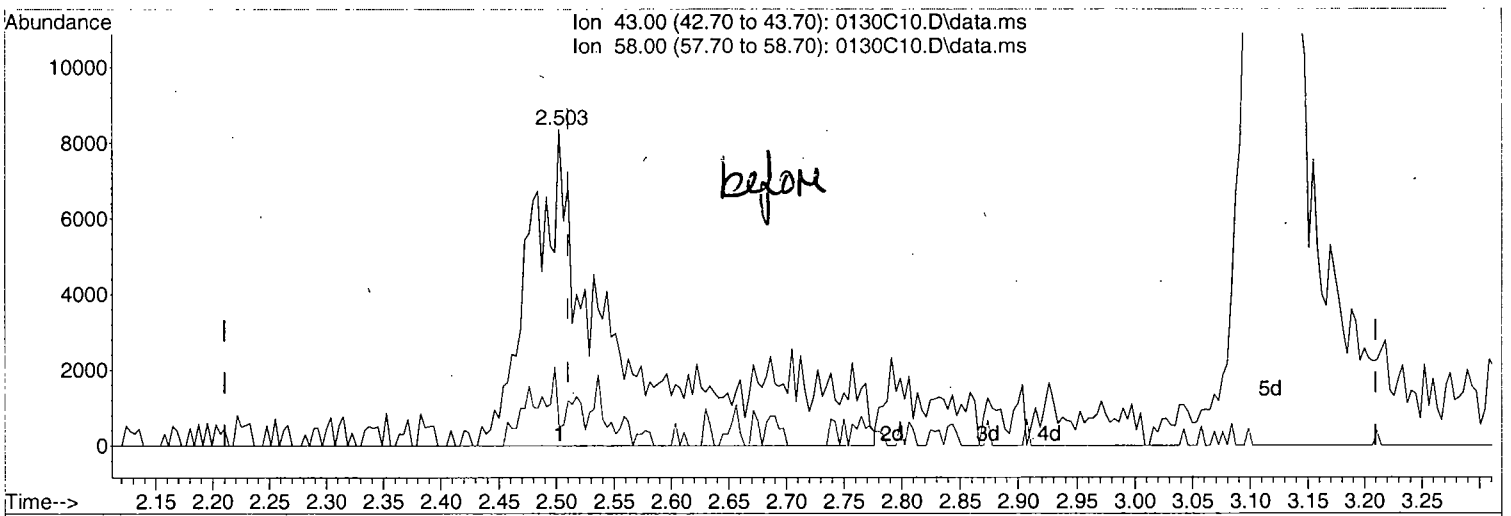


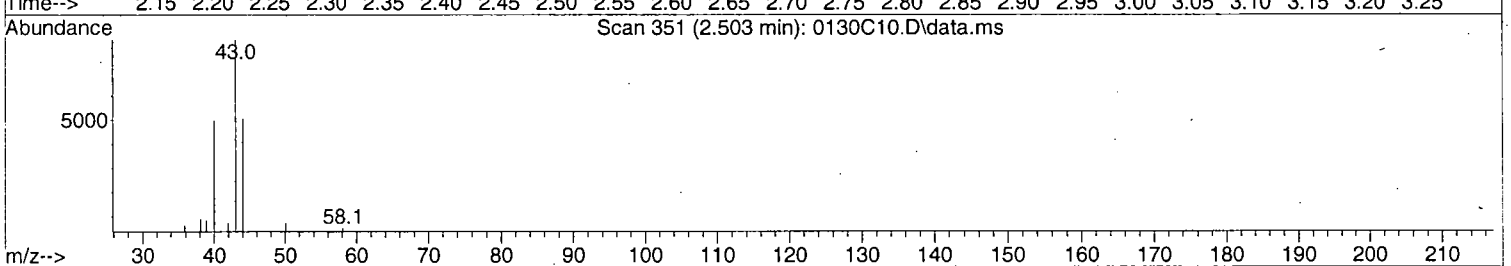
Freedom_0005792_0416

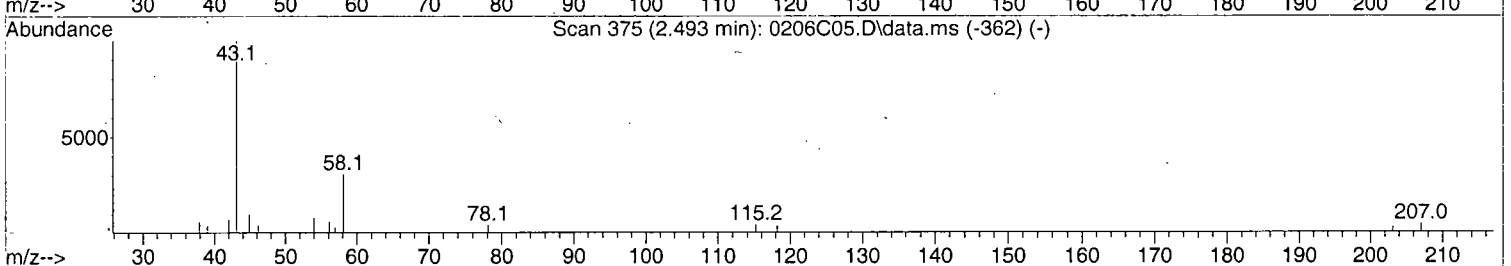
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C10.D
Acq On : 30 Jan 2014 11:00
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 30 11:20:15 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 11:18:25 2014
Response via : Initial Calibration







TIC: 0130C10.D\data.ms

(8) ACETONE (TMCP)

2.503min (-0.007) 8.60 ug/L

response 48099

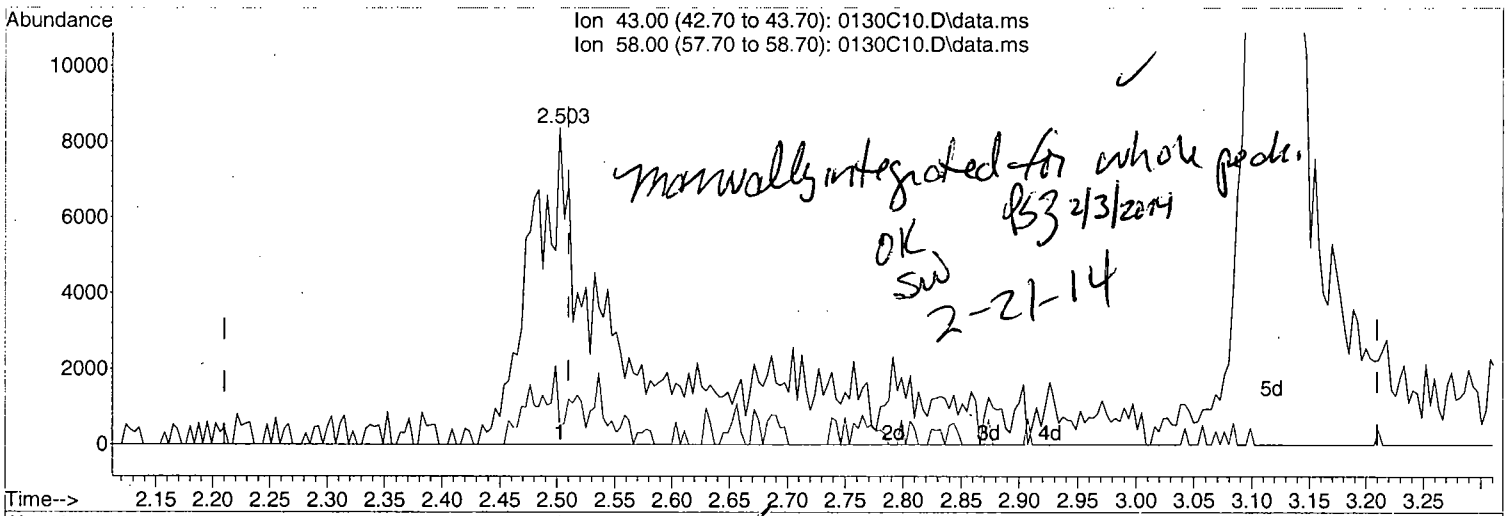
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	2.68#
0.00	0.00	0.00
0.00	0.00	0.00

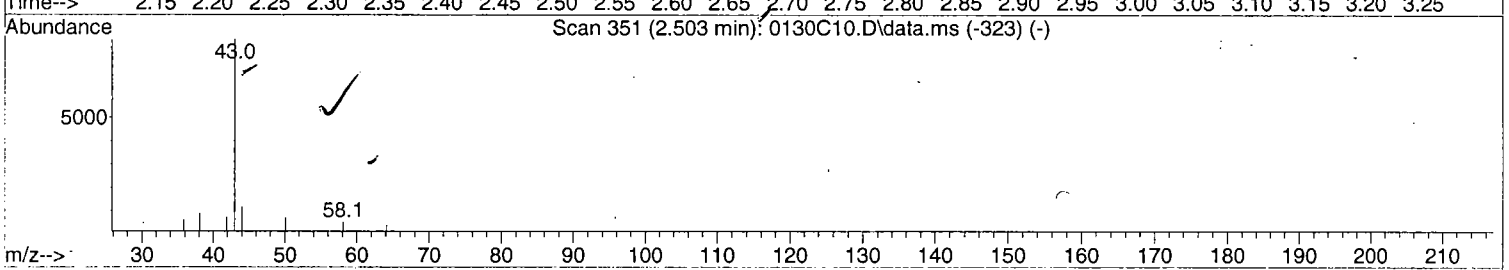
Freedom_0005792_0417

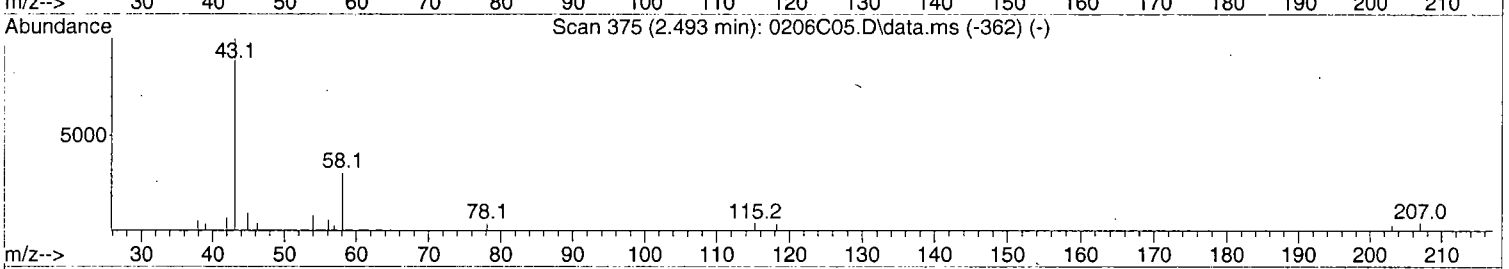
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C10.D
Acq On : 30 Jan 2014 11:00
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 30 11:20:15 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 11:18:25 2014
Response via : Initial Calibration







TIC: 0130C10.D\data.ms

(8) ACETONE (TMCP)

2.503min (-0.007) 10.10 ug/L m

response 56513

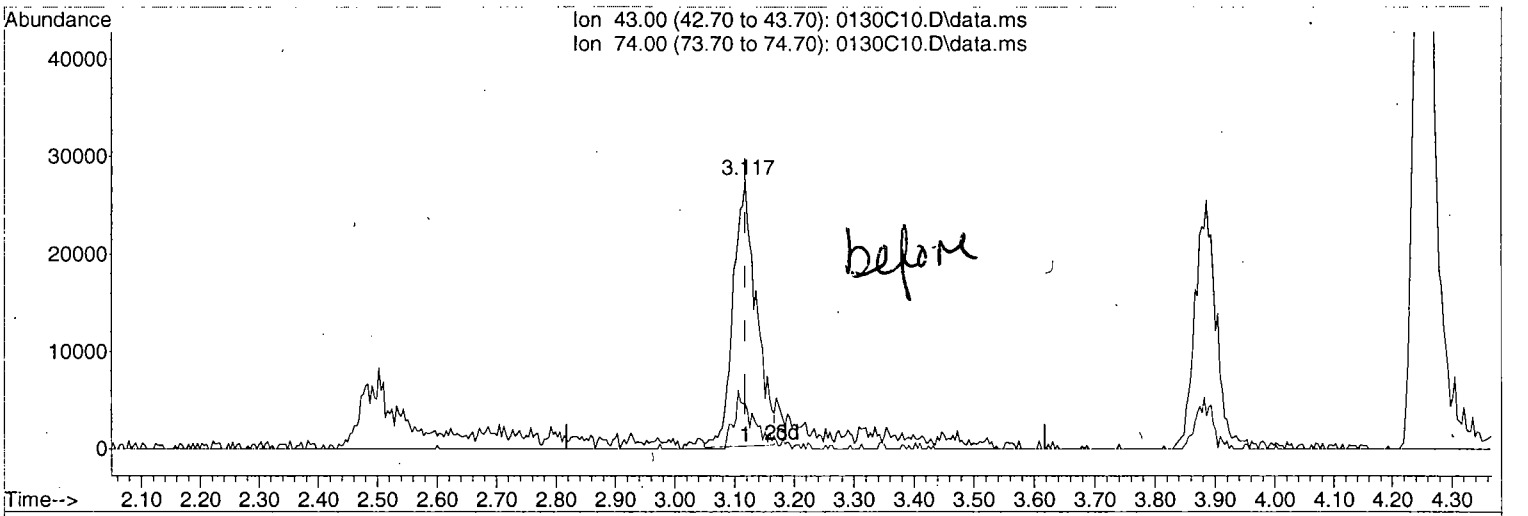
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	2.28#
0.00	0.00	0.00
0.00	0.00	0.00

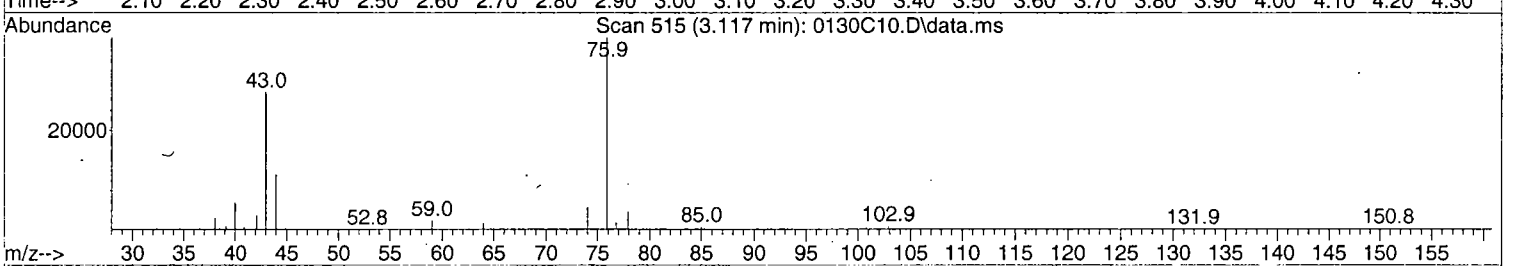
Freedom_0005792_0418

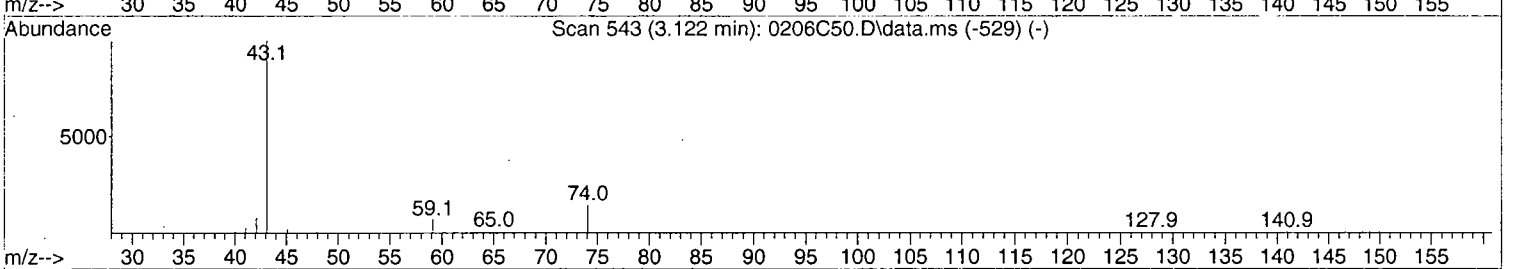
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C10.D
Acq On : 30 Jan 2014 11:00
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 30 11:20:15 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 11:18:25 2014
Response via : Initial Calibration







TIC: 0130C10.D\data.ms

(13) METHYL ACETATE (TMCP)

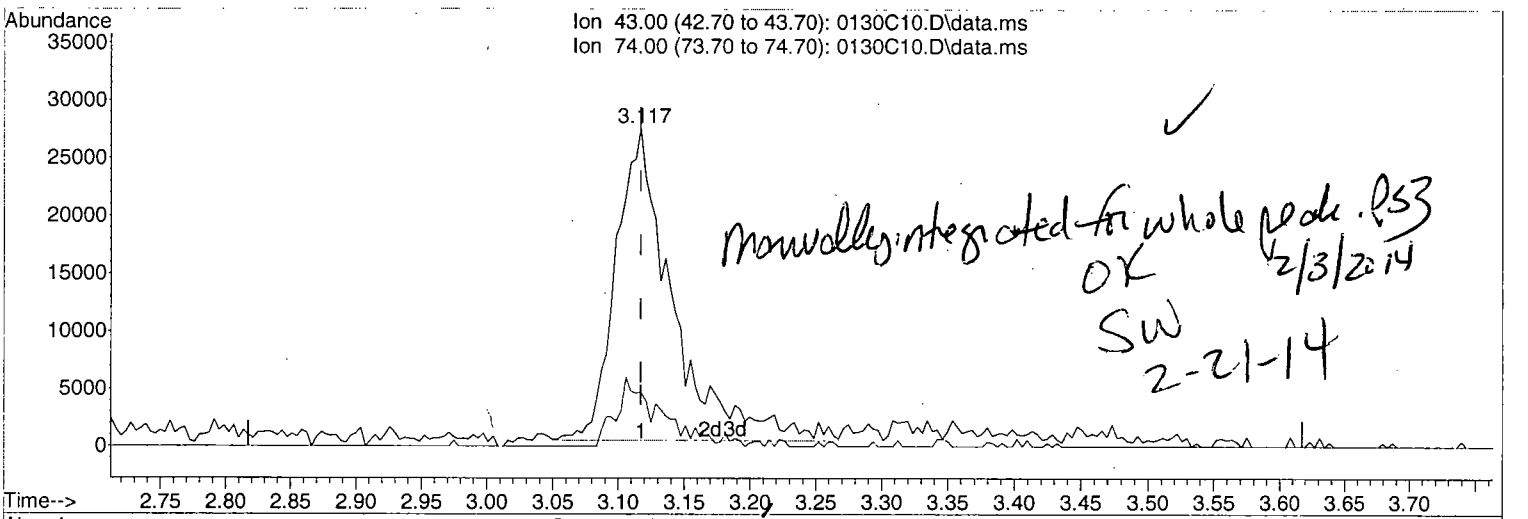
3.117min (+0.000) 7.77 ug/L

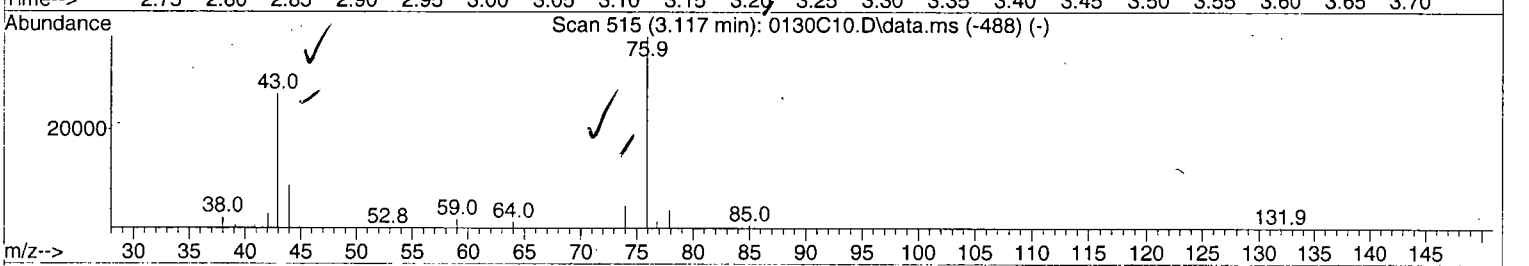
response 73080

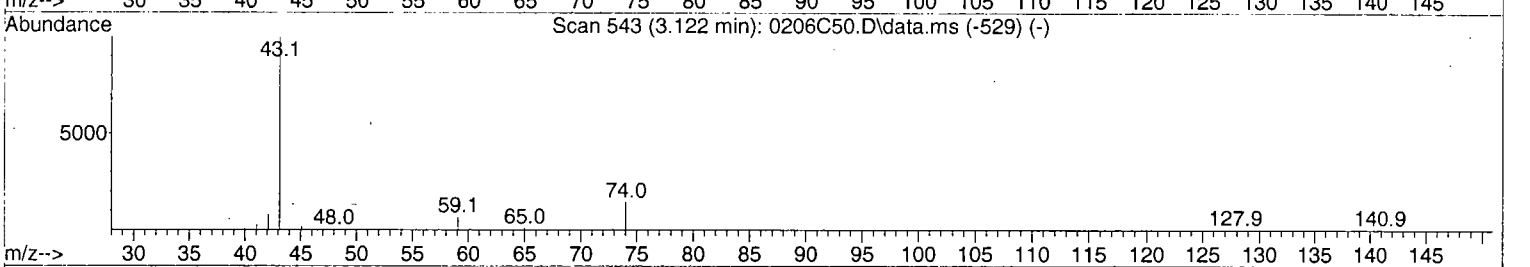
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	4.12#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\DATA\L01302014\
Data File : 0130C10.D
Acq On : 30 Jan 2014 11:00
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 30 11:20:15 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 11:18:25 2014
Response via : Initial Calibration







TIC: 0130C10.D\data.ms

(13) METHYL ACETATE (TMCP)

3.117min (+0.000) 8.73 ug/L m

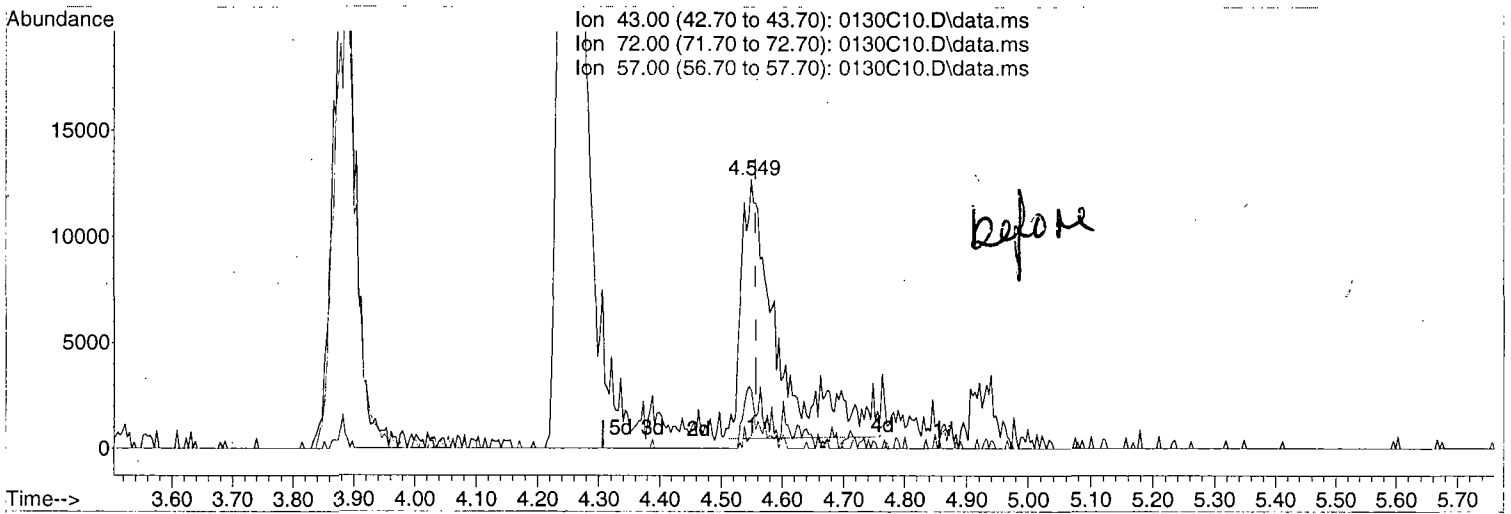
response 82151

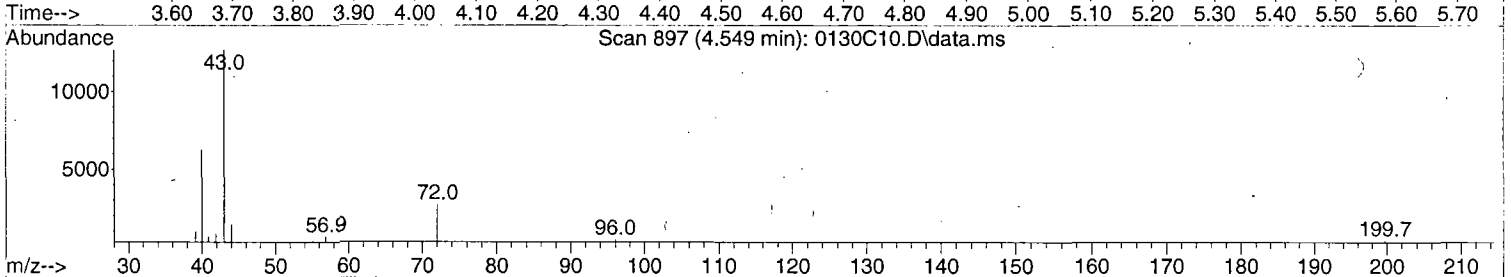
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	3.67#
0.00	0.00	0.00
0.00	0.00	0.00

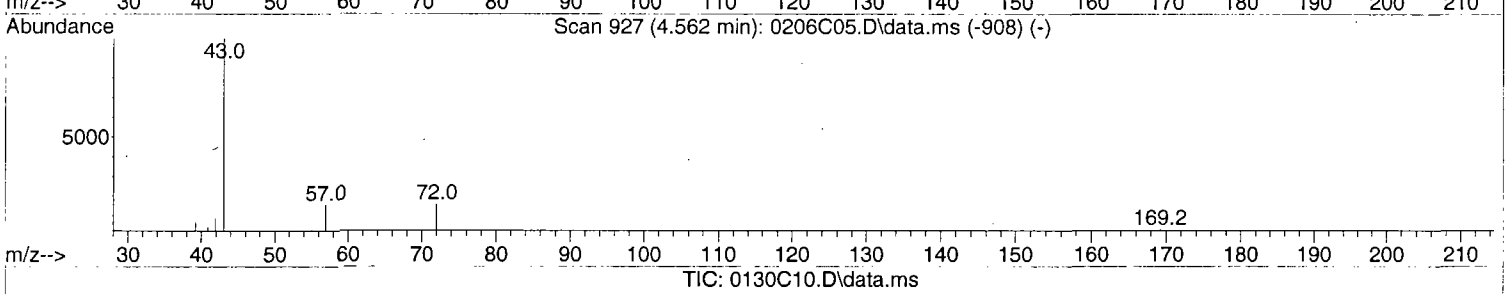
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C10.D
Acq On : 30 Jan 2014 11:00
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 30 11:20:15 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 11:18:25 2014
Response via : Initial Calibration







(18) 2-BUTANONE (TMCP)

4.549min (-0.007) 8.80 ug/L

response 51732

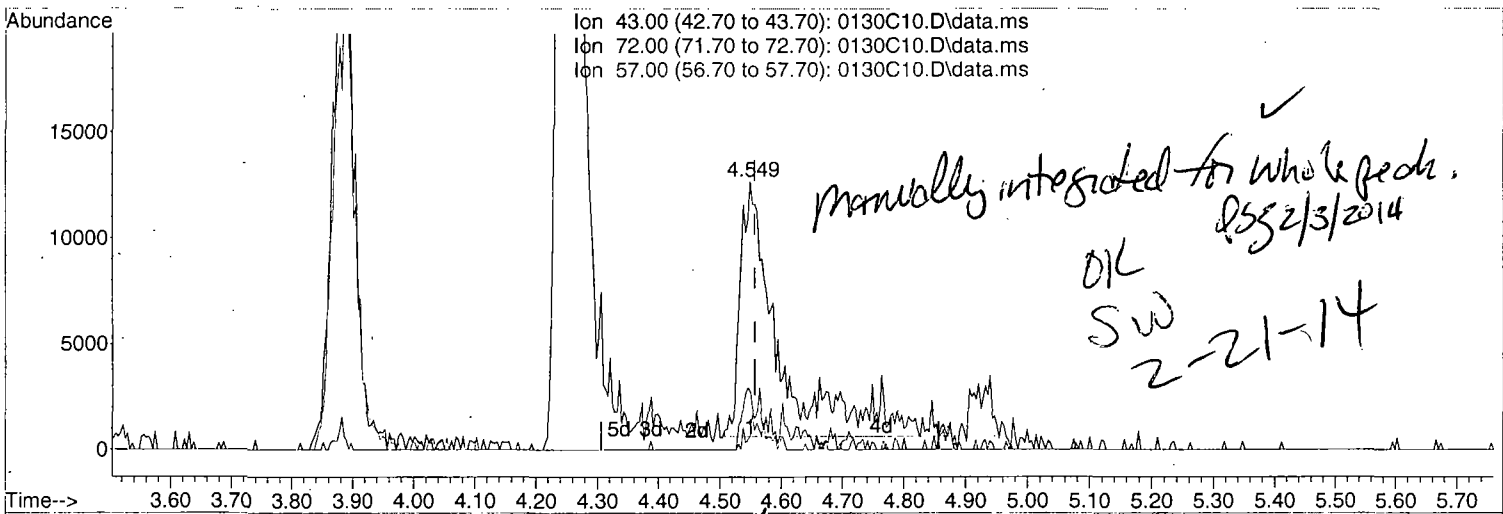
Ion	Exp%	Act%
43.00	100	100
72.00	18.60	7.15#
57.00	7.60	4.63#
0.00	0.00	0.00

Freedom_0005792_0421

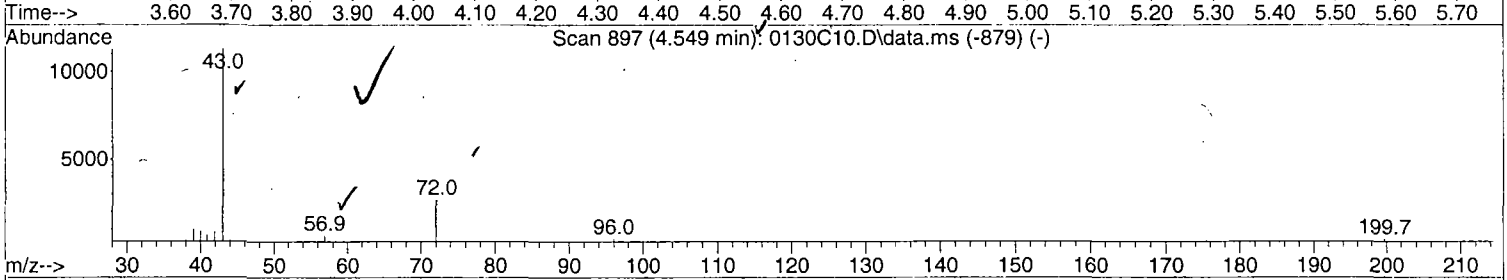
Quantitation Report (Qedit)

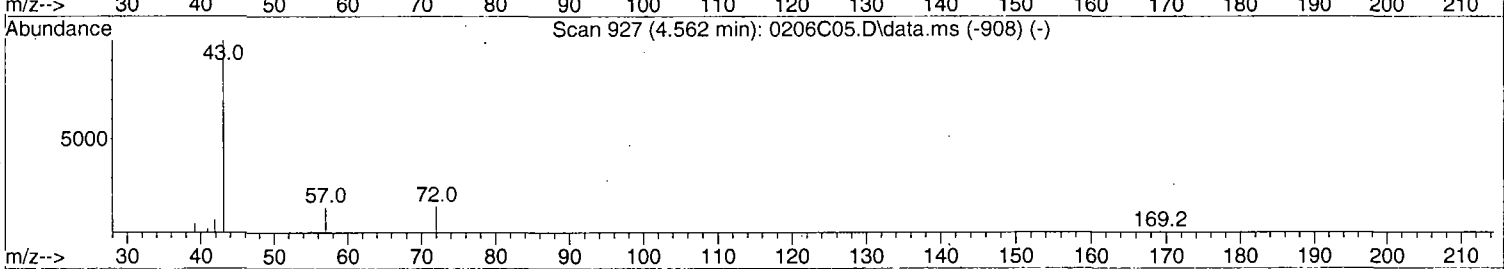
Data Path : D:\DATA\L01302014\
Data File : 0130C10.D
Acq On : 30 Jan 2014 11:00
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 30 11:20:15 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 11:18:25 2014
Response via : Initial Calibration



manually integrated for whole peak. 2/3/2014
OK
SW
2-21-14





TIC: 0130C10.D\data.ms

(18) 2-BUTANONE (TMCP)

4.549min (-0.007) 9.34 ug/L m

response 54869

Ion	Exp%	Act%
43.00	100	100
72.00	18.60	6.74#
57.00	7.60	4.37#
0.00	0.00	0.00

Freedom_0005792_0422

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 0130C20.D
Acq On : 30 Jan 2014 11:28
Operator : PZ PZ1-AG5975
Sample : 20 ppb; 10uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 30 13:28:13 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 11:22:27 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.529	114	130210	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.341	117	125164	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.807	152	80686	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.501	65	64288	4.76	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	=	95.20%	
41) TOLUENE-d8	8.620	98	168232	5.20	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	=	104.00%	
59) 4-BROMOFLUOROBENZENE	11.645	95	77707	5.11	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	=	102.20%	
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.310	85	226442	18.23	ug/L	99
3) CHLOROMETHANE	1.419	50	252473	17.85	ug/L	99
4) VINYL CHLORIDE	1.535	62	191922	18.79	ug/L	95
5) BROMOMETHANE	1.790	94	92802	18.05	ug/L	98
6) CHLOROETHANE	1.899	64	110433	18.32	ug/L	96
7) TRICHLOROFLUOROMETHANE	2.330	101	372404	18.23	ug/L	97
8) ACETONE	2.484	43	123600	20.82	ug/L #	54
9) 1,1-DICHLOROETHENE	2.810	96	128973	19.28	ug/L #	62
10) METHYLENE CHLORIDE	2.982	84	195711	18.68	ug/L #	69
11) Freon 113	3.061	101	201335	18.36	ug/L #	84
12) CARBON DISULFIDE	3.091	76	548225	18.73	ug/L	98
13) METHYL ACETATE	3.110	43	176283	17.50	ug/L #	91
14) TRANS-1,2-DICHLOROETHENE	3.698	96	196082	20.08	ug/L	90
15) METHYL-TERT-BUTYL ETHER	3.886	73	468270	20.13	ug/L #	90
16) 1,1-DICHLOROETHANE	3.968	63	397907	19.18	ug/L	98
17) VINYL ACETATE	4.257	43	411714	20.08	ug/L #	94
18) 2-BUTANONE	4.545	43	125925	20.20	ug/L #	73
19) CIS-1,2-DICHLOROETHENE	4.617	96	212038	20.69	ug/L	91
20) BROMOCHLOROMETHANE	4.778	128	101746	20.46	ug/L #	57
21) CHLOROFORM	4.864	83	389626	19.70	ug/L	100
22) 2,2-DICHLOROPROPANE	4.928	77	262205	21.50	ug/L	97
24) 1,2-DICHLOROETHANE	5.588	62	369034	18.95	ug/L #	97
25) 1,1,1-TRICHLOROETHANE	5.678	97	328588	21.26	ug/L	95
26) 1,1-DICHLOROPROPENE	5.917	75	300437	22.70	ug/L	95
27) CYCLOHEXANE	5.966	56	412638	21.05	ug/L	85
28) CARBON TETRACHLORIDE	6.079	117	292693	20.13	ug/L	99
29) BENZENE	6.150	78	839002	19.98	ug/L	98
30) DIBROMOMETHANE	6.787	93	132791	19.24	ug/L #	82
31) 1,2-DICHLOROPROPANE	6.858	63	224324	19.64	ug/L	99
32) TRICHLOROETHENE	6.918	130	259897	20.44	ug/L	90
33) BROMODICHLOROMETHANE	6.967	83	294888	21.04	ug/L	99
34) METHYLCYCLOHEXANE	7.488	83	351134	21.45	ug/L #	86
35) 2-CHLOROETHYLVINYL ETHER	7.608	63	117592	19.91	ug/L #	81
36) CIS-1,3-DICHLOROPROPENE	7.784	75	329157	23.20	ug/L	99
38) 4-METHYL-2-PENTANONE	8.005	43	233683	19.29	ug/L #	93
39) TRANS-1,3-DICHLOROPROPENE	8.339	75	279412	22.95	ug/L	99
40) 1,1,2-TRICHLOROETHANE	8.470	97	187934	19.71	ug/L	97
42) TOLUENE	8.703	92	516259	20.55	ug/L	99
43) 1,3-DICHLOROPROPANE	8.770	76	372174	19.51	ug/L	98
44) CHLORODIBROMOMETHANE	9.014	129	193447	20.74	ug/L	97
45) 2-HEXANONE	9.081	43	181423	21.23	ug/L #	88
46) 1,2-DIBROMOETHANE (EDB)	9.299	107	196807	20.38	ug/L	99

Freedom_0005792_0423

Data Path : D:\DATA\L01302014\
Data File : 0130C20.D
Acq On : 30 Jan 2014 11:28
Operator : PZ PZ1-AG5975
Sample : 20 ppb; 10uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 30 13:28:13 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 11:22:27 2014
Response via : Initial Calibration

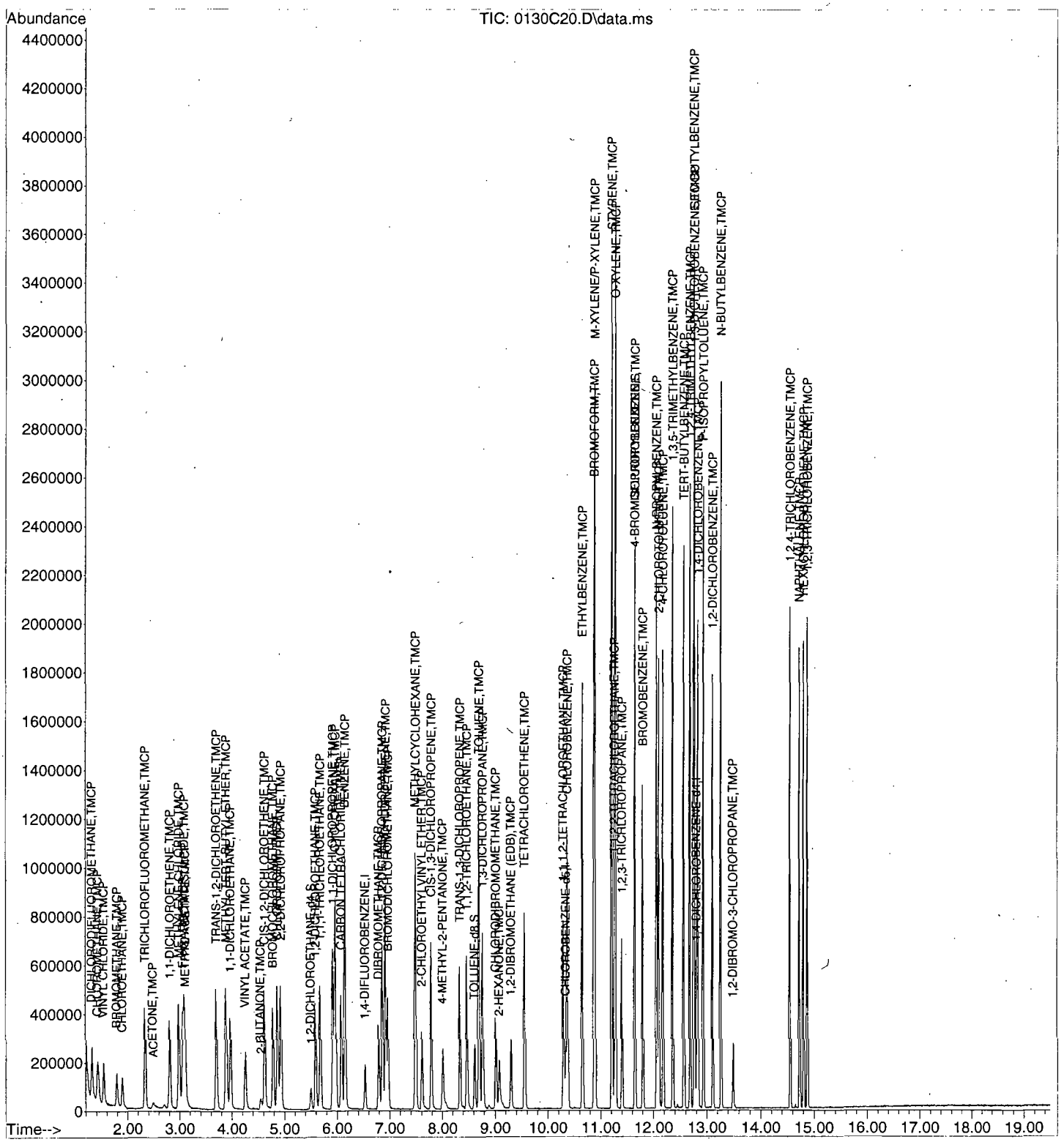
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47)	TETRACHLOROETHENE	9.554	164	177230	19.53	ug/L		96
48)	1,1,1,2-TETRACHLOROETHANE	10.292	131	195233	20.29	ug/L		98
49)	CHLOROBENZENE	10.371	112	517572	18.74	ug/L		96
50)	ETHYLBENZENE	10.656	91	1044055	22.47	ug/L		99
51)	BROMOFORM	10.877	173	140248	21.65	ug/L		98
52)	M-XYLENE/P-XYLENE	10.884	106	778765	44.74	ug/L		93
53)	STYRENE	11.211	104	1286581	43.56	ug/L		98
54)	O-XYLENE	11.278	106	769987	40.35	ug/L		94
55)	ISOPROPYLBENZENE	11.649	105	1020239	21.63	ug/L		95
57)	1,1,2,2-TETRACHLOROETHANE	11.259	83	157499	17.28	ug/L		99
58)	1,2,3-TRICHLOROPROPANE	11.402	75	229019	19.19	ug/L		99
60)	BROMOBENZENE	11.803	156	267975	19.86	ug/L		86
61)	N-PROPYLBENZENE	12.062	91	1290835	21.54	ug/L		96
62)	2-CHLOROTOLUENE	12.103	91	776409	20.64	ug/L		92
63)	4-CHLOROTOLUENE	12.181	91	806948	20.47	ug/L		93
64)	1,3,5-TRIMETHYLBENZENE	12.361	105	1019145	23.48	ug/L		94
65)	TERT-BUTYLBENZENE	12.568	119	755643	22.05	ug/L		90
66)	1,2,4-TRIMETHYLBENZENE	12.684	105	1031173	22.97	ug/L		97
67)	SEC-BUTYLBENZENE	12.759	105	1262862	21.58	ug/L		96
68)	1,3-DICHLOROBENZENE	12.766	146	532163	19.39	ug/L		98
69)	1,4-DICHLOROBENZENE	12.830	146	585316	19.74	ug/L		98
70)	P-ISOPROPYLTOLUENE	12.935	119	1041576	22.19	ug/L		98
71)	1,2-DICHLOROBENZENE	13.111	146	519183	19.94	ug/L		96
72)	N-BUTYLBENZENE	13.265	91	1201047	24.40	ug/L		97
73)	1,2-DIBROMO-3-CHLOROPR...	13.490	75	45985	22.12	ug/L		85
74)	1,2,4-TRICHLOROBENZENE	14.554	180	441030	22.65	ug/L	#	97
75)	NAPHTHALENE	14.731	128	971632	25.06	ug/L		99
76)	HEXACHLOROBUTADIENE	14.806	225	272682	23.13	ug/L	#	87
77)	1,2,3-TRICHLOROBENZENE	14.877	180	430421	21.93	ug/L	#	95

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

Freedom_0005792_0424

Data Path : D:\DATA\L01302014\
Data File : 0130C20.D
Acq On : 30 Jan 2014 11:28
Operator : PZ PZ1-AG5975
Sample : 20 ppb; 10uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 30 13:28:13 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 11:22:27 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 0130C50.D
Acq On : 30 Jan 2014 11:56
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 30 13:29:54 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:29:13 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.525	114	144272	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	132383	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.811	152	89763	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.509	65	66407	4.40	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery = 88.00%			
41) TOLUENE-d8	8.617	98	180337	5.28	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery = 105.60%			
59) 4-BROMOFLUOROBENZENE	11.646	95	81509	4.79	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery = 95.80%			
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.307	85	664273	47.71	ug/L	98
3) CHLOROMETHANE	1.423	50	741971	46.74	ug/L	100
4) VINYL CHLORIDE	1.536	62	566232	49.25	ug/L	95
5) BROMOMETHANE	1.783	94	271299	46.99	ug/L	99
6) CHLOROETHANE	1.895	64	305783	44.99	ug/L	99
7) TRICHLOROFLUOROMETHANE	2.334	101	1101919	47.83	ug/L	99
8) ACETONE	2.495	43	272994	38.99	ug/L #	66
9) 1,1-DICHLOROETHENE	2.803	96	351621	46.43	ug/L #	63
10) METHYLENE CHLORIDE	2.979	84	536718	45.19	ug/L #	71
11) Freon 113	3.065	101	562893	45.67	ug/L	85
12) CARBON DISULFIDE	3.095	76	1651988	50.53	ug/L	99
13) METHYL ACETATE	3.110	43	499700	46.16	ug/L	95
14) TRANS-1,2-DICHLOROETHENE	3.698	96	526906	47.64	ug/L	88
15) METHYL-TERT-BUTYL ETHER	3.886	73	1382663	52.83	ug/L #	91
16) 1,1-DICHLOROETHANE	3.968	63	1077882	46.10	ug/L	98
17) VINYL ACETATE	4.253	43	1366352	60.01	ug/L	95
18) 2-BUTANONE	4.546	43	364132	50.81	ug/L #	87
19) CIS-1,2-DICHLOROETHENE	4.617	96	590579	50.95	ug/L	90
20) BROMOCHLOROMETHANE	4.782	128	270284	47.94	ug/L #	57
21) CHLOROFORM	4.864	83	1053782	46.97	ug/L	100
22) 2,2-DICHLOROPROPANE	4.928	77	752033	54.05	ug/L	99
24) 1,2-DICHLOROETHANE	5.588	62	994050	45.02	ug/L	99
25) 1,1,1-TRICHLOROETHANE	5.681	97	883543	49.95	ug/L #	93
26) 1,1-DICHLOROPROPENE	5.921	75	832283	55.01	ug/L	95
27) CYCLOHEXANE	5.966	56	1172057	53.34	ug/L	87
28) CARBON TETRACHLORIDE	6.079	117	823993	49.99	ug/L	98
29) BENZENE	6.150	78	2254226	47.69	ug/L	99
30) DIBROMOMETHANE	6.787	93	361743	46.47	ug/L #	83
31) 1,2-DICHLOROPROPANE	6.859	63	619279	48.21	ug/L	99
32) TRICHLOROETHENE	6.919	130	706179	49.01	ug/L	91
33) BROMODICHLOROMETHANE	6.967	83	817516	51.38	ug/L	100
34) METHYLCYCLOHEXANE	7.485	83	1032282	56.69	ug/L	88
36) CIS-1,3-DICHLOROPROPENE	7.784	75	956227	58.99	ug/L	99
38) 4-METHYL-2-PENTANONE	8.006	43	750098	59.30	ug/L #	94
39) TRANS-1,3-DICHLOROPROPENE	8.336	75	857247	65.53	ug/L	99
40) 1,1,2-TRICHLOROETHANE	8.470	97	504937	49.73	ug/L	97
42) TOLUENE	8.699	92	1370972	51.08	ug/L	99
43) 1,3-DICHLOROPROPANE	8.770	76	1001929	49.10	ug/L	100
44) CHLORODIBROMOMETHANE	9.014	129	556051	56.20	ug/L #	97
45) 2-HEXANONE	9.078	43	556160	60.01	ug/L #	93
46) 1,2-DIBROMOETHANE (EDB)	9.299	107	559884	54.28	ug/L	99
47) TETRACHLOROETHENE	9.554	164	483361	49.90	ug/L	98

Freedom_0005792_0426

Data Path : D:\DATA\L01302014\
Data File : 0130C50.D
Acq On : 30 Jan 2014 11:56
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 30 13:29:54 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:29:13 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	1,1,1,2-TETRACHLOROETHANE	10.296	131	553660	53.90	ug/L		99
49)	CHLOROBENZENE	10.375	112	1443514	49.70	ug/L		97
50)	ETHYLBENZENE	10.656	91	2896909	58.29	ug/L		98
51)	BROMOFORM	10.873	173	422904	61.04	ug/L		98
52)	M-XYLENE/P-XYLENE	10.888	106	2100725	114.12	ug/L		90
53)	STYRENE	11.211	104	3770473	120.74	ug/L		98
54)	O-XYLENE	11.278	106	2146754	106.83	ug/L		91
55)	ISOPROPYLBENZENE	11.649	105	2895139	58.51	ug/L		94
57)	1,1,2,2-TETRACHLOROETHANE	11.263	83	407323	40.05	ug/L		97
58)	1,2,3-TRICHLOROPROPANE	11.402	75	638055	47.42	ug/L		98
60)	BROMOBENZENE	11.803	156	736521	48.45	ug/L		87
61)	N-PROPYLBENZENE	12.062	91	3636070	54.90	ug/L		96
62)	2-CHLOROTOLUENE	12.103	91	2088208	49.83	ug/L		93
63)	4-CHLOROTOLUENE	12.182	91	2236529	51.11	ug/L		93
64)	1,3,5-TRIMETHYLBENZENE	12.362	105	2865888	58.03	ug/L		94
65)	TERT-BUTYLBENZENE	12.568	119	2143648	56.41	ug/L		91
66)	1,2,4-TRIMETHYLBENZENE	12.684	105	2948695	58.22	ug/L		94
67)	SEC-BUTYLBENZENE	12.755	105	3554525	54.72	ug/L		96
68)	1,3-DICHLOROBENZENE	12.766	146	1445781	47.34	ug/L		98
69)	1,4-DICHLOROBENZENE	12.830	146	1611675	48.34	ug/L		97
70)	P-ISOPROPYLTOLUENE	12.935	119	2975235	56.70	ug/L		98
71)	1,2-DICHLOROBENZENE	13.111	146	1412887	48.75	ug/L		99
72)	N-BUTYLBENZENE	13.265	91	3388633	60.80	ug/L		98
73)	1,2-DIBROMO-3-CHLOROPR...	13.490	75	147393	62.55	ug/L		89
74)	1,2,4-TRICHLOROBENZENE	14.555	180	1278074	57.91	ug/L	#	97
75)	NAPHTHALENE	14.731	128	2905592	66.68	ug/L		100
76)	HEXACHLOROBUTADIENE	14.806	225	851447	63.33	ug/L	#	89
77)	1,2,3-TRICHLOROBENZENE	14.877	180	1275950	57.75	ug/L	#	97

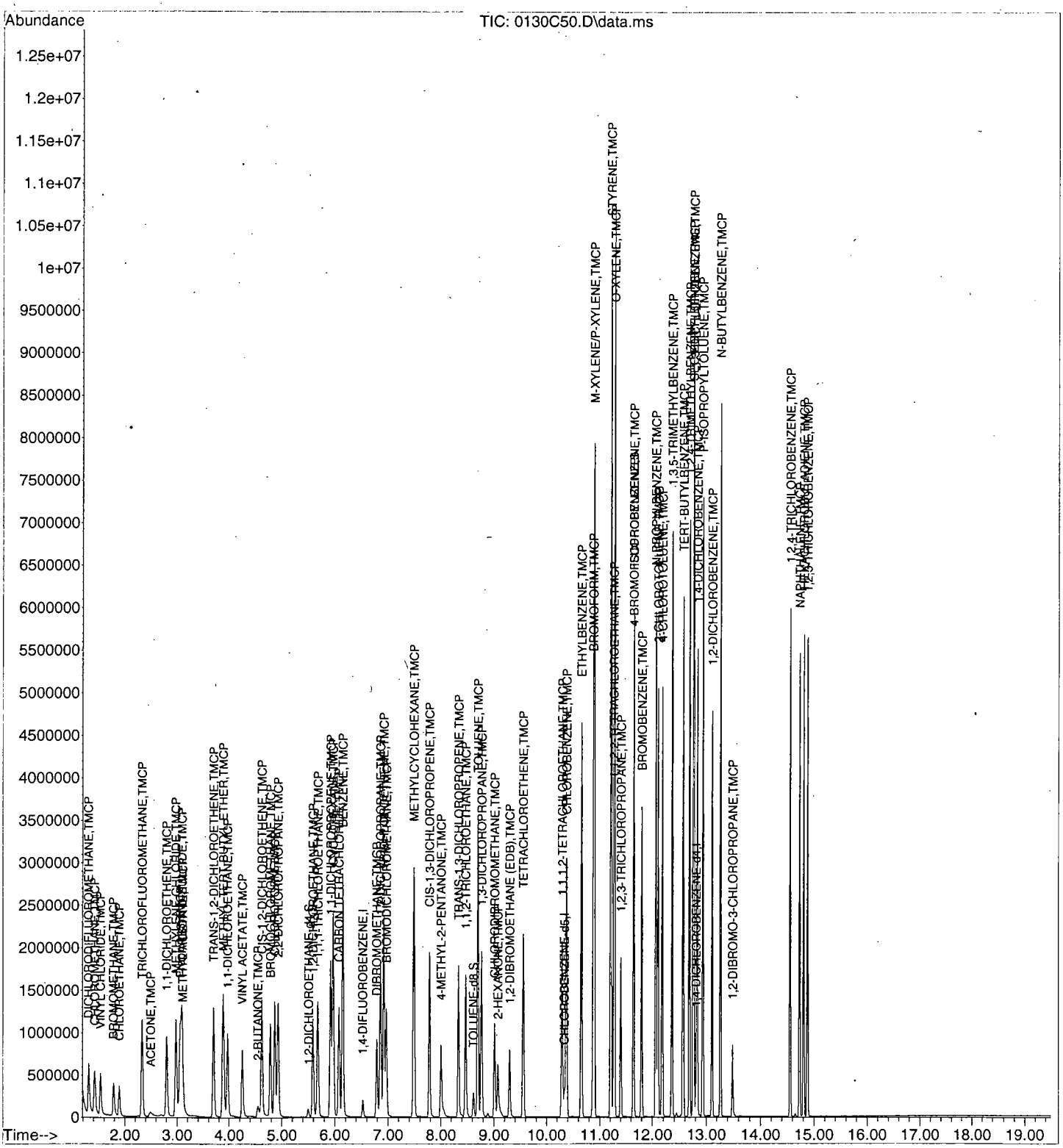
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0427

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L01302014\
Data File : 0130C50.D
Acq On : 30 Jan 2014 11:56
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 30 13:29:54 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:29:13 2014
Response via : Initial Calibration

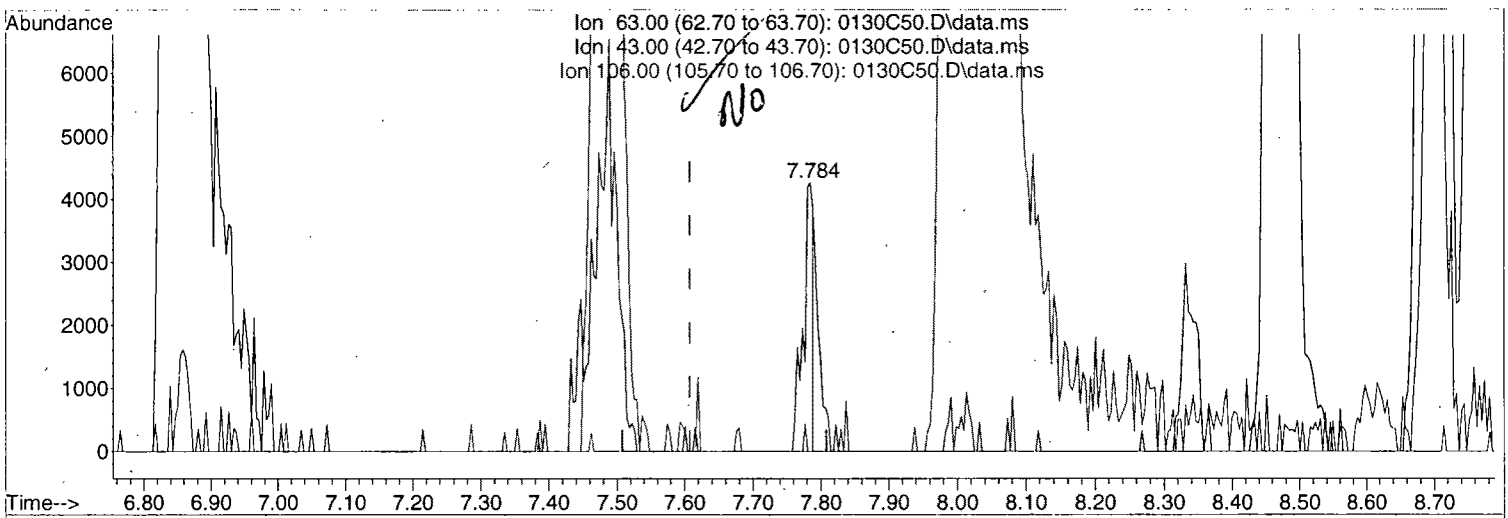


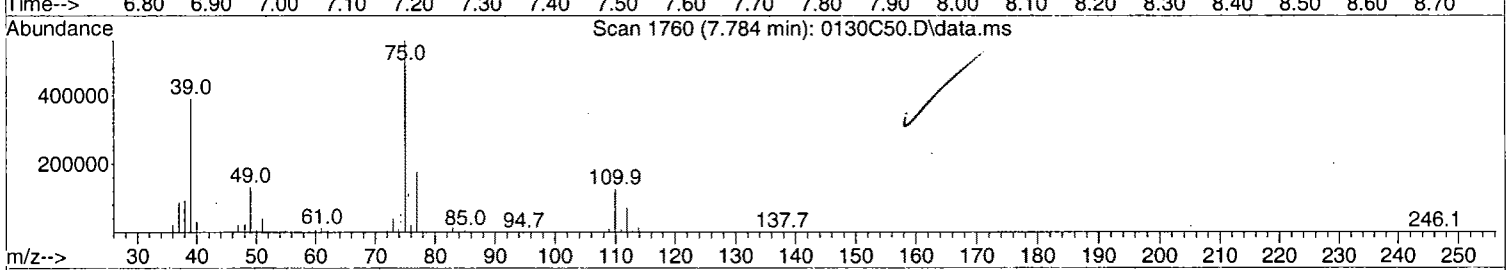
Freedom_0005792_0428

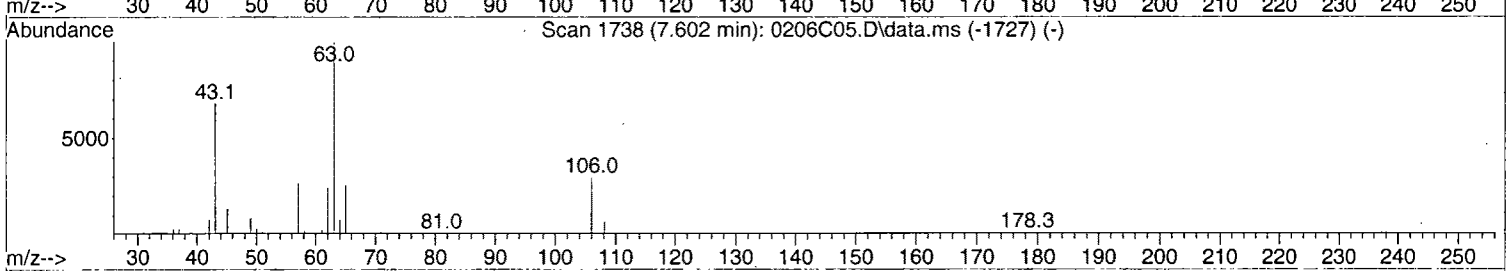
Quantitation Report (Qedit)

Data Path : D:\DATA\L01302014\
Data File : 0130C50.D
Acq On : 30 Jan 2014 11:56
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 30 13:29:20 2014
Quant Method : D:\METHODS\L01302014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:29:13 2014
Response via : Initial Calibration







TIC: 0130C50.D\data.ms

(35) 2-CHLOROETHYLVINYL ETHER (TMCP)

7.784min (+0.176) 0.67 ug/L

response 4278

Ion	Exp%	Act%
63.00	100	100
43.00	73.00	0.00#
106.00	30.00	0.00#
0.00	0.00	0.00

Freedom_0005792_0429

Response Factor Report PZ1-AG5975

Use this curve

✓4 cmpds out

Method Path : D:\METHODS\
Method File : L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Tue Feb 04 16:14:21 2014
Response Via : Initial Calibration

Calibration Files
0.5 =0204D005.D 1 =0204C01.D 5 =0204C05.D 10 =0204C10.D
20 =0204C20.D 50 =0204C50.D

	Compound	0.5	1	5	10	20	50	Avg	%RSD
1)	I 1,4-DIFLUOROBENZENE	ISTD							
2)	TMCPDICHLORODIFLUO...	0.602	0.595	0.433	0.518	0.529	0.510	0.531	11.71
3)	TMCPCHLOROMETHANE	0.341	0.297	0.217	0.261	0.262	0.275	0.275	15.10
4)	TMCPVINYL CHLORIDE	0.364	0.379	0.268	0.326	0.318	0.324	0.330	11.88
5)	TMCPBROMOMETHANE	0.304	0.227	0.185	0.220	0.207	0.220	0.227	17.89
6)	TMCPCHLOROETHANE	0.290	0.227	0.170	0.195	0.199	0.200	0.213	19.44
7)	TMCPTRICHLOROFLUOR...	0.979	0.908	0.676	0.830	0.776	0.790	0.826	12.83
8)	TMCPACETONE			0.125	0.123	0.130	0.121	0.124	3.19
9)	TMCP1,1-DICHLOROET...	0.312	0.304	0.247	0.250	0.228	0.249	0.265	12.90
10)	TMCPMETHYLENE CHLO...	0.536	0.412	0.387	0.377	0.363	0.309	0.397	19.15
11)	TMCPFreon 113	0.537	0.456	0.427	0.387	0.368	0.359	0.422	15.86
12)	TMCPCARBON DISULFIDE	1.199	1.147	0.892	1.121	1.130	1.025	1.085	10.18
13)	TMCPMETHYL ACETATE	0.219	0.205	0.230	0.222	0.191	0.236	0.217	7.77
14)	TMCPTRANS-1,2-DICH...	0.473	0.409	0.340	0.354	0.331	0.358	0.377	14.35
15)	TMCPMETHYL-TERT-BU...	1.041	0.951	0.859	0.916	0.899	1.031	0.950	7.75
16)	TMCP1,1-DICHLOROET...	0.850	0.754	0.687	0.684	0.640	0.692	0.718	10.36
17)	TMCPVINYL ACETATE	0.399	0.451	0.367	0.524	0.533	0.594	0.478	18.17
18)	TMCP2-BUTANONE			0.147	0.161	0.150	0.150	0.152	4.08
19)	TMCPCIS-1,2-DICHLO...	0.529	0.404	0.376	0.391	0.377	0.418	0.416	13.88
20)	TMCPBROMOCHLOROMET...	0.255	0.216	0.181	0.183	0.177	0.182	0.199	15.44
21)	TMCPCHLOROFORM	0.920	0.865	0.779	0.771	0.726	0.780	0.807	8.88
22)	TMCP2,2-DICHLOROPR...	0.609	0.493	0.476	0.498	0.496	0.581	0.526	10.47
23)	S 1,2-DICHLOROET...	0.524	0.533	0.505	0.471	0.482	0.457	0.495	6.11
24)	TMCP1,2-DICHLOROET...	0.731	0.686	0.640	0.623	0.575	0.628	0.647	8.37
25)	TMCP1,1,1-TRICHLOR...	0.762	0.698	0.622	0.619	0.600	0.660	0.660	9.23
26)	TMCP1,1-DICHLOROPR...	0.627	0.492	0.497	0.523	0.501	0.579	0.536	10.18
27)	TMCPCYCLOHEXANE	0.599	0.545	0.570	0.584	0.579	0.603	0.580	3.65
28)	TMCPCARBON TETRACH...	0.655	0.582	0.552	0.564	0.533	0.600	0.581	7.45
29)	TMCPBENZENE	1.807	1.617	1.646	1.635	1.484	1.625	1.636	6.28
30)	TMCPDIBROMOMETHANE	0.328	0.298	0.256	0.260	0.244	0.261	0.274	11.65
31)	TMCP1,2-DICHLOROPR...	0.461	0.410	0.373	0.381	0.348	0.386	0.393	9.85
32)	TMCPTRICHLOROETHENE	0.497	0.510	0.436	0.472	0.440	0.491	0.474	6.49
33)	TMCPBROMODICHLOROM...	0.643	0.594	0.563	0.547	0.544	0.625	0.586	7.08
34)	TMCPMETHYLCYCLOHEXANE	0.721	0.635	0.616	0.670	0.669	0.744	0.676	7.27
35)	TMCP2-CHLOROETHYLV...	NQL 1 ppb	0.191	0.173	0.229	0.210		0.201	12.01
36)	TMCPCIS-1,3-DICHLO...	0.469	0.511	0.520	0.562	0.564	0.664	0.548	12.17
37)	I CHLOROBENZENE-d5	ISTD							
38)	TMCP4-METHYL-2-PEN...			0.237	0.312	0.313	0.339	0.300	14.62
39)	TMCPTRANS-1,3-DICH...	0.428	0.484	0.500	0.534	0.547	0.658	0.525	14.78
40)	TMCP1,1,2-TRICHLOR...	0.509	0.376	0.417	0.377	0.352	0.387	0.403	13.88
41)	S TOLUENE-d8	1.279	1.285	1.385	1.351	1.330	1.367	1.333	3.25
42)	TMCPTOLUENE	1.147	1.031	1.048	1.005	0.968	1.080	1.047	5.95
43)	TMCP1,3-DICHLOROPR...	0.854	0.699	0.748	0.738	0.685	0.752	0.746	7.98
44)	TMCPCHLORODIBROMOM...	0.457	0.393	0.387	0.395	0.389	0.448	0.411	7.75
45)	TMCP2-HEXANONE			0.148	0.219	0.225	0.257	0.212	21.74#
46)	TMCP1,2-DIBROMOETH...	0.457	0.390	0.390	0.373	0.363	0.407	0.397	8.35
47)	TMCPTETRACHLOROETHENE	0.373	0.394	0.341	0.337	0.317	0.355	0.353	7.82
48)	TMCP1,1,1,2-TETRAC...	0.377	0.336	0.357	0.369	0.350	0.415	0.367	7.45
49)	TMCPCHLOROBENZENE	1.431	1.138	1.153	1.106	1.056	1.177	1.177	11.16
50)	TMCPETHYLBENZENE	1.867	1.729	2.005	2.031	2.009	2.298	1.990	9.55
51)	TMCPBROMOFORM	0.151	0.208	0.249	0.254	0.254	0.315	0.239	23.03#
52)	TMCPM-XYLENE/P-XYLENE	0.617	0.605	0.799	0.802	0.758	0.849	0.738	13.93
53)	TMCPSTYRENE	0.955	0.961	1.178	1.367	1.319	1.478	1.210	17.96
54)	TMCPO-XYLENE	0.733	0.749	0.794	0.867	0.830	0.882	0.809	7.57

Freedom_0005792_0430

Method Path : D:\METHODS\
Method File : L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

55)	TMCPISOPROPYLBENZENE	2.077	1.876	2.137	2.189	2.131	2.499	2.151	9.40
56)	I 1,4-DICHLOROBENZEN...	----------	----------	----------	ISTD	----------	----------	----------	
57)	TMCP1,1,2,2-TETRAC...	0.659	0.539	0.518	0.498	0.449	0.431	0.516	15.72
58)	TMCP1,2,3-TRICHLOR...	0.947	0.703	0.727	0.707	0.669	0.727	0.747	13.46
59)	S 4-BROMOFLUOROB...	1.015	0.920	1.021	1.037	1.031	1.047	1.012	4.60
60)	TMCPBROMOBENZENE	1.159	0.744	0.782	0.783	0.762	0.825	0.842	18.67
61)	TMCPN-PROPYLBENZENE	4.803	3.623	4.280	4.504	4.433	4.986	4.438	10.70
62)	TMCP2-CHLOROTOLUENE	2.936	2.481	2.760	2.638	2.534	2.799	2.691	6.39
63)	TMCP4-CHLOROTOLUENE	3.443	2.460	2.812	2.869	2.749	3.052	2.898	11.37
64)	TMCP1,3,5-TRIMETHY...	2.796	2.234	2.878	2.950	2.934	3.328	2.853	12.43
65)	TMCPTERT-BUTYLBENZENE	2.520	1.825	2.346	2.545	2.506	2.807	2.425	13.58
66)	TMCP1,2,4-TRIMETHY...	2.693	2.160	3.037	3.150	3.068	3.530	2.940	15.86
67)	TMCPSEC-BUTYLBENZENE	3.775	3.371	4.064	4.200	4.144	4.685	4.040	10.90
68)	TMCP1,3-DICHLOROBE...	2.221	1.766	1.761	1.746	1.643	1.780	1.819	11.16
69)	TMCP1,4-DICHLOROBE...	2.251	1.778	1.802	1.716	1.645	1.811	1.834	11.65
70)	TMCPP-ISOPROPYLTOL...	3.004	2.380	3.199	3.340	3.318	3.860	3.184	15.24
71)	TMCP1,2-DICHLOROBE...	2.052	1.535	1.733	1.618	1.546	1.731	1.702	11.26
72)	TMCPN-BUTYLBENZENE	3.034	2.366	3.360	3.612	3.675	4.229	3.379	18.76
73)	TMCP1,2-DIBROMO-3-...	0.090	0.094	0.109	0.121	0.134	0.167	0.119	23.88#
74)	TMCP1,2,4-TRICHLOR...	1.410	1.009	1.148	1.215	1.255	1.489	1.254	13.90
75)	TMCPNAPHTHALENE	2.010	1.692	2.240	2.665	2.811	3.435	2.475	25.27#
76)	TMCPHEXACHLOROBUTA...	0.702	0.609	0.674	0.680	0.748	0.901	0.719	13.91
77)	TMCP1,2,3-TRICHLOR...	1.264	0.994	1.187	1.254	1.245	1.460	1.234	12.13

(#) = Out of Range

Freedom_0005792_0431

Response Factor Report PZ1-AG5975

Method Path : D:\METHODS\
Method File : L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Tue Feb 04 15:23:50 2014
Response Via : Initial Calibration

10 cmpds out

Calibration Files
0.5 =0204C005.D 1 =0204C01.D 5 =0204C05.D 10 =0204C10.D
20 =0204C20.D 50 =0204C50.D

D	Compound	0.5	1	5	10	20	50	Avg	%RS
1)	I 1,4-DIFLUOROBENZENE	----------ISTD----------							
2)	TMCPDICHLORODIFLUO...	0.478	0.595	0.433	0.518	0.529	0.510	0.510	10.57
3)	TMCPCHLOROMETHANE	0.287	0.297	0.217	0.261	0.262	0.275	0.266	10.60
4)	TMCPVINYL CHLORIDE	0.333	0.379	0.268	0.326	0.318	0.324	0.325	10.98
5)	TMCPBROMOMETHANE	0.218	0.227	0.185	0.220	0.207	0.220	0.213	7.19
6)	TMCPCHLOROETHANE	0.230	0.227	0.170	0.195	0.199	0.200	0.203	10.97
7)	TMCPTRICHLOROFLUOR...	0.838	0.908	0.676	0.830	0.776	0.790	0.803	9.62
8)	TMCPACETONE			0.125	0.123	0.130	0.121	0.124	3.19
9)	TMCP1,1-DICHLOROET...	0.273	0.304	0.247	0.250	0.228	0.249	0.259	10.20
10)	TMCPMETHYLENE CHLO...	0.400	0.412	0.387	0.377	0.363	0.309	0.375	9.68
11)	TMCPFreon 113	0.412	0.456	0.427	0.387	0.368	0.359	0.402	9.18
12)	TMCPCARBON DISULFIDE	0.954	1.147	0.892	1.121	1.130	1.025	1.045	10.08
13)	TMCPMETHYL ACETATE	0.151	0.205	0.230	0.222	0.191	0.236	0.206	15.47
14)	TMCPTRANS-1,2-DICH...	0.326	0.409	0.340	0.354	0.331	0.358	0.353	8.47
15)	TMCPMETHYL-TERT-BU...	0.823	0.951	0.859	0.916	0.899	1.031	0.913	7.98
16)	TMCP1,1-DICHLOROET...	0.685	0.754	0.687	0.684	0.640	0.692	0.690	5.30
17)	TMCPVINYL ACETATE	0.379	0.451	0.367	0.524	0.533	0.594	0.475	19.13
18)	TMCP2-BUTANONE			0.147	0.161	0.150	0.150	0.152	4.08
19)	TMCPCIS-1,2-DICHLO...	0.339	0.404	0.376	0.391	0.377	0.418	0.384	7.16
20)	TMCPBROMOCHLOROMET...	0.197	0.216	0.181	0.183	0.177	0.182	0.189	7.70
21)	TMCPCHLOROFORM	0.782	0.865	0.779	0.771	0.726	0.780	0.784	5.75
22)	TMCP2,2-DICHLOROPR...	0.520	0.493	0.476	0.498	0.496	0.581	0.511	7.24
23)	S 1,2-DICHLOROET...	0.497	0.533	0.505	0.471	0.482	0.457	0.491	5.50
24)	TMCP1,2-DICHLOROET...	0.565	0.686	0.640	0.623	0.575	0.628	0.620	7.14
25)	TMCP1,1,1-TRICHLOR...	0.596	0.698	0.622	0.619	0.600	0.660	0.633	6.20
26)	TMCP1,1-DICHLOROPR...	0.388	0.492	0.497	0.523	0.501	0.579	0.497	12.50
27)	TMCPCYCLOHEXANE	0.455	0.545	0.570	0.584	0.579	0.603	0.556	9.53
28)	TMCPCARBON TETRACH...	0.448	0.582	0.552	0.564	0.533	0.600	0.546	9.80
29)	TMCPBENZENE	1.526	1.617	1.646	1.635	1.484	1.625	1.589	4.21
30)	TMCPDIBROMOMETHANE	0.233	0.298	0.256	0.260	0.244	0.261	0.258	8.48
31)	TMCP1,2-DICHLOROPR...	0.397	0.410	0.373	0.381	0.348	0.386	0.383	5.57
32)	TMCPTRICHLOROETHENE	0.476	0.510	0.436	0.472	0.440	0.491	0.471	6.12
33)	TMCPBROMODICHLOROM...	0.439	0.594	0.563	0.547	0.544	0.625	0.552	11.46
34)	TMCPMETHYLCYCLOHEXANE	0.445	0.635	0.616	0.670	0.669	0.744	0.630	16.01
35)	TMCP2-CHLOROETHYLV...		0.191	0.173	0.229	0.210		0.201	12.01
36)	TMCPCIS-1,3-DICHLO...	0.382	0.511	0.520	0.562	0.564	0.664	0.534	17.25
37)	I CHLOROBENZENE-d5	----------ISTD----------							
38)	TMCP4-METHYL-2-PEN...			0.237	0.312	0.313	0.339	0.300	14.62
39)	TMCPTRANS-1,3-DICH...	0.329	0.484	0.500	0.534	0.547	0.658	0.509	21.12#
40)	TMCP1,1,2-TRICHLOR...	0.375	0.376	0.417	0.377	0.352	0.387	0.381	5.60
41)	S TOLUENE-d8	1.183	1.285	1.385	1.351	1.330	1.367	1.317	5.63
42)	TMCPTOLUENE	0.912	1.031	1.048	1.005	0.968	1.080	1.007	5.99
43)	TMCP1,3-DICHLOROPR...	0.708	0.699	0.748	0.738	0.685	0.752	0.722	3.91
44)	TMCPCHLORODIBROMOM...	0.311	0.393	0.387	0.395	0.389	0.448	0.387	11.33
45)	TMCP2-HEXANONE			0.148	0.219	0.225	0.257	0.212	21.74#
46)	TMCP1,2-DIBROMOETH...	0.267	0.390	0.390	0.373	0.363	0.407	0.365	13.80
47)	TMCPTETRACHLOROETHENE	0.354	0.394	0.341	0.337	0.317	0.355	0.350	7.39
48)	TMCP1,1,1,2-TETRAC...	0.285	0.336	0.357	0.369	0.350	0.415	0.352	12.04
49)	TMCPCHLOROBENZENE	0.905	1.138	1.153	1.106	1.056	1.177	1.089	9.14
50)	TMCPETHYLBENZENE	1.384	1.729	2.005	2.031	2.009	2.298	1.909	16.45
51)	TMCPBROMOFORM	0.217	0.208	0.249	0.254	0.254	0.315	0.250	15.10
52)	TMCPM-XYLENE/P-XYLENE	0.526	0.605	0.799	0.802	0.758	0.849	0.723	17.67
53)	TMCPSTYRENE	0.782	0.961	1.178	1.367	1.319	1.478	1.181	22.37#
54)	TMCPO-XYLENE	0.545	0.749	0.794	0.867	0.830	0.882	0.778	15.92

Freedom_0005792_0432

Method Path : D:\METHODS\
Method File : L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

55)	TMCPISOPROPYLBENZENE	1.497	1.876	2.137	2.189	2.131	2.499	2.055	16.45
56)	I 1,4-DICHLOROBENZEN...	----------	----------	----------	ISTD	----------	----------	----------	
57)	TMCP1,1,2,2-TETRAC...	0.497	0.539	0.518	0.498	0.449	0.431	0.489	8.42
58)	TMCP1,2,3-TRICHLOR...	0.717	0.703	0.727	0.707	0.669	0.727	0.708	3.02
59)	S 4-BROMOFLUOROB...	0.968	0.920	1.021	1.037	1.031	1.047	1.004	4.95
60)	TMCPBROMOBENZENE	0.754	0.744	0.782	0.783	0.762	0.825	0.775	3.71
61)	TMCPN-PROPYLBENZENE	3.276	3.623	4.280	4.504	4.433	4.986	4.184	14.95
62)	TMCP2-CHLOROTOLUENE	2.119	2.481	2.760	2.638	2.534	2.799	2.555	9.66
63)	TMCP4-CHLOROTOLUENE	2.181	2.460	2.812	2.869	2.749	3.052	2.687	11.69
64)	TMCP1,3,5-TRIMETHY...	1.774	2.234	2.878	2.950	2.934	3.328	2.683	21.20#
65)	TMCPTERT-BUTYLBENZENE	1.562	1.825	2.346	2.545	2.506	2.807	2.265	20.93#
66)	TMCP1,2,4-TRIMETHY...	1.813	2.160	3.037	3.150	3.068	3.530	2.793	23.57#
67)	TMCPSEC-BUTYLBENZENE	2.670	3.371	4.064	4.200	4.144	4.685	3.856	18.61
68)	TMCP1,3-DICHLOROBE...	1.544	1.766	1.761	1.746	1.643	1.780	1.707	5.48
69)	TMCP1,4-DICHLOROBE...	1.836	1.778	1.802	1.716	1.645	1.811	1.765	4.04
70)	TMCPP-ISOPROPYLTOL...	2.060	2.380	3.199	3.340	3.318	3.860	3.026	22.22#
71)	TMCP1,2-DICHLOROBE...	1.525	1.535	1.733	1.618	1.546	1.731	1.614	5.98
72)	TMCPN-BUTYLBENZENE	1.901	2.366	3.360	3.612	3.675	4.229	3.190	27.54#
73)	TMCP1,2-DIBROMO-3-...		0.094	0.109	0.121	0.134	0.167	0.125	22.15#
74)	TMCP1,2,4-TRICHLOR...	1.052	1.009	1.148	1.215	1.255	1.489	1.195	14.38
75)	TMCPNAPHTHALENE	1.451	1.692	2.240	2.665	2.811	3.435	2.382	31.06#
76)	TMCPHEXACHLOROBUTA...	0.506	0.609	0.674	0.680	0.748	0.901	0.687	19.41
77)	TMCP1,2,3-TRICHLOR...	0.974	0.994	1.187	1.254	1.245	1.460	1.186	15.31

(#) = Out of Range

Freedom_0005792_0433

Response Factor Report PZ1-AG5975

✓ Continuation of b005 run

Method Path : D:\METHODS\
Method File : L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Tue Feb 04 16:42:29 2014
Response Via : Initial Calibration

ok ✓ 5 cmpds out

Calibration Files
0.5 =0204E005.D 1 =0204C01.D 5 =0204C05.D 10 =0204C10.D
20 =0204C20.D 50 =0204C50.D

	Compound	0.5	1	5	10	20	50	Avg	%RS
D									
1)	I 1,4-DIFLUOROBENZENE	----------ISTD----------							
2)	TMCPDICHLORODIFLUO...	0.568	0.595	0.433	0.518	0.529	0.510	0.525	10.58
3)	TMCPCHLOROMETHANE	0.301	0.297	0.217	0.261	0.262	0.275	0.269	11.43
4)	TMCPVINYL CHLORIDE	0.423	0.379	0.268	0.326	0.318	0.324	0.340	15.93
5)	TMCPBROMOMETHANE	0.300	0.227	0.185	0.220	0.207	0.220	0.226	17.21
6)	TMCPCHLOROETHANE	0.270	0.227	0.170	0.195	0.199	0.200	0.210	16.39
7)	TMCPTRICHLOROFLUOR...	0.910	0.908	0.676	0.830	0.776	0.790	0.815	10.87
8)	TMCPACETONE			0.125	0.123	0.130	0.121	0.124	3.19
9)	TMCP1,1-DICHLOROET...	0.332	0.304	0.247	0.250	0.228	0.249	0.269	14.94
10)	TMCPMETHYLENE CHLO...	0.449	0.412	0.387	0.377	0.363	0.309	0.383	12.26
11)	TMCPFreon 113	0.448	0.456	0.427	0.387	0.368	0.359	0.408	10.21
12)	TMCPCARBON DISULFIDE	1.223	1.147	0.892	1.121	1.130	1.025	1.089	10.62
13)	TMCPMETHYL ACETATE	0.277	0.205	0.230	0.222	0.191	0.236	0.227	13.20
14)	TMCPTRANS-1,2-DICH...	0.451	0.409	0.340	0.354	0.331	0.358	0.374	12.45
15)	TMCPMETHYL-TERT-BU...	0.982	0.951	0.859	0.916	0.899	1.031	0.940	6.57
16)	TMCP1,1-DICHLOROET...	0.849	0.754	0.687	0.684	0.640	0.692	0.718	10.32
17)	TMCPVINYL ACETATE	0.434	0.451	0.367	0.524	0.533	0.594	0.484	16.87
18)	TMCP2-BUTANONE			0.147	0.161	0.150	0.150	0.152	4.08
19)	TMCPCIS-1,2-DICHLO...	0.515	0.404	0.376	0.391	0.377	0.418	0.414	12.67
20)	TMCPBROMOCHLOROMET...	0.182	0.216	0.181	0.183	0.177	0.182	0.187	7.64
21)	TMCPCHLOROFORM	1.000	0.865	0.779	0.771	0.726	0.780	0.820	12.07
22)	TMCP2,2-DICHLOROPR...	0.537	0.493	0.476	0.498	0.496	0.581	0.514	7.49
23)	S 1,2-DICHLOROET...	0.539	0.533	0.505	0.471	0.482	0.457	0.498	6.74
24)	TMCP1,2-DICHLOROET...	0.733	0.686	0.640	0.623	0.575	0.628	0.648	8.49
25)	TMCP1,1,1-TRICHLOR...	0.750	0.698	0.622	0.619	0.600	0.660	0.658	8.66
26)	TMCP1,1-DICHLOROPR...	0.559	0.492	0.497	0.523	0.501	0.579	0.525	6.87
27)	TMCPCYCLOHEXANE	0.641	0.545	0.570	0.584	0.579	0.603	0.587	5.53
28)	TMCPCARBON TETRACH...	0.636	0.582	0.552	0.564	0.533	0.600	0.578	6.37
29)	TMCPBENZENE	1.805	1.617	1.646	1.635	1.484	1.625	1.635	6.24
30)	TMCPDIBROMOMETHANE	0.347	0.298	0.256	0.260	0.244	0.261	0.278	13.95
31)	TMCP1,2-DICHLOROPR...	0.439	0.410	0.373	0.381	0.348	0.386	0.389	8.06
32)	TMCPTRICHLOROETHENE	0.525	0.510	0.436	0.472	0.440	0.491	0.479	7.64
33)	TMCPBROMODICHLOROM...	0.563	0.594	0.563	0.547	0.544	0.625	0.573	5.44
34)	TMCPMETHYLCYCLOHEXANE	0.575	0.635	0.616	0.670	0.669	0.744	0.652	8.84
35)	TMCP2-CHLOROETHYLV...		0.191	0.173	0.229	0.210		0.201	12.01
36)	TMCPCIS-1,3-DICHLO...	0.556	0.511	0.520	0.562	0.564	0.664	0.563	9.68
37)	I CHLOROBENZENE-d5	----------ISTD----------							
38)	TMCP4-METHYL-2-PEN...			0.237	0.312	0.313	0.339	0.300	14.62
39)	TMCPTRANS-1,3-DICH...	0.497	0.484	0.500	0.534	0.547	0.658	0.537	11.98
40)	TMCP1,1,2-TRICHLOR...	0.482	0.376	0.417	0.377	0.352	0.387	0.399	11.55
41)	S TOLUENE-d8	1.263	1.285	1.385	1.351	1.330	1.367	1.330	3.58
42)	TMCPTOLUENE	1.128	1.031	1.048	1.005	0.968	1.080	1.043	5.40
43)	TMCP1,3-DICHLOROPR...	0.878	0.699	0.748	0.738	0.685	0.752	0.750	9.11
44)	TMCPCHLORODIBROMOM...	0.376	0.393	0.387	0.395	0.389	0.448	0.398	6.31
45)	TMCP2-HEXANONE			0.148	0.219	0.225	0.257	0.212	21.74#
46)	TMCP1,2-DIBROMOETH...	0.336	0.390	0.390	0.373	0.363	0.407	0.377	6.64
47)	TMCPTETRACHLOROETHENE	0.426	0.394	0.341	0.337	0.317	0.355	0.362	11.23
48)	TMCP1,1,1,2-TETRAC...	0.358	0.336	0.357	0.369	0.350	0.415	0.364	7.44
49)	TMCPCHLOROBENZENE	1.341	1.138	1.153	1.106	1.056	1.177	1.162	8.37
50)	TMCPETHYLBENZENE	1.902	1.729	2.005	2.031	2.009	2.298	1.996	9.32
51)	TMCPBROMOFORM	0.233	0.208	0.249	0.254	0.254	0.315	0.252	14.09
52)	TMCPM-XYLENE/P-XYLENE	0.651	0.605	0.799	0.802	0.758	0.849	0.744	12.82
53)	TMCPSTYRENE	0.908	0.961	1.178	1.367	1.319	1.478	1.202	19.03
54)	TMCPO-XYLENE	0.686	0.749	0.794	0.867	0.830	0.882	0.802	9.29

Freedom_0005792_0434

Method Path : D:\METHODS\
Method File : L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

55)	TMCPISOPROPYLBENZENE	2.007	1.876	2.137	2.189	2.131	2.499	2.140	9.78
56)	I 1,4-DICHLOROBENZEN...	----------	----------	----------	ISTD	----------	----------	----------	
57)	TMCP1,1,2,2-TETRAC...	0.659	0.539	0.518	0.498	0.449	0.431	0.516	15.77
58)	TMCP1,2,3-TRICHLOR...	1.118	0.703	0.727	0.707	0.669	0.727	0.775	21.85#
59)	S 4-BROMOFLUOROB...	0.998	0.920	1.021	1.037	1.031	1.047	1.009	4.64
60)	TMCPBROMOBENZENE	1.006	0.744	0.782	0.783	0.762	0.825	0.817	11.83
61)	TMCPN-PROPYLBENZENE	4.376	3.623	4.280	4.504	4.433	4.986	4.367	10.07
62)	TMCP2-CHLOROTOLUENE	3.044	2.481	2.760	2.638	2.534	2.799	2.709	7.57
63)	TMCP4-CHLOROTOLUENE	3.100	2.460	2.812	2.869	2.749	3.052	2.840	8.13
64)	TMCP1,3,5-TRIMETHY...	2.594	2.234	2.878	2.950	2.934	3.328	2.820	13.14
65)	TMCPTERT-BUTYLBENZENE	2.293	1.825	2.346	2.545	2.506	2.807	2.387	13.79
66)	TMCP1,2,4-TRIMETHY...	2.836	2.160	3.037	3.150	3.068	3.530	2.963	15.34
67)	TMCPSEC-BUTYLBENZENE	3.722	3.371	4.064	4.200	4.144	4.685	4.031	11.10
68)	TMCP1,3-DICHLOROBE...	2.096	1.766	1.761	1.746	1.643	1.780	1.799	8.55
69)	TMCP1,4-DICHLOROBE...	2.191	1.778	1.802	1.716	1.645	1.811	1.824	10.44
70)	TMCPP-ISOPROPYLTOL...	2.915	2.380	3.199	3.340	3.318	3.860	3.169	15.56
71)	TMCP1,2-DICHLOROBE...	2.053	1.535	1.733	1.618	1.546	1.731	1.702	11.27
72)	TMCPN-BUTYLBENZENE	2.602	2.366	3.360	3.612	3.675	4.229	3.307	21.23#
73)	TMCP1,2-DIBROMO-3-...	0.088	0.094	0.109	0.121	0.134	0.167	0.119	24.29#
74)	TMCP1,2,4-TRICHLOR...	1.332	1.009	1.148	1.215	1.255	1.489	1.241	13.13
75)	TMCPNAPHTHALENE	1.660	1.692	2.240	2.665	2.811	3.435	2.417	28.56#
76)	TMCPHEXACHLOROBUTA...	0.743	0.609	0.674	0.680	0.748	0.901	0.726	13.77
77)	TMCP1,2,3-TRICHLOR...	1.313	0.994	1.187	1.254	1.245	1.460	1.242	12.31

(#) = Out of Range

Freedom_0005792_0435

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204D005.D
Acq On : 4 Feb 2014 15:48
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 04 16:13:43 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 15:23:50 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.529	114	152885	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.341	117	149732	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	81821	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.502	65	80088	5.34	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery = 106.80%			
41) TOLUENE-d8	8.620	98	191491	4.86	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery = 97.20%			
59) 4-BROMOFLUOROBENZENE	11.646	95	83067	5.06	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery = 101.20%			
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.307	85	9203m	0.59	ug/L	
3) CHLOROMETHANE	1.427	50	5214	0.64	ug/L #	63
4) VINYL CHLORIDE	1.520	62	5571m	0.56	ug/L	
5) BROMOMETHANE	1.775	94	4649	0.71	ug/L	90
6) CHLOROETHANE	1.895	64	4428	0.71	ug/L	89
7) TRICHLOROFLUOROMETHANE	2.338	101	14961	0.61	ug/L #	71
8) ACETONE	2.465	43	3695	0.97	ug/L #	47
9) 1,1-DICHLOROETHENE	2.795	96	4768	0.60	ug/L #	74
10) METHYLENE CHLORIDE	2.982	84	8200	0.72	ug/L #	62
11) Freon 113	3.065	101	8212	0.67	ug/L	91
12) CARBON DISULFIDE	3.087	76	18326	0.57	ug/L #	94
13) METHYL ACETATE	3.117	43	3346m	0.53	ug/L	
14) TRANS-1,2-DICHLOROETHENE	3.698	96	7238	0.67	ug/L	93
15) METHYL-TERT-BUTYL ETHER	3.886	73	15922	0.57	ug/L #	78
16) 1,1-DICHLOROETHANE	3.965	63	12997	0.62	ug/L #	87
17) VINYL ACETATE	4.261	43	6106m	0.42	ug/L	
19) CIS-1,2-DICHLOROETHENE	4.613	96	8087	0.69	ug/L #	80
20) BROMOCHLOROMETHANE	4.782	128	3891m	0.67	ug/L	
21) CHLOROFORM	4.864	83	14073m	0.59	ug/L	
22) 2,2-DICHLOROPROPANE	4.928	77	9316m	0.60	ug/L	
24) 1,2-DICHLOROETHANE	5.584	62	11174	0.59	ug/L #	91
25) 1,1,1-TRICHLOROETHANE	5.681	97	11654	0.60	ug/L #	86
26) 1,1-DICHLOROPROPENE	5.921	75	9579	0.63	ug/L #	54
27) CYCLOHEXANE	5.963	56	9154m	0.54	ug/L	
28) CARBON TETRACHLORIDE	6.075	117	10020	0.60	ug/L	94
29) BENZENE	6.146	78	27619	0.57	ug/L	95
30) DIBROMOMETHANE	6.784	93	5016	0.63	ug/L #	70
31) 1,2-DICHLOROPROPANE	6.866	63	7043m	0.60	ug/L	
32) TRICHLOROETHENE	6.919	130	7600	0.53	ug/L #	69
33) BROMODICHLOROMETHANE	6.967	83	9829	0.58	ug/L #	81
34) METHYLCYCLOHEXANE	7.477	83	11029	0.57	ug/L #	79
36) CIS-1,3-DICHLOROPROPENE	7.784	75	7176	0.44	ug/L #	77
38) 4-METHYL-2-PENTANONE	8.017	43	2791	0.31	ug/L #	46
39) TRANS-1,3-DICHLOROPROPENE	8.332	75	6408	0.42	ug/L	91
40) 1,1,2-TRICHLOROETHANE	8.470	97	7618	0.67	ug/L	95
42) TOLUENE	8.692	92	17178	0.57	ug/L	97
43) 1,3-DICHLOROPROPANE	8.778	76	12787	0.59	ug/L	92
44) CHLORODIBROMOMETHANE	9.018	129	6842	0.59	ug/L #	87
45) 2-HEXANONE	9.096	43	1187	0.19	ug/L #	40
46) 1,2-DIBROMOETHANE (EDB)	9.303	107	6846	0.63	ug/L #	60

Freedom_0005792_0436

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204D005.D
Acq On : 4 Feb 2014 15:48
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25µL - 100mL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 04 16:13:43 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 15:23:50 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47)	TETRACHLOROETHENE	9.558	164	5588	0.53	ug/L	#	77
48)	1,1,1,2-TETRACHLOROETHANE	10.292	131	5644	0.54	ug/L		88
49)	CHLOROBENZENE	10.371	112	21424	0.66	ug/L		90
50)	ETHYLBENZENE	10.660	91	27956	0.49	ug/L		94
51)	BROMOFORM	10.881	173	2258m	0.30	ug/L		
52)	M-XYLENE/P-XYLENE	10.892	106	18470	0.85	ug/L		86
53)	STYRENE	11.214	104	28592	0.81	ug/L		96
54)	O-XYLENE	11.274	106	21950	0.94	ug/L		89
55)	ISOPROPYLBENZENE	11.646	105	31094	0.51	ug/L		98
57)	1,1,2,2-TETRACHLOROETHANE	11.267	83	5389	0.67	ug/L		87
58)	1,2,3-TRICHLOROPROPANE	11.402	75	7752	0.67	ug/L		93
60)	BROMOBENZENE	11.803	156	9481	0.75	ug/L		88
61)	N-PROPYLBENZENE	12.065	91	39301	0.57	ug/L	#	90
62)	2-CHLOROTOLUENE	12.103	91	24020	0.57	ug/L		93
63)	4-CHLOROTOLUENE	12.182	91	28173	0.64	ug/L	#	84
64)	1,3,5-TRIMETHYLBENZENE	12.362	105	22878	0.52	ug/L		92
65)	TERT-BUTYLBENZENE	12.568	119	20615	0.56	ug/L		99
66)	1,2,4-TRIMETHYLBENZENE	12.680	105	22032	0.48	ug/L		100
67)	SEC-BUTYLBENZENE	12.759	105	30889	0.49	ug/L		93
68)	1,3-DICHLOROBENZENE	12.766	146	18175	0.65	ug/L		97
69)	1,4-DICHLOROBENZENE	12.834	146	18418	0.64	ug/L	#	84
70)	P-ISOPROPYLTOLUENE	12.935	119	24581	0.50	ug/L		96
71)	1,2-DICHLOROBENZENE	13.115	146	16791	0.64	ug/L	#	91
72)	N-BUTYLBENZENE	13.269	91	24821	0.48	ug/L	#	91
73)	1,2-DIBROMO-3-CHLOROPR...	13.490	75	740	0.36	ug/L		82
74)	1,2,4-TRICHLOROBENZENE	14.554	180	11534	0.59	ug/L	#	90
75)	NAPHTHALENE	14.731	128	16444	0.42	ug/L	#	93
76)	HEXACHLOROBUTADIENE	14.806	225	5741	0.51	ug/L	#	80
77)	1,2,3-TRICHLOROBENZENE	14.877	180	10346	0.53	ug/L	#	87

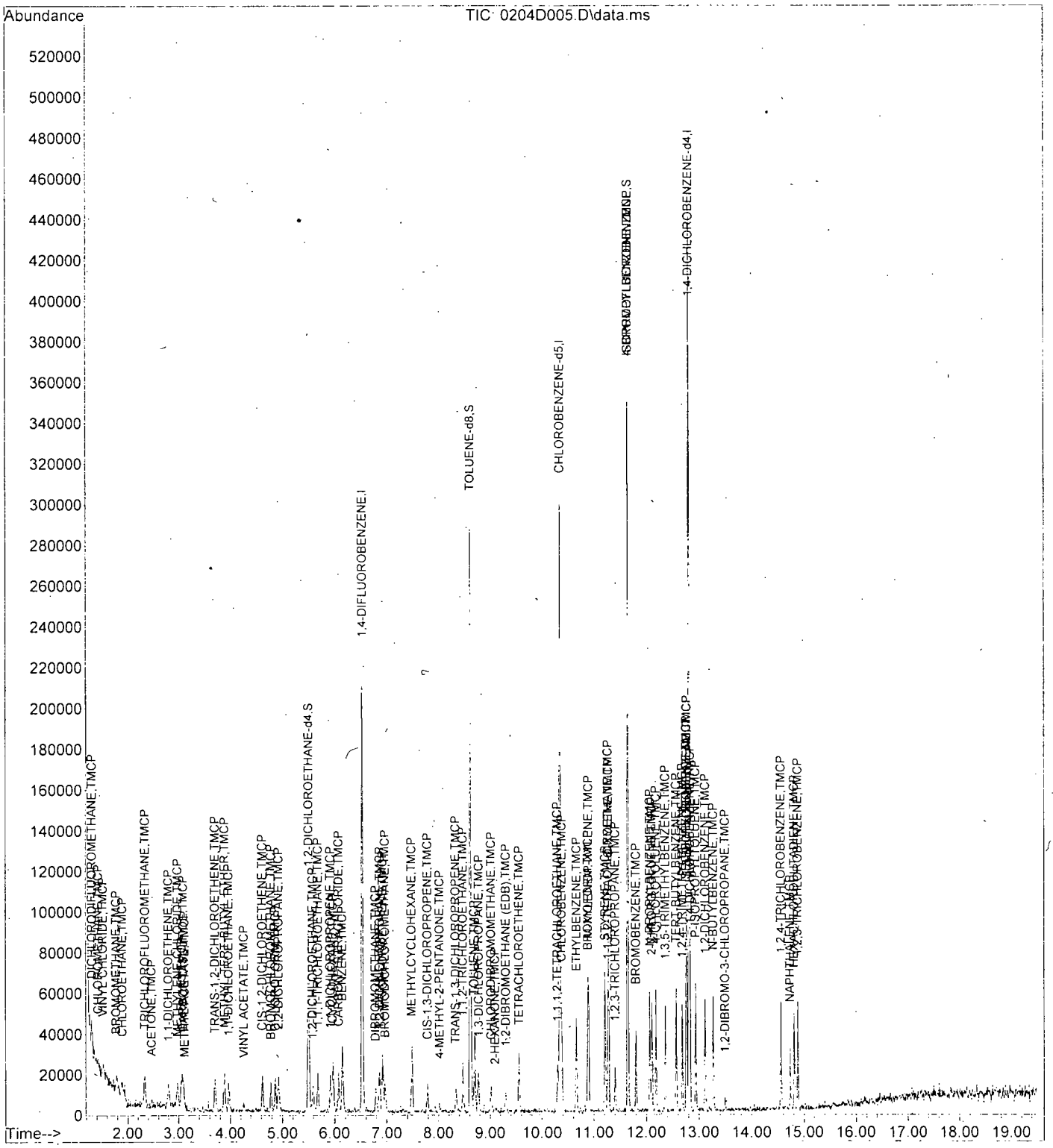
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0437

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204D005.D
Acq On : 4 Feb 2014 15:48
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 04 16:13:43 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 15:23:50 2014
Response via : Initial Calibration



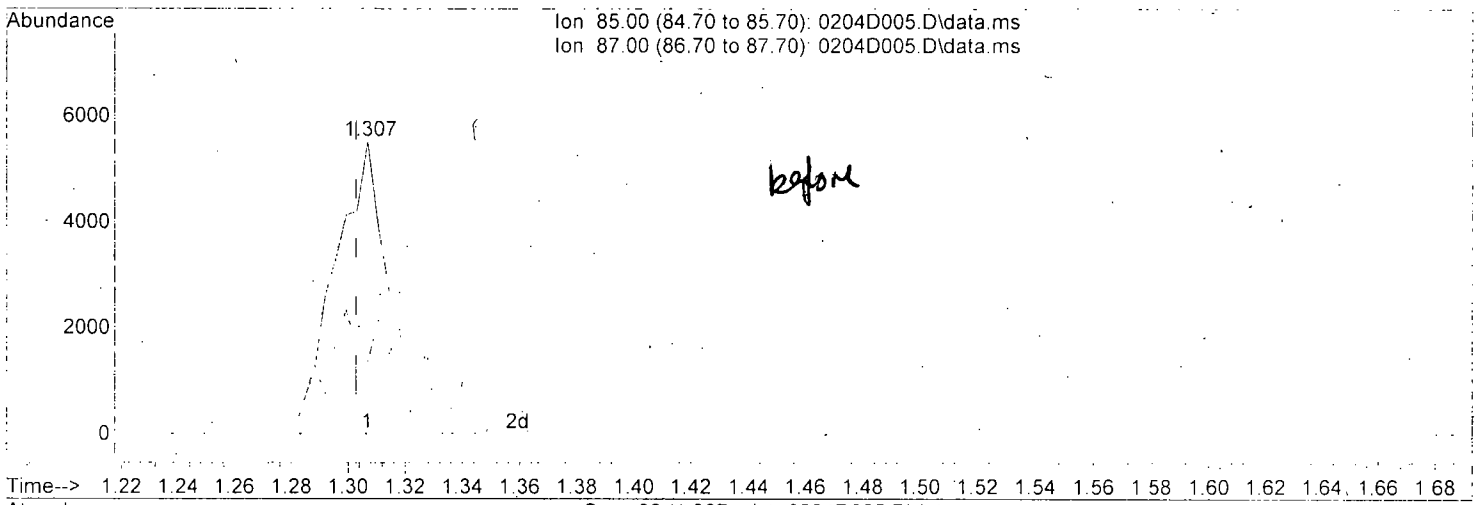
Freedom_0005792_0438

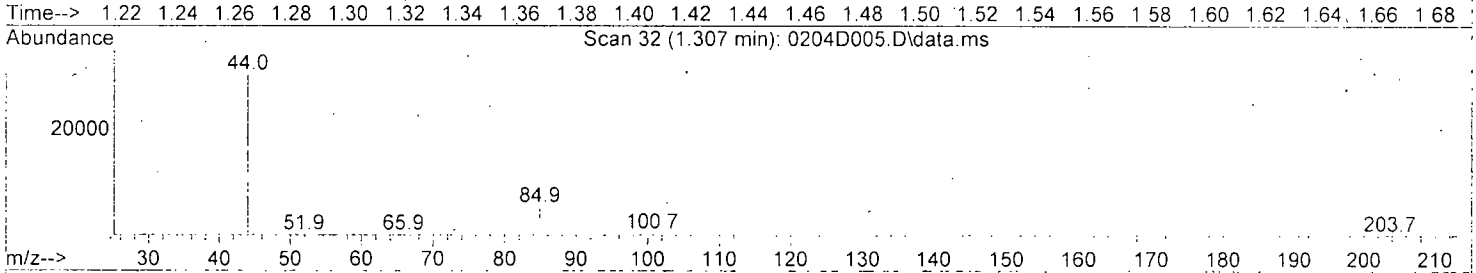
Quantitation Report (Qedit)

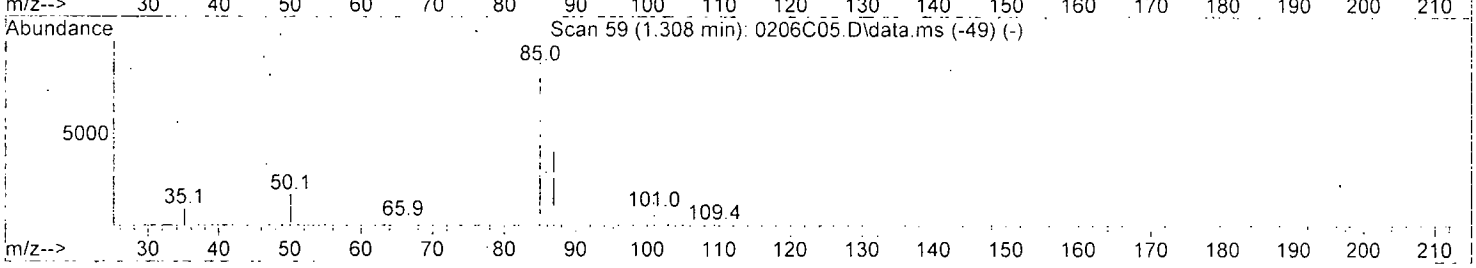
Data Path : D:\DATA\L02042014\
Data File : 0204D005.D
Acq On : 4 Feb 2014 15:48
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 04 16:09:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 15:23:50 2014
Response via : Initial Calibration

Note: I adjusted the printer settings and toner to obtain darker printouts once I saw the low contrast on the printouts for this sample. PS3 2/10/14







TIC: 0204D005.D\data.ms

(2) DICHLORODIFLUOROMETHANE (TMCP)

1.307min (+0.004) 0.57 ug/L

response 8828

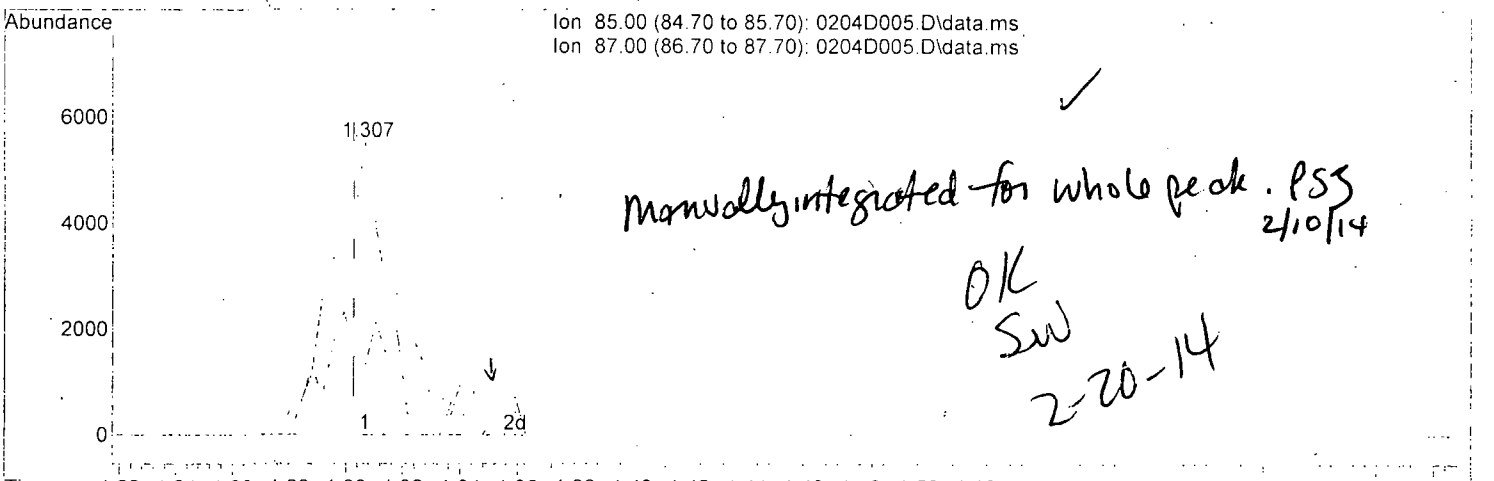
Ion	Exp%	Act%
85.00	100	100
87.00	32.50	12.90#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0439

Quantitation Report (Qedit)

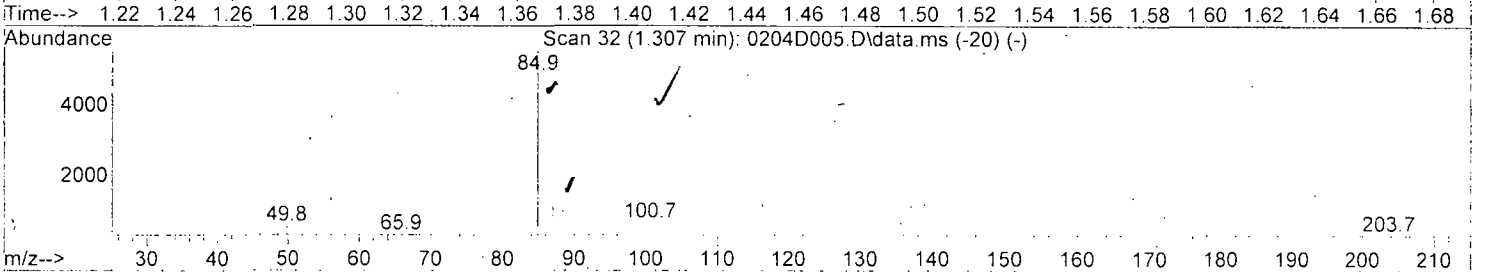
Data Path : D:\DATA\L02042014\
Data File : 0204D005.D
Acq On : 4 Feb 2014 15:48
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 13 Sample Multiplier: 1

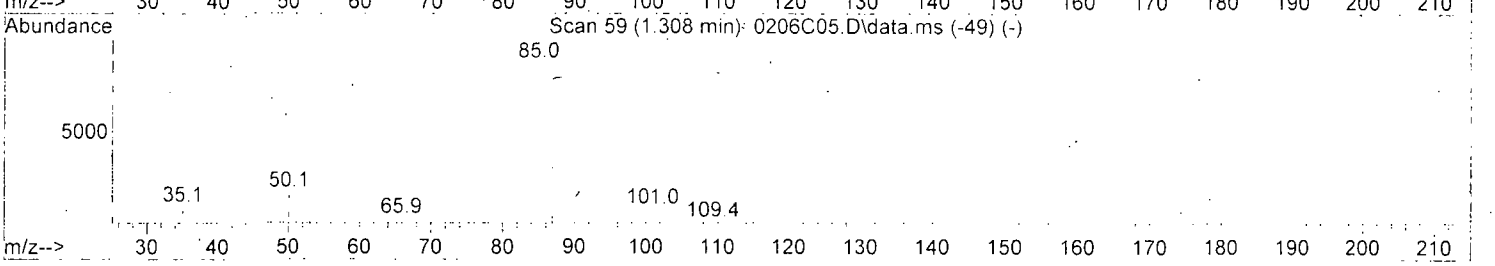
Quant Time: Feb 04 16:09:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 15:23:50 2014
Response via : Initial Calibration



manually integrated for whole peak. PSS 2/10/14

OK SW 2-20-14





TIC: 0204D005.D\data.ms

(2) DICHLORODIFLUOROMETHANE (TMCP)

1.307min (+0.004) 0.59 ug/L m

response 9203

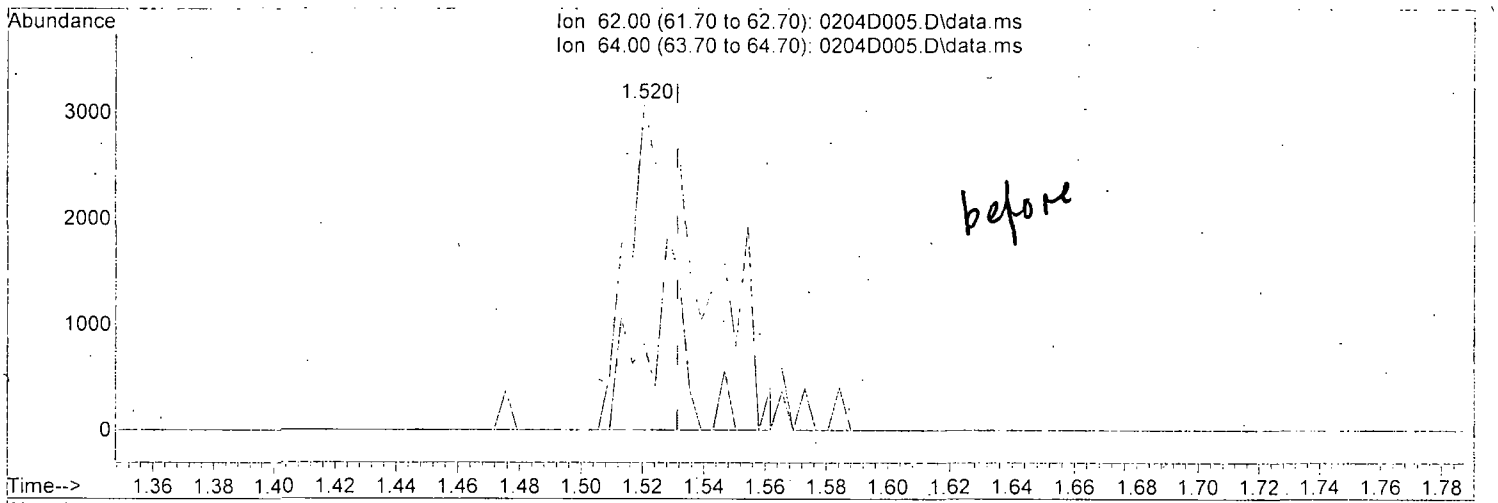
Ion	Exp%	Act%
85.00	100	100
87.00	32.50	12.38#
0.00	0.00	0.00
0.00	0.00	0.00

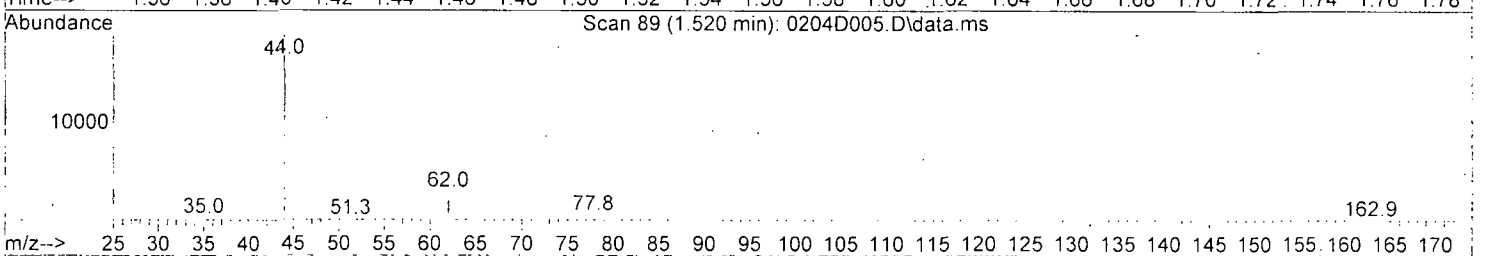
Freedom_0005792_0440

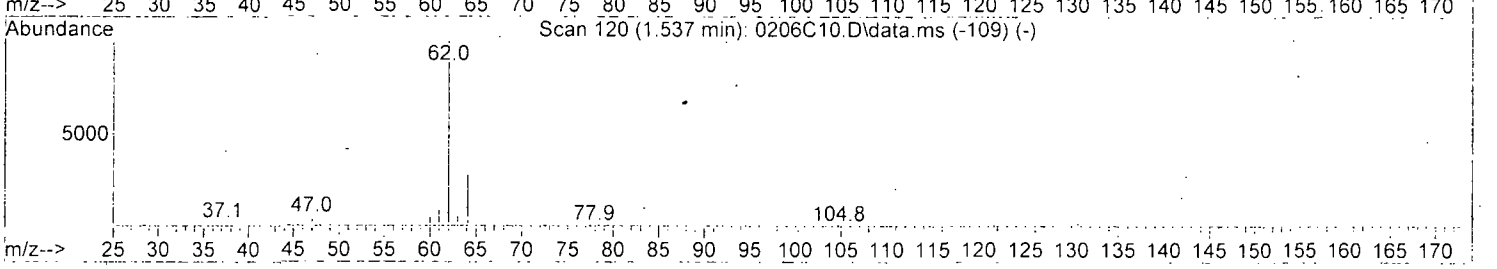
Quantitation Report (Qedit)

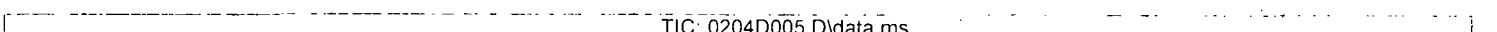
Data Path : D:\DATA\L02042014\
Data File : 0204D005.D
Acq On : 4 Feb 2014 15:48
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 04 16:09:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 15:23:50 2014
Response via : Initial Calibration









(4) VINYL CHLORIDE (TMCP)

1.520min (-0.011) 0.53 ug/L

response 5258

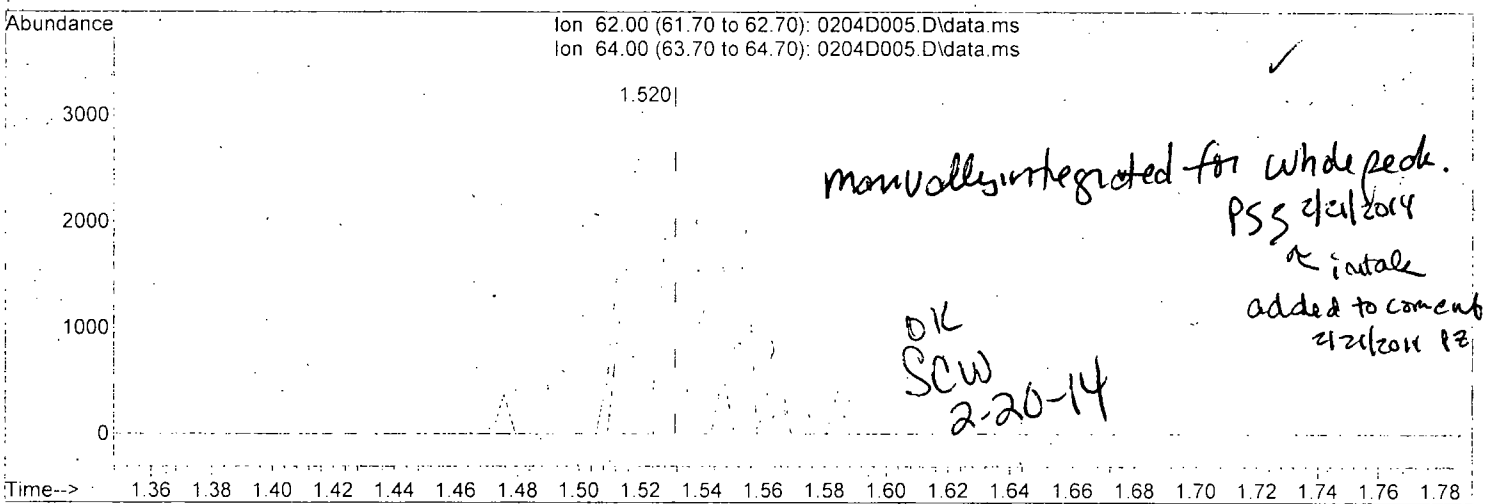
Ion	Exp%	Act%
62.00	100	100
64.00	31.90	28.43
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0441

Quantitation Report (Qedit)

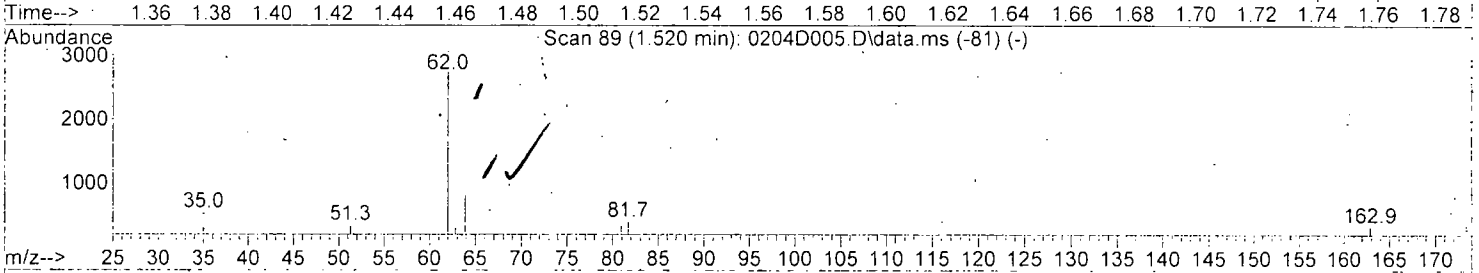
Data Path : D:\DATA\L02042014\
Data File : 0204D005.D
Acq On : 4 Feb 2014 15:48
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 13 Sample Multiplier: 1

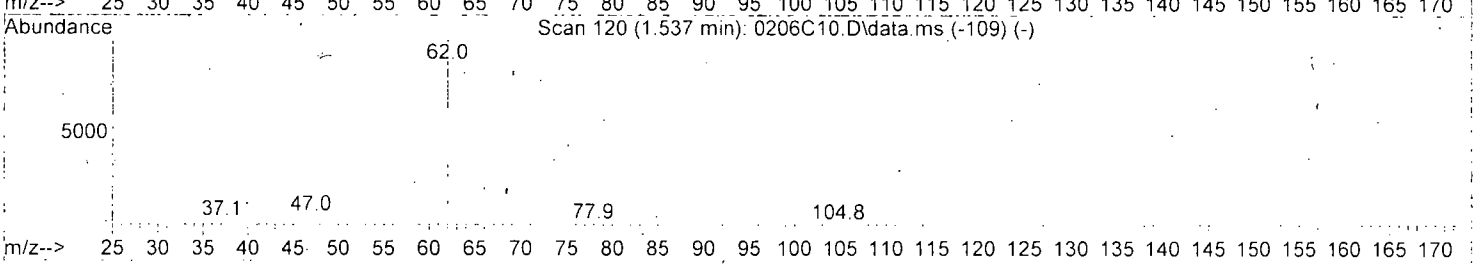
Quant Time: Feb 04 16:09:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 15:23:50 2014
Response via : Initial Calibration



manually integrated for whole peak. PSS 2/21/2014
initials added to comment 2/21/2014 PZ

OK SCW 2-20-14





TIC: 0204D005.D\data.ms

(4) VINYL CHLORIDE (TMCP)

1.520min (-0.011) 0.56 ug/L m

response 5571

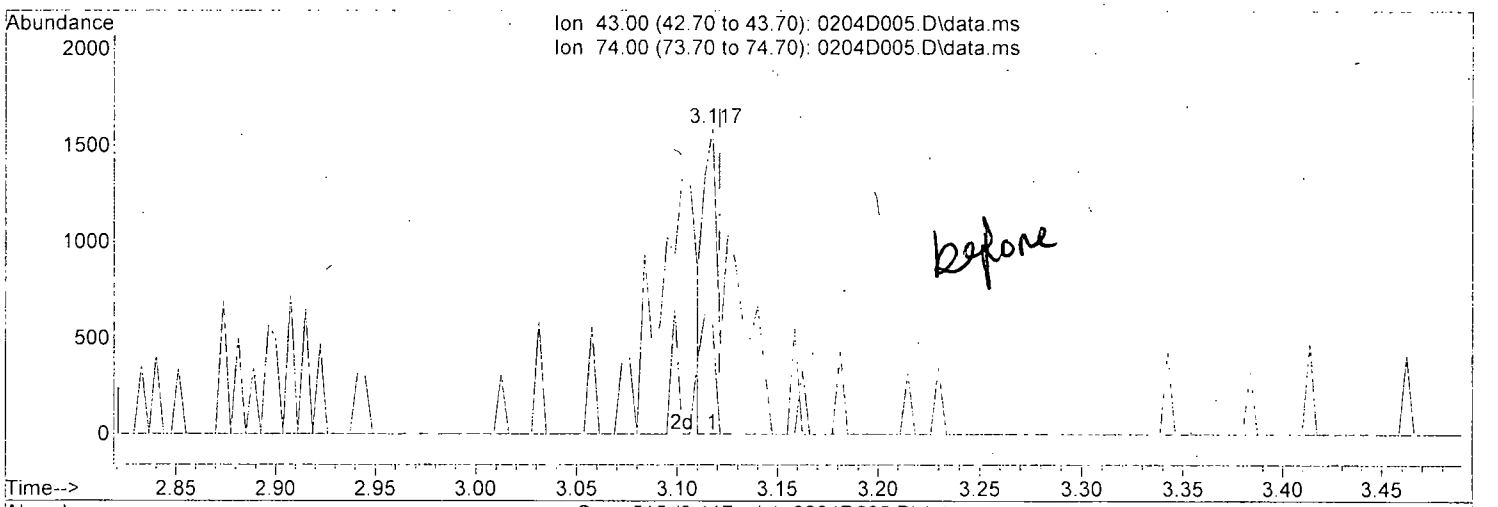
Ion	Exp%	Act%
62.00	100	100
64.00	31.90	26.84
0.00	0.00	0.00
0.00	0.00	0.00

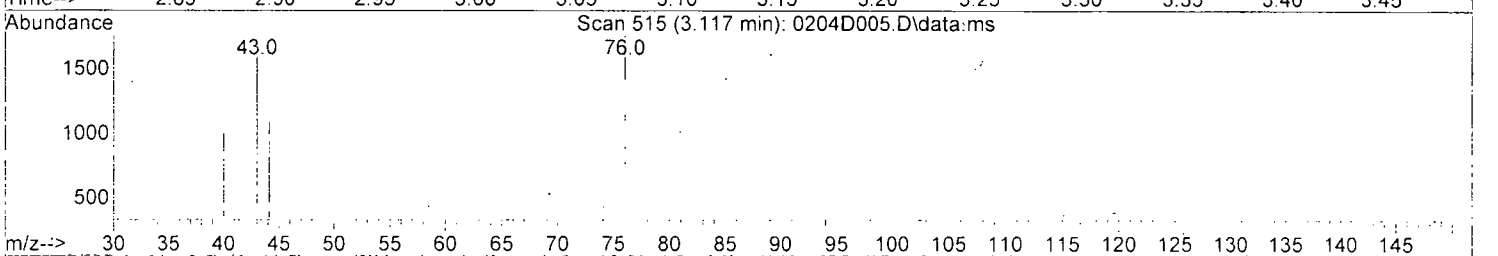
Freedom_0005792_0442

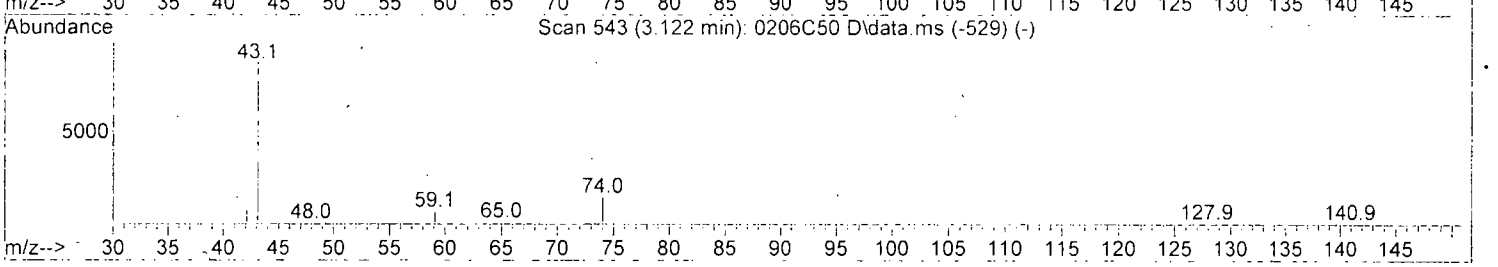
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204D005.D
Acq On : 4 Feb 2014 15:48
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 04 16:09:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 15:23:50 2014
Response via : Initial Calibration







TIC: 0204D005.D\data.ms

(13) METHYL ACETATE (TMCP)

3.117min (-0.004) 0.27 ug/L

response 1672

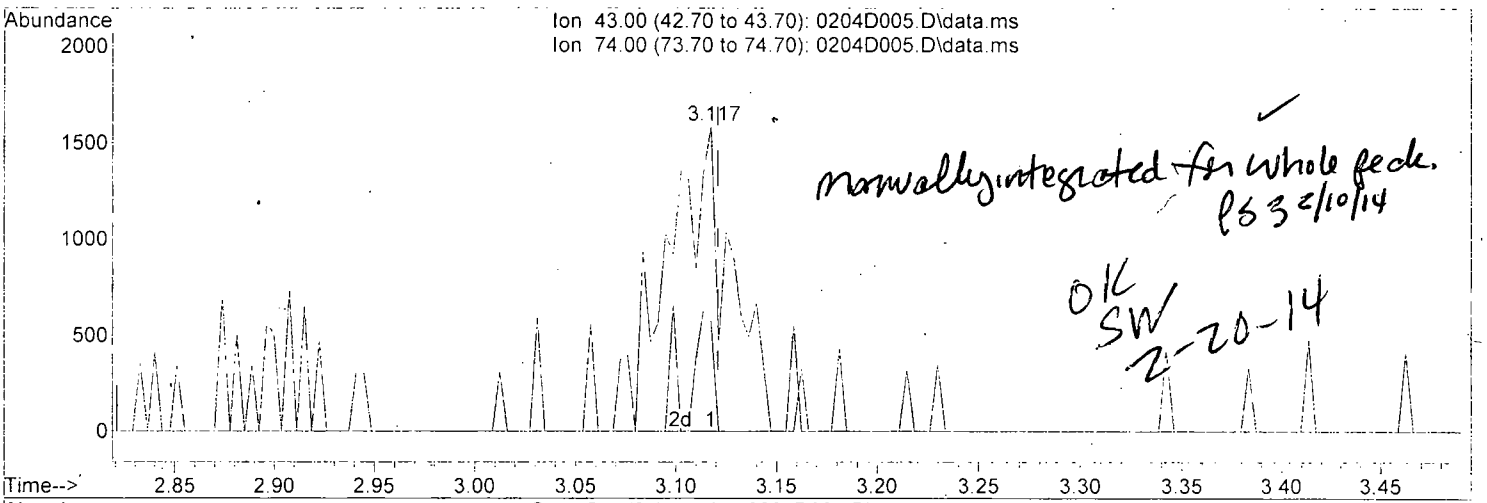
Ion	Exp%	Act%
43.00	100	100
74 00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0443

Quantitation Report (Qedit)

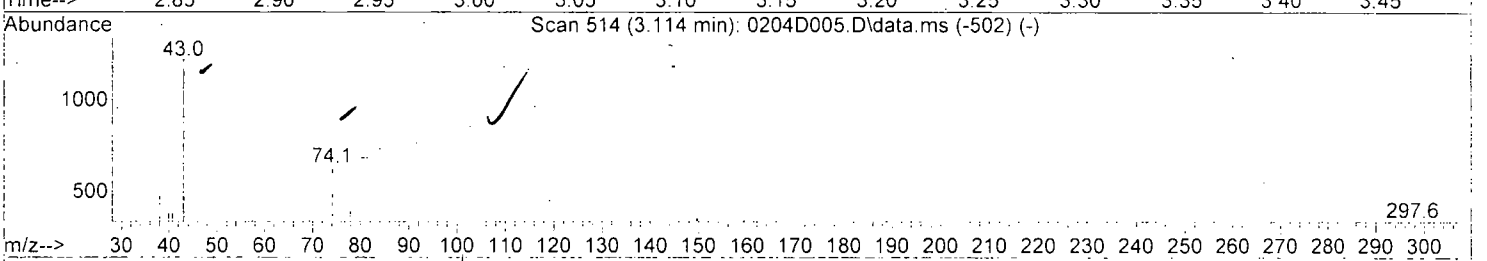
Data Path : D:\DATA\L02042014\
Data File : 0204D005.D
Acq On : 4 Feb 2014 15:48
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 13 Sample Multiplier: 1

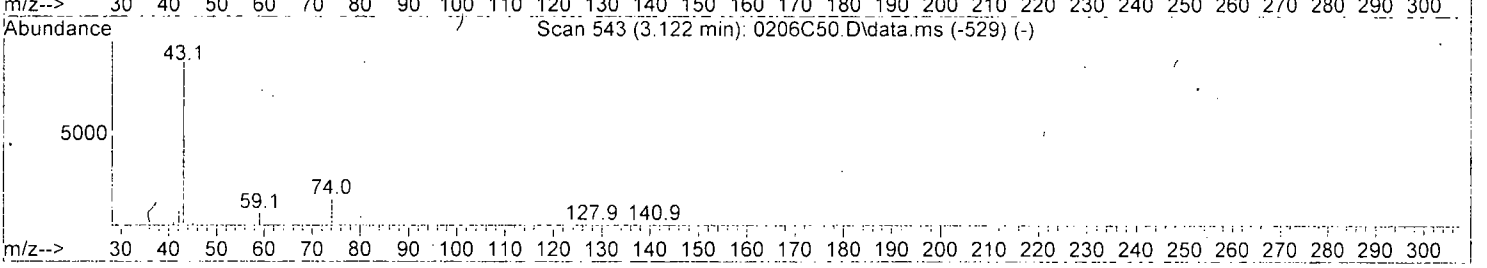
Quant Time: Feb 04 16:09:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 15:23:50 2014
Response via : Initial Calibration



normally integrated for whole peak. RS 2/10/14

OK SW 2-20-14





TIC: 0204D005.D\data.ms

(13) METHYL ACETATE (TMCP)

3.117min (-0.004) 0.53 ug/L m

response 3346

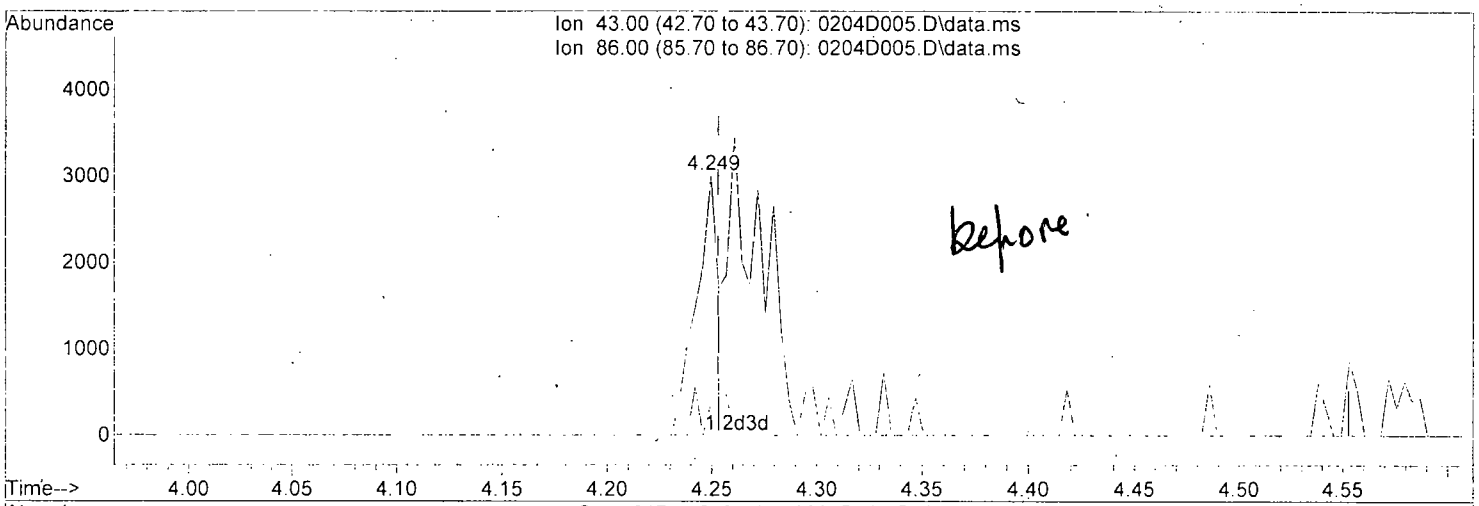
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

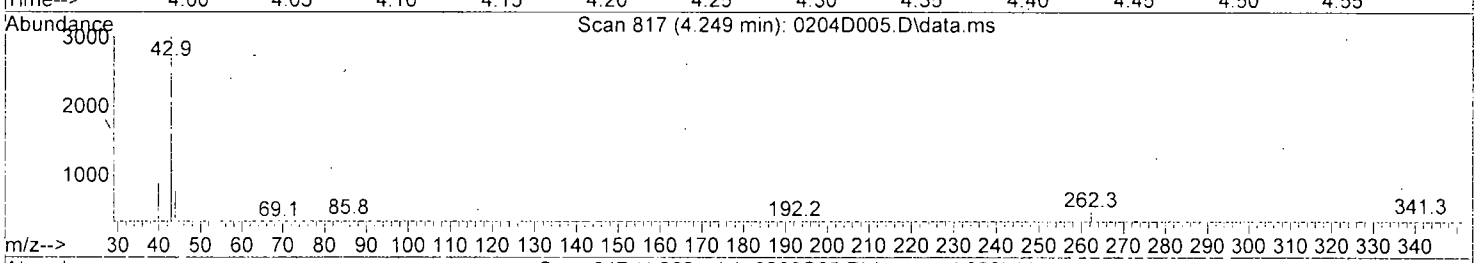
Freedom_0005792_0444

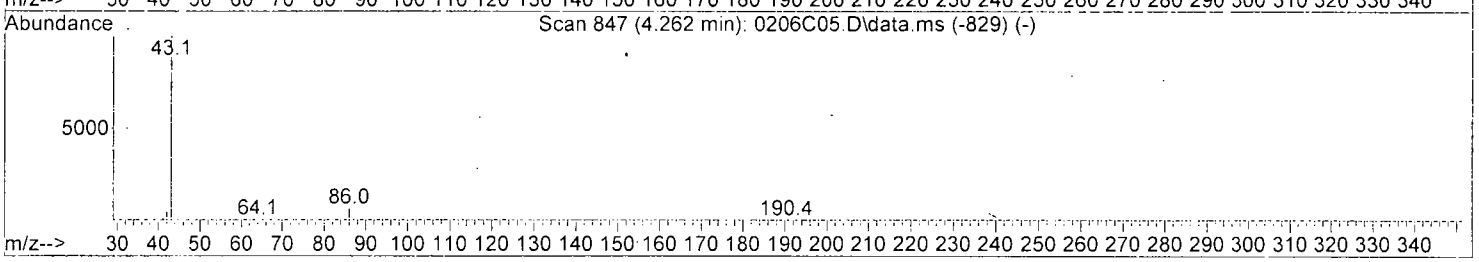
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204D005.D
Acq On : 4 Feb 2014 15:48
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 04 16:09:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 15:23:50 2014
Response via : Initial Calibration







TIC: 0204D005.D\data.ms

(17) VINYL ACETATE (TMCP)

4.249min (-0.004) 0.15 ug/L

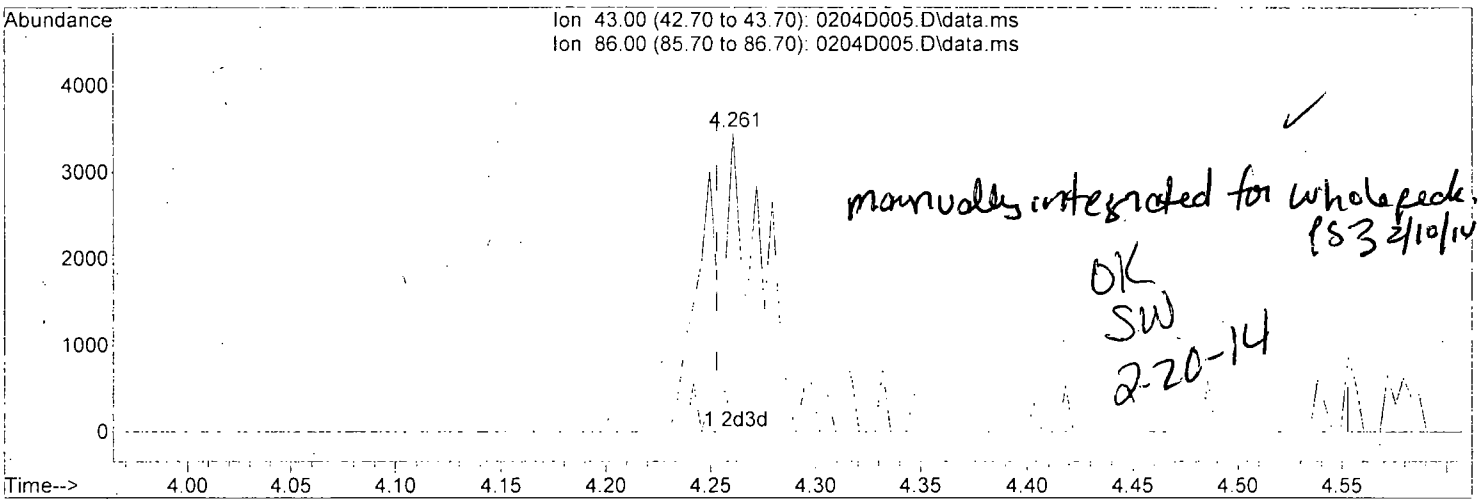
response 2157

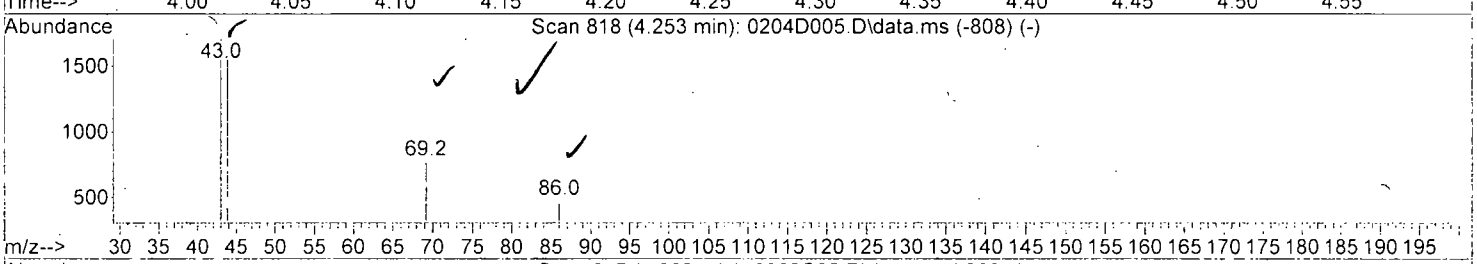
Ion	Exp%	Act%
43.00	100	100
86.00	8.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

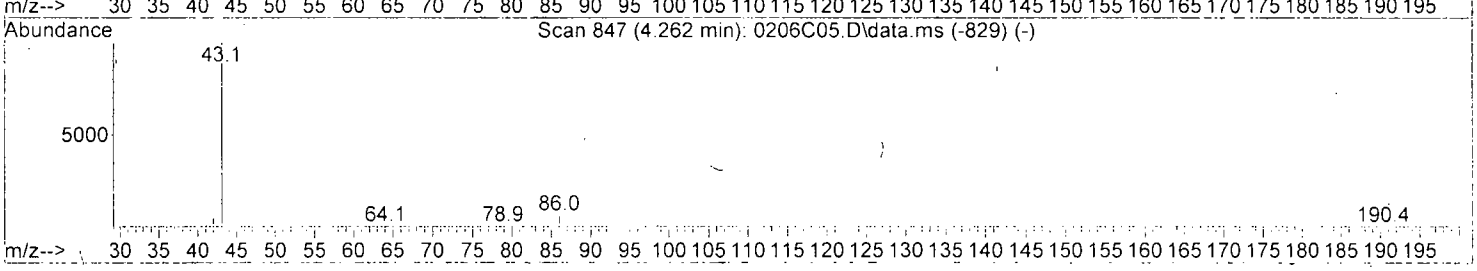
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204D005.D
Acq On : 4 Feb 2014 15:48
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 04 16:09:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 15:23:50 2014
Response via : Initial Calibration







TIC: 0204D005.D\data.ms

(17) VINYL ACETATE (TMCP)

4.261min (+0.008) 0.42 ug/L m

response 6106

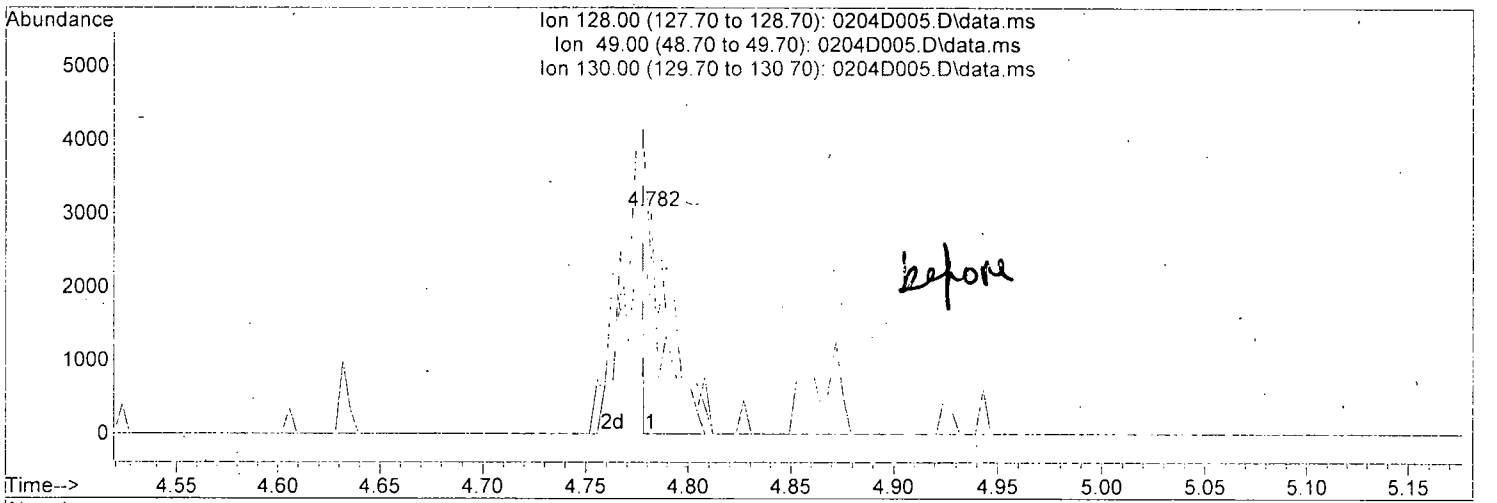
Ion	Exp%	Act%
43.00	100	100
86.00	8.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

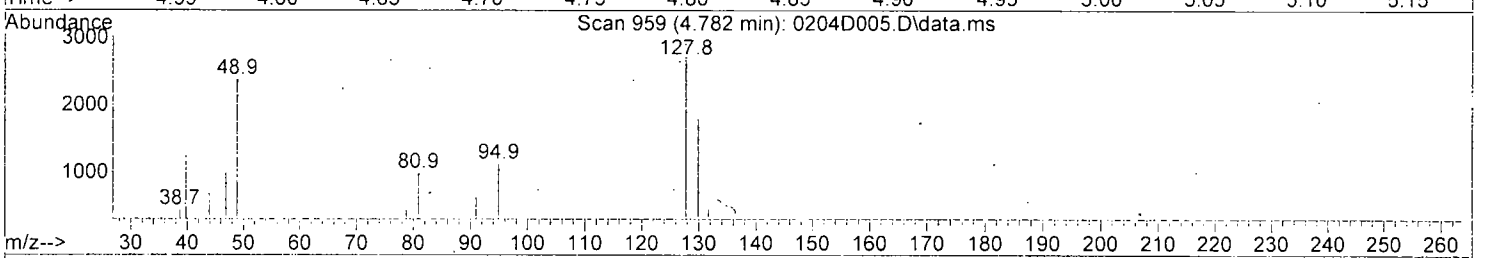
Freedom_0005792_0446

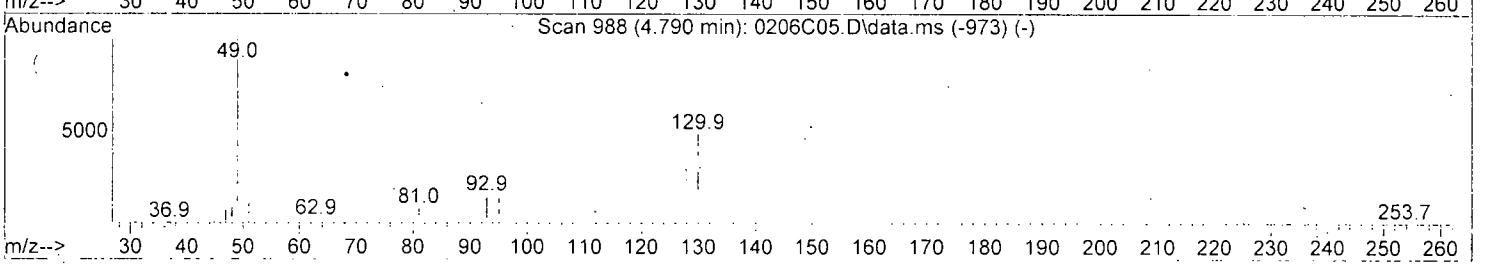
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204D005.D
Acq On : 4 Feb 2014 15:48
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 04 16:09:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 15:23:50 2014
Response via : Initial Calibration







TIC: 0204D005.D\data.ms

(20) BROMOCHLOROMETHANE (TMCP)

4.782min (+0.004) 0.31 ug/L

response 1798

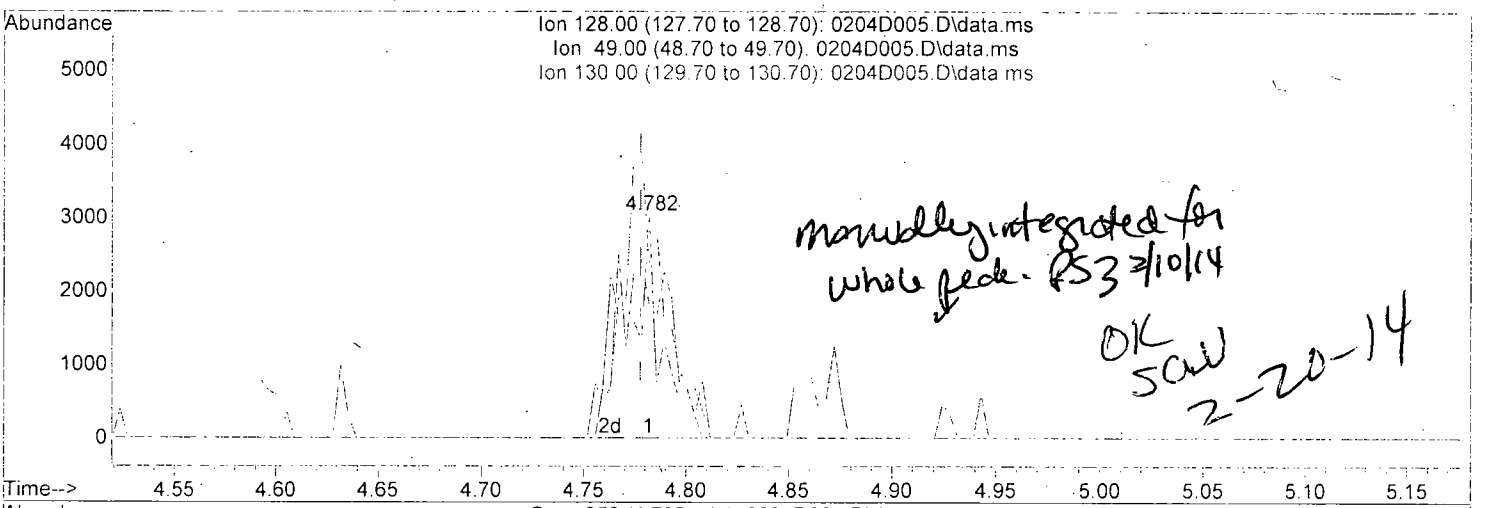
Ion	Exp%	Act%
128.00	100	100
49.00	154.70	305.90#
130.00	132.80	0.00#
0.00	0.00	0.00

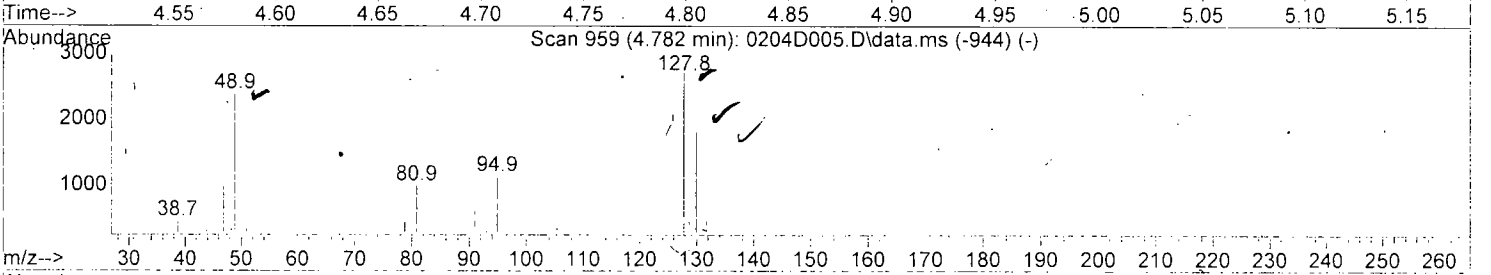
Freedom_0005792_0447

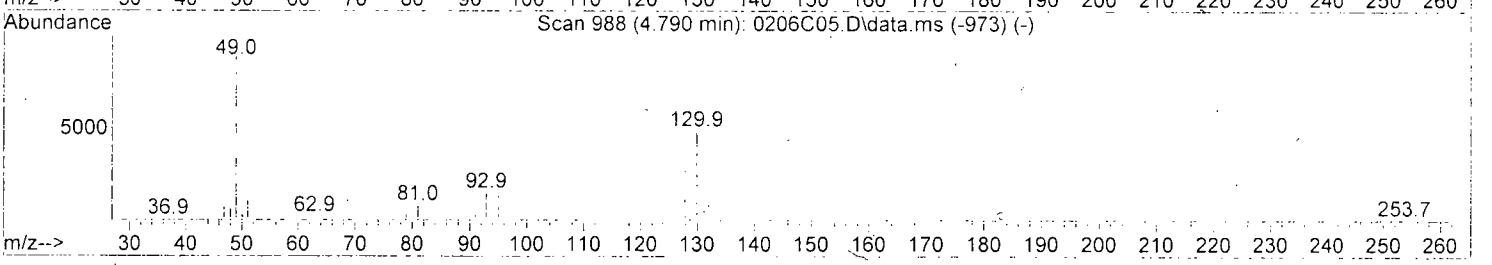
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204D005.D
Acq On : 4 Feb 2014 15:48
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 04 16:09:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 15:23:50 2014
Response via : Initial Calibration







TIC: 0204D005.D\data.ms

(20) BROMOCHLOROMETHANE (TMCP)

4.782min (+0.004) 0.67 ug/L m

response 3891

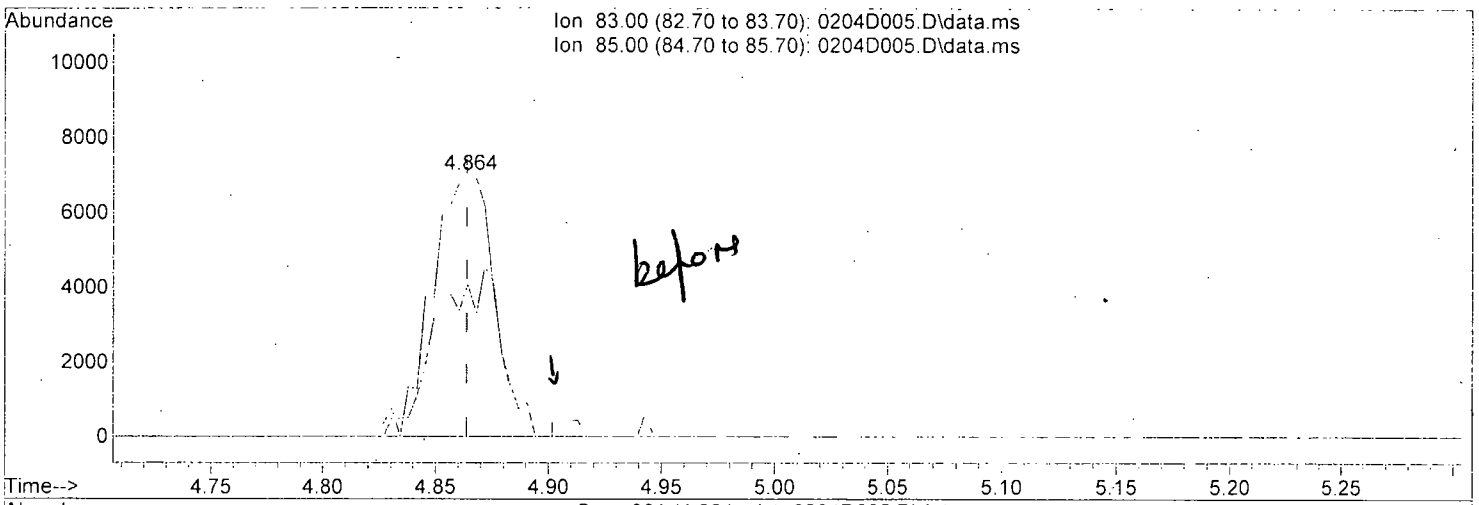
Ion	Exp%	Act%
128.00	100	100
49.00	154.70	141.35
130.00	132.80	0.00#
0.00	0.00	0.00

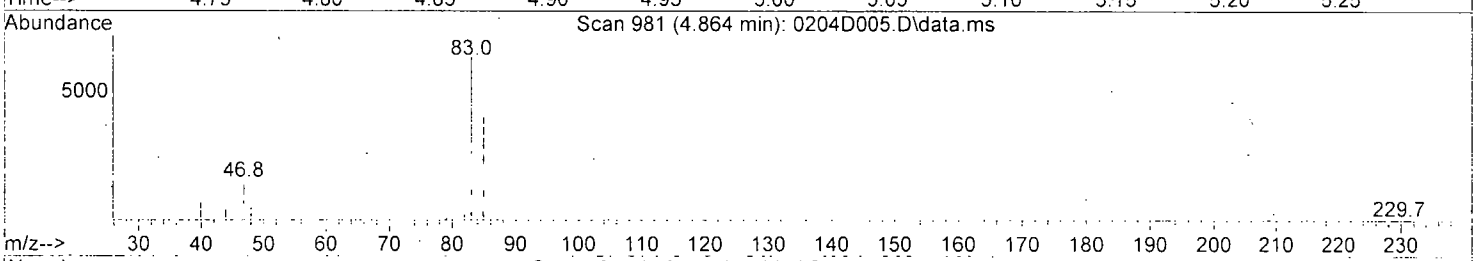
Freedom_0005792_0448

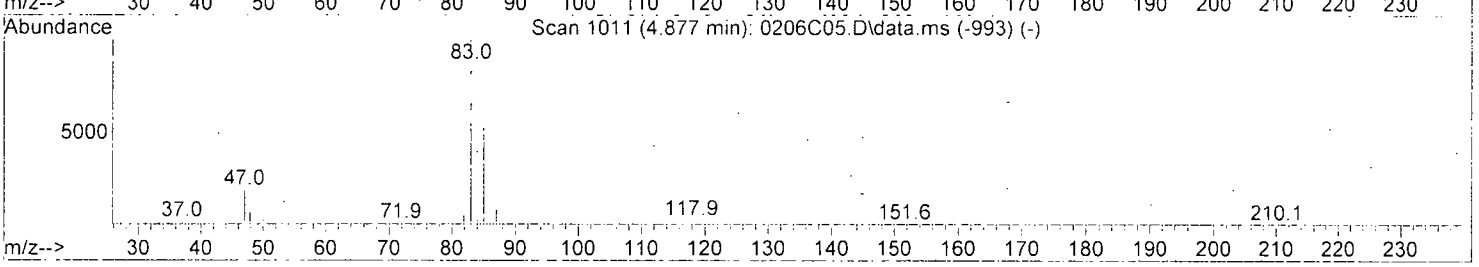
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204D005.D
Acq On : 4 Feb 2014 15:48
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 04 16:09:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 15:23:50 2014
Response via : Initial Calibration







TIC: 0204D005.D\data.ms

(21) CHLOROFORM (TMCP)

4.864min (+0.000) 0.57 ug/L

response 13741

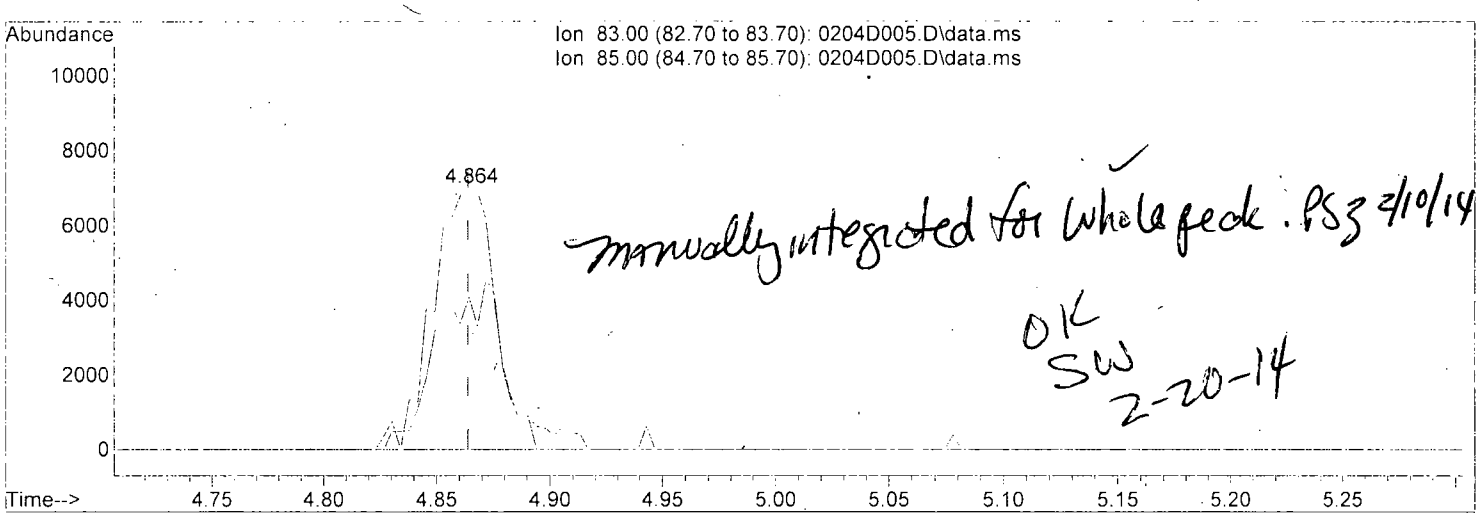
Ion	Exp%	Act%
83.00	100	100
85.00	64.10	30.13#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0449

Quantitation Report (Qedit)

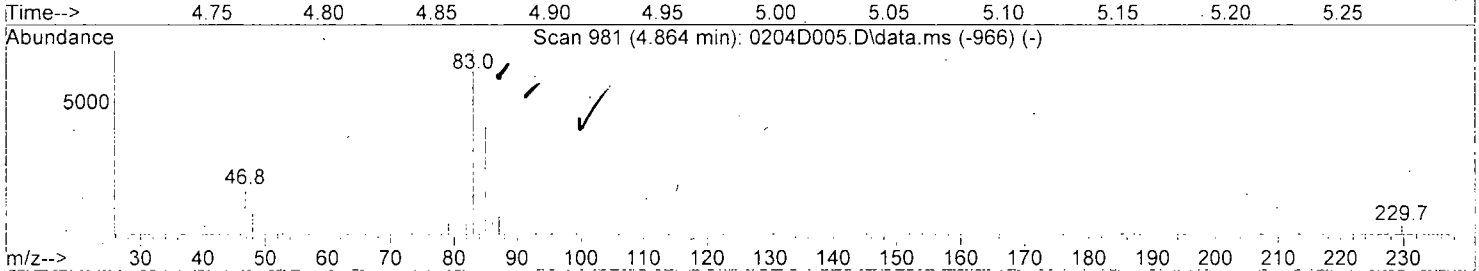
Data Path : D:\DATA\L02042014\
Data File : 0204D005.D
Acq On : 4 Feb 2014 15:48
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 13 Sample Multiplier: 1

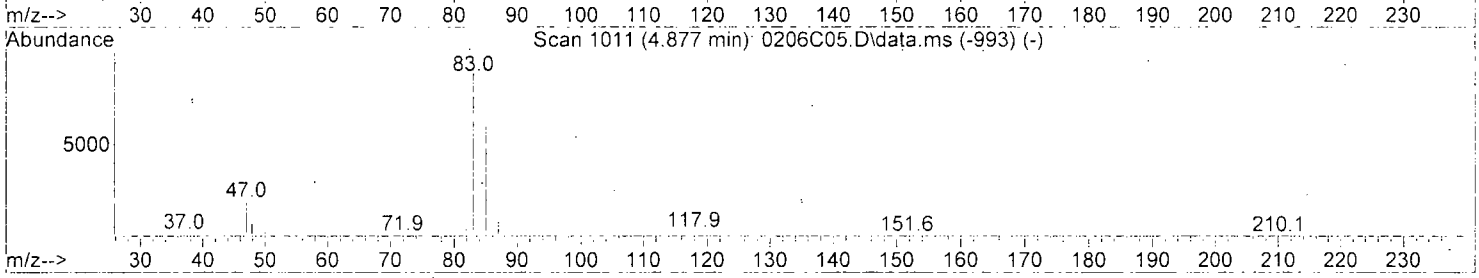
Quant Time: Feb 04 16:09:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 15:23:50 2014
Response via : Initial Calibration



manually integrated for whole peak. PSZ 2/10/14

OK SW 2-20-14





TIC: 0204D005.D\data.ms

(21) CHLOROFORM (TMCP)

4.864min (+0.000) 0.59 ug/L m

response 14073

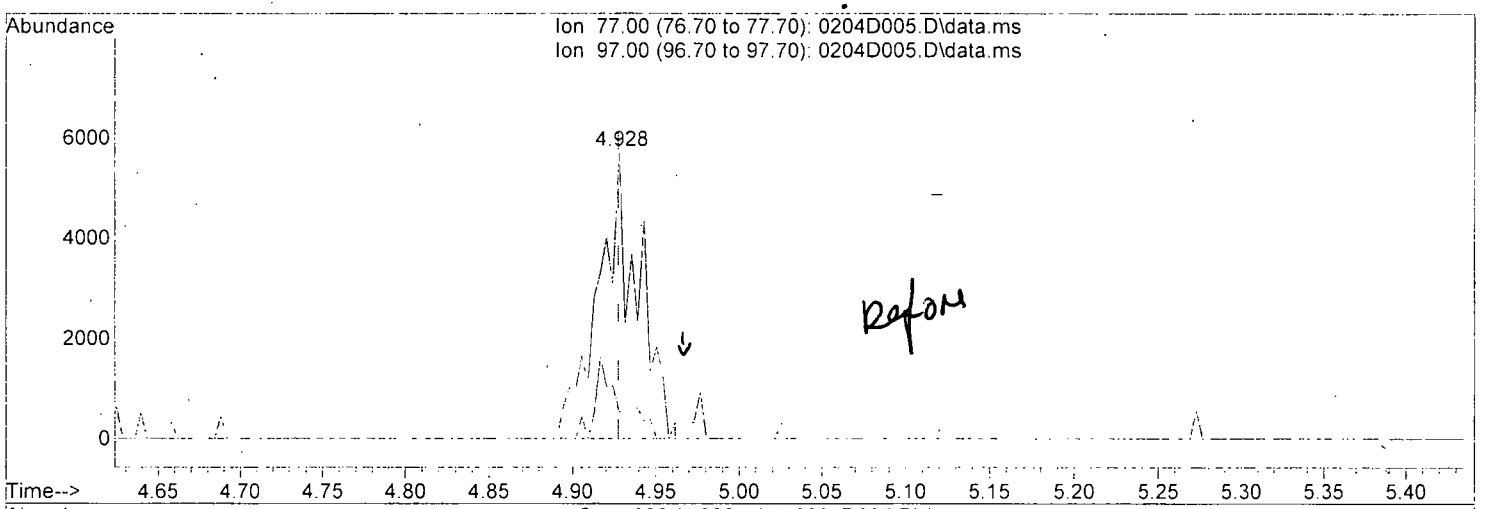
Ion	Exp%	Act%
83.00	100	100
85.00	64.10	29.42#
0.00	0.00	0.00
0.00	0.00	0.00

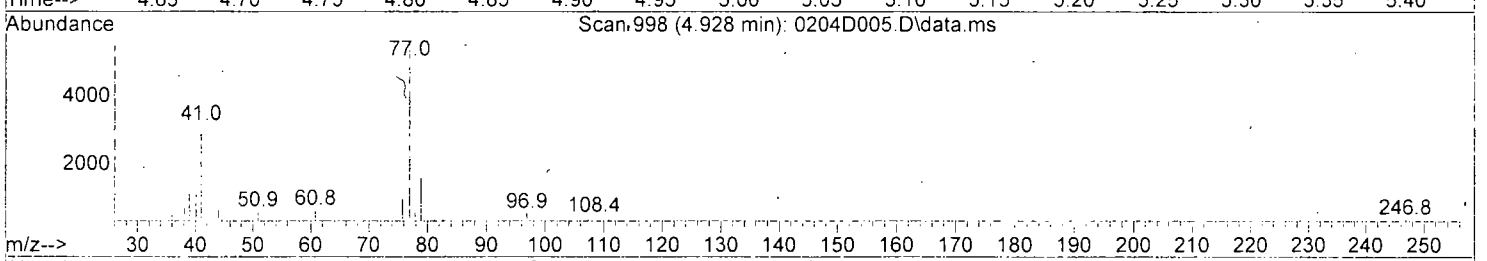
Freedom_0005792_0450

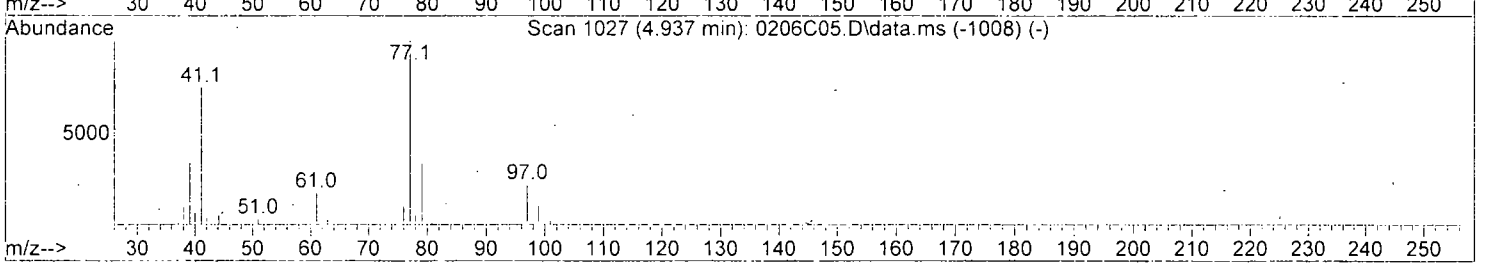
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204D005.D
Acq On : 4 Feb 2014 15:48
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 04 16:09:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 15:23:50 2014
Response via : Initial Calibration







TIC: 0204D005.D\data.ms

(22) 2,2-DICHLOROPROPANE (TMCP)

4.928min (+0.000) 0.60 ug/L

response 9386

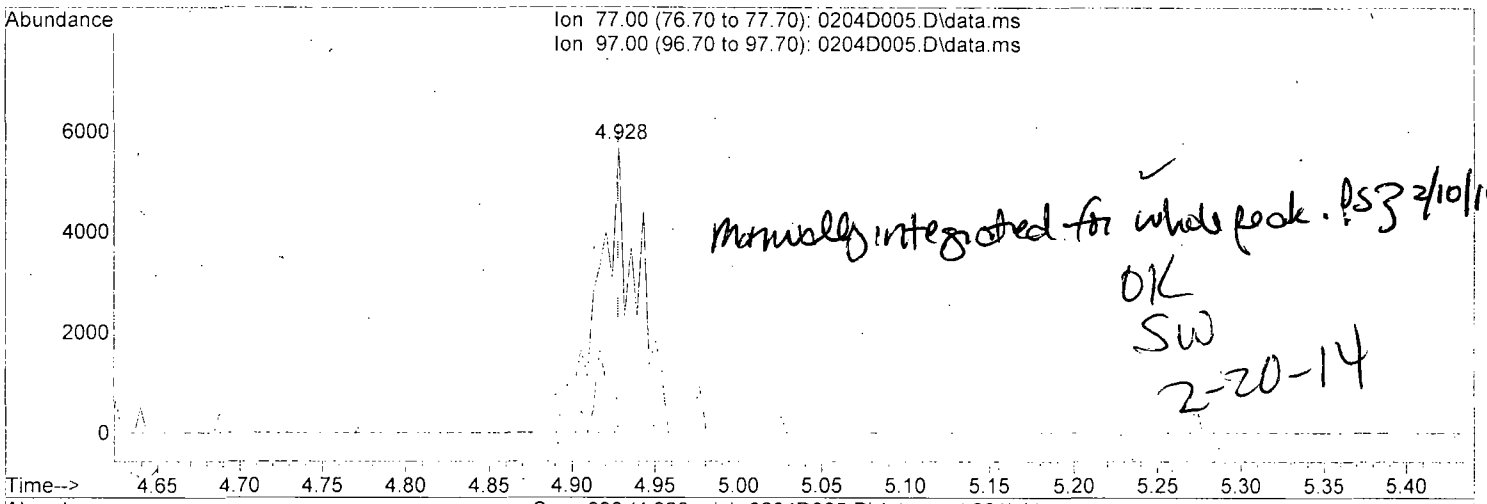
Ion	Exp%	Act%
77.00	100	100
97.00	18.70	18.44
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0451

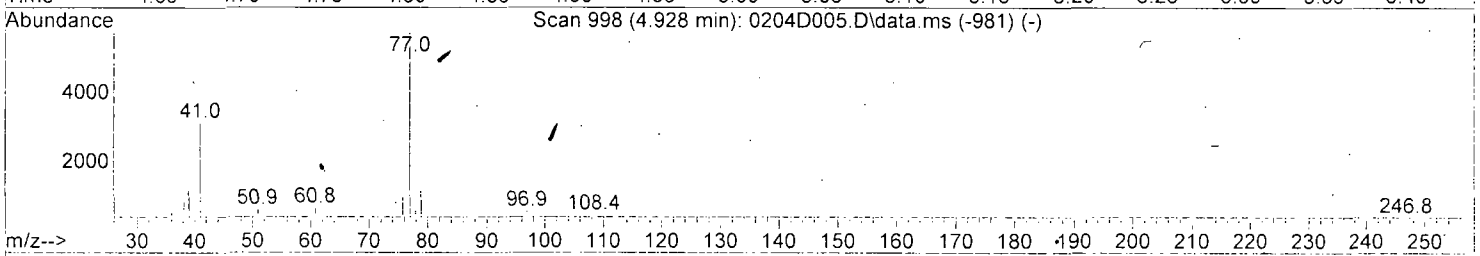
Quantitation Report (Qedit)

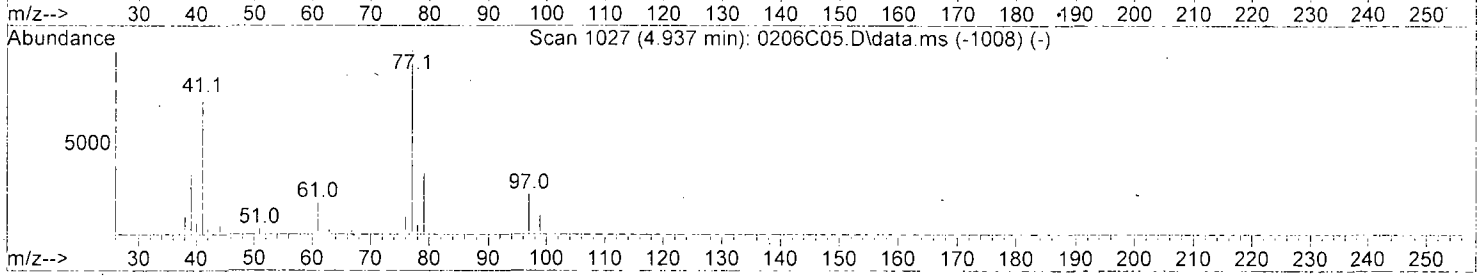
Data Path : D:\DATA\L02042014\
Data File : 0204D005.D
Acq On : 4 Feb 2014 15:48
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 04 16:09:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 15:23:50 2014
Response via : Initial Calibration



manually integrated for whole peak. PS 3/10/14
OK
SW
2-20-14





TIC: 0204D005.D\data.ms

(22) 2,2-DICHLOROPROPANE (TMCP)

4.928min (+0.000) 0.60 ug/L m

response 9316

Ion	Exp%	Act%
77.00	100	100
97.00	18.70	18.58
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0452

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204C01.D
Acq On : 4 Feb 2014 12:57
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 04 13:26:11 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:22:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.525	114	137039	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	132736	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.807	152	83706	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.501	65	73050	5.23	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	=	104.60%	
41) TOLUENE-d8	8.617	98	170583	4.99	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	=	99.80%	
59) 4-BROMOFLUOROBENZENE	11.649	95	76998	4.85	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	=	97.00%	
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.303	85	16302	1.23	ug/L	94
3) CHLOROMETHANE	1.415	50	8153	0.61	ug/L	90
4) VINYL CHLORIDE	1.532	62	10399	0.98	ug/L	97
5) BROMOMETHANE	1.775	94	6224	1.12	ug/L	98
6) CHLOROETHANE	1.903	64	6212	1.00	ug/L #	84
7) TRICHLOROFLUOROMETHANE	2.334	101	24880	1.13	ug/L	95
8) ACETONE	2.469	43	1097	0.17	ug/L #	47
9) 1,1-DICHLOROETHENE	2.810	96	8333	1.16	ug/L	97
10) METHYLENE CHLORIDE	2.986	84	11286	1.01	ug/L	97
11) Freon 113	3.072	101	12498	1.10	ug/L #	21
12) CARBON DISULFIDE	3.091	76	31424	1.05	ug/L #	91
13) METHYL ACETATE	3.117	43	5609m	0.62	ug/L	
14) TRANS-1,2-DICHLOROETHENE	3.702	96	11197	1.08	ug/L	95
15) METHYL-TERT-BUTYL ETHER	3.886	73	26073	1.08	ug/L #	74
16) 1,1-DICHLOROETHANE	3.968	63	20675	0.95	ug/L	94
17) VINYL ACETATE	4.253	43	12354m	0.62	ug/L	
18) 2-BUTANONE	4.553	43	2875	0.42	ug/L #	64
19) CIS-1,2-DICHLOROETHENE	4.624	96	11065	1.01	ug/L	98
20) BROMOCHLOROMETHANE	4.782	128	5909	1.09	ug/L	96
21) CHLOROFORM	4.872	83	23701	1.11	ug/L	99
22) 2,2-DICHLOROPROPANE	4.920	77	13513m	0.99	ug/L	
24) 1,2-DICHLOROETHANE	5.591	62	18797	0.95	ug/L #	93
25) 1,1,1-TRICHLOROETHANE	5.670	97	19135	1.13	ug/L #	69
26) 1,1-DICHLOROPROPENE	5.921	75	13487	0.95	ug/L	98
27) CYCLOHEXANE	5.966	56	14935	0.77	ug/L #	56
28) CARBON TETRACHLORIDE	6.079	117	15951	1.04	ug/L	91
29) BENZENE	6.150	78	44330	0.99	ug/L	99
30) DIBROMOMETHANE	6.783	93	8156	1.16	ug/L #	74
31) 1,2-DICHLOROPROPANE	6.851	63	11235	0.94	ug/L #	87
32) TRICHLOROETHENE	6.922	130	13970	1.02	ug/L #	76
33) BROMODICHLOROMETHANE	6.975	83	16276	1.10	ug/L #	94
34) METHYLCYCLOHEXANE	7.481	83	17407	1.04	ug/L	89
35) 2-CHLOROETHYLVINYL ETHER	7.612	63	5242m	0.86	ug/L	
36) CIS-1,3-DICHLOROPROPENE	7.788	75	14018	0.90	ug/L	97
38) 4-METHYL-2-PENTANONE	8.013	43	6117	0.48	ug/L #	94
39) TRANS-1,3-DICHLOROPROPENE	8.332	75	12838	0.98	ug/L #	84
40) 1,1,2-TRICHLOROETHANE	8.474	97	9977	0.97	ug/L	91
42) TOLUENE	8.699	92	27361	1.02	ug/L	99
43) 1,3-DICHLOROPROPANE	8.774	76	18555	0.90	ug/L	97
44) CHLORODIBROMOMETHANE	9.006	129	10443	1.06	ug/L #	91

Freedom_0005792_0453

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204C01.D
Acq On : 4 Feb 2014 12:57
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 04 13:26:11 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:22:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 2-HEXANONE	9.089	43	2558	0.28	ug/L	#	84
46) 1,2-DIBROMOETHANE (EDB)	9.306	107	10364m	1.04	ug/L		
47) TETRACHLOROETHENE	9.550	164	10466	1.07	ug/L		93
48) 1,1,1,2-TETRACHLOROETHANE	10.296	131	8913	0.89	ug/L		93
49) CHLOROBENZENE	10.375	112	30212	1.08	ug/L	#	88
50) ETHYLBENZENE	10.656	91	45892	0.93	ug/L		97
51) BROMOFORM	10.877	173	5529	0.80	ug/L	#	65
52) M-XYLENE/P-XYLENE	10.892	106	32138	1.72	ug/L		91
53) STYRENE	11.211	104	51048	1.63	ug/L		96
54) O-XYLENE	11.278	106	39788	1.99	ug/L		96
55) ISOPROPYLBENZENE	11.649	105	49793	1.00	ug/L		97
57) 1,1,2,2-TETRACHLOROETHANE	11.263	83	9027	1.00	ug/L	#	90
58) 1,2,3-TRICHLOROPROPANE	11.398	75	11775	0.94	ug/L		94
60) BROMOBENZENE	11.795	156	12461	0.90	ug/L	#	71
61) N-PROPYLBENZENE	12.065	91	60661	0.98	ug/L		96
62) 2-CHLOROTOLUENE	12.107	91	41532	1.05	ug/L		88
63) 4-CHLOROTOLUENE	12.181	91	41190	1.00	ug/L		88
64) 1,3,5-TRIMETHYLBENZENE	12.361	105	37393	0.81	ug/L		94
65) TERT-BUTYLBENZENE	12.568	119	30547	0.87	ug/L		86
66) 1,2,4-TRIMETHYLBENZENE	12.684	105	36165	0.76	ug/L		87
67) SEC-BUTYLBENZENE	12.759	105	56438	0.93	ug/L		95
68) 1,3-DICHLOROBENZENE	12.766	146	29561	1.06	ug/L		95
69) 1,4-DICHLOROBENZENE	12.830	146	29773	0.95	ug/L	#	93
70) P-ISOPROPYLTOLUENE	12.939	119	39850	0.83	ug/L		97
71) 1,2-DICHLOROBENZENE	13.111	146	25705	0.96	ug/L		94
72) N-BUTYLBENZENE	13.269	91	39602	0.76	ug/L		97
73) 1,2-DIBROMO-3-CHLOROPR...	13.486	75	1574	0.72	ug/L	#	79
74) 1,2,4-TRICHLOROBENZENE	14.554	180	16894	0.81	ug/L	#	94
75) NAPHTHALENE	14.727	128	28324	0.70	ug/L	#	97
76) HEXACHLOROBUTADIENE	14.809	225	10195	0.81	ug/L	#	82
77) 1,2,3-TRICHLOROBENZENE	14.877	180	16649	0.80	ug/L	#	93

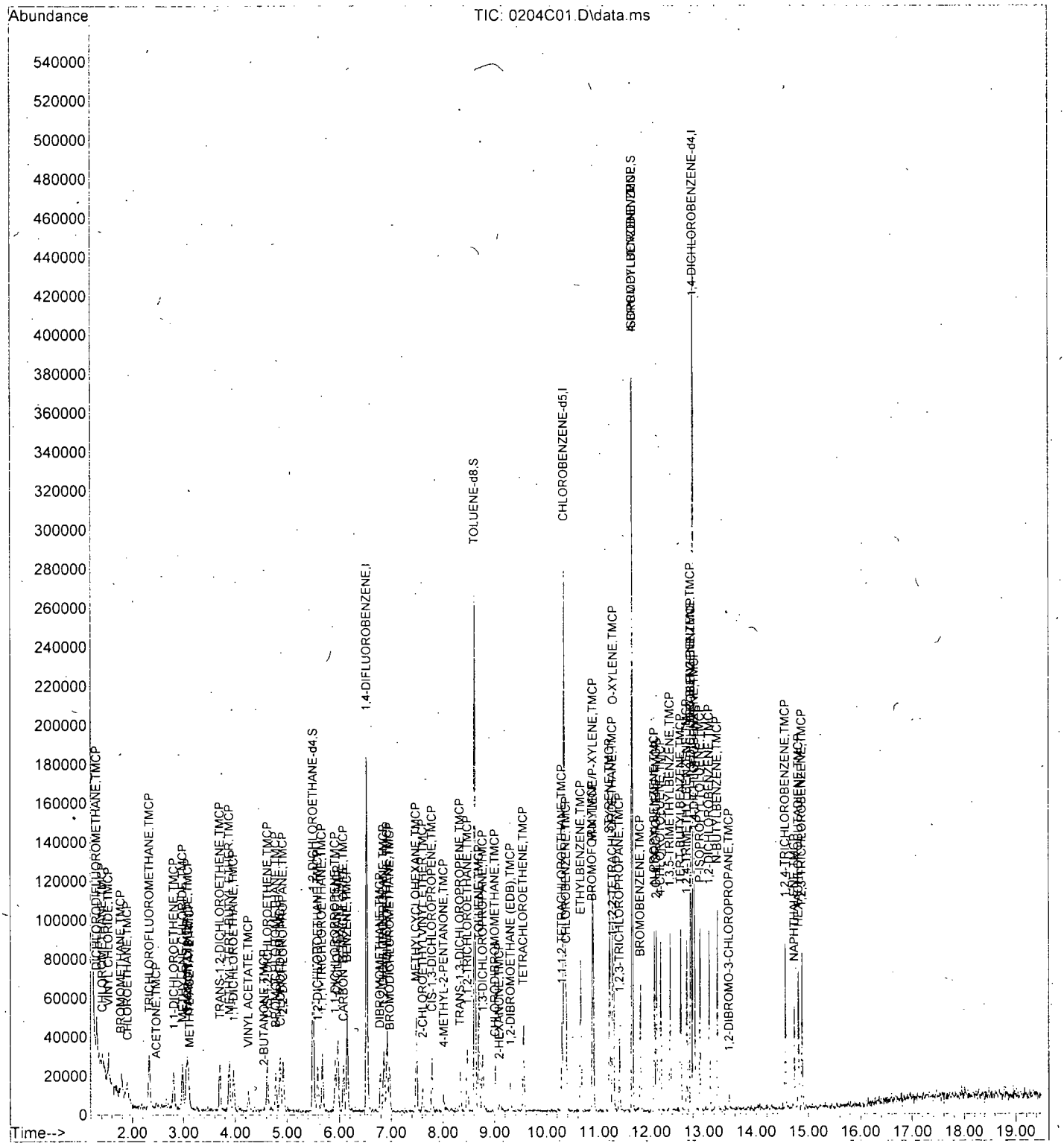
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0454

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204C01.D
Acq On : 4 Feb 2014 12:57
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 04 13:26:11 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:22:41 2014
Response via : Initial Calibration

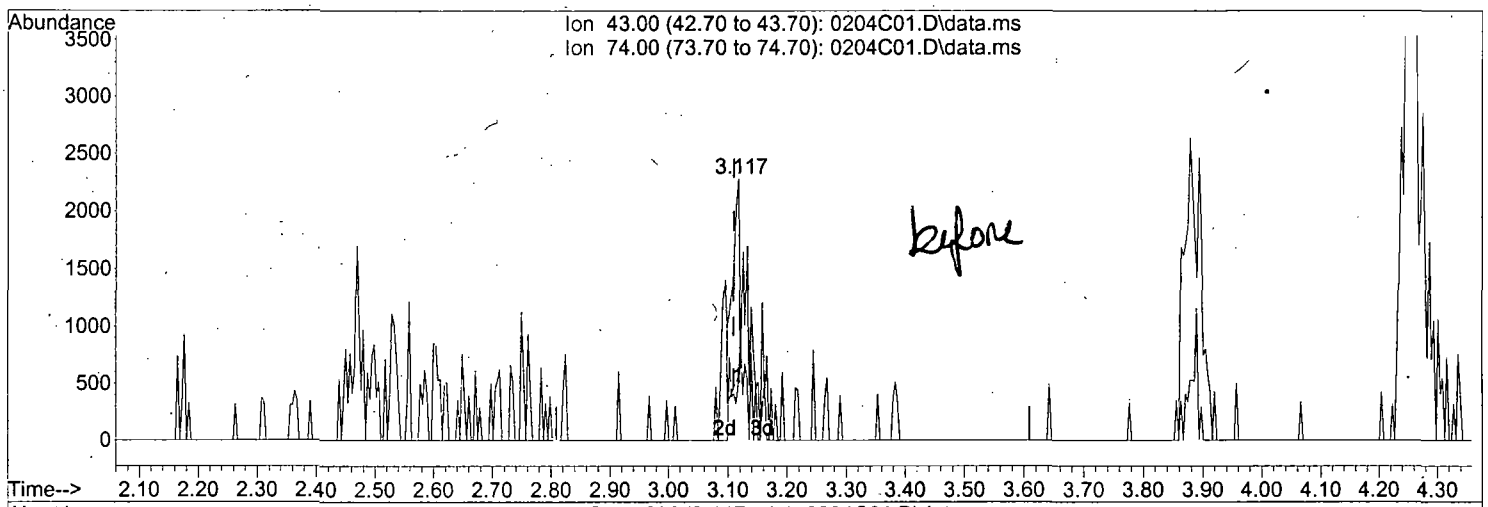


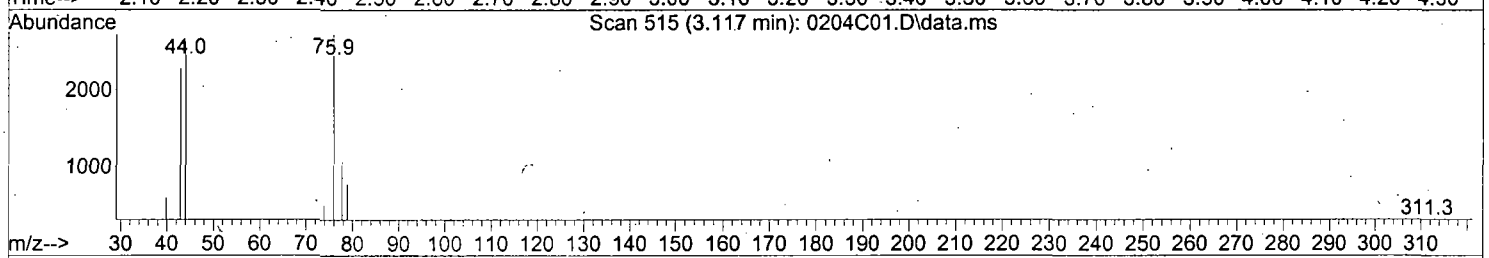
Freedom_0005792_0455

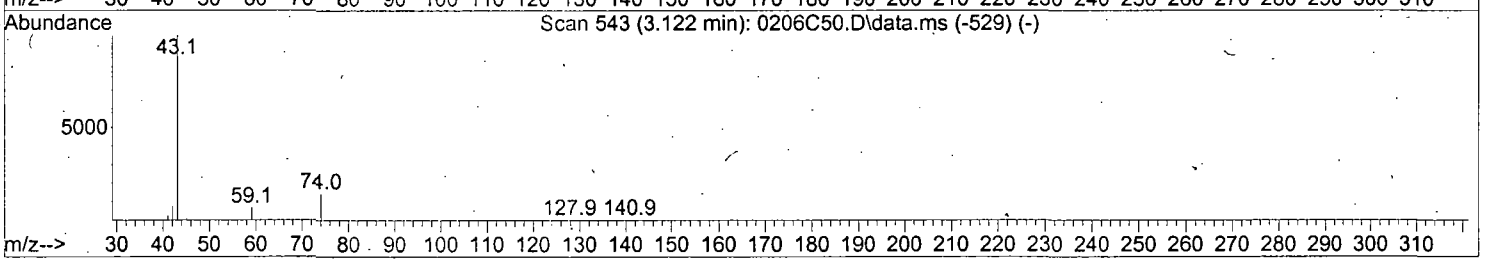
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C01.D
Acq On : 4 Feb 2014 12:57
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 04 13:23:00 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:22:41 2014
Response via : Initial Calibration







TIC: 0204C01.D\data.ms

(13) METHYL ACETATE (TMCP)

3.117min (+0.007) 0.15 ug/L

response 1378

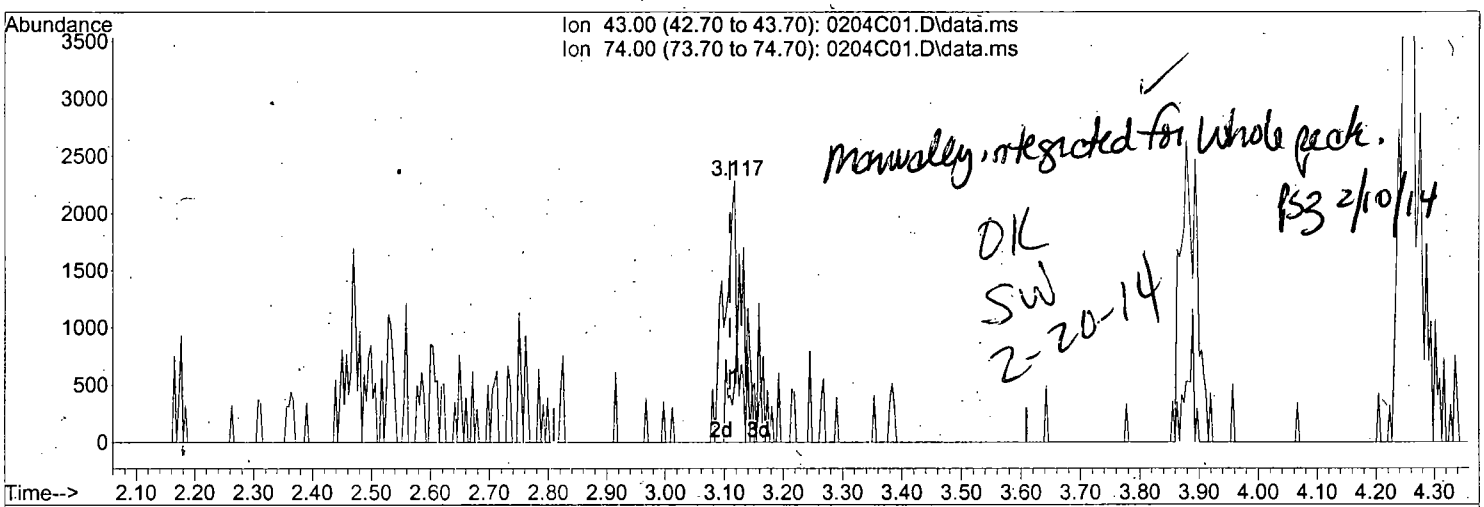
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	49.85#
0.00	0.00	0.00
0.00	0.00	0.00

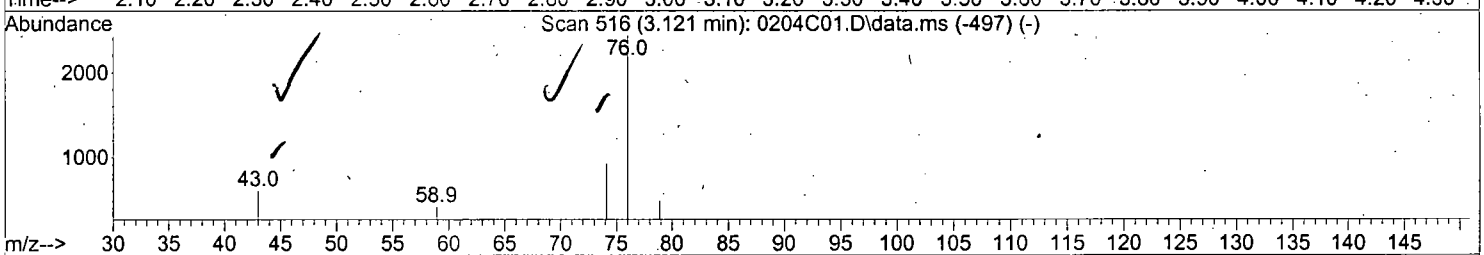
Freedom_0005792_0456

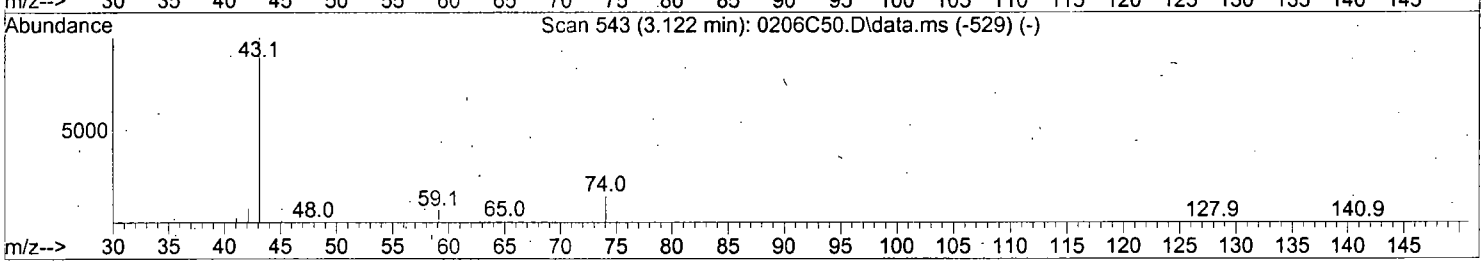
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C01.D
Acq On : 4 Feb 2014 12:57
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 04 13:23:00 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:22:41 2014
Response via : Initial Calibration







TIC: 0204C01.D\data.ms

(13) METHYL ACETATE (TMCP)

3.117min (+0.007) 0.62 ug/L m

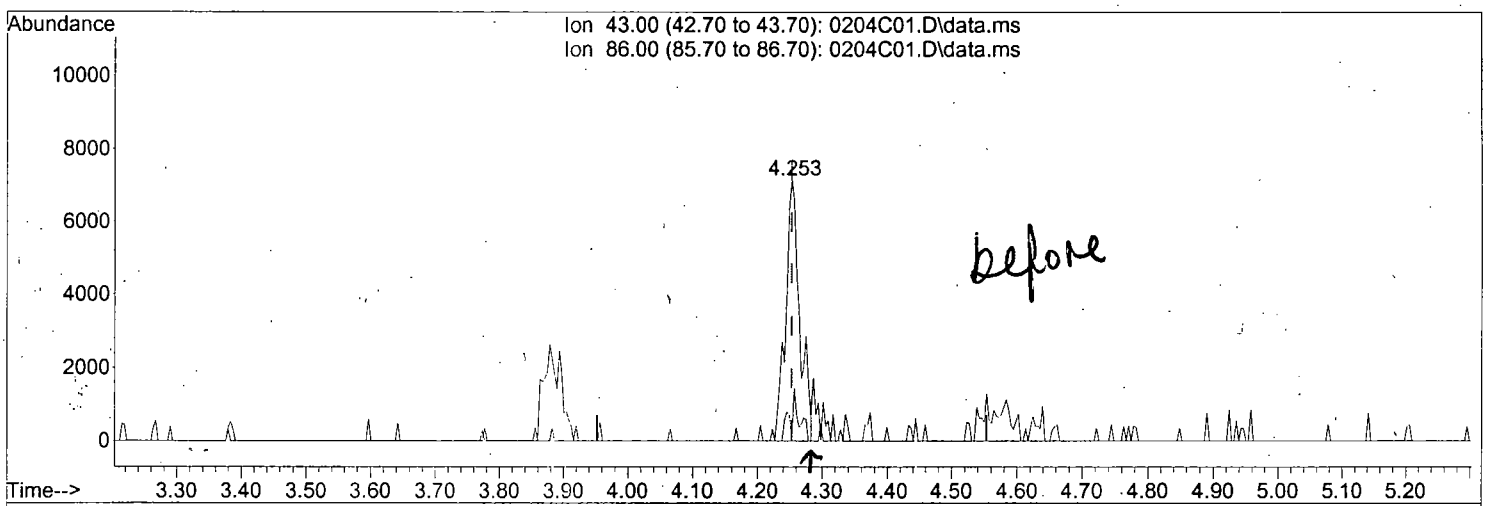
response 5609

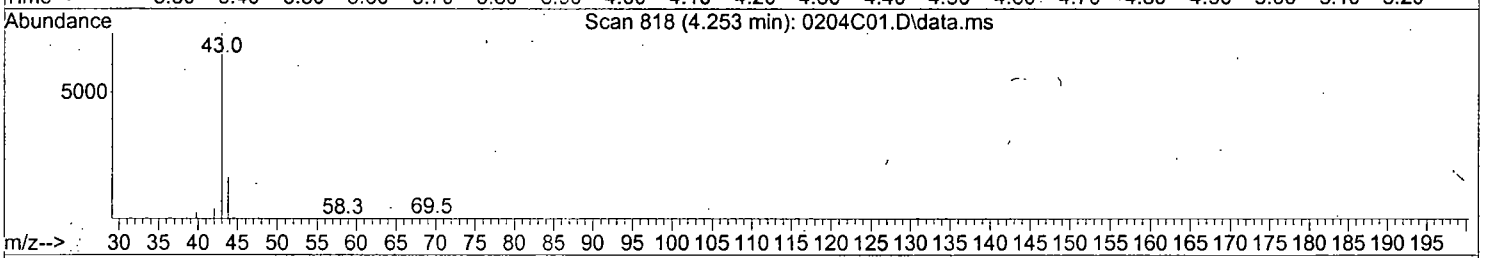
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	12.25#
0.00	0.00	0.00
0.00	0.00	0.00

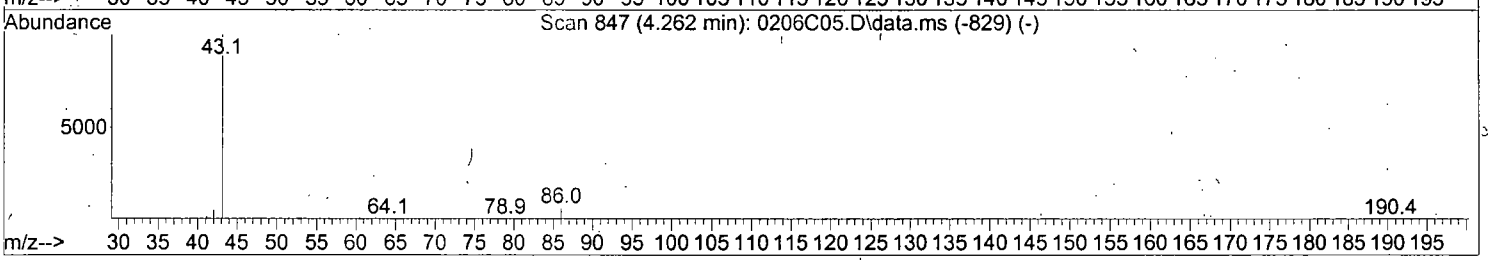
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C01.D
Acq On : 4 Feb 2014 12:57
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 04 13:23:00 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:22:41 2014
Response via : Initial Calibration







TIC: 0204C01.D\data.ms

(17) VINYL ACETATE (TMCP)

4.253min (-0.000) 0.55 ug/L

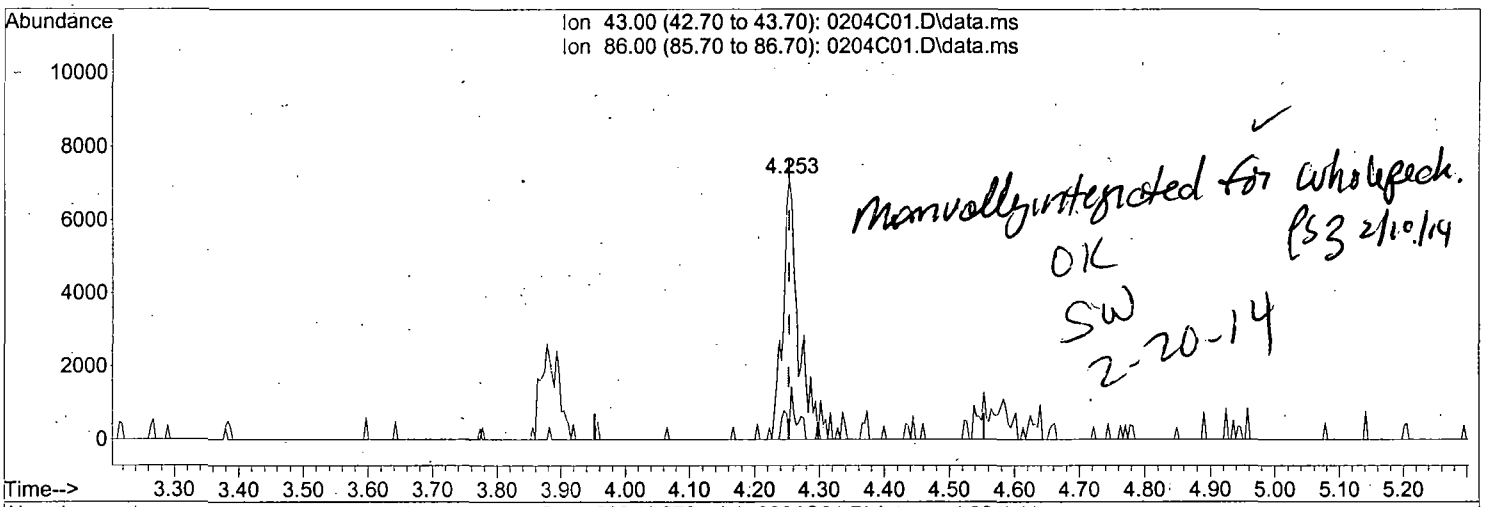
response 10947

Ion	Exp%	Act%
43.00	100	100
86.00	8.90	5.23#
0.00	0.00	0.00
0.00	0.00	0.00

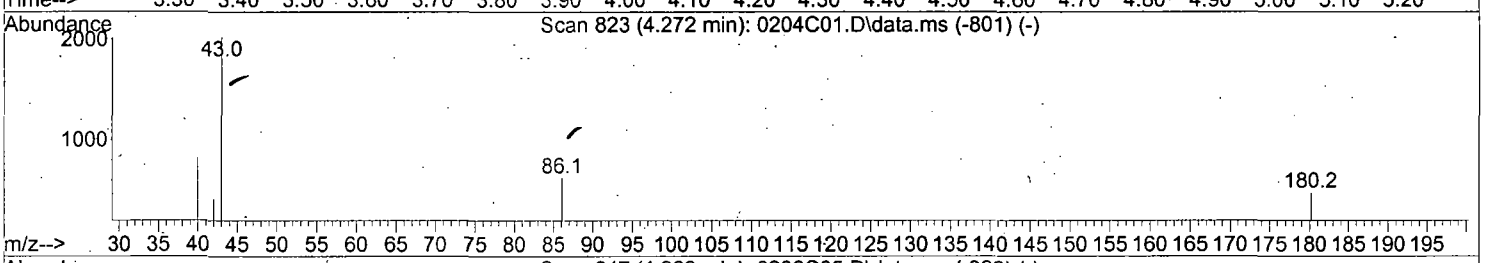
Quantitation Report (Qedit)

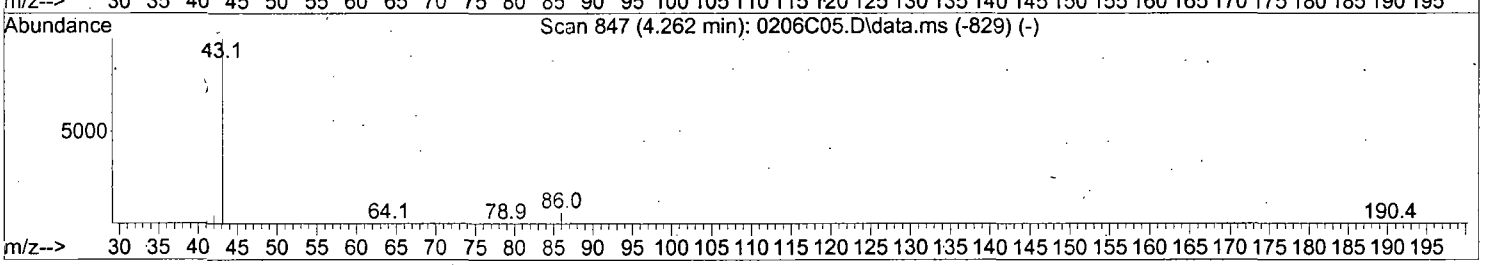
Data Path : D:\DATA\L02042014\
Data File : 0204C01.D
Acq On : 4 Feb 2014 12:57
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 04 13:23:00 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:22:41 2014
Response via : Initial Calibration



Manually integrated for whole peak. PSZ 2/10/14
OK
SW
2-20-14





TIC: 0204C01.D\data.ms

(17) VINYL ACETATE (TMCP)

4.253min (-0.000) 0.62 ug/L m

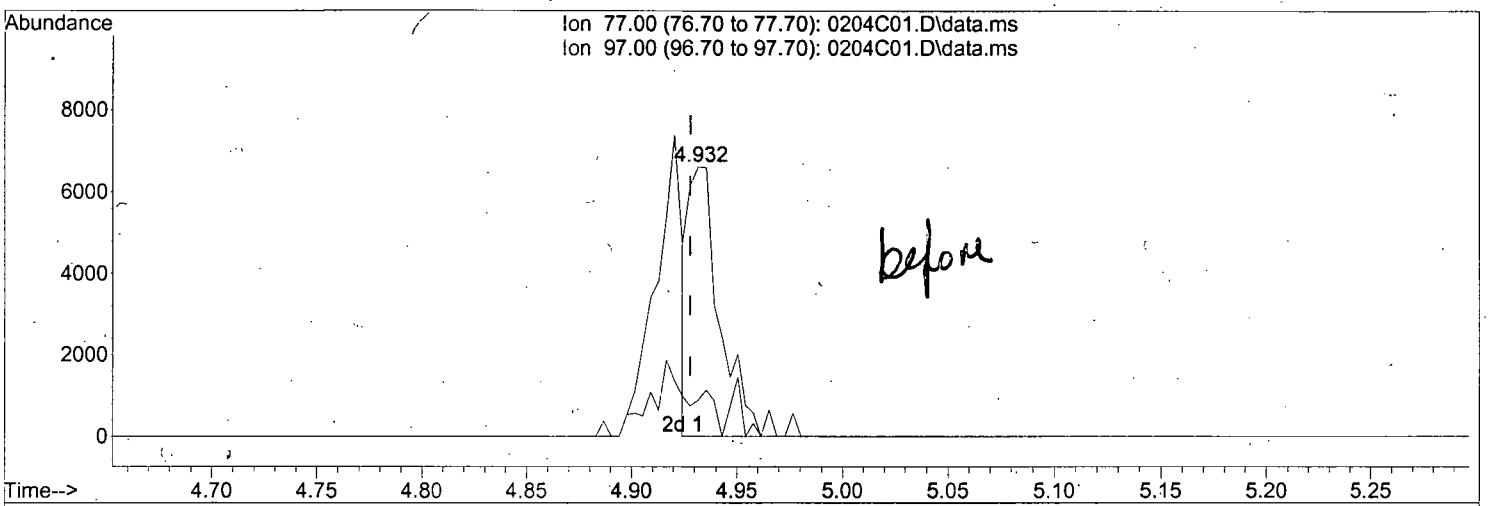
response 12354

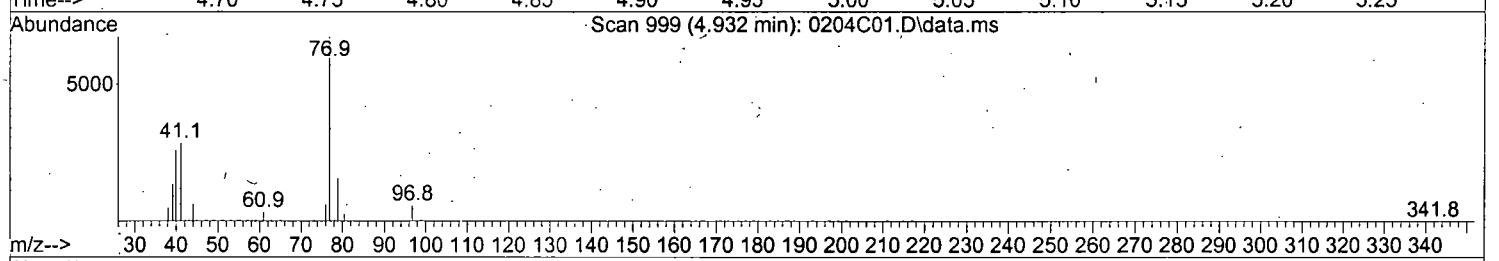
Ion	Exp%	Act%
43.00	100	100
86.00	8.90	4.64#
0.00	0.00	0.00
0.00	0.00	0.00

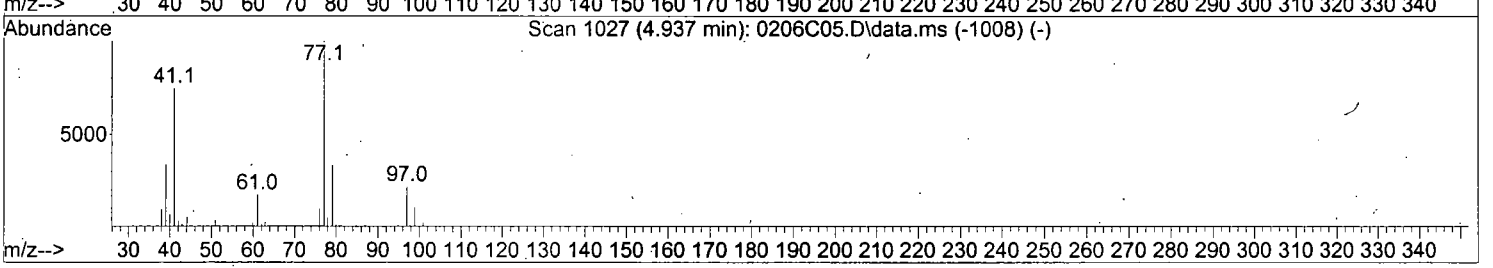
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C01.D
Acq On : 4 Feb 2014 12:57
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 04 13:23:00 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:22:41 2014
Response via : Initial Calibration







TIC: 0204C01.D\data.ms

(22) 2,2-DICHLOROPROPANE (TMCP)

4.932min (+0.004) 0.50 ug/L

response 6851

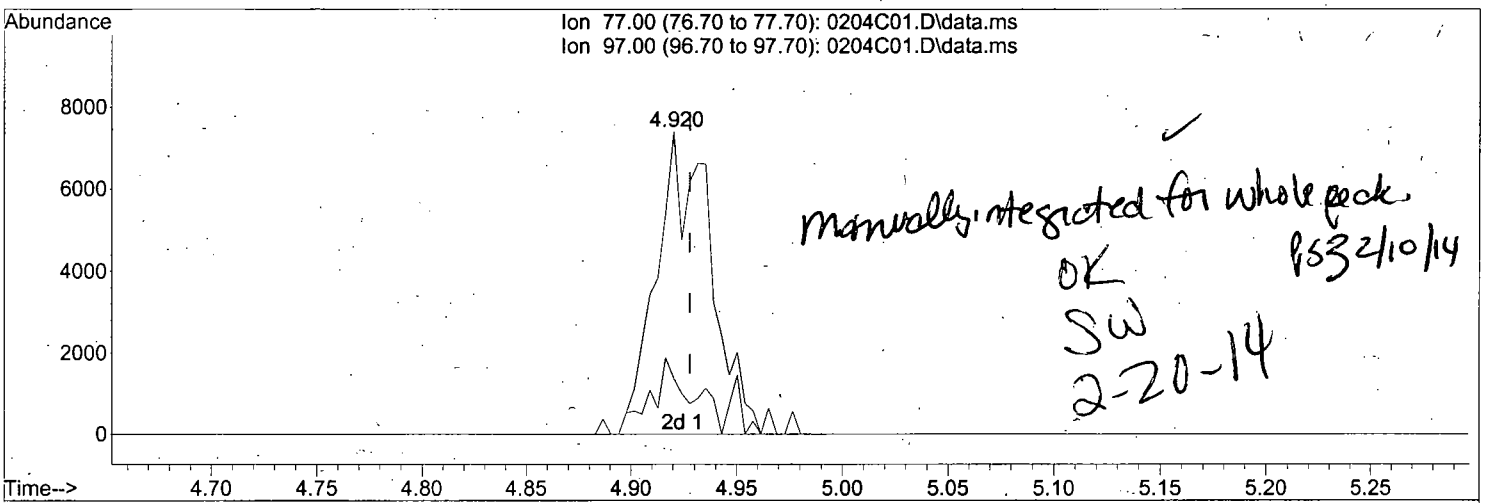
Ion	Exp%	Act%
77.00	100	100
97.00	18.70	9.49#
0.00	0.00	0.00
0.00	0.00	0.00

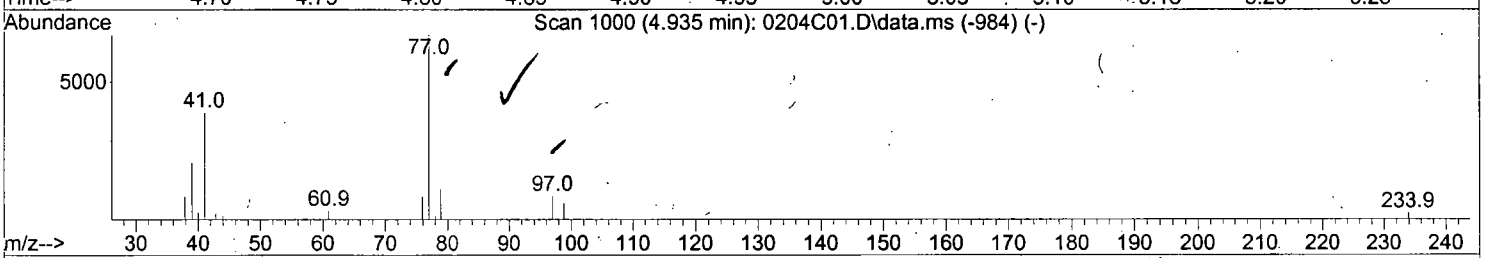
Freedom_0005792_0460

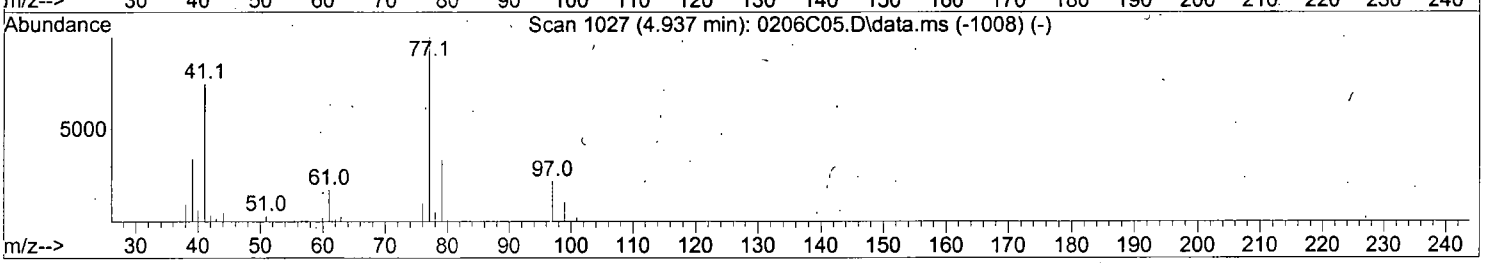
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C01.D
Acq On : 4 Feb 2014 12:57
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 04 13:23:00 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:22:41 2014
Response via : Initial Calibration







TIC: 0204C01.D\data.ms

(22) 2,2-DICHLOROPROPANE (TMCP)

4.920min (-0.008) 0.99 ug/L m

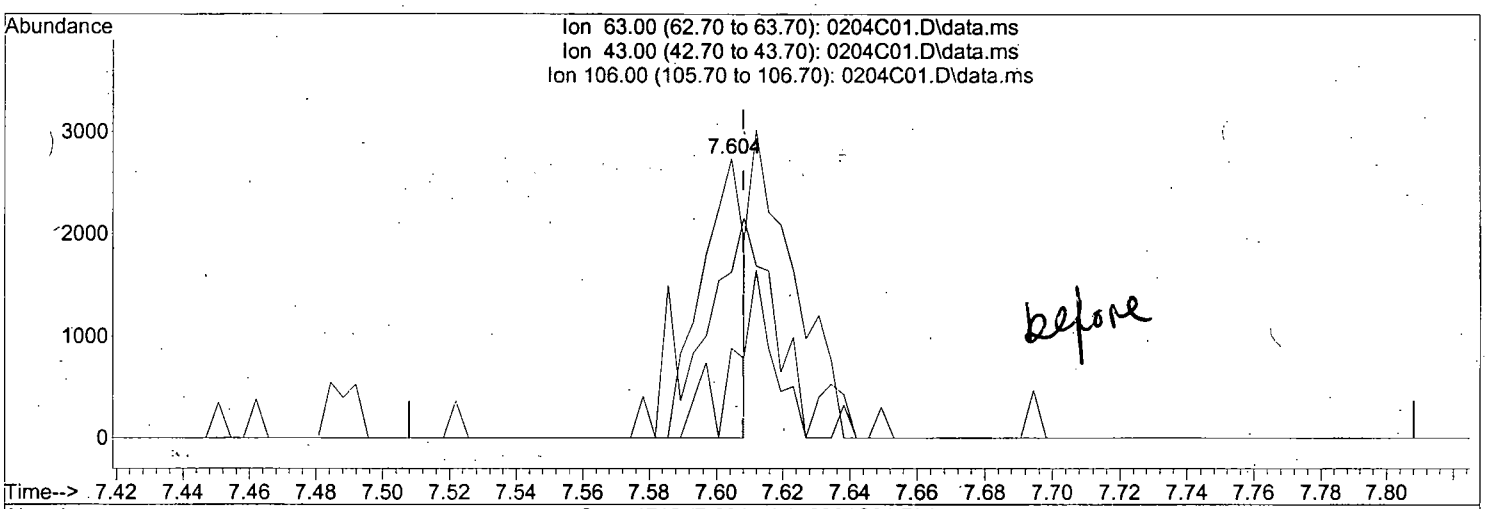
response 13513

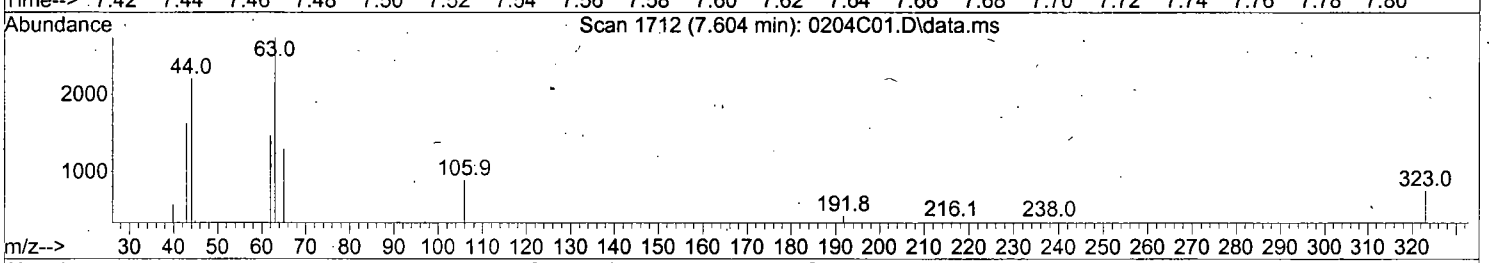
Ion	Exp%	Act%
77.00	100	100
97.00	18.70	4.81#
0.00	0.00	0.00
0.00	0.00	0.00

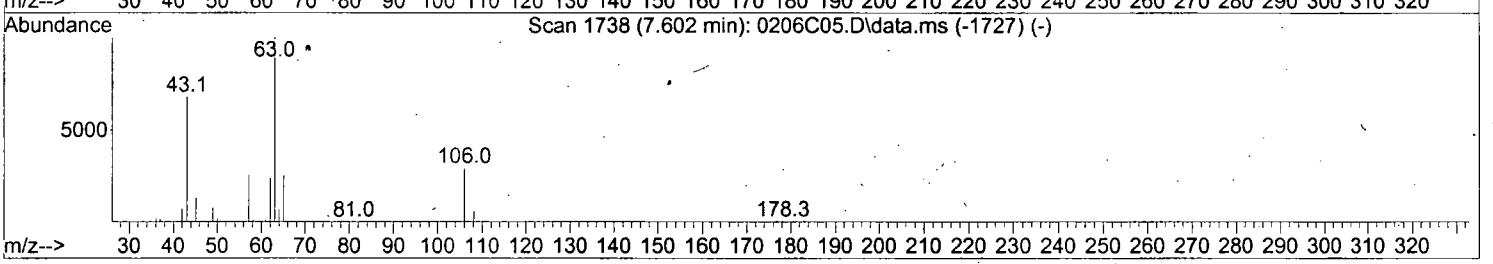
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C01.D
Acq On : 4 Feb 2014 12:57
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 04 13:23:00 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:22:41 2014
Response via : Initial Calibration







TIC: 0204C01.D\data.ms

(35) 2-CHLOROETHYLVINYL ETHER (TMCP)

7.604min (-0.004) 0.40 ug/L

response 2405

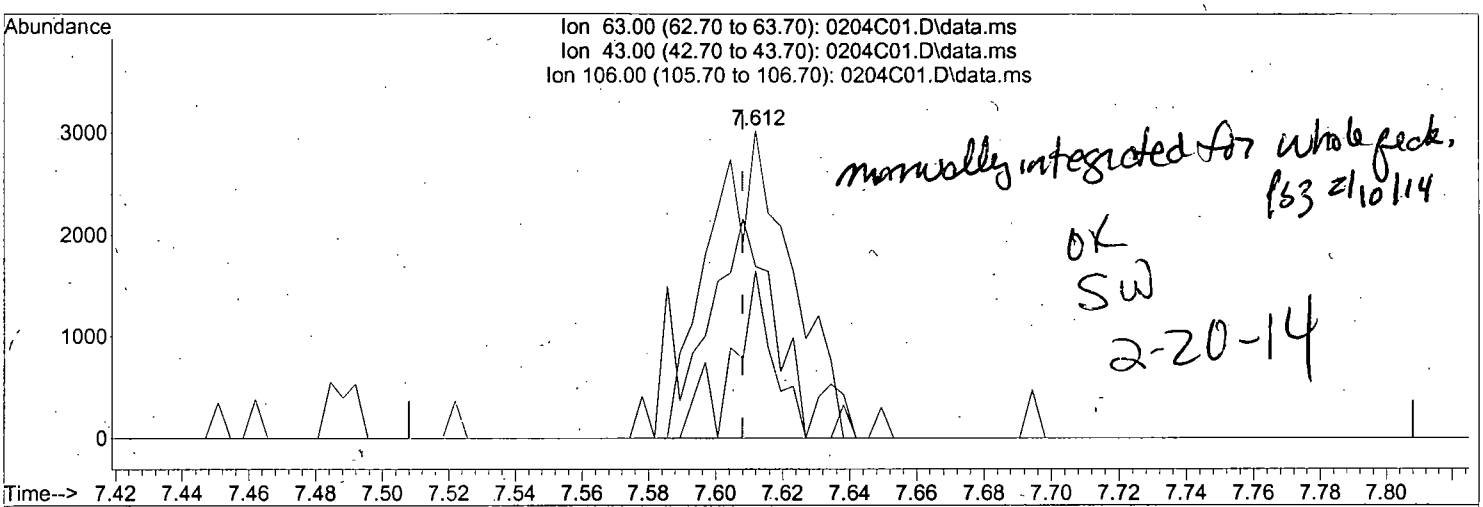
Ion	Exp%	Act%
63.00	100	100
43.00	73.00	113.39#
106.00	30.00	48.27#
0.00	0.00	0.00

Freedom_0005792_0462

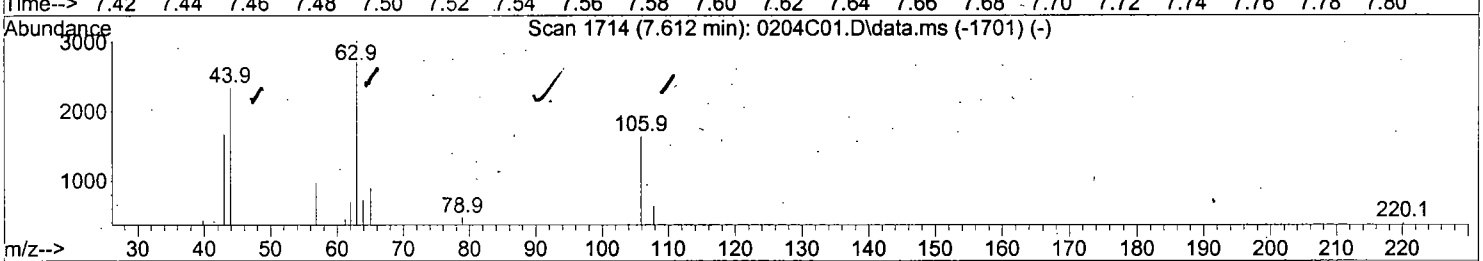
Quantitation Report (Qedit)

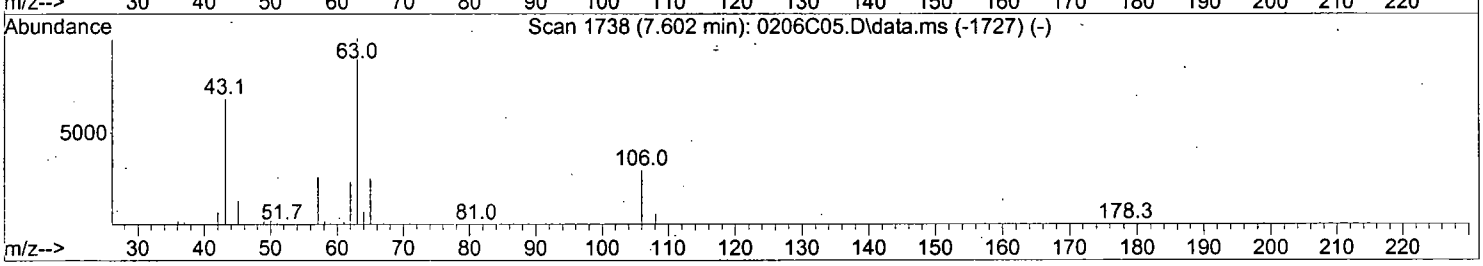
Data Path : D:\DATA\L02042014\
Data File : 0204C01.D
Acq On : 4 Feb 2014 12:57
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 04 13:23:00 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:22:41 2014
Response via : Initial Calibration



manually integrated for whole peak, fs3 2/10/14
OK
SW
2-20-14





TIC: 0204C01.D\data.ms

(35) 2-CHLOROETHYLVINYL ETHER (TMCP)

7.612min (+0.004) 0.86 ug/L m

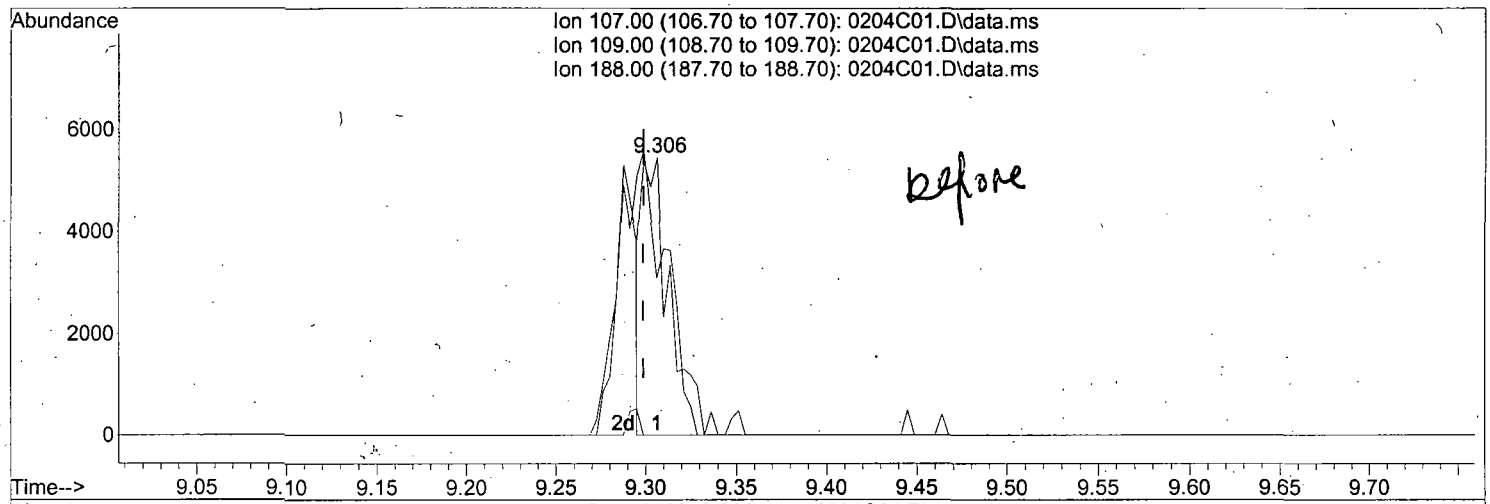
response 5242

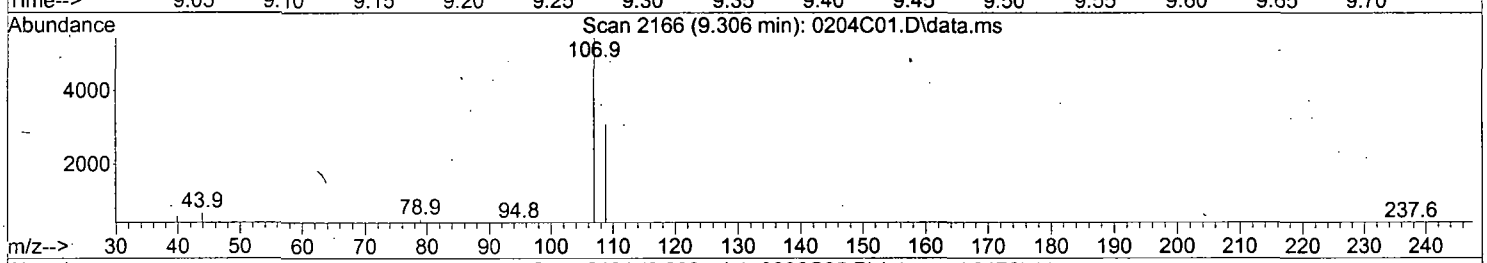
Ion	Exp%	Act%
63.00	100	100
43.00	73.00	52.02#
106.00	30.00	22.15#
0.00	0.00	0.00

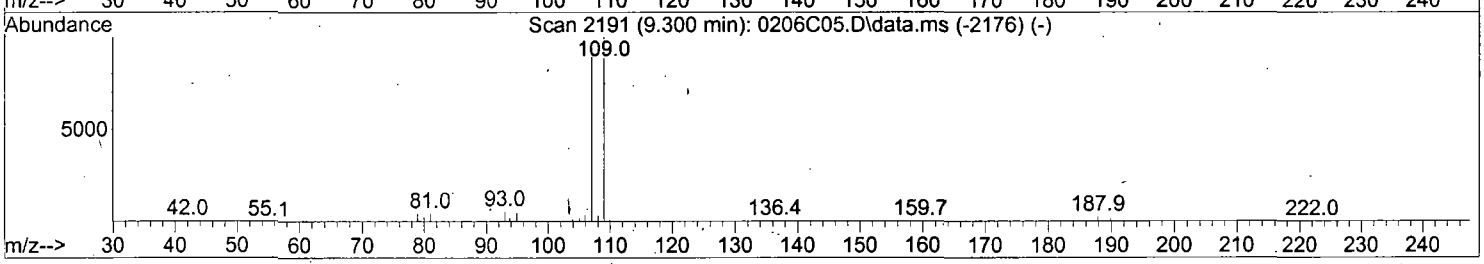
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C01.D
Acq On : 4 Feb 2014 12:57
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 04 13:23:00 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:22:41 2014
Response via : Initial Calibration







TIC: 0204C01.D\data.ms

(46) 1,2-DIBROMOETHANE (EDB) (TMCP)

9.306min (+0.007) 0.60 ug/L

response 5963

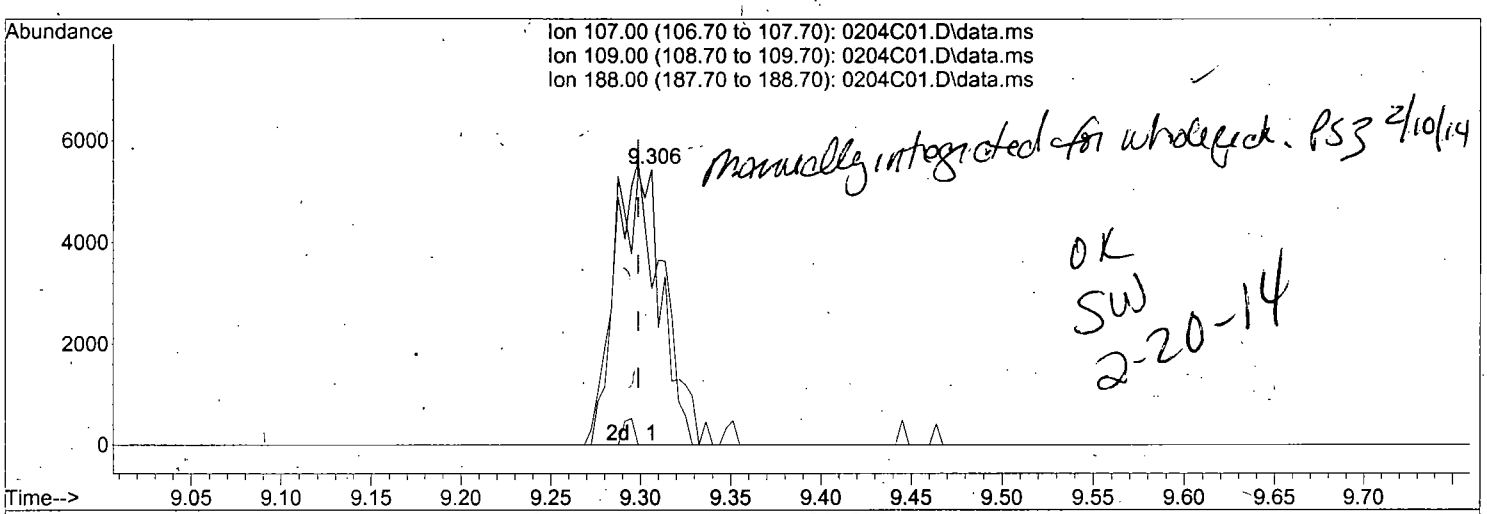
Ion	Exp%	Act%
107.00	100	100
109.00	93.20	162.32#
188.00	4.30	0.00#
0.00	0.00	0.00

Freedom_0005792_0464

Quantitation Report (Qedit)

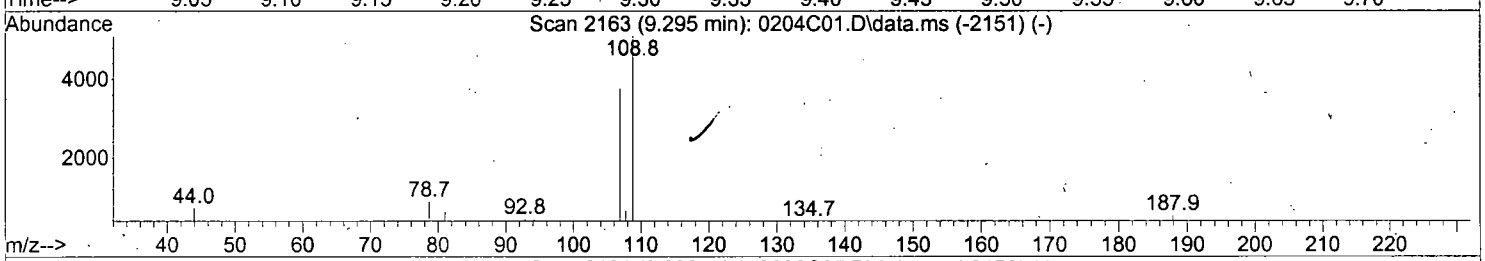
Data Path : D:\DATA\L02042014\
Data File : 0204C01.D
Acq On : 4 Feb 2014 12:57
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

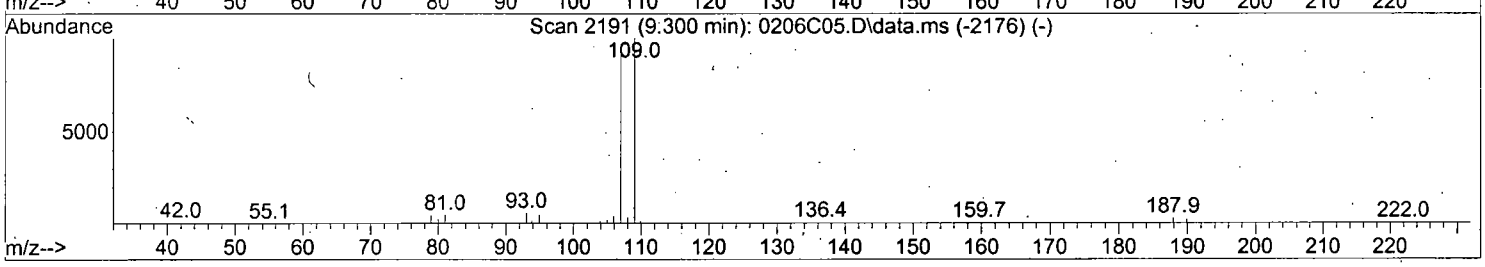
Quant Time: Feb 04 13:23:00 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:22:41 2014
Response via : Initial Calibration



manually integrated for wholegick. PSJ 2/10/14

OK
SW
2-20-14





TIC: 0204C01.D\data.ms

(46) 1,2-DIBROMOETHANE (EDB) (TMCP)

9.306min (+0.007) 1.04 ug/L m

response 10364

Ion	Exp%	Act%
107.00	100	100
109.00	93.20	93.39
188.00	4.30	0.00#
0.00	0.00	0.00

Freedom_0005792_0465

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204C05.D
Acq On : 4 Feb 2014 13:26
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 13:51:07 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:27:33 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.528	114	150536	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	136128	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.811	152	86844	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.501	65	76046	5.02	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	=	100.40%	
41) TOLUENE-d8	8.616	98	188487	5.36	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	=	107.20%	
59) 4-BROMOFLUOROBENZENE	11.645	95	88674	5.34	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	=	106.80%	
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.303	85	65187	4.43	ug/L	94
3) CHLOROMETHANE	1.419	50	32596m	2.46	ug/L	
4) VINYL CHLORIDE	1.532	62	40319	3.50	ug/L	98
5) BROMOMETHANE	1.779	94	27789	4.64	ug/L	99
6) CHLOROETHANE	1.895	64	25576	3.77	ug/L	97
7) TRICHLOROFLUOROMETHANE	2.330	101	101828	4.18	ug/L	98
8) ACETONE	2.480	43	18850m	2.61	ug/L	
9) 1,1-DICHLOROETHENE	2.799	96	37189	4.64	ug/L	94
10) METHYLENE CHLORIDE	2.982	84	58319	5.11	ug/L	95
11) Freon 113	3.061	101	64245	5.20	ug/L #	81
12) CARBON DISULFIDE	3.091	76	134221	4.11	ug/L	99
13) METHYL ACETATE	3.117	43	34697m	3.87	ug/L	
14) TRANS-1,2-DICHLOROETHENE	3.695	96	51153	4.55	ug/L	97
15) METHYL-TERT-BUTYL ETHER	3.882	73	129325	4.78	ug/L	95
16) 1,1-DICHLOROETHANE	3.972	63	103397	4.52	ug/L #	59
17) VINYL ACETATE	4.246	43	85294	2.71	ug/L #	87
18) 2-BUTANONE	4.549	43	22191m	2.92	ug/L	
19) CIS-1,2-DICHLOROETHENE	4.617	96	56613	4.76	ug/L	99
20) BROMOCHLOROMETHANE	4.782	128	27308m	4.59	ug/L	
21) CHLOROFORM	4.864	83	117258	4.99	ug/L	99
22) 2,2-DICHLOROPROPANE	4.924	77	71723	4.75	ug/L	98
24) 1,2-DICHLOROETHANE	5.591	62	96338	4.67	ug/L	98
25) 1,1,1-TRICHLOROETHANE	5.678	97	93632	4.91	ug/L	97
26) 1,1-DICHLOROPROPENE	5.921	75	74882	4.81	ug/L	93
27) CYCLOHEXANE	5.966	56	85776	4.13	ug/L	93
28) CARBON TETRACHLORIDE	6.079	117	83063	5.01	ug/L	97
29) BENZENE	6.150	78	247755	5.09	ug/L	97
30) DIBROMOMETHANE	6.783	93	38492	4.93	ug/L #	80
31) 1,2-DICHLOROPROPANE	6.855	63	56091	4.43	ug/L	97
32) TRICHLOROETHENE	6.922	130	65625	4.44	ug/L #	83
33) BROMODICHLOROMETHANE	6.967	83	84803	5.14	ug/L #	98
34) METHYLCYCLOHEXANE	7.492	83	92732	4.98	ug/L	98
35) 2-CHLOROETHYLVINYL ETHER	7.604	63	25981	3.90	ug/L #	66
36) CIS-1,3-DICHLOROPROPENE	7.788	75	78208	4.63	ug/L	98
38) 4-METHYL-2-PENTANONE	8.002	43	32254	2.47	ug/L #	98
39) TRANS-1,3-DICHLOROPROPENE	8.335	75	68104	4.97	ug/L	95
40) 1,1,2-TRICHLOROETHANE	8.474	97	56817	5.48	ug/L	98
42) TOLUENE	8.699	92	142695	5.22	ug/L	98
43) 1,3-DICHLOROPROPANE	8.766	76	101853	5.03	ug/L	96
44) CHLORODIBROMOMETHANE	9.018	129	52703	5.15	ug/L	100

Freedom_0005792_0466

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204C05.D
Acq On : 4 Feb 2014 13:26
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 13:51:07 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:27:33 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	2-HEXANONE	9.081	43	20128	2.11	ug/L	#	89
46)	1,2-DIBROMOETHANE (EDB)	9.299	107	53109	5.15	ug/L		98
47)	TETRACHLOROETHENE	9.557	164	46355	4.67	ug/L		91
48)	1,1,1,2-TETRACHLOROETHANE	10.296	131	48567	4.85	ug/L		98
49)	CHLOROBENZENE	10.375	112	156929	5.48	ug/L		93
50)	ETHYLBENZENE	10.656	91	272887	5.31	ug/L		95
51)	BROMOFORM	10.869	173	33890	4.86	ug/L	#	98
52)	M-XYLENE/P-XYLENE	10.892	106	217455	11.27	ug/L		88
53)	STYRENE	11.207	104	320606	10.06	ug/L		96
54)	O-XYLENE	11.278	106	216180	10.45	ug/L		89
55)	ISOPROPYLBENZENE	11.649	105	290854	5.55	ug/L		97
57)	1,1,2,2-TETRACHLOROETHANE	11.259	83	45006	4.98	ug/L		99
58)	1,2,3-TRICHLOROPROPANE	11.402	75	63100	5.06	ug/L		98
60)	BROMOBENZENE	11.803	156	67894	4.87	ug/L	#	75
61)	N-PROPYLBENZENE	12.061	91	371673	5.64	ug/L		94
62)	2-CHLOROTOLUENE	12.103	91	239667	5.78	ug/L		90
63)	4-CHLOROTOLUENE	12.181	91	244203	5.69	ug/L		91
64)	1,3,5-TRIMETHYLBENZENE	12.361	105	249923	5.27	ug/L		94
65)	TERT-BUTYLBENZENE	12.568	119	203764	5.57	ug/L	#	83
66)	1,2,4-TRIMETHYLBENZENE	12.684	105	263779	5.42	ug/L		97
67)	SEC-BUTYLBENZENE	12.755	105	352903	5.59	ug/L		95
68)	1,3-DICHLOROBENZENE	12.766	146	152915	5.25	ug/L		96
69)	1,4-DICHLOROBENZENE	12.830	146	156450	4.91	ug/L		94
70)	P-ISOPROPYLTOLUENE	12.935	119	277857	5.58	ug/L		96
71)	1,2-DICHLOROBENZENE	13.111	146	150473	5.47	ug/L		94
72)	N-BUTYLBENZENE	13.269	91	291827	5.39	ug/L	#	95
73)	1,2-DIBROMO-3-CHLOROPR...	13.490	75	9464	4.20	ug/L	#	71
74)	1,2,4-TRICHLOROBENZENE	14.554	180	99704	4.71	ug/L	#	95
75)	NAPHTHALENE	14.734	128	194488	4.64	ug/L		100
76)	HEXACHLOROBUTADIENE	14.809	225	58560	4.51	ug/L	#	86
77)	1,2,3-TRICHLOROBENZENE	14.880	180	103067	4.81	ug/L	#	92

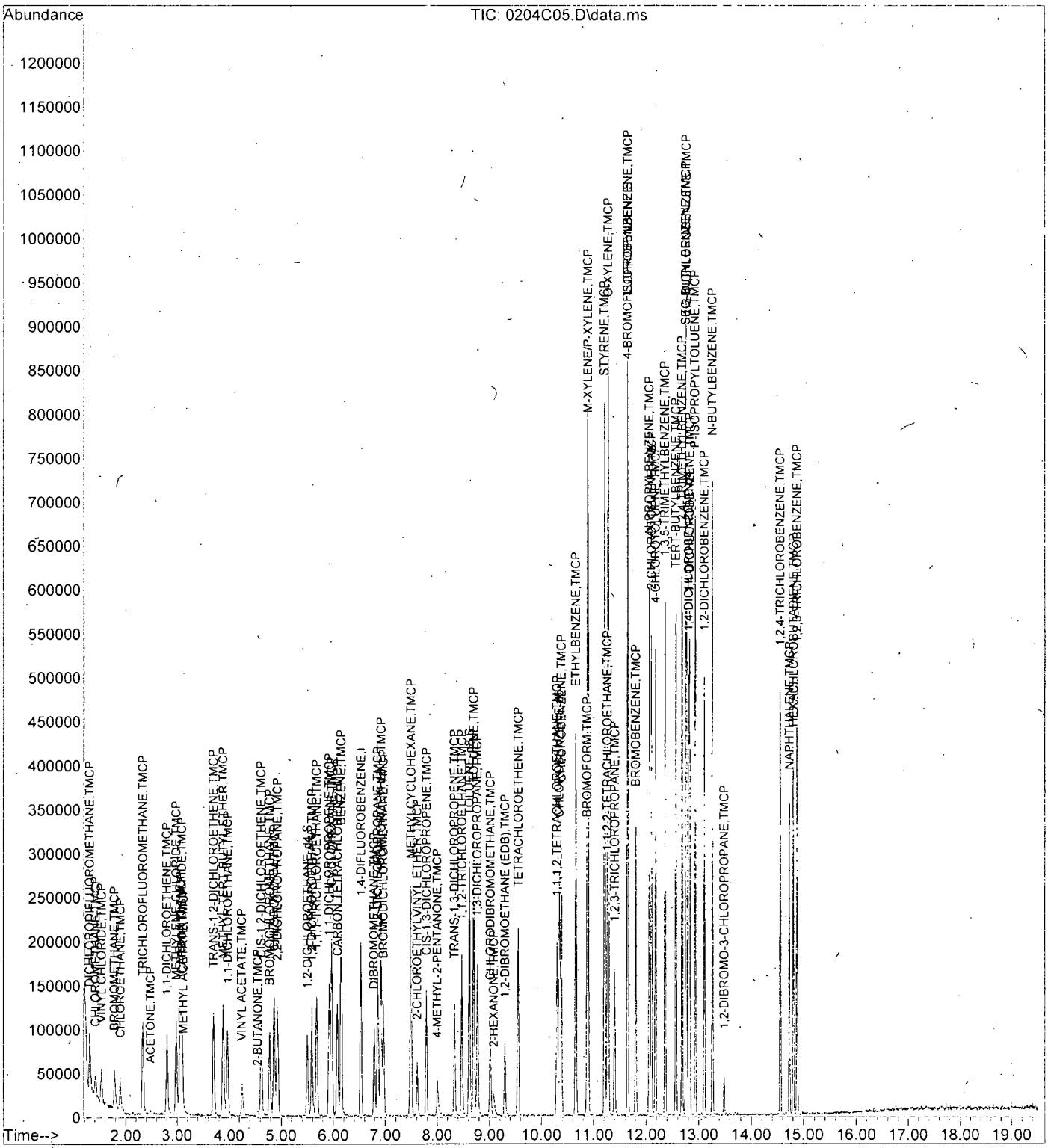
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0467

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204C05.D
Acq On : 4 Feb 2014 13:26
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 13:51:07 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:27:33 2014
Response via : Initial Calibration

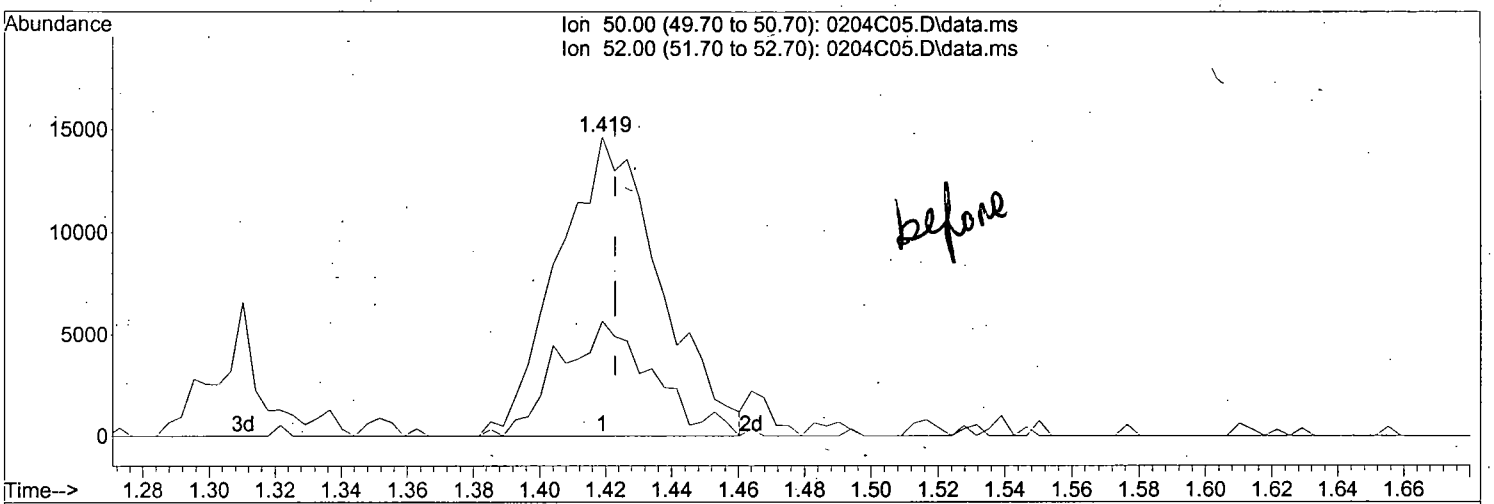


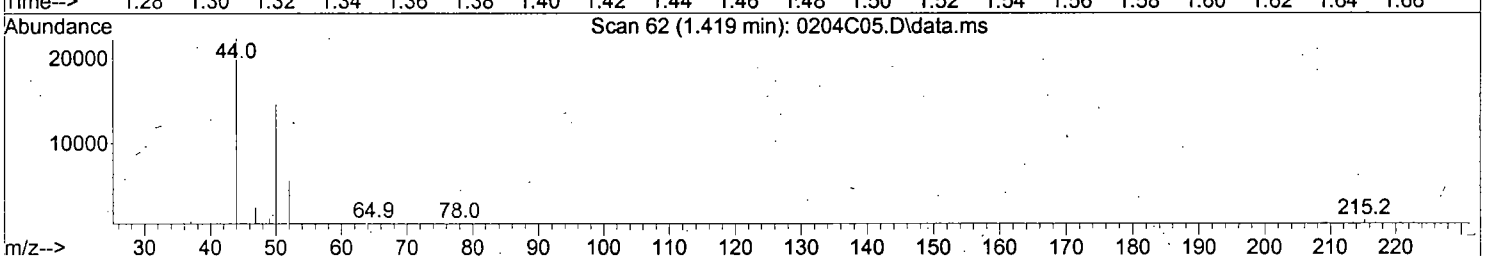
Freedom_0005792_0468

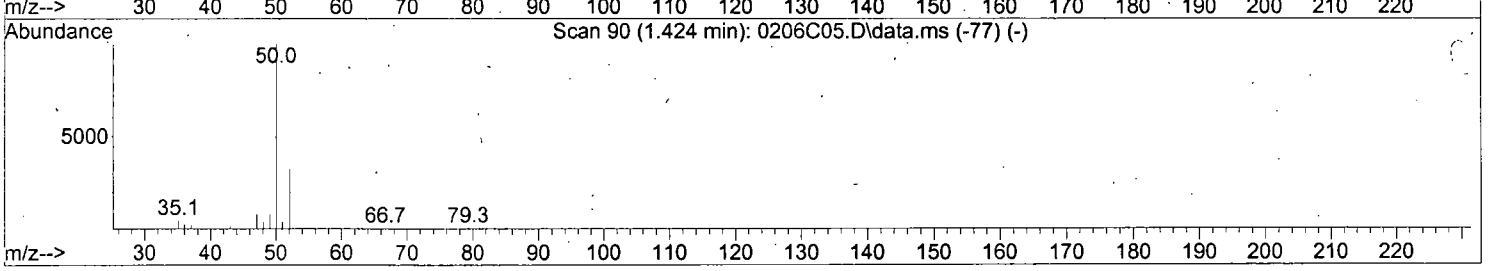
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C05.D
Acq On : 4 Feb 2014, 13:26
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 13:49:16 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:27:33 2014
Response via : Initial Calibration







TIC: 0204C05.D\data.ms

(3) CHLOROMETHANE (TMCP)

1.419min (-0.004) 2.37 ug/L

response 31446

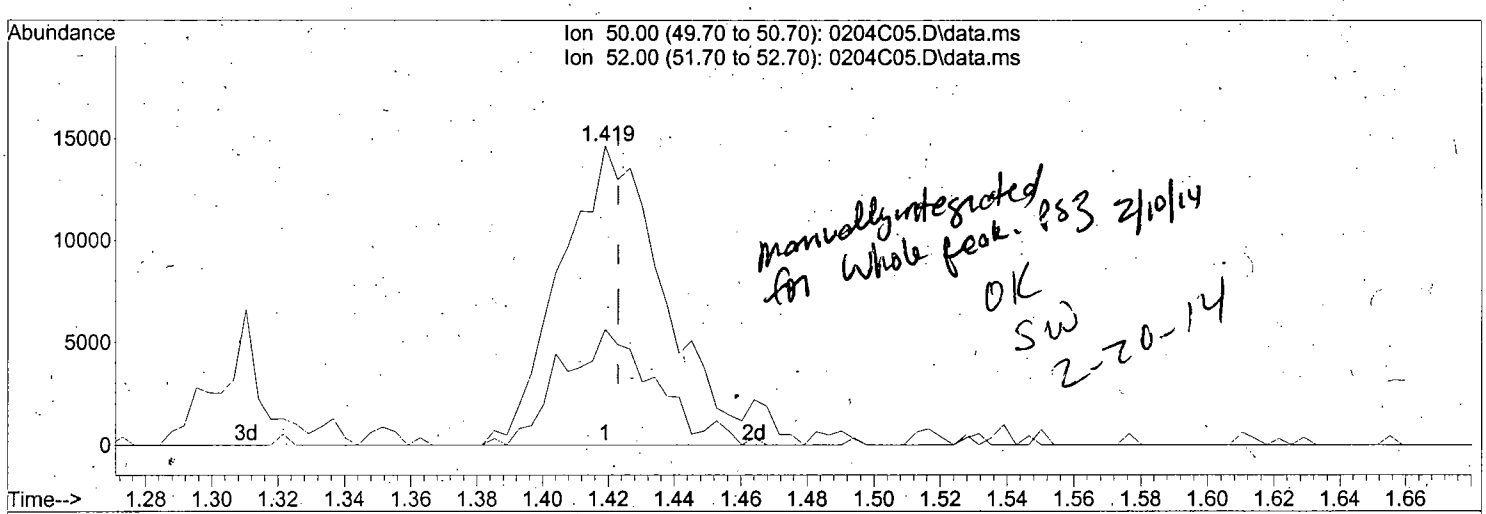
Ion	Exp%	Act%
50.00	100	100
52.00	31.20	33.91
0.00	0.00	0.00
0.00	0.00	0.00

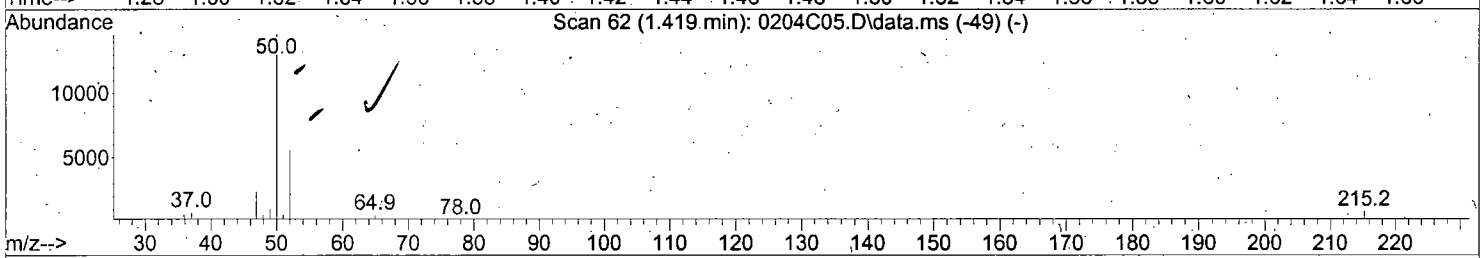
Freedom_0005792_0469

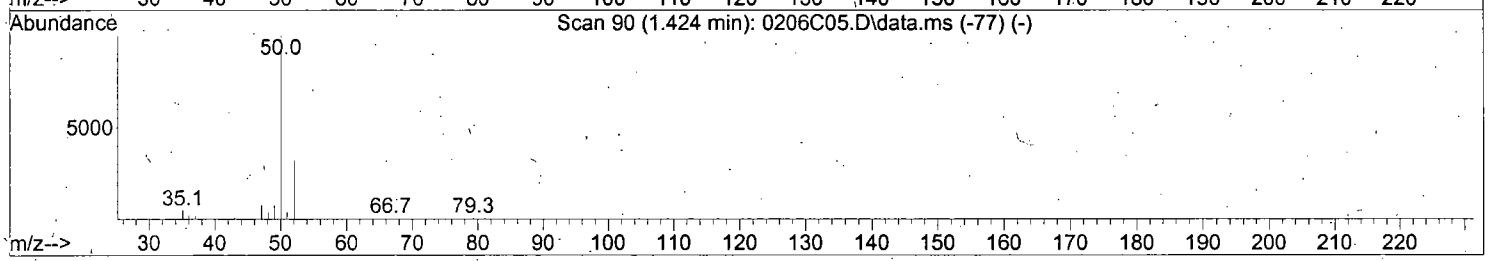
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C05.D
Acq On : 4 Feb 2014 13:26
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 13:49:16 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:27:33 2014
Response via : Initial Calibration







TIC: 0204C05.D\data.ms

(3) CHLOROMETHANE (TMCP)

1.419min (-0.004) 2.46 ug/L m

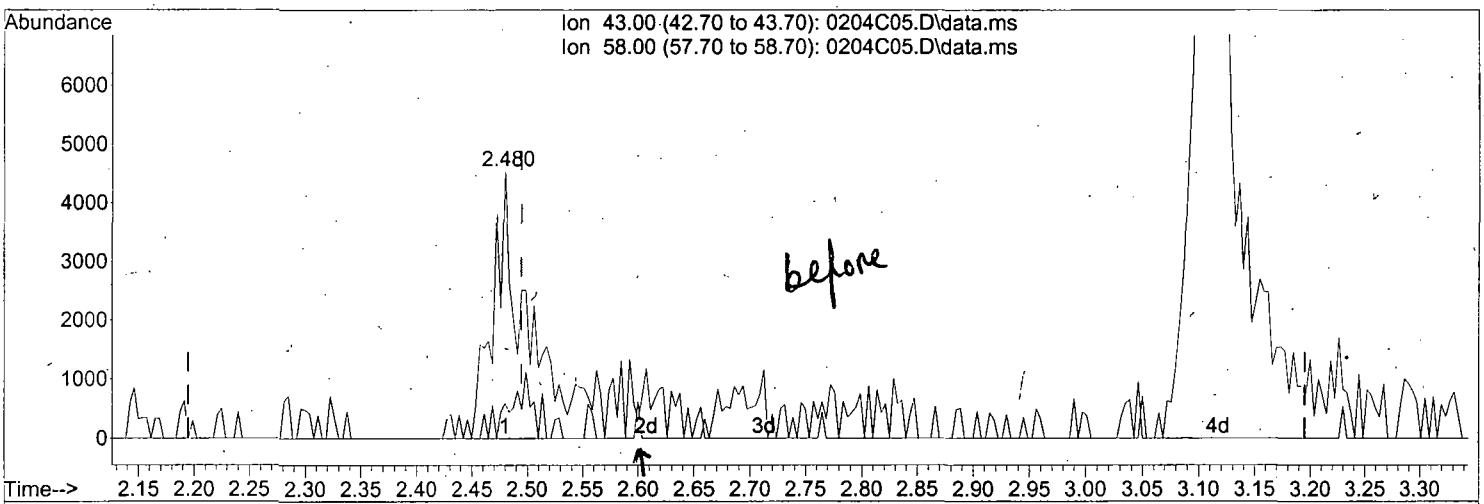
response 32596

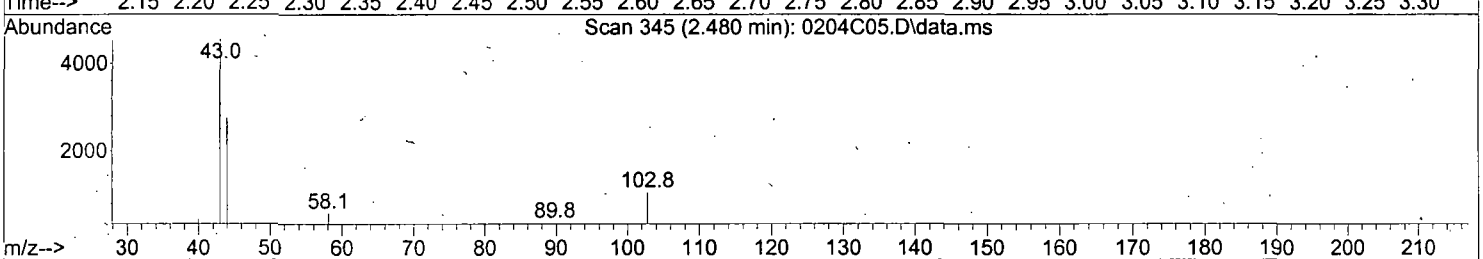
Ion	Exp%	Act%
50.00	100	100
52.00	31.20	32.71
0.00	0.00	0.00
0.00	0.00	0.00

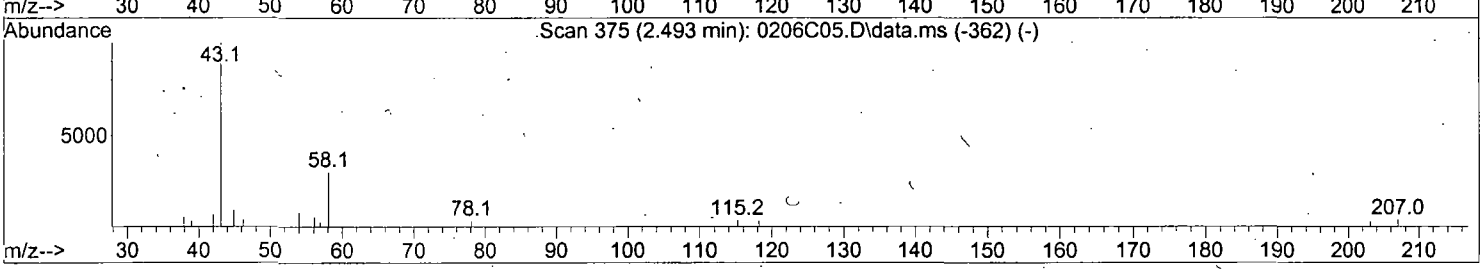
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C05.D
Acq On : 4 Feb 2014 13:26
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 13:49:16 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:27:33 2014
Response via : Initial Calibration







TIC: 0204C05.D\data.ms

(8) ACETONE (TMCP)

2.480min (-0.015) 1.45 ug/L

response 10426

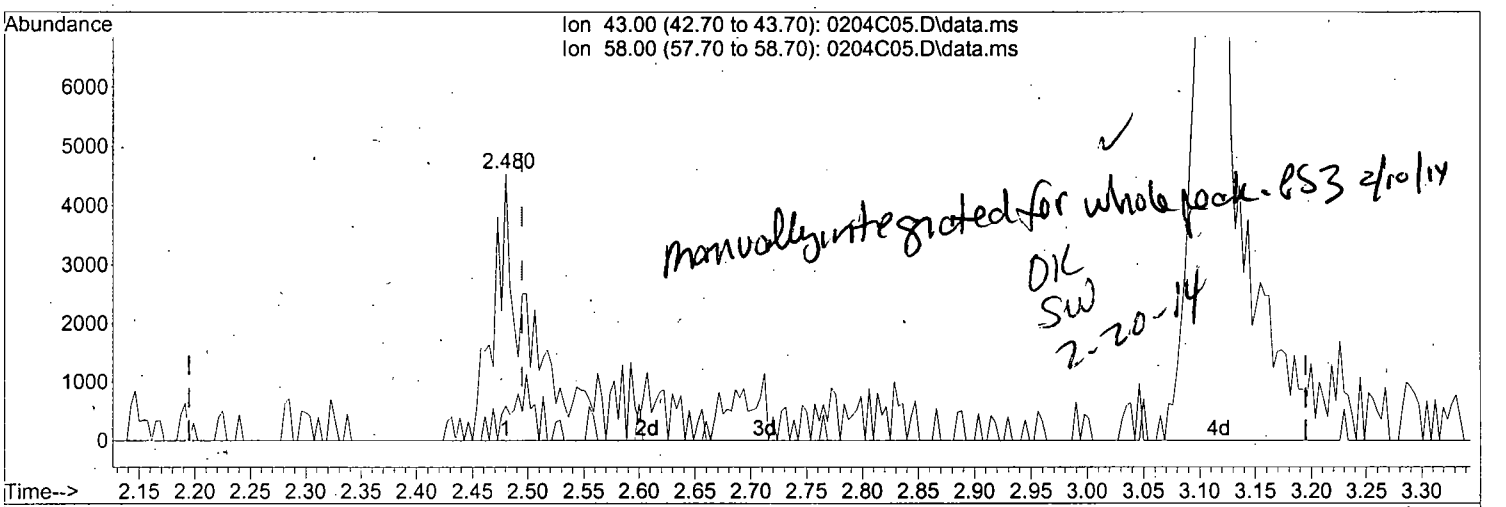
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	12.02#
0.00	0.00	0.00
0.00	0.00	0.00

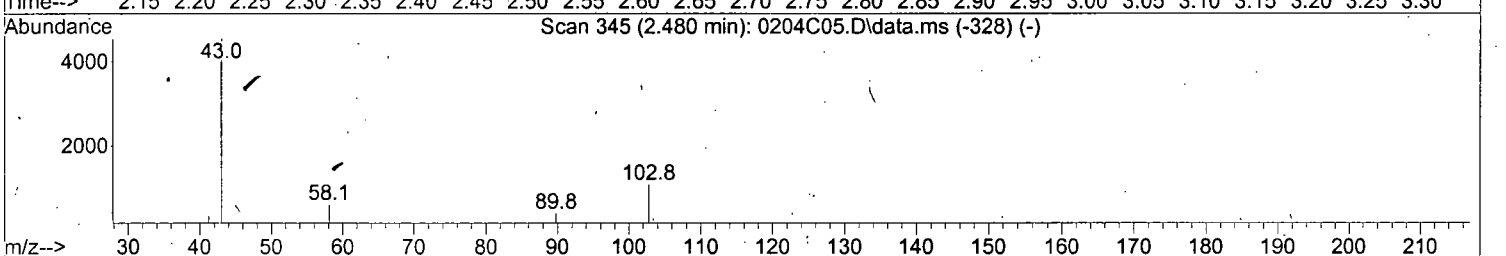
Freedom_0005792_0471

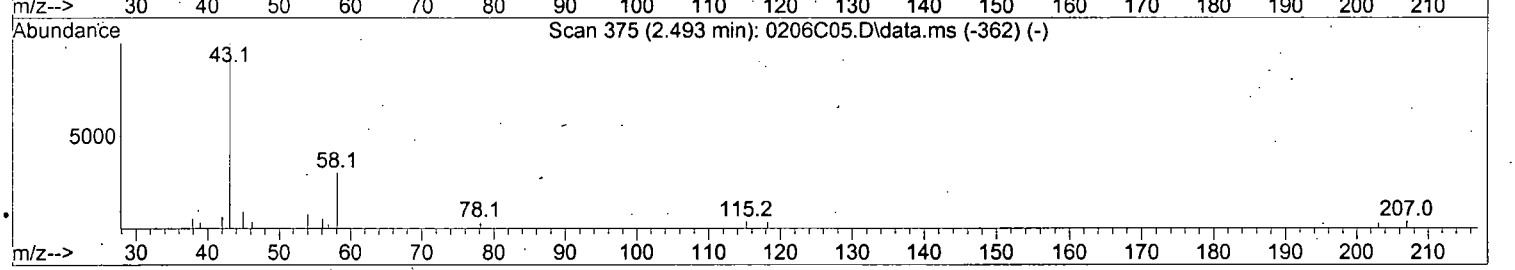
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C05.D
Acq On : 4 Feb 2014 13:26
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 13:49:16 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:27:33 2014
Response via : Initial Calibration







TIC: 0204C05.D\data.ms

(8) ACETONE (TMCP)

2.480min (-0.015) 2.61 ug/L m

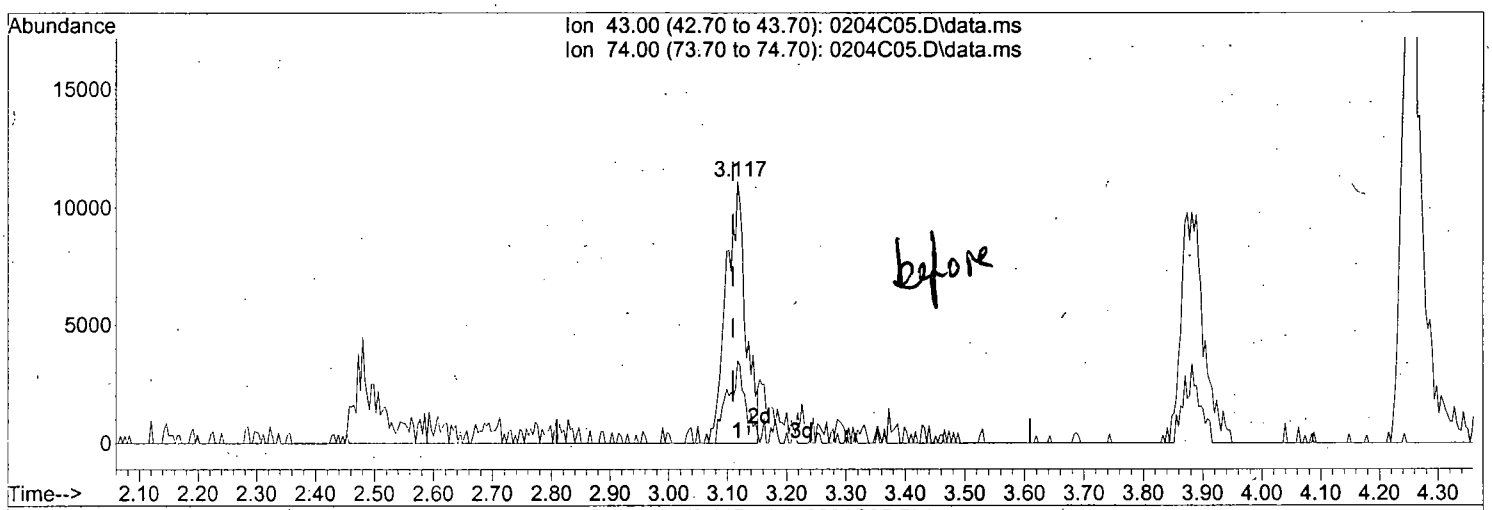
response 18850

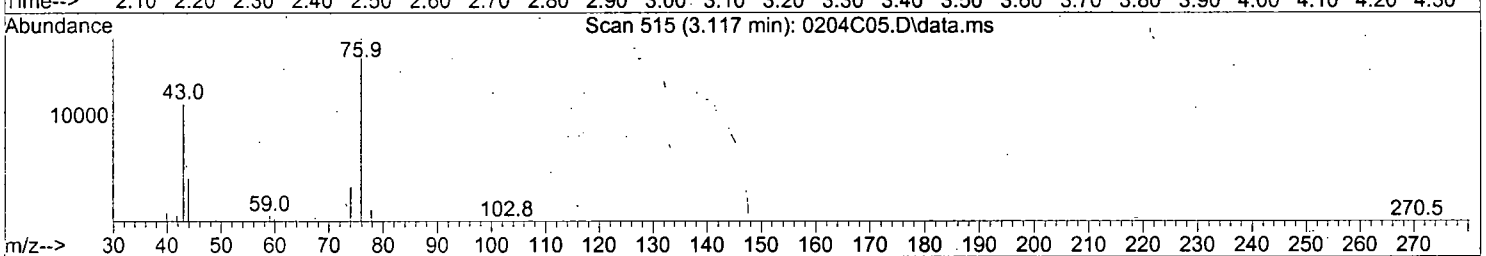
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	6.65#
0.00	0.00	0.00
0.00	0.00	0.00

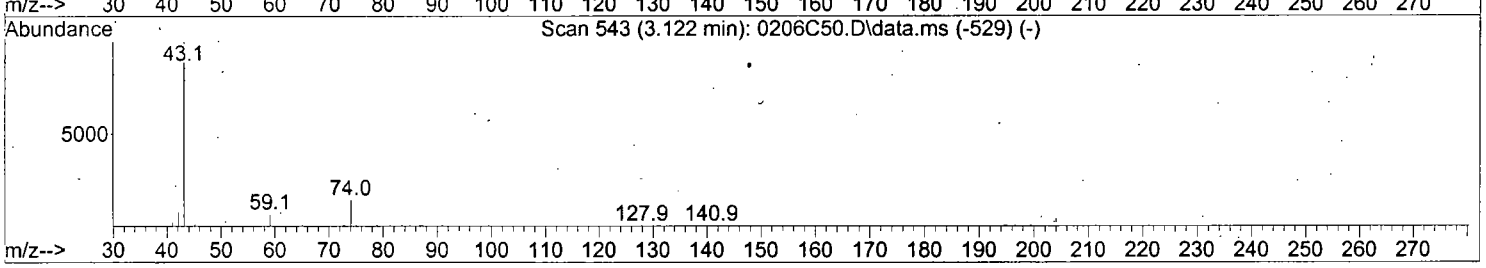
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C05.D
Acq On : 4 Feb 2014 13:26
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 13:49:16 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:27:33 2014
Response via : Initial Calibration







TIC: 0204C05.D\data.ms

(13) METHYL ACETATE (TMCP)

3.117min (+0.007) 2.86 ug/L

response 25622

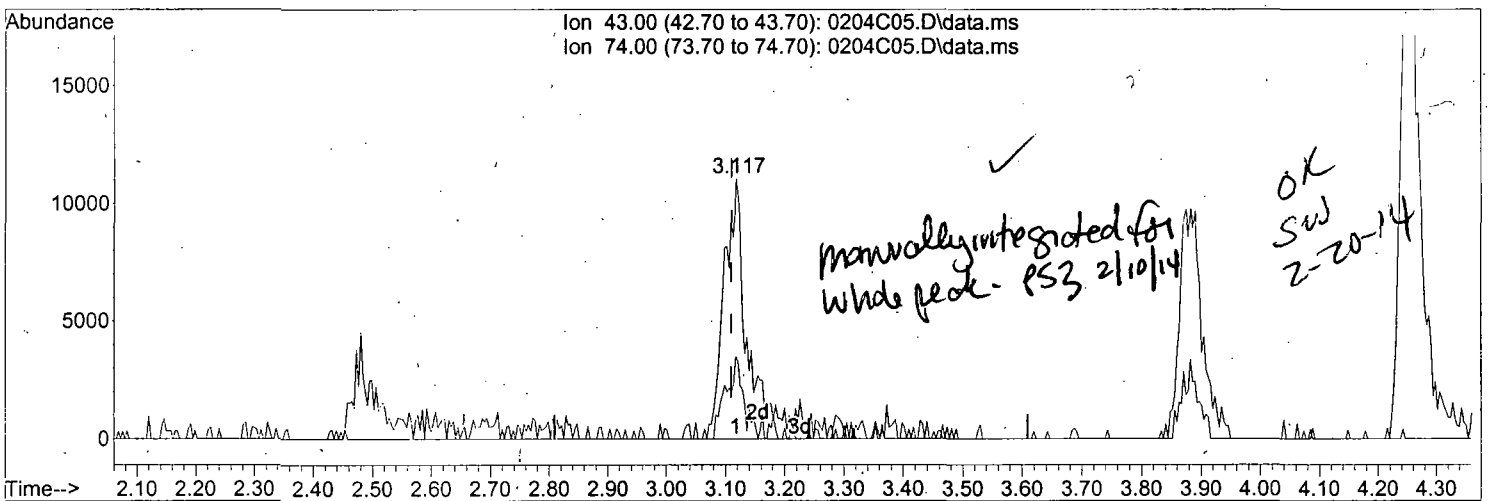
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	13.32#
0.00	0.00	0.00
0.00	0.00	0.00

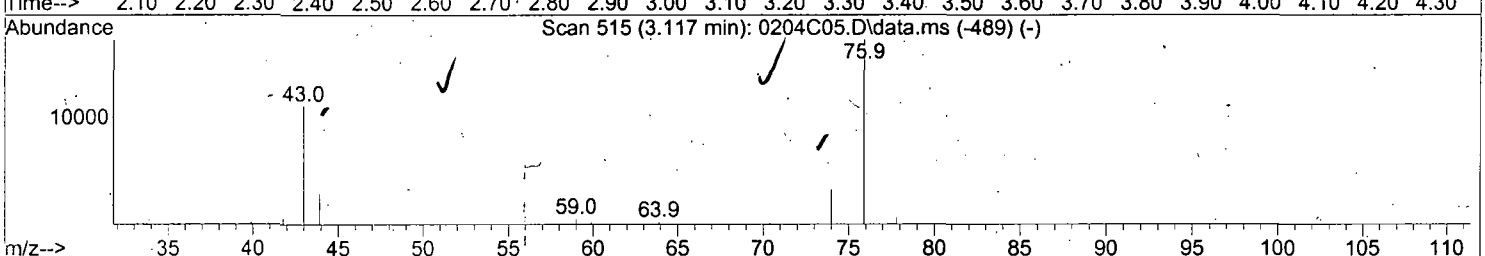
Freedom_0005792_0473

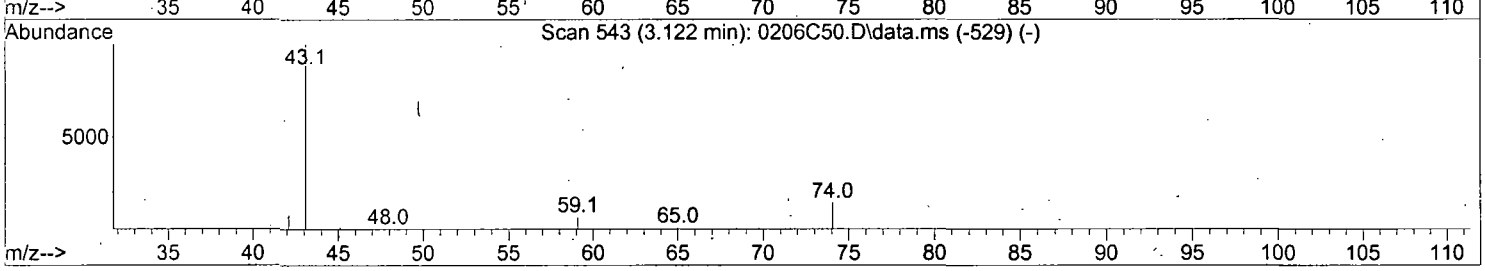
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C05.D
Acq On : 4 Feb 2014 13:26
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 13:49:16 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:27:33 2014
Response via : Initial Calibration







TIC: 0204C05.D\data.ms

(13) METHYL ACETATE (TMCP)

3.117min (+0.007) 3.87 ug/L m

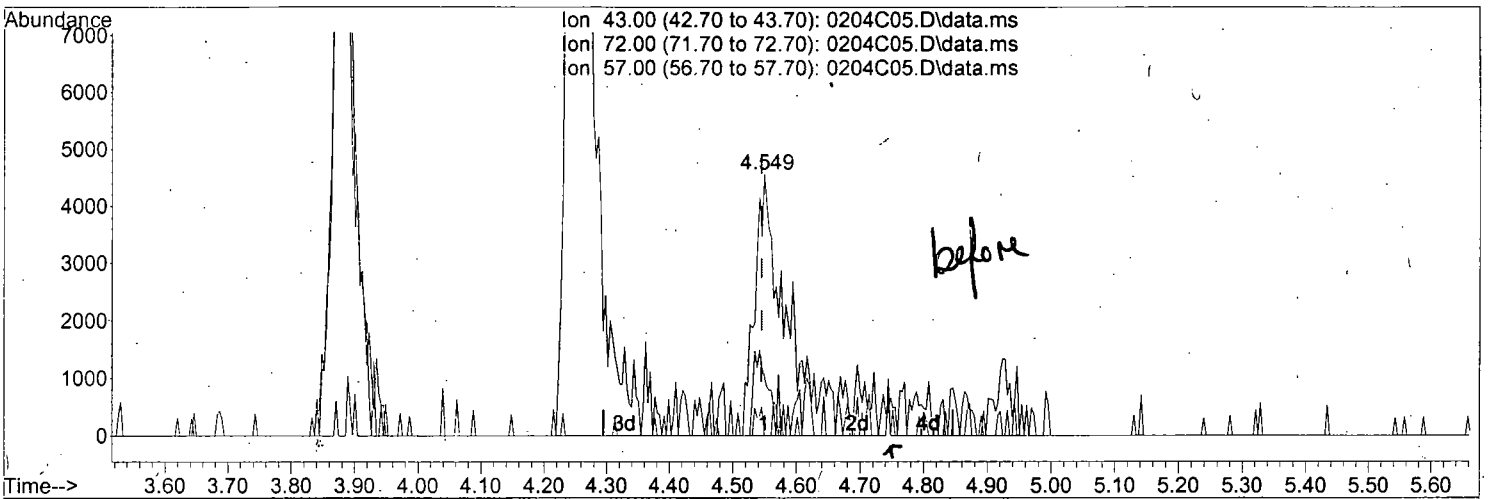
response 34697

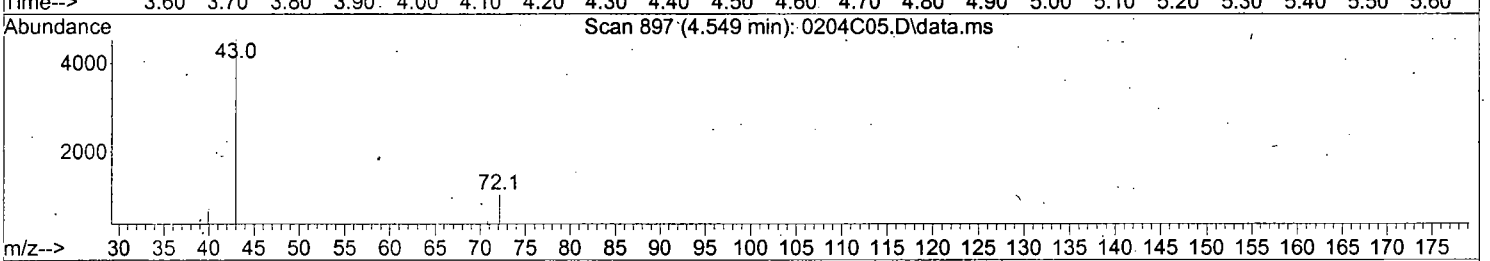
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	9.84#
0.00	0.00	0.00
0.00	0.00	0.00

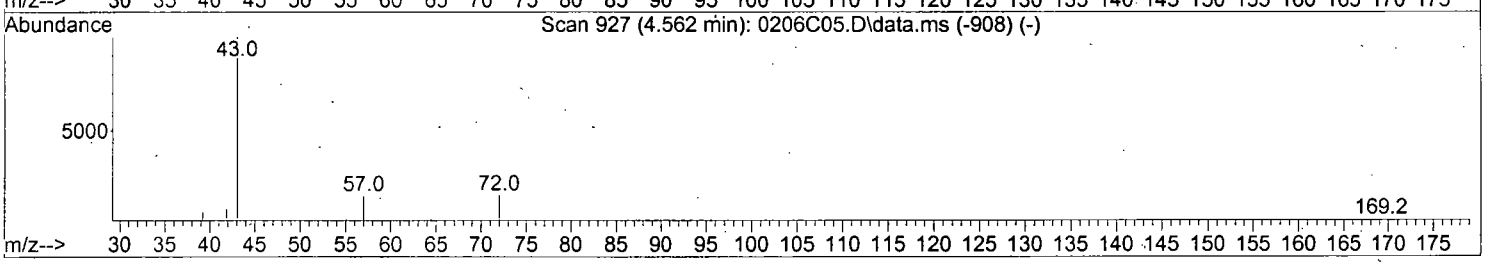
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C05.D
Acq On : 4 Feb 2014 13:26
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 13:49:16 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:27:33 2014
Response via : Initial Calibration







TIC: 0204C05.D\data.ms

(18) 2-BUTANONE (TMCP)

4.549min (+0.004) 2.09 ug/L

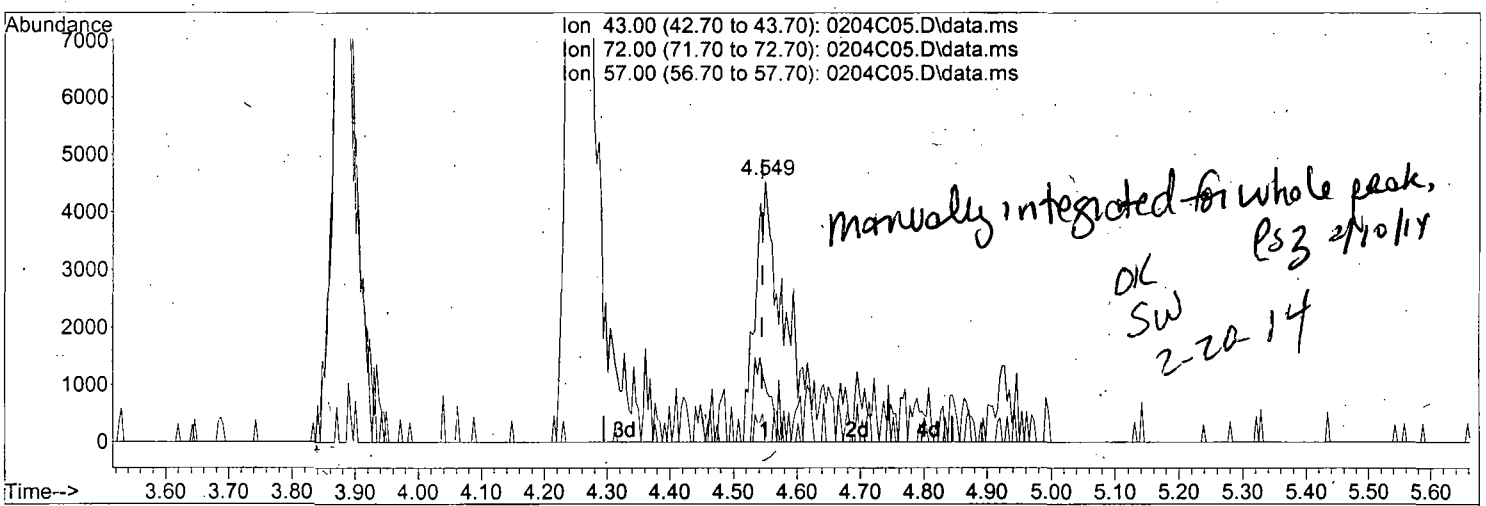
response 15845

Ion	Exp%	Act%
43.00	100	100
72.00	18.60	14.21#
57.00	7.60	0.00#
0.00	0.00	0.00

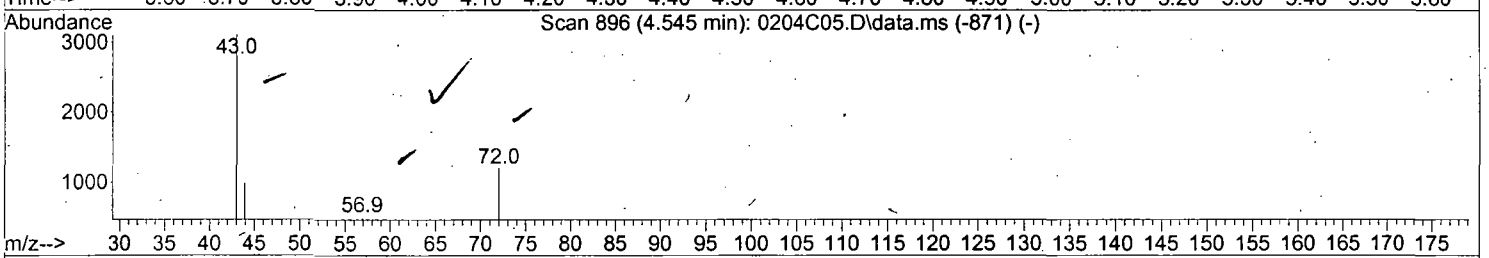
Quantitation Report (Qedit)

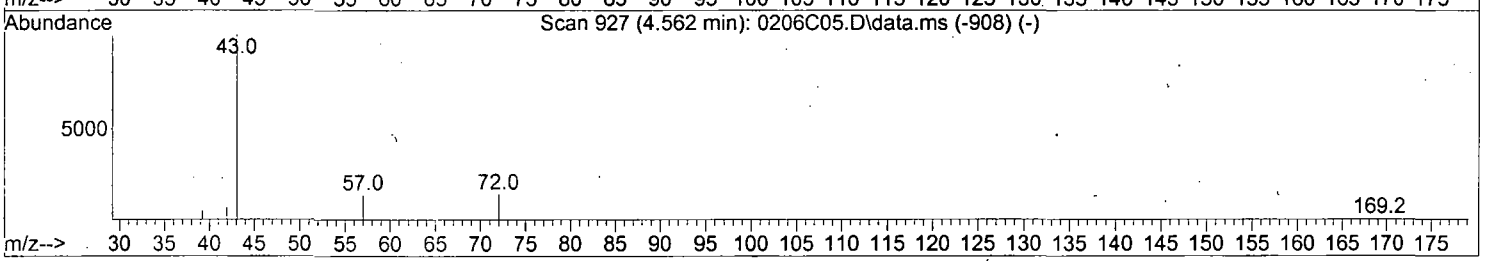
Data Path : D:\DATA\L02042014\
Data File : 0204C05.D
Acq On : 4 Feb 2014 13:26
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 13:49:16 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:27:33 2014
Response via : Initial Calibration



manually integrated for whole peak, PSZ 2/10/14
OK SW 2-20-14





TIC: 0204C05.D\data.ms

(18) 2-BUTANONE (TMCP)

4.549min (+0.004) 2.92 ug/L m

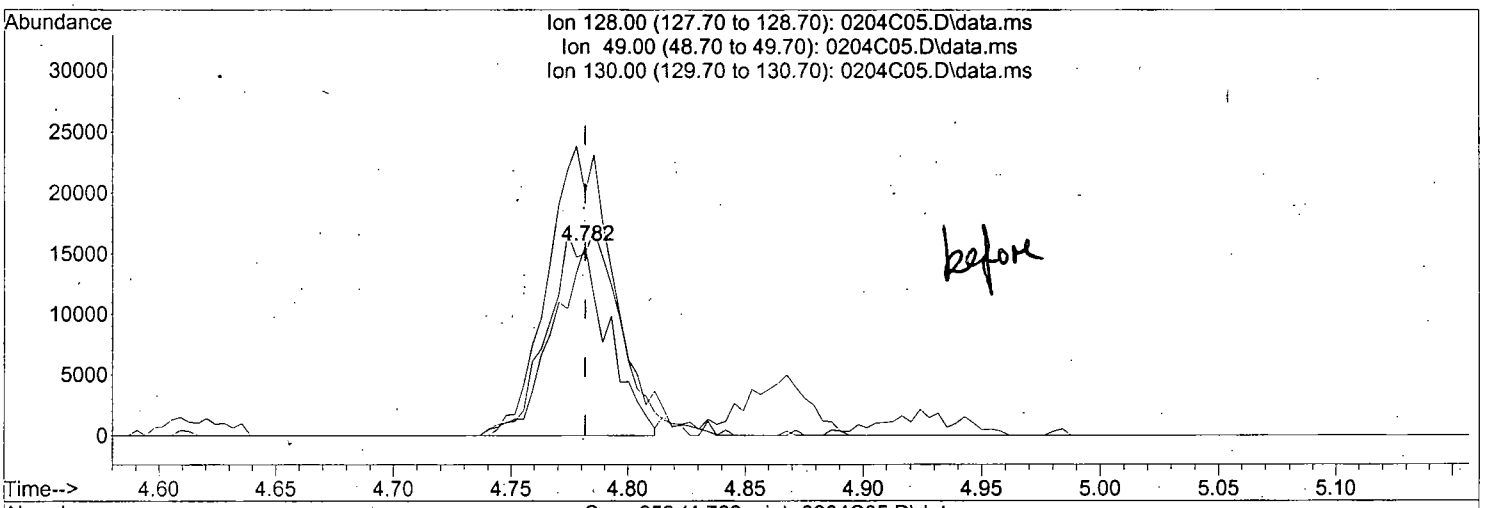
response 22191

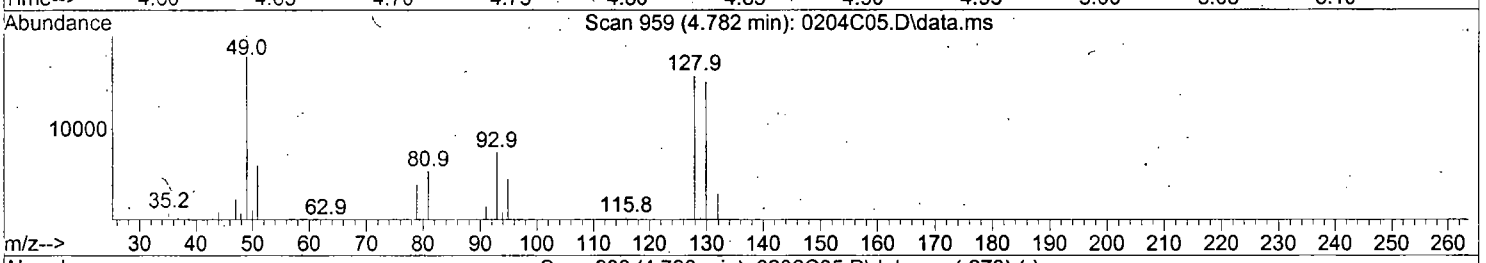
Ion	Exp%	Act%
43.00	100	100
72.00	18.60	10.15#
57.00	7.60	0.00#
0.00	0.00	0.00

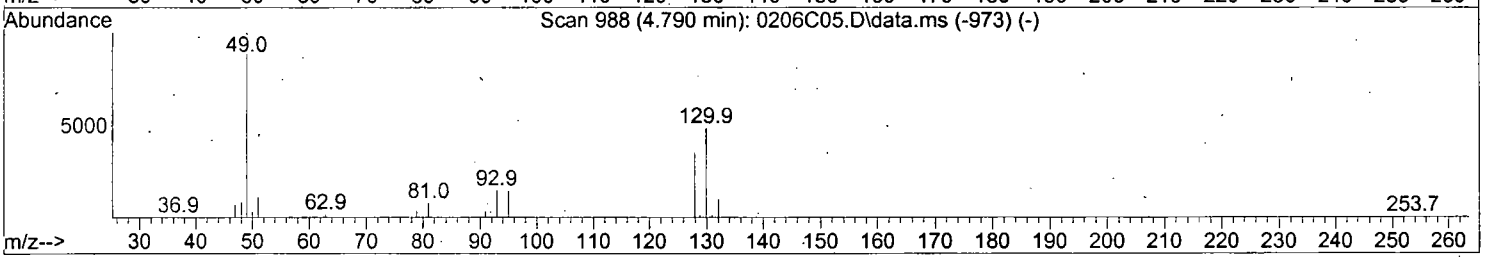
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C05.D
Acq On : 4 Feb 2014 13:26
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 13:49:16 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:27:33 2014
Response via : Initial Calibration







TIC: 0204C05.D\data.ms

(20) BROMOCHLOROMETHANE (TMCP)

4.782min (-0.000) 4.43 ug/L

response 26340

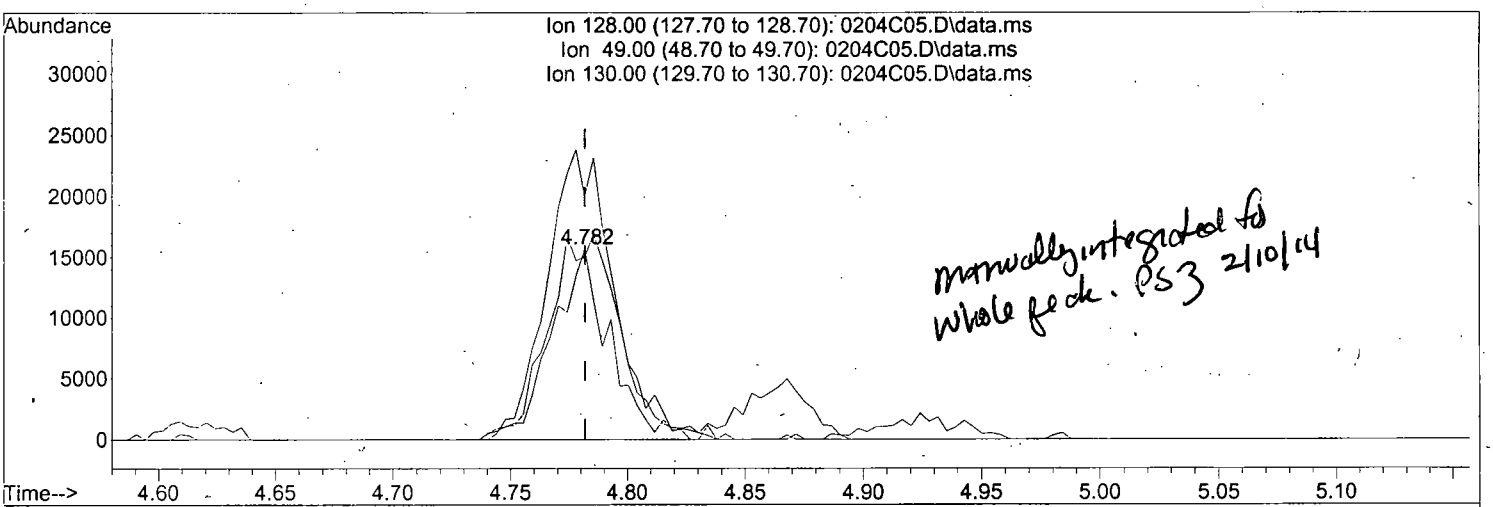
Ion	Exp%	Act%
128.00	100	100
49.00	154.70	180.08
130.00	132.80	136.64
0.00	0.00	0.00

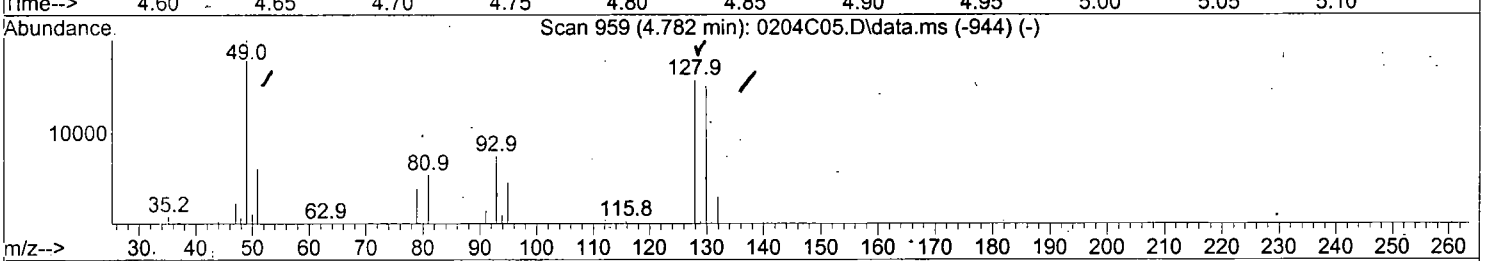
Freedom_0005792_0477

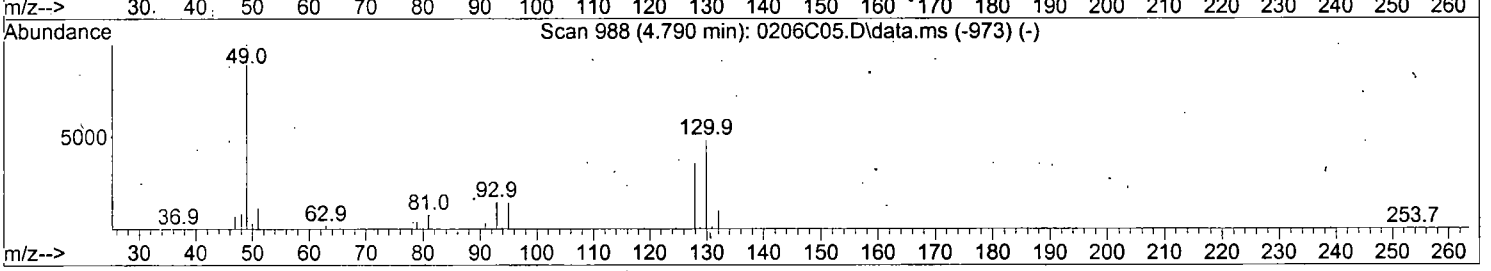
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C05.D
Acq On : 4 Feb 2014 13:26
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 13:49:16 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:27:33 2014
Response via : Initial Calibration







TIC: 0204C05.D\data.ms

(20) BROMOCHLOROMETHANE (TMCP)

4.782min (-0.000) 4.59 ug/L m

response 27308

Ion	Exp%	Act%
128.00	100	100
49.00	154.70	173.69
130.00	132.80	131.79
0.00	0.00	0.00

Freedom_0005792_0478

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204C10.D
Acq On : 4 Feb 2014 13:54
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 14:52:46 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:53:54 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.529	114	152212	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	144005	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	91924	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.501	65	71721	4.70	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery = 94.00%			
41) TOLUENE-d8	8.617	98	194547	5.13	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery = 102.60%			
59) 4-BROMOFLUOROBENZENE	11.649	95	95360	5.39	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery = 107.80%			
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.303	85	157585	10.75	ug/L	100
3) CHLOROMETHANE	1.419	50	79474	6.71	ug/L	96
4) VINYL CHLORIDE	1.528	62	99363m	9.11	ug/L	
5) BROMOMETHANE	1.783	94	67017	11.15	ug/L	98
6) CHLOROETHANE	1.891	64	59469	9.13	ug/L	90
7) TRICHLOROFLUOROMETHANE	2.326	101	252572	10.61	ug/L	99
8) ACETONE	2.480	43	37295m	6.22	ug/L	
9) 1,1-DICHLOROETHENE	2.799	96	76255	9.54	ug/L	95
10) METHYLENE CHLORIDE	2.975	84	114706	9.60	ug/L	90
11) Freon 113	3.061	101	117955	9.31	ug/L #	82
12) CARBON DISULFIDE	3.095	76	341146	10.62	ug/L	100
13) METHYL ACETATE	3.102	43	67432m	8.23	ug/L	
14) TRANS-1,2-DICHLOROETHENE	3.698	96	107854	9.63	ug/L	94
15) METHYL-TERT-BUTYL ETHER	3.890	73	278742	10.17	ug/L #	94
16) 1,1-DICHLOROETHANE	3.968	63	208155	9.22	ug/L	99
17) VINYL ACETATE	4.257	43	159420	8.42	ug/L #	94
18) 2-BUTANONE	4.538	43	49034m	7.40	ug/L	
19) CIS-1,2-DICHLOROETHENE	4.617	96	118939	9.94	ug/L	95
20) BROMOCHLOROMETHANE	4.782	128	55669	9.34	ug/L	92
21) CHLOROFORM	4.864	83	234767	9.91	ug/L	98
22) 2,2-DICHLOROPROPANE	4.928	77	151669	9.88	ug/L	96
24) 1,2-DICHLOROETHANE	5.591	62	189671	9.24	ug/L	99
25) 1,1,1-TRICHLOROETHANE	5.678	97	188507	9.80	ug/L	97
26) 1,1-DICHLOROPROPENE	5.918	75	159070	10.12	ug/L	95
27) CYCLOHEXANE	5.970	56	177922	8.80	ug/L	88
28) CARBON TETRACHLORIDE	6.075	117	171571	10.27	ug/L	99
29) BENZENE	6.150	78	497840	10.14	ug/L	100
30) DIBROMOMETHANE	6.791	93	79128	10.03	ug/L #	81
31) 1,2-DICHLOROPROPANE	6.855	63	116135	9.21	ug/L #	75
32) TRICHLOROETHENE	6.922	130	143544	9.72	ug/L #	87
33) BROMODICHLOROMETHANE	6.963	83	166374	9.97	ug/L	92
34) METHYLCYCLOHEXANE	7.488	83	204081	10.69	ug/L	93
35) 2-CHLOROETHYLVINYL ETHER	7.608	63	69607	10.98	ug/L	89
36) CIS-1,3-DICHLOROPROPENE	7.784	75	171187	10.13	ug/L	99
38) 4-METHYL-2-PENTANONE	8.002	43	89719	7.17	ug/L #	94
39) TRANS-1,3-DICHLOROPROPENE	8.335	75	153852	10.48	ug/L	98
40) 1,1,2-TRICHLOROETHANE	8.470	97	108606	9.70	ug/L	98
42) TOLUENE	8.699	92	289452	9.87	ug/L	96
43) 1,3-DICHLOROPROPANE	8.766	76	212537	9.97	ug/L	100
44) CHLORODIBROMOMETHANE	9.014	129	113643	10.35	ug/L	92

Freedom_0005792_0479

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204C10.D
Acq On : 4 Feb 2014 13:54
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 14:52:46 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:53:54 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	2-HEXANONE	9.074	43	63068	7.02	ug/L		93
46)	1,2-DIBROMOETHANE (EDB)	9.295	107	107522	9.83	ug/L		97
47)	TETRACHLOROETHENE	9.550	164	96980	9.29	ug/L		93
48)	1,1,1,2-TETRACHLOROETHANE	10.292	131	106139	10.13	ug/L		98
49)	CHLOROBENZENE	10.375	112	318505	10.36	ug/L		94
50)	ETHYLBENZENE	10.656	91	584900	10.61	ug/L		95
51)	BROMOFORM	10.869	173	73117	9.96	ug/L	#	97
52)	M-XYLENE/P-XYLENE	10.888	106	462198	22.31	ug/L		89
53)	STYRENE	11.211	104	787323	23.53	ug/L		96
54)	O-XYLENE	11.274	106	499595	23.02	ug/L		88
55)	ISOPROPYLBENZENE	11.649	105	630541	11.16	ug/L		95
57)	1,1,2,2-TETRACHLOROETHANE	11.263	83	91611	9.73	ug/L	#	97
58)	1,2,3-TRICHLOROPROPANE	11.402	75	129938	9.88	ug/L		97
60)	BROMOBENZENE	11.803	156	143955	9.85	ug/L	#	80
61)	N-PROPYLBENZENE	12.062	91	828100	11.58	ug/L		94
62)	2-CHLOROTOLUENE	12.107	91	485076	10.81	ug/L		90
63)	4-CHLOROTOLUENE	12.181	91	527551	11.41	ug/L		91
64)	1,3,5-TRIMETHYLBENZENE	12.361	105	542351	10.77	ug/L		95
65)	TERT-BUTYLBENZENE	12.568	119	467835	11.87	ug/L		88
66)	1,2,4-TRIMETHYLBENZENE	12.684	105	579047	11.21	ug/L		95
67)	SEC-BUTYLBENZENE	12.755	105	772198	11.44	ug/L		94
68)	1,3-DICHLOROBENZENE	12.766	146	321009	10.40	ug/L		96
69)	1,4-DICHLOROBENZENE	12.830	146	315468	9.41	ug/L		95
70)	P-ISOPROPYLTOLUENE	12.935	119	613981	11.48	ug/L		95
71)	1,2-DICHLOROBENZENE	13.111	146	297415	10.10	ug/L		97
72)	N-BUTYLBENZENE	13.265	91	663993	11.50	ug/L		96
73)	1,2-DIBROMO-3-CHLOROPR...	13.486	75	22197	9.39	ug/L	#	75
74)	1,2,4-TRICHLOROBENZENE	14.554	180	223402	9.98	ug/L	#	96
75)	NAPHTHALENE	14.731	128	489978	11.06	ug/L		99
76)	HEXACHLOROBUTADIENE	14.809	225	125099	9.22	ug/L	#	79
77)	1,2,3-TRICHLOROBENZENE	14.881	180	230553	10.29	ug/L	#	94

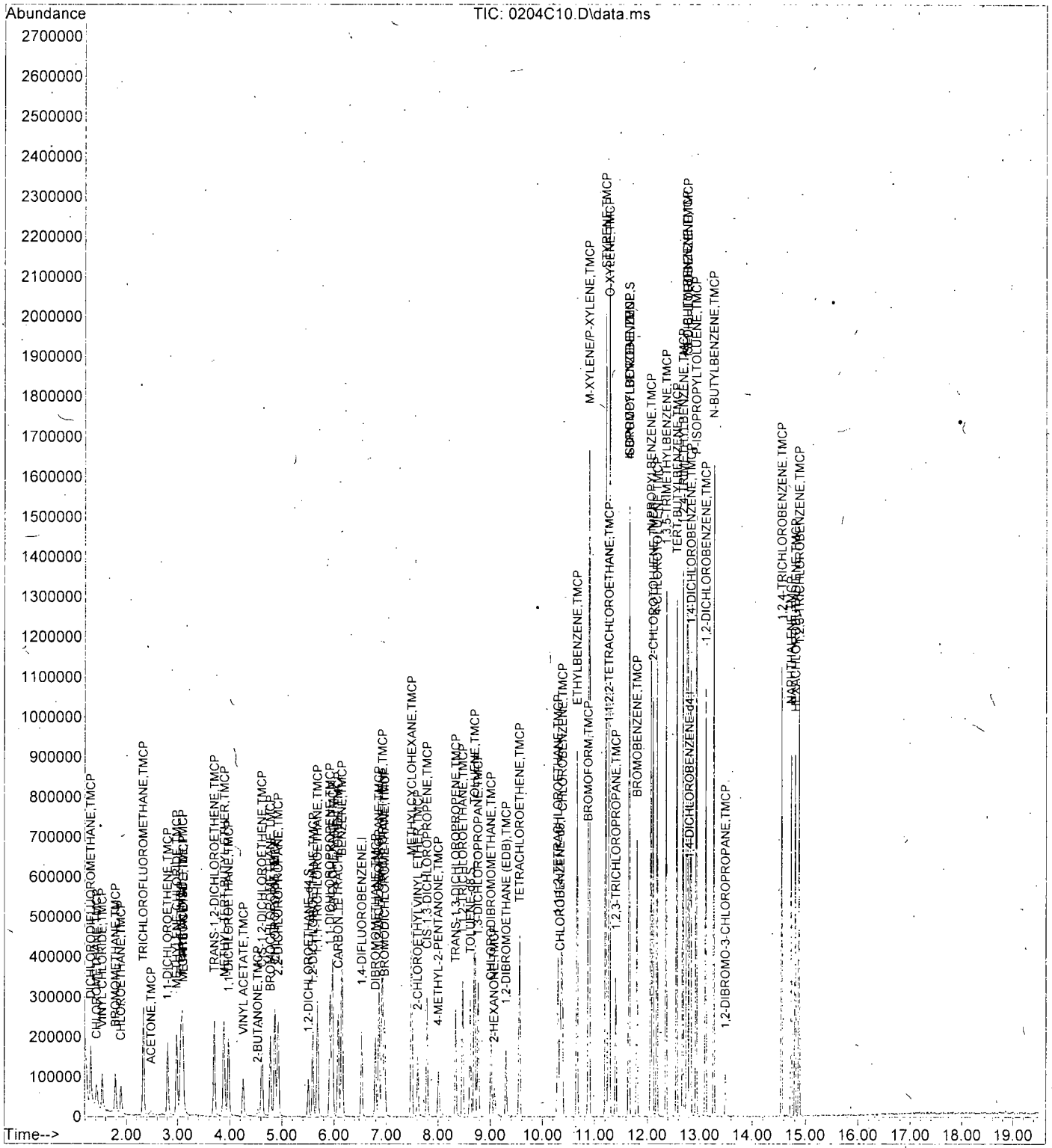
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0480

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204C10.D
Acq On : 4 Feb 2014 13:54
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 14:52:46 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:53:54 2014
Response via : Initial Calibration

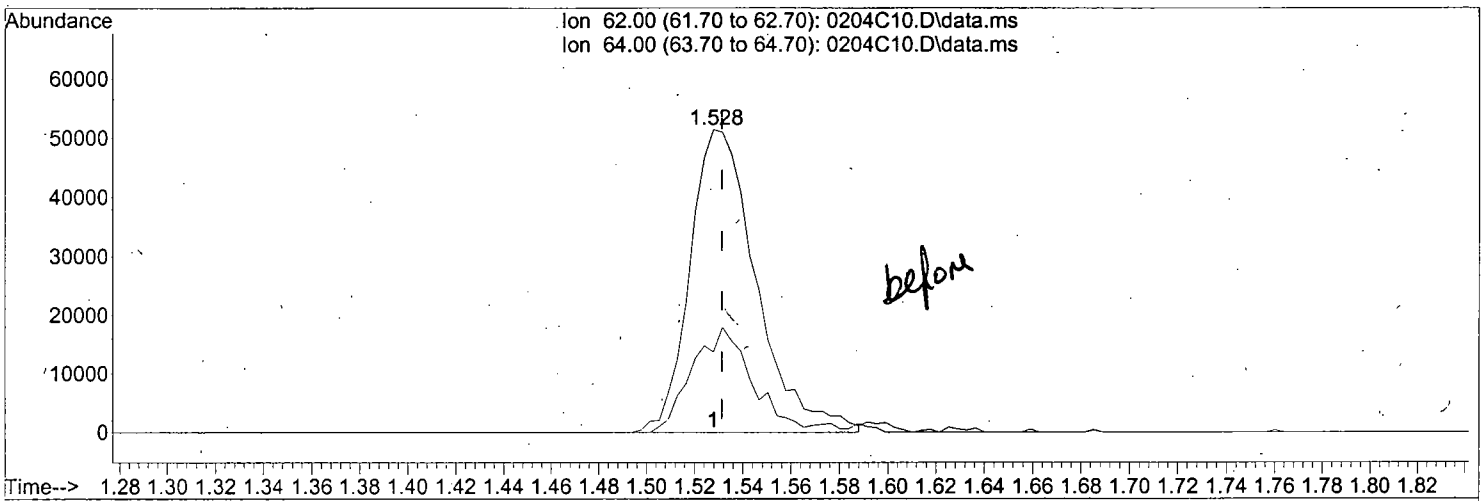


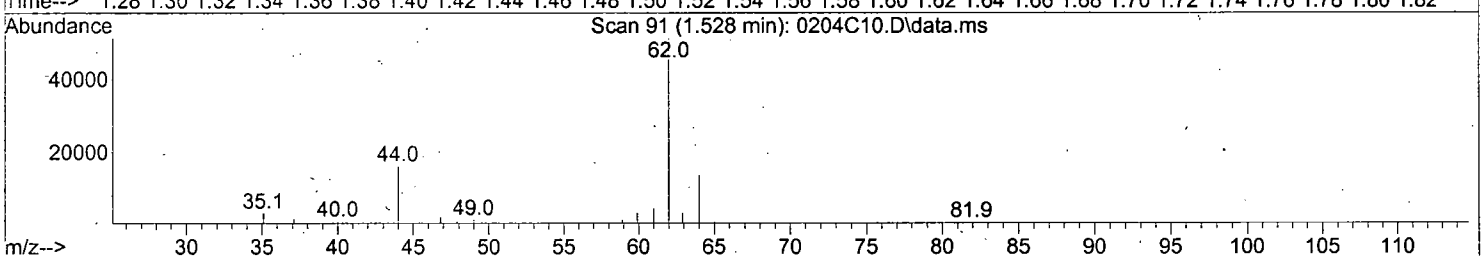
Freedom_0005792_0481

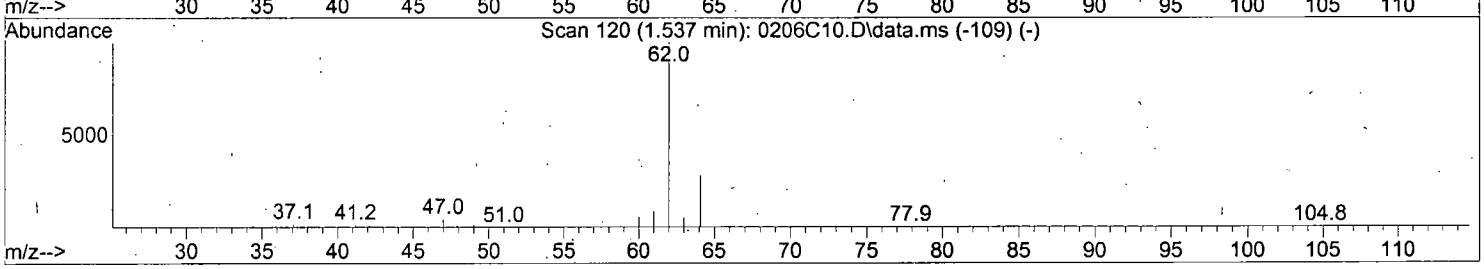
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C10.D
Acq On : 4 Feb 2014 13:54
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 14:51:17 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:53:54 2014
Response via : Initial Calibration







TIC: 0204C10.D\data.ms

(4) VINYL CHLORIDE (TMCP)

1.528min (-0.004) 8.99 ug/L

response 97993

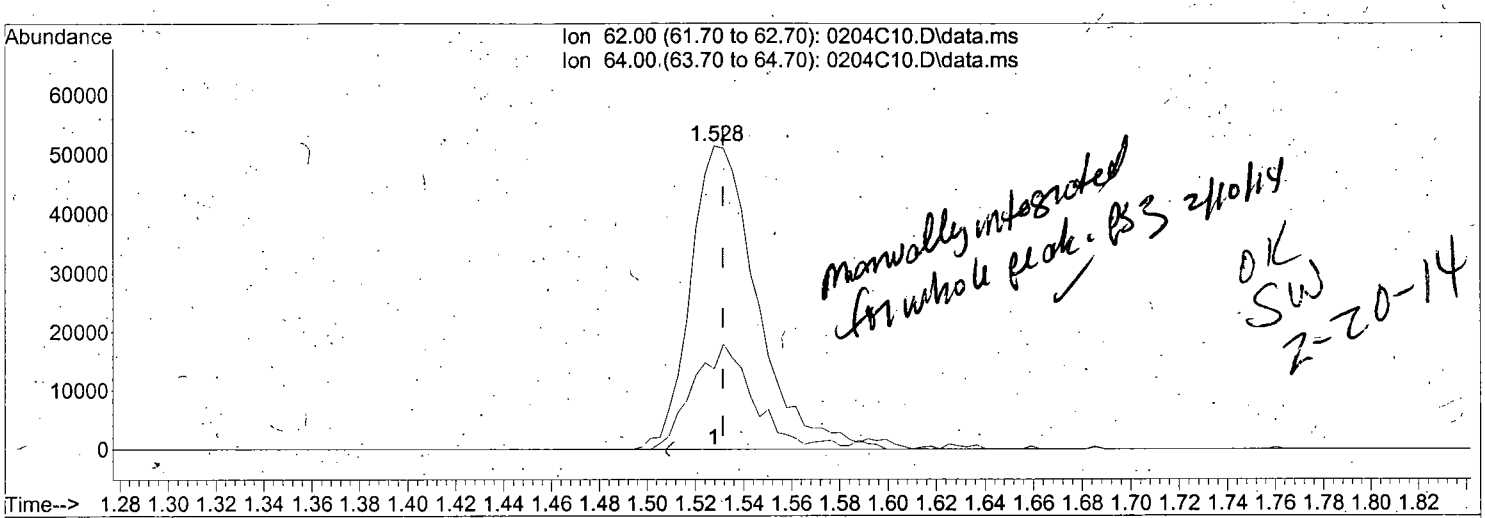
Ion	Exp%	Act%
62.00	100	100
64.00	31.90	31.42
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0482

Quantitation Report (Qedit)

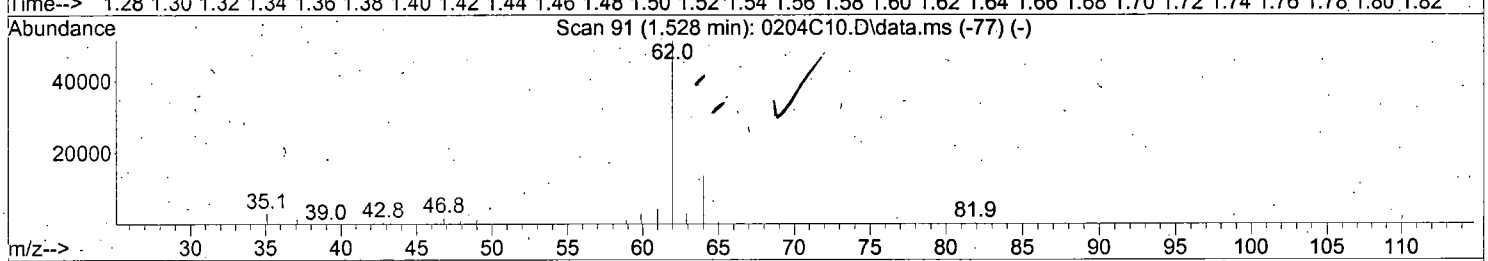
Data Path : D:\DATA\L02042014\
Data File : 0204C10.D
Acq On : 4 Feb 2014 13:54
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

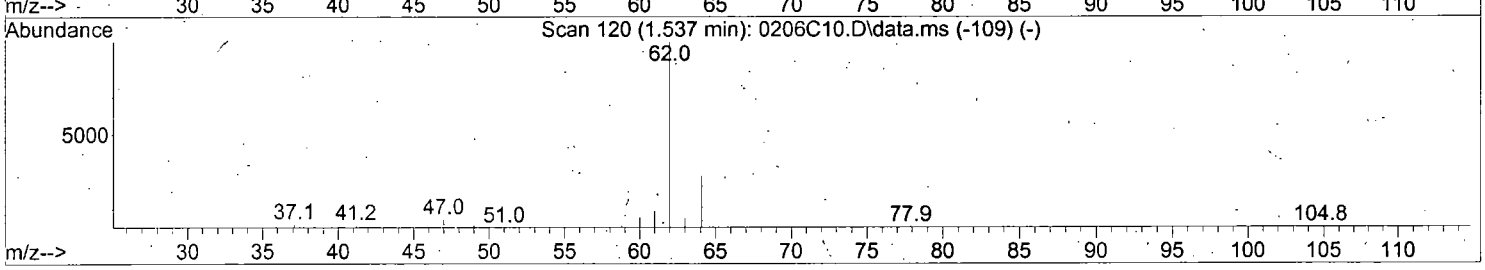
Quant Time: Feb 04 14:51:17 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:53:54 2014
Response via : Initial Calibration



manually integrated for whole peak. BS 2/10/14

OK SW 2-20-14





TIC: 0204C10.D\data.ms

(4) VINYL CHLORIDE (TMCP)

1.528min (-0.004) 9.11 ug/L m

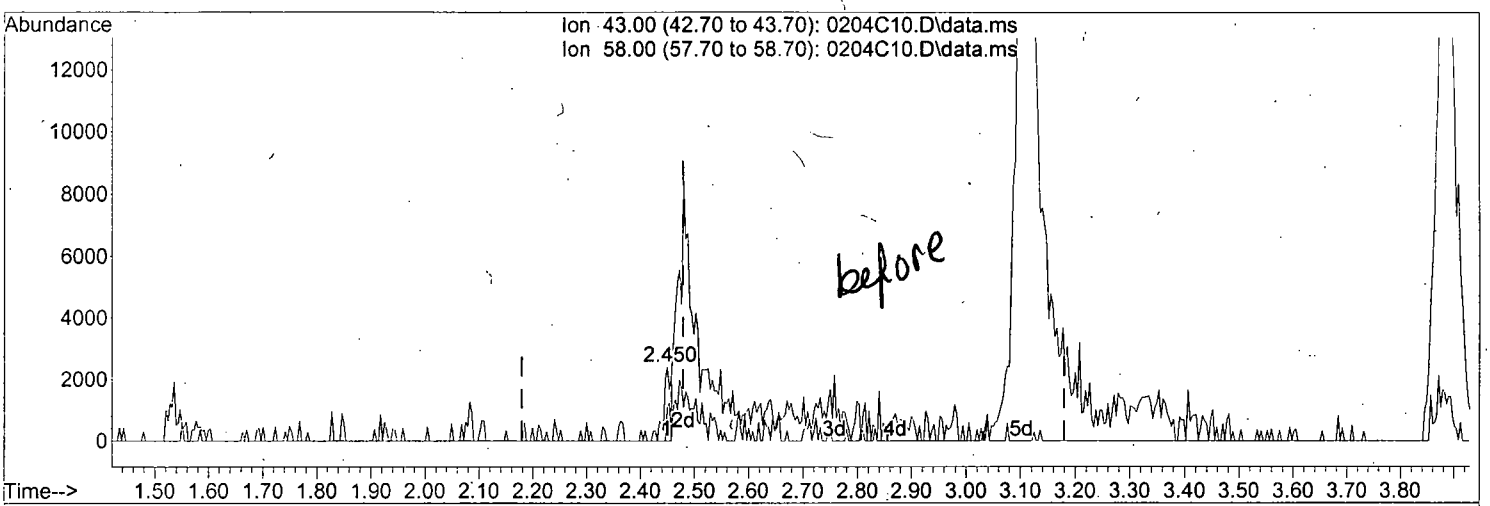
response 99363

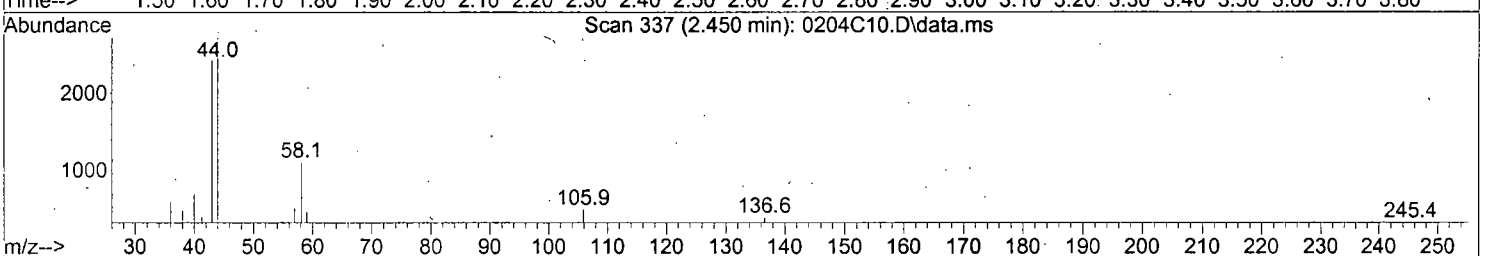
Ion	Exp%	Act%
62.00	100	100
64.00	31.90	30.99
0.00	0.00	0.00
0.00	0.00	0.00

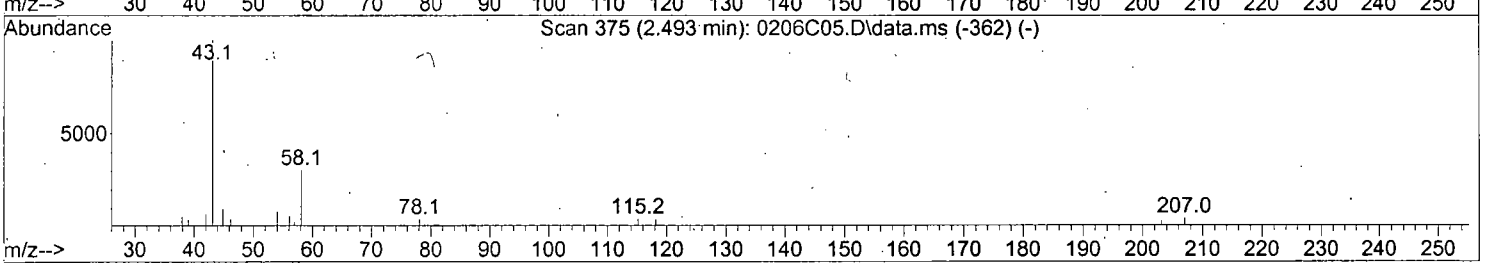
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C10.D
Acq On : 4 Feb 2014 13:54
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 14:51:17 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:53:54 2014
Response via : Initial Calibration







TIC: 0204C10.D\data.ms

(8) ACETONE (TMCP)

2.450min (-0.030) 0.39 ug/L

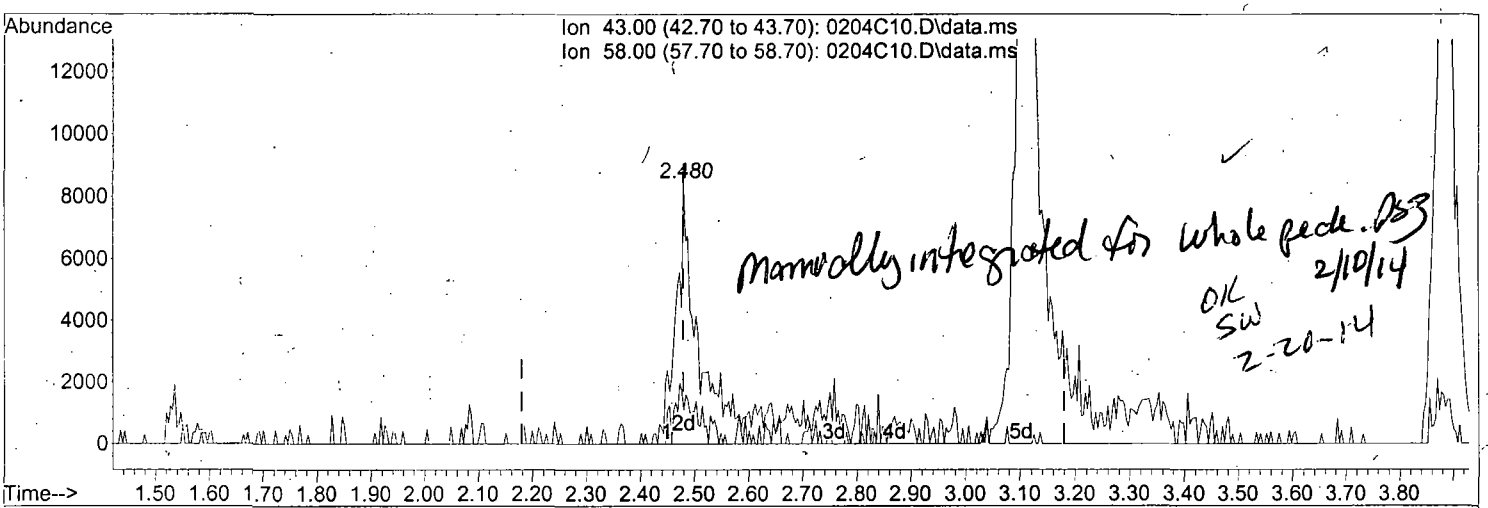
response 2338

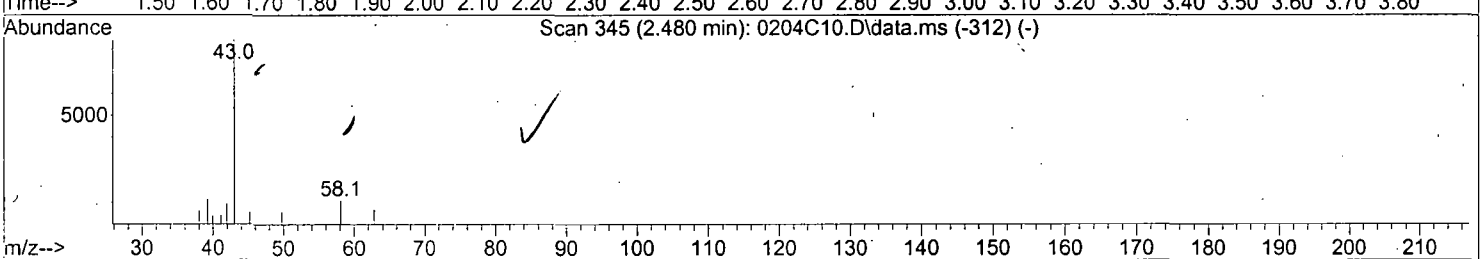
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	22.63
0.00	0.00	0.00
0.00	0.00	0.00

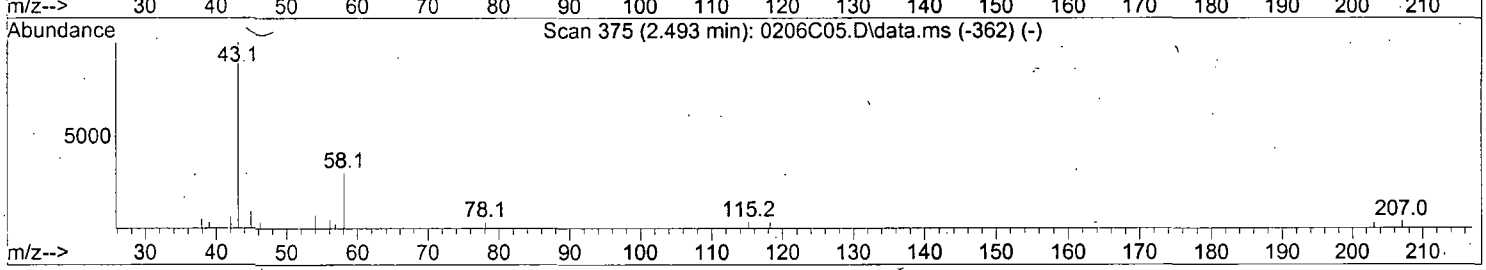
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C10.D
Acq On : 4 Feb 2014 13:54
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 14:51:17 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:53:54 2014
Response via : Initial Calibration







TIC: 0204C10.D\data.ms

(8) ACETONE (TMCP)

2.480min (+0.000) 6.22 ug/L m

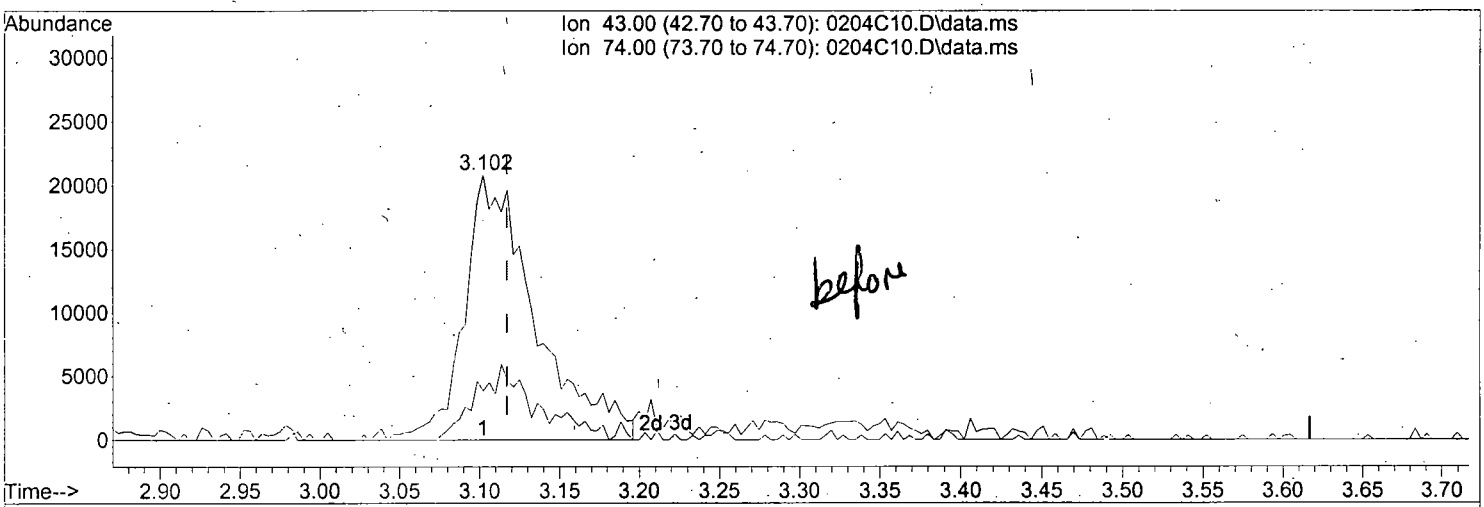
response 37295

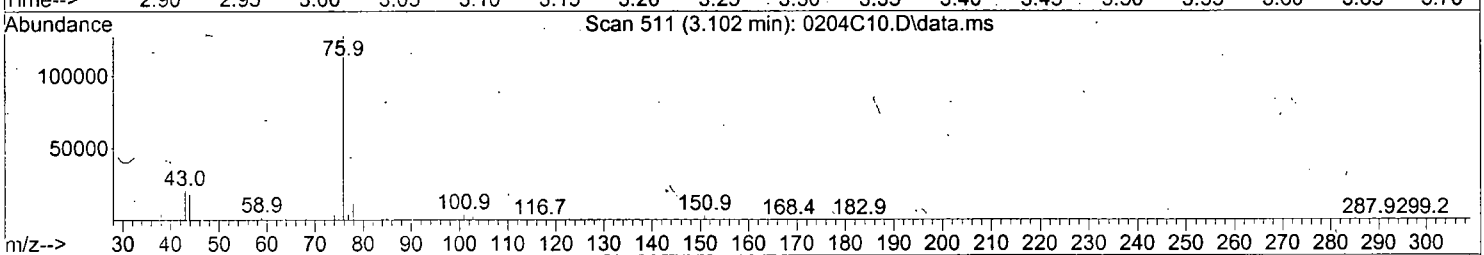
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	1.42#
0.00	0.00	0.00
0.00	0.00	0.00

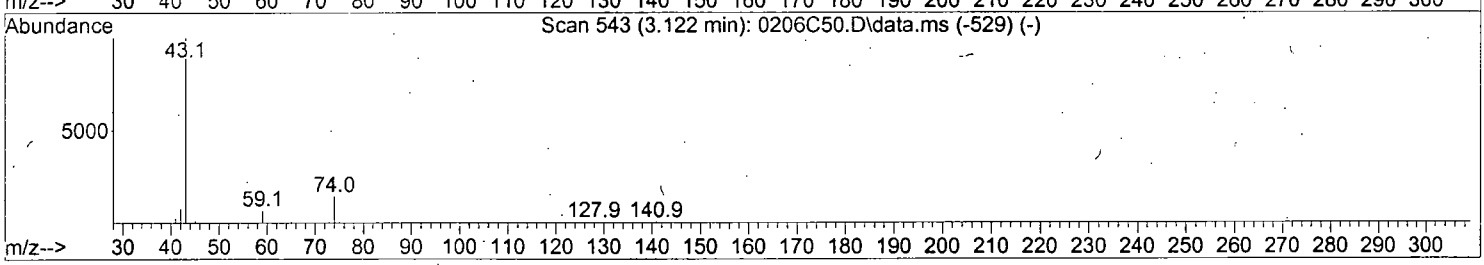
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C10.D
Acq On : 4 Feb 2014 13:54
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 14:51:17 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:53:54 2014
Response via : Initial Calibration







TIC: 0204C10.D\data.ms

(13) METHYL ACETATE (TMCP)

3.102min (-0.015) 7.85 ug/L

response 64288

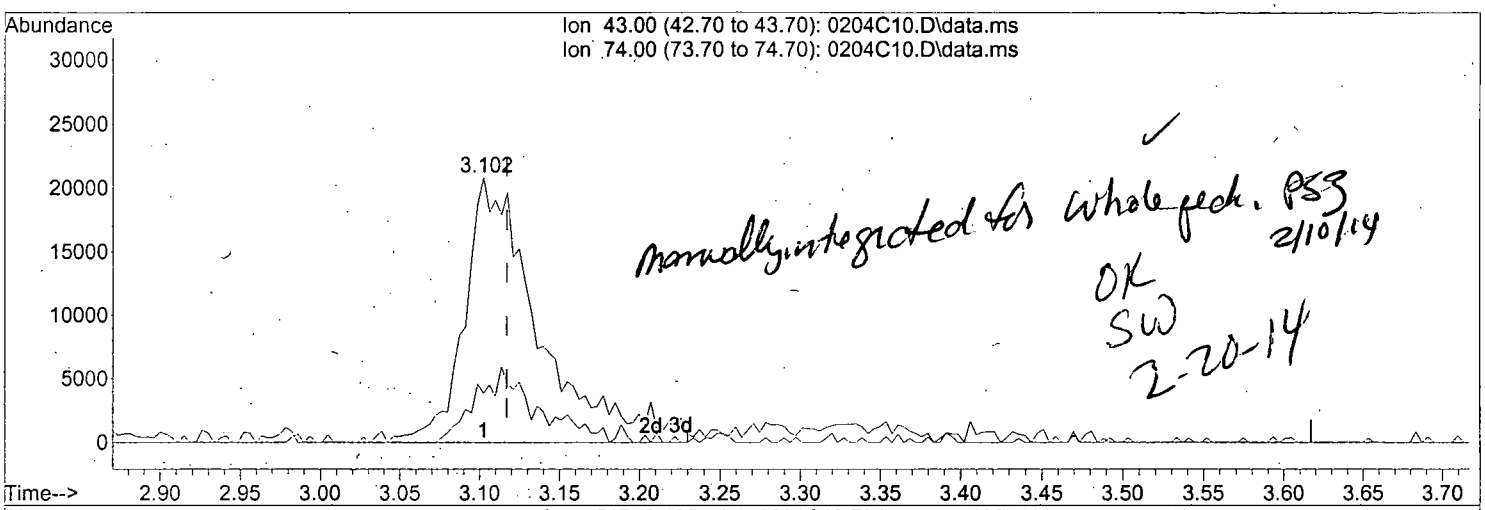
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	19.95
0.00	0.00	0.00
0.00	0.00	0.00

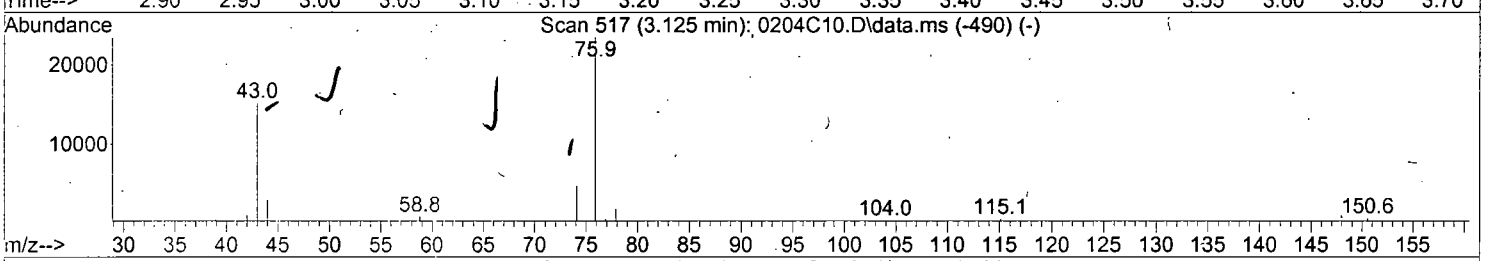
Freedom_0005792_0486

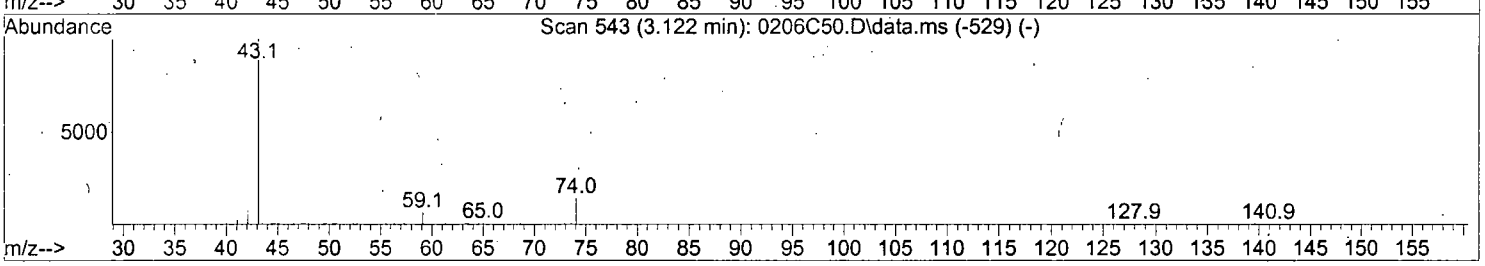
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C10.D
Acq On : 4 Feb 2014 13:54
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 14:51:17 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:53:54 2014
Response via : Initial Calibration







TIC: 0204C10.D\data.ms

(13) METHYL ACETATE (TMCP)

3.102min (-0.015) 8.23 ug/L m

response 67432

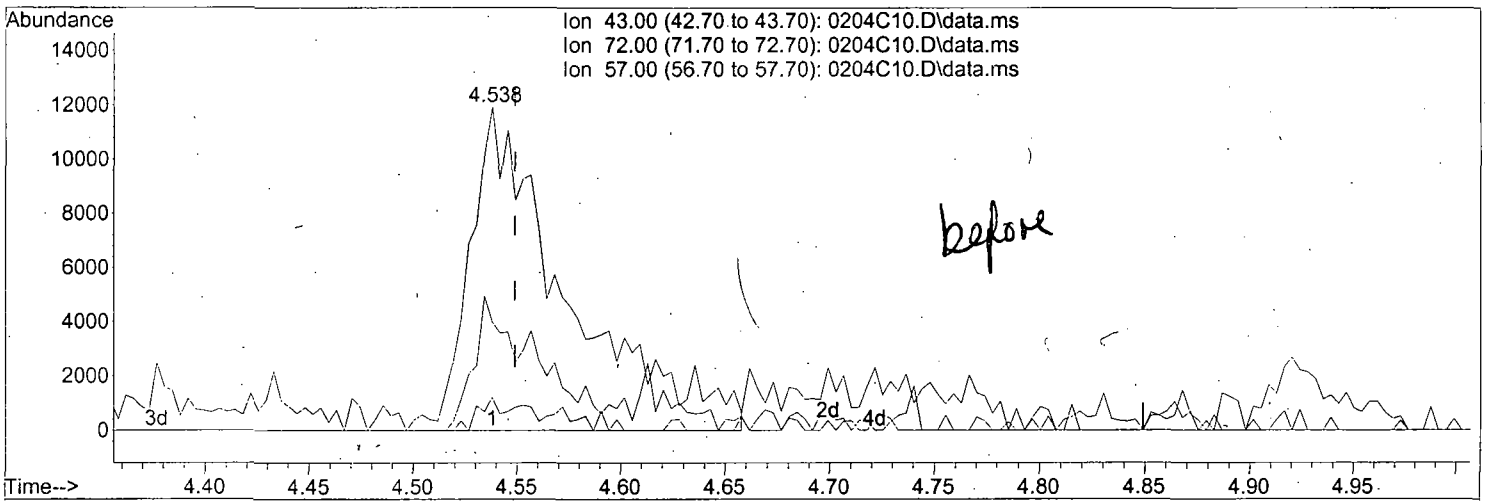
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	19.02
0.00	0.00	0.00
0.00	0.00	0.00

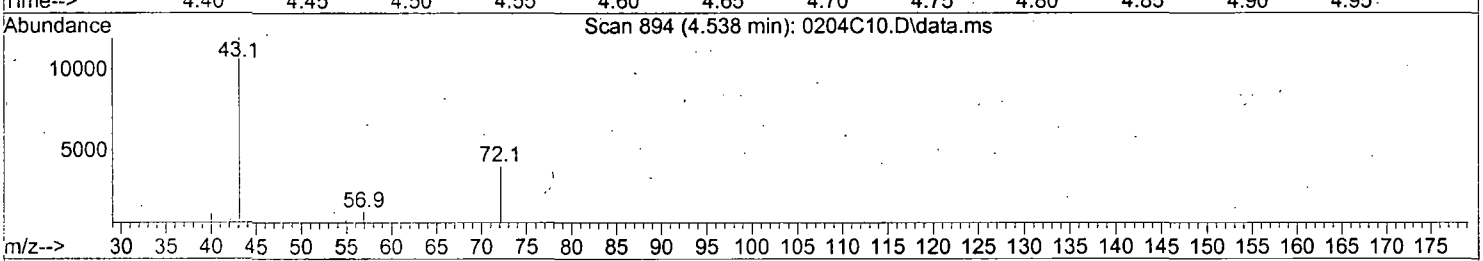
Freedom_0005792_0487

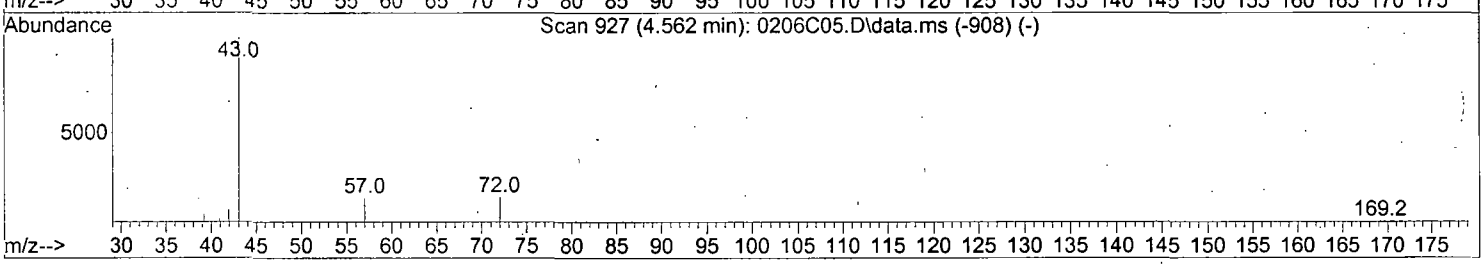
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C10.D
Acq On : 4 Feb 2014 13:54
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 14:51:17 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:53:54 2014
Response via : Initial Calibration







TIC: 0204C10.D\data.ms

(18) 2-BUTANONE (TMCP)

4.538min (-0.011) 5.81 ug/L

response 38513

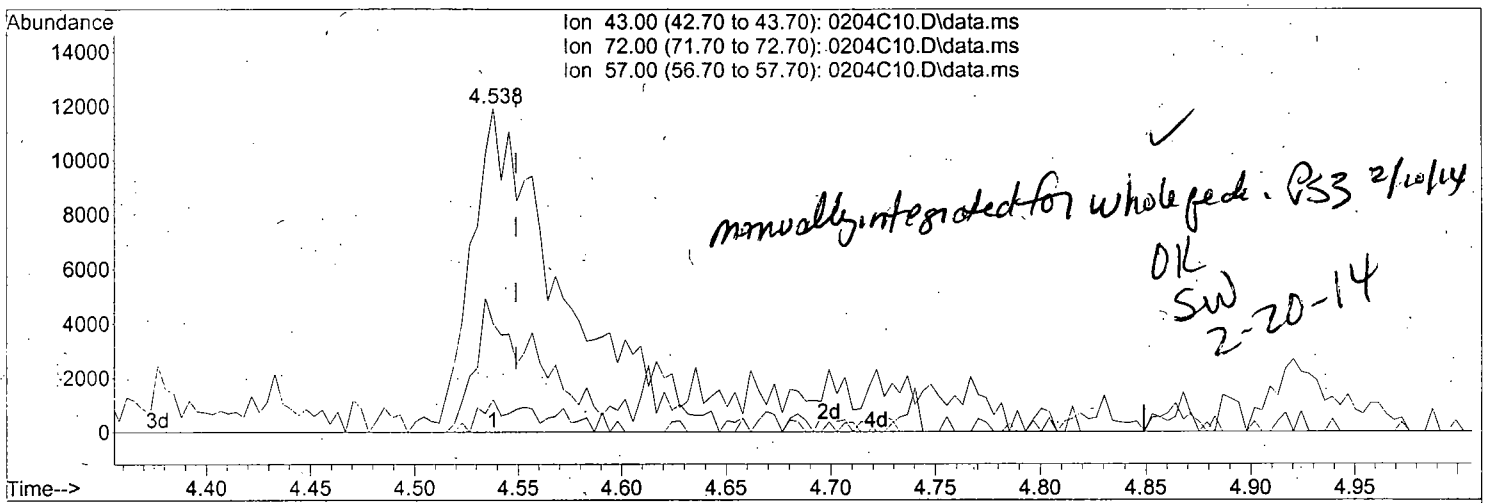
Ion	Exp%	Act%
43.00	100	100
72.00	18.60	26.47#
57.00	7.60	2.59#
0.00	0.00	0.00

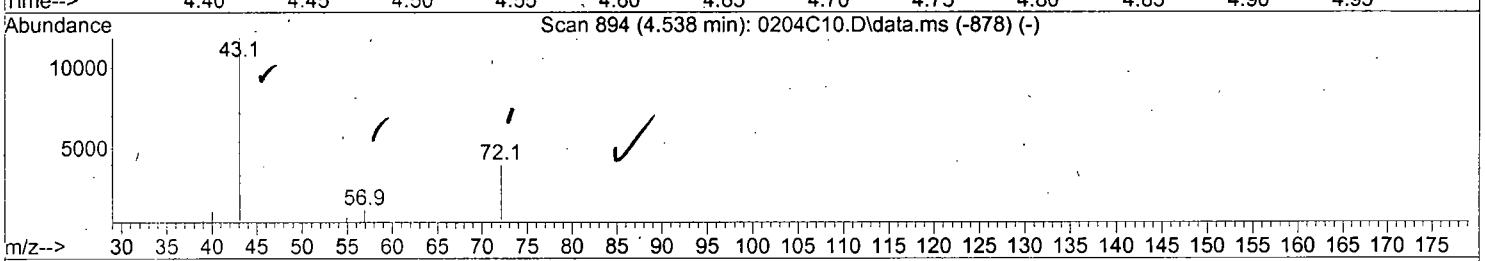
Freedom_0005792_0488

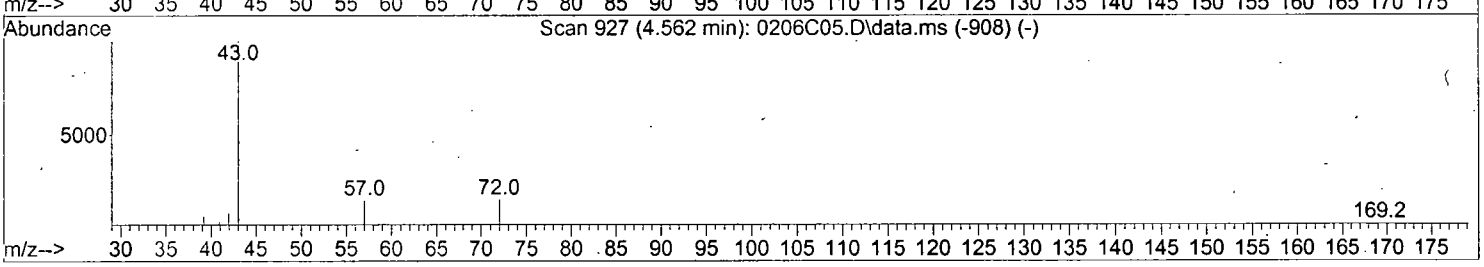
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C10.D
Acq On : 4 Feb 2014 13:54
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 14:51:17 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 13:53:54 2014
Response via : Initial Calibration







TIC: 0204C10.D\data.ms

(18) 2-BUTANONE (TMCP)

4.538min (-0.011) 7.40 ug/L m

response 49034

Ion	Exp%	Act%
43.00	100	100
72.00	18.60	20.79
57.00	7.60	2.04#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204C20.D
Acq On : 4 Feb 2014 14:23
Operator : PZ PZ1-AG5975
Sample : 20 ppb; 10uL - 100mL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 04 14:53:54 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 14:53:30 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.525	114	161311	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.334	117	153278	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	97557	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.505	65	77792	4.89	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery = 97.80%			
41) TOLUENE-d8	8.617	98	203821	5.04	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery = 100.80%			
59) 4-BROMOFLUOROBENZENE	11.646	95	100586	5.32	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery = 106.40%			
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.307	85	341339	21.75	ug/L	98
3) CHLOROMETHANE	1.416	50	168908	15.24	ug/L	98
4) VINYL CHLORIDE	1.528	62	205003	18.44	ug/L	98
5) BROMOMETHANE	1.787	94	133372	20.39	ug/L	99
6) CHLOROETHANE	1.888	64	128402	19.16	ug/L	98
7) TRICHLOROFLUOROMETHANE	2.326	101	500642	19.68	ug/L	99
8) ACETONE	2.484	43	83698m	15.39	ug/L	
9) 1,1-DICHLOROETHENE	2.799	96	147263	17.49	ug/L	95
10) METHYLENE CHLORIDE	2.979	84	234106	18.74	ug/L	91
11) Freon 113	3.057	101	237649	17.98	ug/L #	82
12) CARBON DISULFIDE	3.095	76	728910	21.48	ug/L	100
13) METHYL ACETATE	3.114	43	122997	15.33	ug/L #	86
14) TRANS-1,2-DICHLOROETHENE	3.695	96	213678	18.31	ug/L	96
15) METHYL-TERT-BUTYL ETHER	3.882	73	579754	19.94	ug/L	93
16) 1,1-DICHLOROETHANE	3.965	63	413068	17.78	ug/L	98
17) VINYL ACETATE	4.250	43	344206	18.51	ug/L #	93
18) 2-BUTANONE	4.534	43	96561	14.92	ug/L #	76
19) CIS-1,2-DICHLOROETHENE	4.617	96	243432	19.47	ug/L	95
20) BROMOCHLOROMETHANE	4.778	128	114035	18.29	ug/L	95
21) CHLOROFORM	4.864	83	468155	18.62	ug/L	99
22) 2,2-DICHLOROPROPANE	4.928	77	320226	19.77	ug/L	96
24) 1,2-DICHLOROETHANE	5.588	62	371173	17.65	ug/L	98
25) 1,1,1-TRICHLOROETHANE	5.678	97	387399	19.06	ug/L	99
26) 1,1-DICHLOROPROPENE	5.921	75	323042	19.67	ug/L	96
27) CYCLOHEXANE	5.966	56	373450	18.48	ug/L	90
28) CARBON TETRACHLORIDE	6.079	117	343866	19.51	ug/L	98
29) BENZENE	6.150	78	957686	18.56	ug/L	97
30) DIBROMOMETHANE	6.791	93	157203	18.84	ug/L #	78
31) 1,2-DICHLOROPROPANE	6.855	63	224479	17.24	ug/L	98
32) TRICHLOROETHENE	6.919	130	283789	18.31	ug/L	89
33) BROMODICHLOROMETHANE	6.967	83	351287	19.94	ug/L	99
34) METHYLCYCLOHEXANE	7.488	83	431972	21.39	ug/L	93
35) 2-CHLOROETHYLVINYL ETHER	7.608	63	135297	20.50	ug/L	89
36) CIS-1,3-DICHLOROPROPENE	7.785	75	363685	20.68	ug/L	99
38) 4-METHYL-2-PENTANONE	8.002	43	192005	15.84	ug/L #	95
39) TRANS-1,3-DICHLOROPROPENE	8.336	75	335592	21.52	ug/L	99
40) 1,1,2-TRICHLOROETHANE	8.470	97	215924	18.36	ug/L	96
42) TOLUENE	8.699	92	593535	19.16	ug/L	100
43) 1,3-DICHLOROPROPANE	8.767	76	419831	18.70	ug/L	99
44) CHLORODIBROMOMETHANE	9.014	129	238431	20.36	ug/L	100

Freedom_0005792_0490

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204C20.D
Acq On : 4 Feb 2014 14:23
Operator : PZ PZ1-AG5975
Sample : 20 ppb; 10uL - 100mL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 04 14:53:54 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 14:53:30 2014
Response via : Initial Calibration

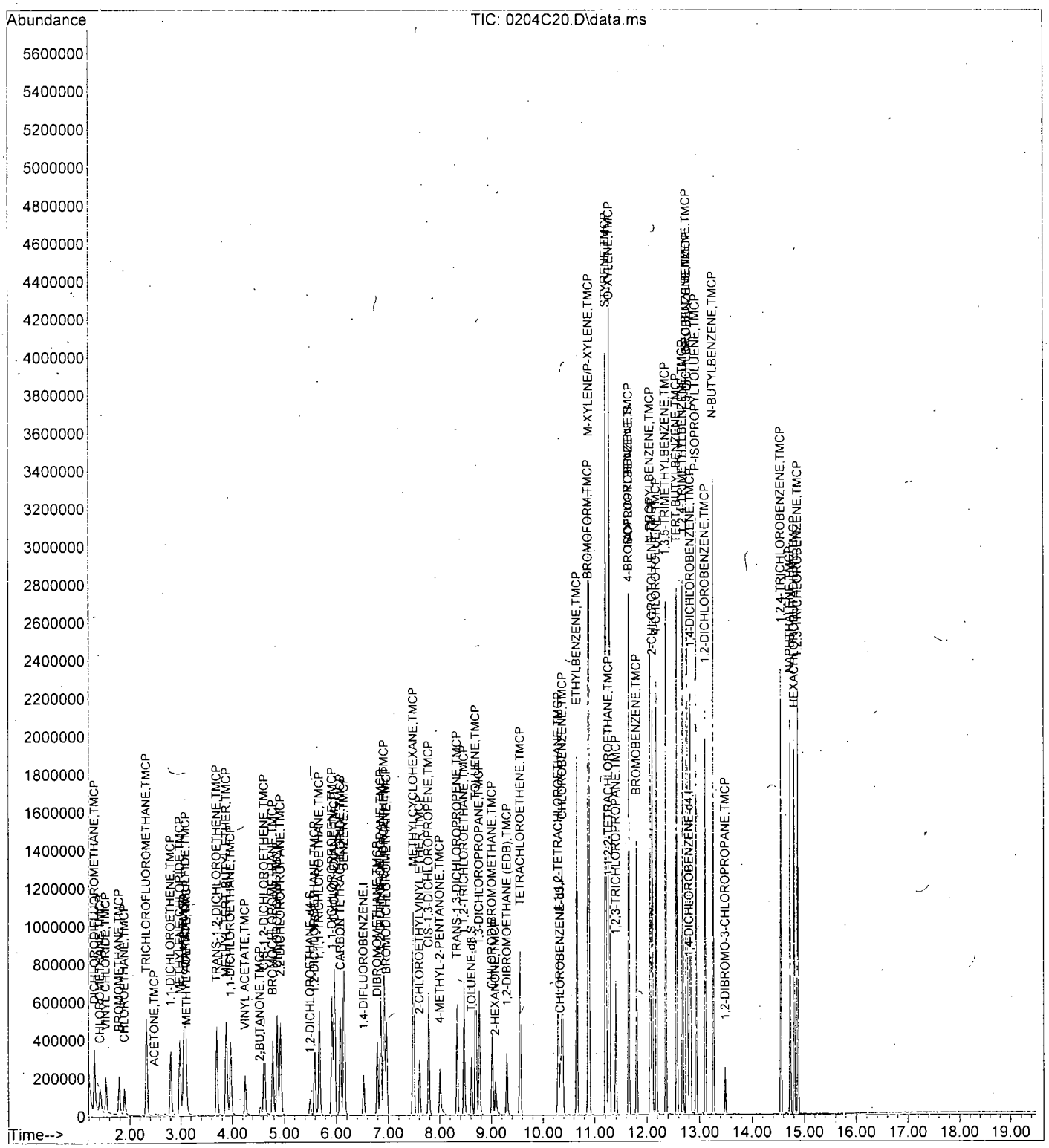
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	2-HEXANONE	9.078	43	138168	15.69	ug/L	#	96
46)	1,2-DIBROMOETHANE (EDB)	9.299	107	222825	19.50	ug/L	#	99
47)	TETRACHLOROETHENE	9.558	164	194516	17.75	ug/L		95
48)	1,1,1,2-TETRACHLOROETHANE	10.296	131	214486	19.49	ug/L		99
49)	CHLOROBENZENE	10.375	112	647490	19.72	ug/L		93
50)	ETHYLBENZENE	10.656	91	1231713	21.11	ug/L		96
51)	BROMOFORM	10.877	173	155821	19.96	ug/L		96
52)	M-XYLENE/P-XYLENE	10.888	106	930068	42.30	ug/L		87
53)	STYRENE	11.211	104	1617247	45.24	ug/L		97
54)	O-XYLENE	11.278	106	1017631	43.91	ug/L		89
55)	ISOPROPYLBENZENE	11.649	105	1306560	21.45	ug/L		94
57)	1,1,2,2-TETRACHLOROETHANE	11.259	83	175325	18.01	ug/L		99
58)	1,2,3-TRICHLOROPROPANE	11.402	75	261256	18.80	ug/L		99
60)	BROMOBENZENE	11.799	156	297261	19.39	ug/L	#	81
61)	N-PROPYLBENZENE	12.062	91	1729868	22.41	ug/L		95
62)	2-CHLOROTOLUENE	12.103	91	988853	20.64	ug/L		90
63)	4-CHLOROTOLUENE	12.182	91	1072565	21.54	ug/L		90
64)	1,3,5-TRIMETHYLBENZENE	12.362	105	1145105	21.76	ug/L		92
65)	TERT-BUTYLBENZENE	12.568	119	978027	23.12	ug/L		89
66)	1,2,4-TRIMETHYLBENZENE	12.684	105	1197069	22.12	ug/L		95
67)	SEC-BUTYLBENZENE	12.755	105	1617287	22.43	ug/L		94
68)	1,3-DICHLOROBENZENE	12.766	146	641081	19.56	ug/L		96
69)	1,4-DICHLOROBENZENE	12.830	146	641964	18.38	ug/L		96
70)	P-ISOPROPYLTOLUENE	12.935	119	1294928	22.73	ug/L		96
71)	1,2-DICHLOROBENZENE	13.111	146	603216	19.34	ug/L		96
72)	N-BUTYLBENZENE	13.265	91	1434002	23.54	ug/L		97
73)	1,2-DIBROMO-3-CHLOROPR...	13.490	75	52191	21.22	ug/L	#	74
74)	1,2,4-TRICHLOROBENZENE	14.555	180	489771	20.88	ug/L	#	94
75)	NAPHTHALENE	14.731	128	1096877	23.60	ug/L		99
76)	HEXACHLOROBUTADIENE	14.809	225	292064	21.07	ug/L	#	84
77)	1,2,3-TRICHLOROBENZENE	14.881	180	485803	20.85	ug/L	#	96

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

Freedom_0005792_0491

Data Path : D:\DATA\L02042014\
Data File : 0204C20.D
Acq On : 4 Feb 2014 14:23
Operator : PZ PZ1-AG5975
Sample : 20 ppb; 10uL - 100mL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 04 14:53:54 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 14:53:30 2014
Response via : Initial Calibration

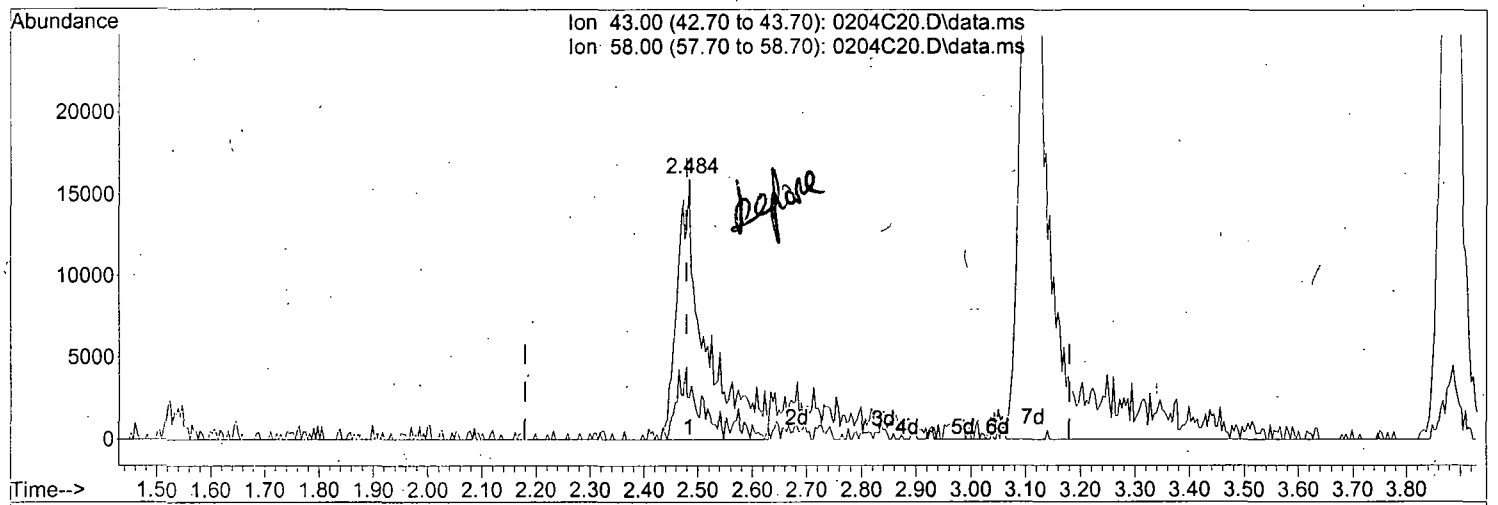


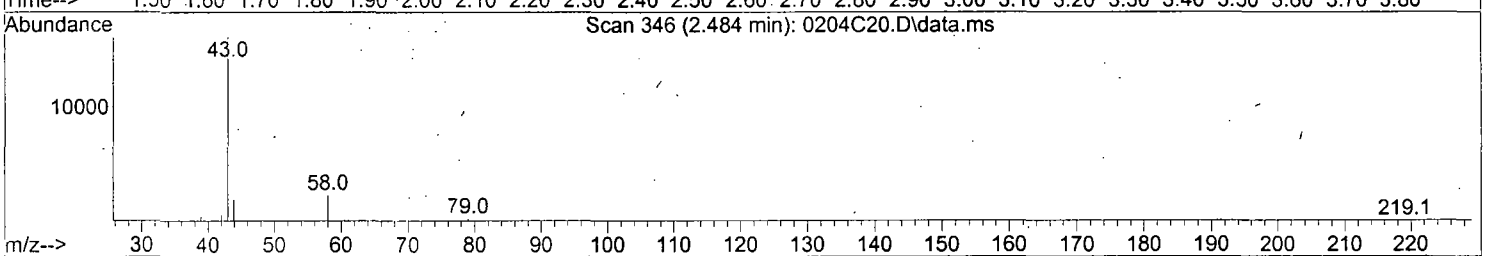
Freedom_0005792_0492

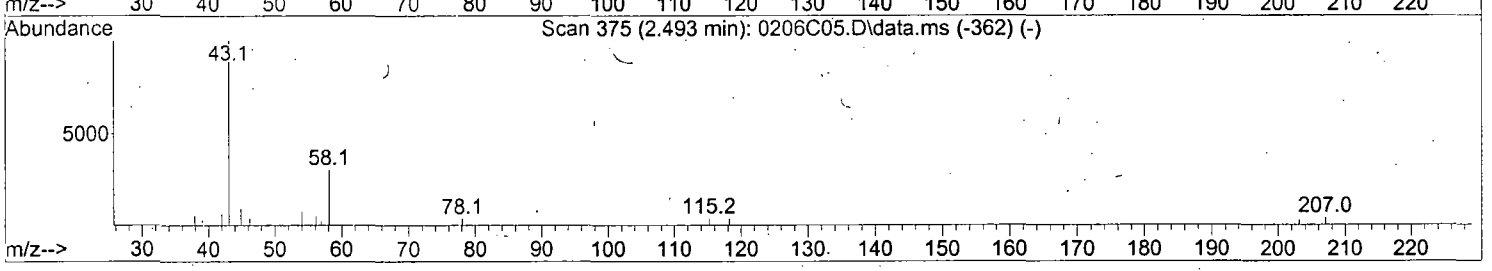
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C20.D
Acq On : 4 Feb 2014 14:23
Operator : PZ PZ1-AG5975
Sample : 20 ppb; 10uL - 100mL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 04 14:53:38 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 14:53:30 2014
Response via : Initial Calibration







TIC: 0204C20.D\data.ms

(8) ACETONE (TMCP)

2.484min (+0.004) 10.63 ug/L

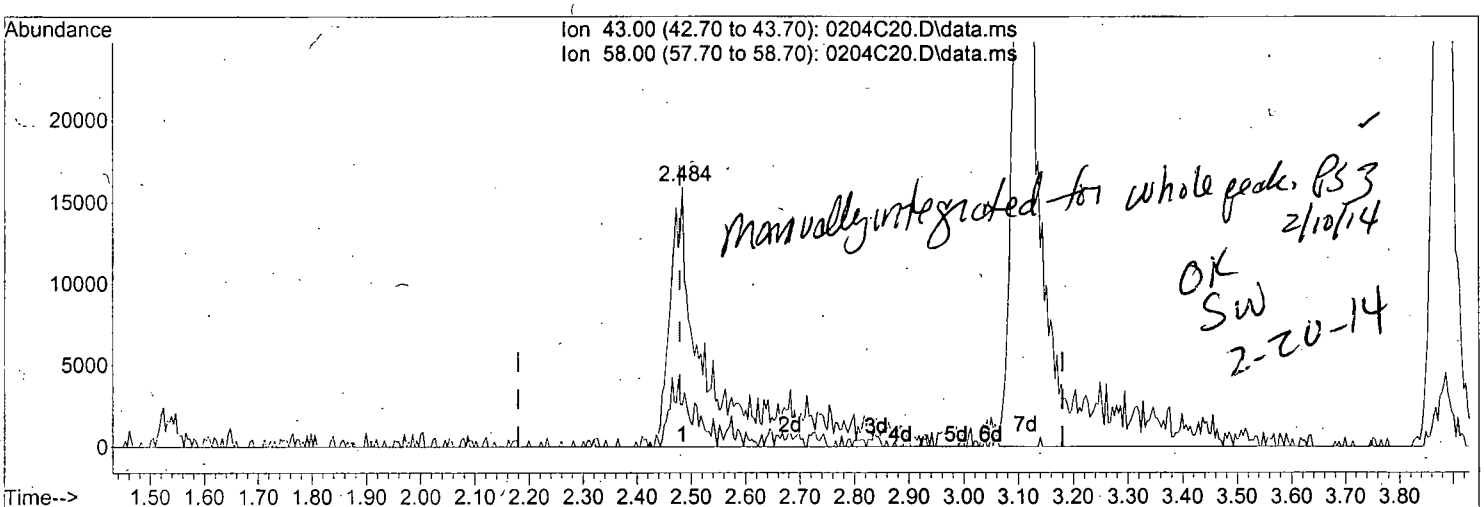
response 57826

Ion	Exp%	Act%
43.00	100	100
58.00	28.10	7.61#
0.00	0.00	0.00
0.00	0.00	0.00

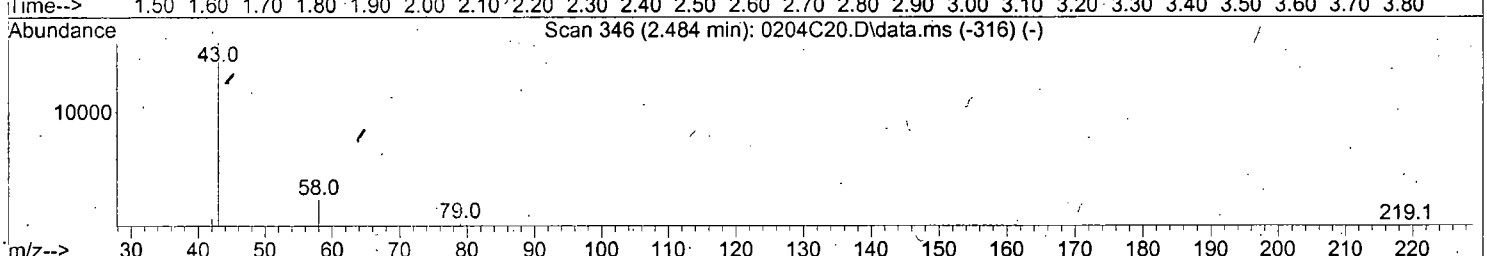
Quantitation Report (Qedit)

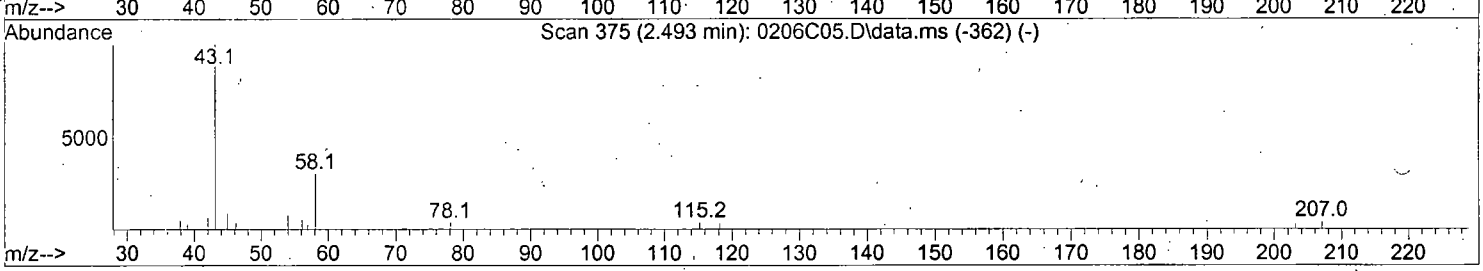
Data Path : D:\DATA\L02042014\
Data File : 0204C20.D
Acq On : 4 Feb 2014 14:23
Operator : PZ PZ1-AG5975
Sample : 20 ppb; 10uL - 100mL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 04 14:53:38 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 14:53:30 2014
Response via : Initial Calibration



manually integrated for whole peak. BS 2/10/14
OK SW 2-20-14





TIC: 0204C20.D\data.ms

(8) ACETONE (TMCP)

2.484min (+0.004) 15.39 ug/L m

response 83698

Ion	Exp%	Act%
43.00	100	100
58.00	28.10	5.26#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204C50.D
Acq On : 4 Feb 2014 14:51
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 04 15:22:42 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 14:54:42 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-DIFLUOROBENZENE	6.532	114	172580	5.00	ug/L		0.00
37) CHLOROBENZENE-d5	10.337	117	164269	5.00	ug/L		0.00
56) 1,4-DICHLOROBENZENE-d4	12.811	152	108187	5.00	ug/L		0.00
System Monitoring Compounds							
23) 1,2-DICHLOROETHANE-d4	5.509	65	78807	4.65	ug/L		0.00
Spiked Amount 5.000	Range 76 - 114		Recovery = 93.00%				
41) TOLUENE-d8	8.620	98	224561	5.19	ug/L		0.00
Spiked Amount 5.000	Range 88 - 110		Recovery = 103.80%				
59) 4-BROMOFLUOROBENZENE	11.645	95	113308	5.34	ug/L		0.00
Spiked Amount 5.000	Range 86 - 115		Recovery = 106.80%				
Target Compounds							Qvalue
2) DICHLORODIFLUOROMETHANE	1.303	85	879947	50.77	ug/L		100
3) CHLOROMETHANE	1.423	50	474178	44.85	ug/L		98
4) VINYL CHLORIDE	1.532	62	559163	48.18	ug/L		99
5) BROMOMETHANE	1.783	94	379294	52.96	ug/L		98
6) CHLOROETHANE	1.895	64	344509	48.56	ug/L		96
7) TRICHLOROFLUOROMETHANE	2.330	101	1362912	49.44	ug/L		99
8) ACETONE	2.506	43	208010	42.54	ug/L	#	61
9) 1,1-DICHLOROETHENE	2.802	96	430512	48.38	ug/L		93
10) METHYLENE CHLORIDE	2.982	84	534018	40.17	ug/L		87
11) Freon 113	3.061	101	619999	44.16	ug/L	#	83
12) CARBON DISULFIDE	3.095	76	1768610	48.13	ug/L		98
13) METHYL ACETATE	3.121	43	407591m	52.71	ug/L		
14) TRANS-1,2-DICHLOROETHENE	3.698	96	617412	50.50	ug/L		97
15) METHYL-TERT-BUTYL ETHER	3.882	73	1779582	57.22	ug/L	#	92
16) 1,1-DICHLOROETHANE	3.972	63	1193445	49.43	ug/L		98
17) VINYL ACETATE	4.253	43	1024591	55.63	ug/L	#	94
18) 2-BUTANONE	4.545	43	258023m	42.08	ug/L		
19) CIS-1,2-DICHLOROETHENE	4.617	96	722217	54.68	ug/L		94
20) BROMOCHLOROMETHANE	4.778	128	314062	47.86	ug/L		94
21) CHLOROFORM	4.864	83	1346073	50.29	ug/L		99
22) 2,2-DICHLOROPROPANE	4.928	77	1002149	57.96	ug/L		97
24) 1,2-DICHLOROETHANE	5.588	62	1083517	49.85	ug/L		100
25) 1,1,1-TRICHLOROETHANE	5.678	97	1139054	52.82	ug/L		98
26) 1,1-DICHLOROPROPENE	5.921	75	999380	58.34	ug/L		95
27) CYCLOHEXANE	5.966	56	1040877	51.03	ug/L		85
28) CARBON TETRACHLORIDE	6.079	117	1035700	55.41	ug/L		97
29) BENZENE	6.150	78	2804189	51.47	ug/L		98
30) DIBROMOMETHANE	6.787	93	450147	50.79	ug/L	#	80
31) 1,2-DICHLOROPROPANE	6.858	63	666338	49.54	ug/L		99
32) TRICHLOROETHENE	6.922	130	848090	52.22	ug/L	#	88
33) BROMODICHLOROMETHANE	6.971	83	1078454	57.61	ug/L		100
34) METHYLCYCLOHEXANE	7.484	83	1284602	59.53	ug/L		92
35) 2-CHLOROETHYLVINYL ETHER	7.616	63	4525	0.65	ug/L	#	92
36) CIS-1,3-DICHLOROPROPENE	7.784	75	1146332	62.23	ug/L		100
38) 4-METHYL-2-PENTANONE	8.002	43	556242	47.42	ug/L		92
39) TRANS-1,3-DICHLOROPROPENE	8.335	75	1081698	64.95	ug/L		100
40) 1,1,2-TRICHLOROETHANE	8.474	97	635975	50.97	ug/L		97
42) TOLUENE	8.703	92	1774098	54.01	ug/L		100
43) 1,3-DICHLOROPROPANE	8.770	76	1235477	52.06	ug/L		99
44) CHLORODIBROMOMETHANE	9.018	129	735133	58.51	ug/L		96

Freedom_0005792_0495

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204C50.D
Acq On : 4 Feb 2014 14:51
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 04 15:22:42 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 14:54:42 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 2-HEXANONE	9.081	43	422782	50.85	ug/L		95
46) 1,2-DIBROMOETHANE (EDB)	9.299	107	667791	55.25	ug/L		98
47) TETRACHLOROETHENE	9.554	164	583362	50.54	ug/L		96
48) 1,1,1,2-TETRACHLOROETHANE	10.296	131	681007	58.83	ug/L		97
49) CHLOROBENZENE	10.375	112	1933324	54.76	ug/L		94
50) ETHYLBENZENE	10.656	91	3774795	60.76	ug/L		95
51) BROMOFORM	10.873	173	517991	62.98	ug/L		97
52) M-XYLENE/P-XYLENE	10.888	106	2789306	118.89	ug/L		84
53) STYRENE	11.211	104	4854651	126.10	ug/L		96
54) O-XYLENE	11.282	106	2898267	115.14	ug/L		85
55) ISOPROPYLBENZENE	11.649	105	4104591	62.38	ug/L		93
57) 1,1,2,2-TETRACHLOROETHANE	11.263	83	466271	43.75	ug/L		99
58) 1,2,3-TRICHLOROPROPANE	11.402	75	786519	51.51	ug/L		99
60) BROMOBENZENE	11.803	156	892133	53.25	ug/L	#	78
61) N-PROPYLBENZENE	12.065	91	5394466	61.90	ug/L		93
62) 2-CHLOROTOLUENE	12.106	91	3028636	56.52	ug/L		89
63) 4-CHLOROTOLUENE	12.181	91	3302006	58.83	ug/L		90
64) 1,3,5-TRIMETHYLBENZENE	12.361	105	3600720	62.55	ug/L		93
65) TERT-BUTYLBENZENE	12.568	119	3036702	63.93	ug/L		88
66) 1,2,4-TRIMETHYLBENZENE	12.684	105	3818863	64.13	ug/L		93
67) SEC-BUTYLBENZENE	12.759	105	5068409	62.72	ug/L		94
68) 1,3-DICHLOROBENZENE	12.770	146	1925521	53.02	ug/L		97
69) 1,4-DICHLOROBENZENE	12.830	146	1958736	51.37	ug/L		97
70) P-ISOPROPYLTOLUENE	12.935	119	4175664	65.75	ug/L		96
71) 1,2-DICHLOROBENZENE	13.111	146	1872403	54.48	ug/L		96
72) N-BUTYLBENZENE	13.265	91	4574811	67.88	ug/L		96
73) 1,2-DIBROMO-3-CHLOROPR...	13.490	75	180456	67.08	ug/L	#	81
74) 1,2,4-TRICHLOROBENZENE	14.554	180	1610372	62.87	ug/L	#	95
75) NAPHTHALENE	14.730	128	3716295	73.11	ug/L		99
76) HEXACHLOROBUTADIENE	14.809	225	975152	64.90	ug/L	#	86
77) 1,2,3-TRICHLOROBENZENE	14.880	180	1579490	61.90	ug/L	#	97

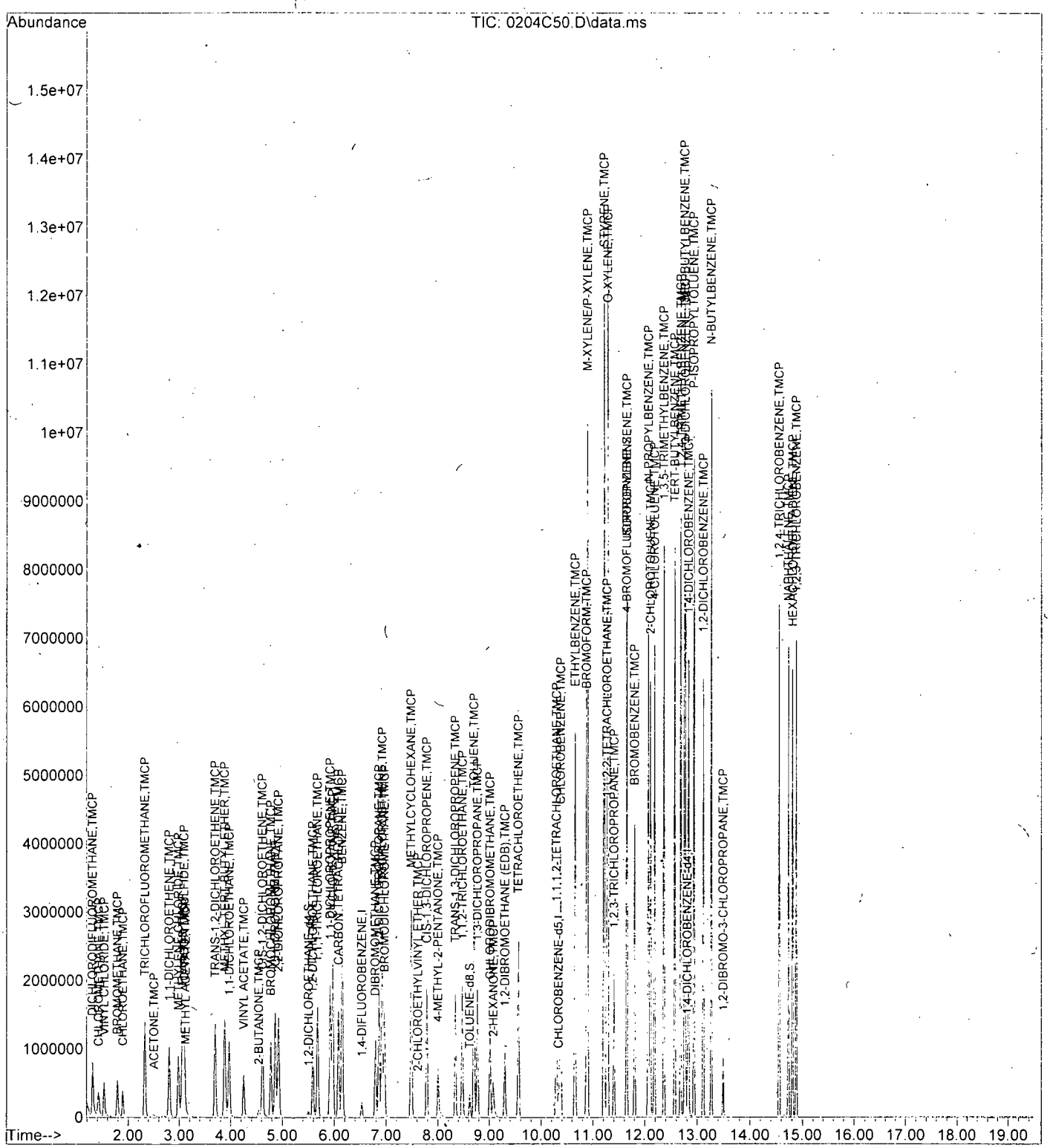
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0496

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204C50.D
Acq On : 4 Feb 2014 14:51
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 04 15:22:42 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 14:54:42 2014
Response via : Initial Calibration

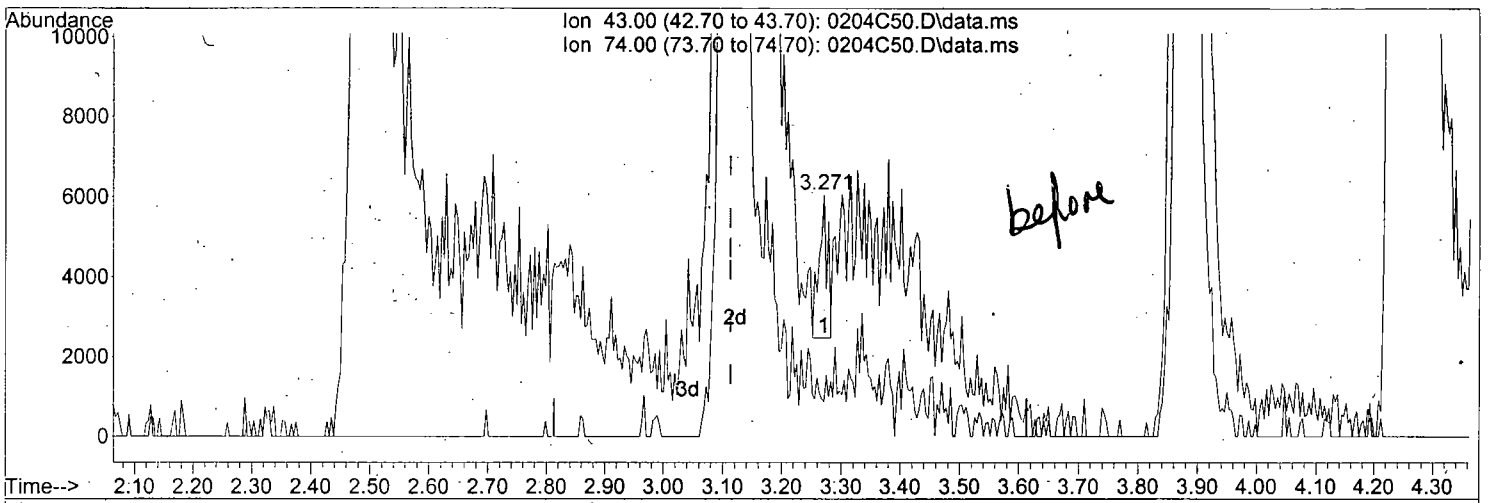


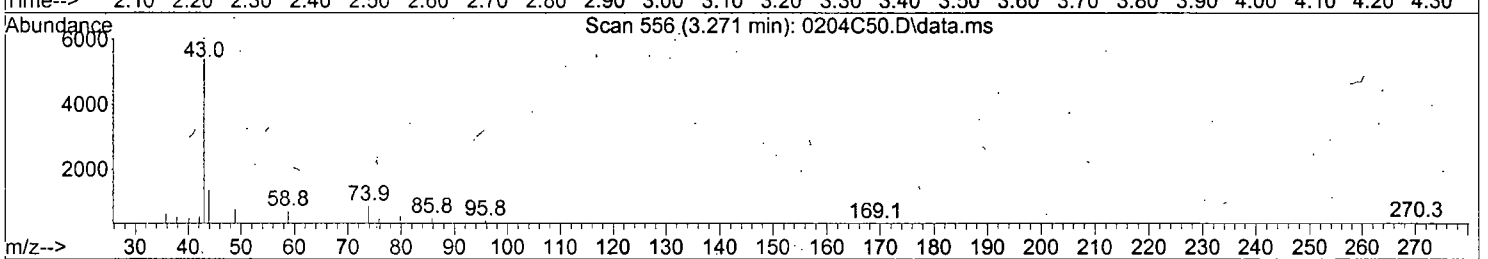
Freedom_0005792_0497

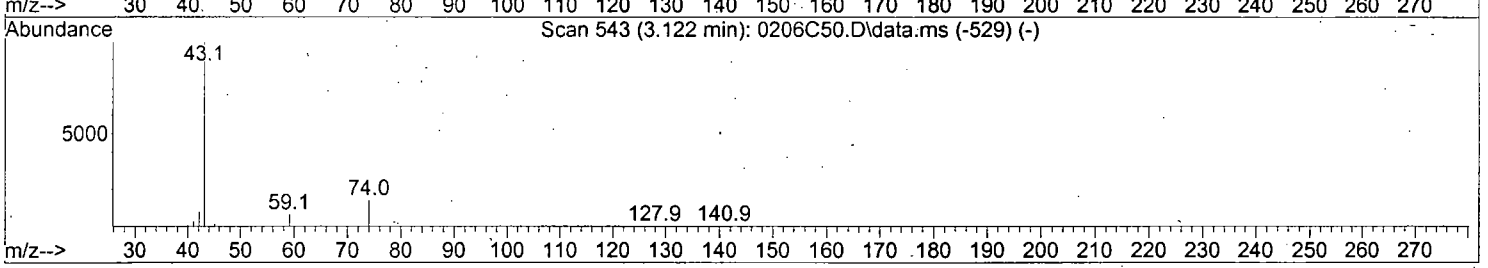
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C50.D
Acq On : 4 Feb 2014 14:51
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 04 15:21:49 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 14:54:42 2014
Response via : Initial Calibration







TIC: 0204C50.D\data.ms

(13) METHYL ACETATE (TMCP)

3.271min (+0.157) 0.45 ug/L

response 3474

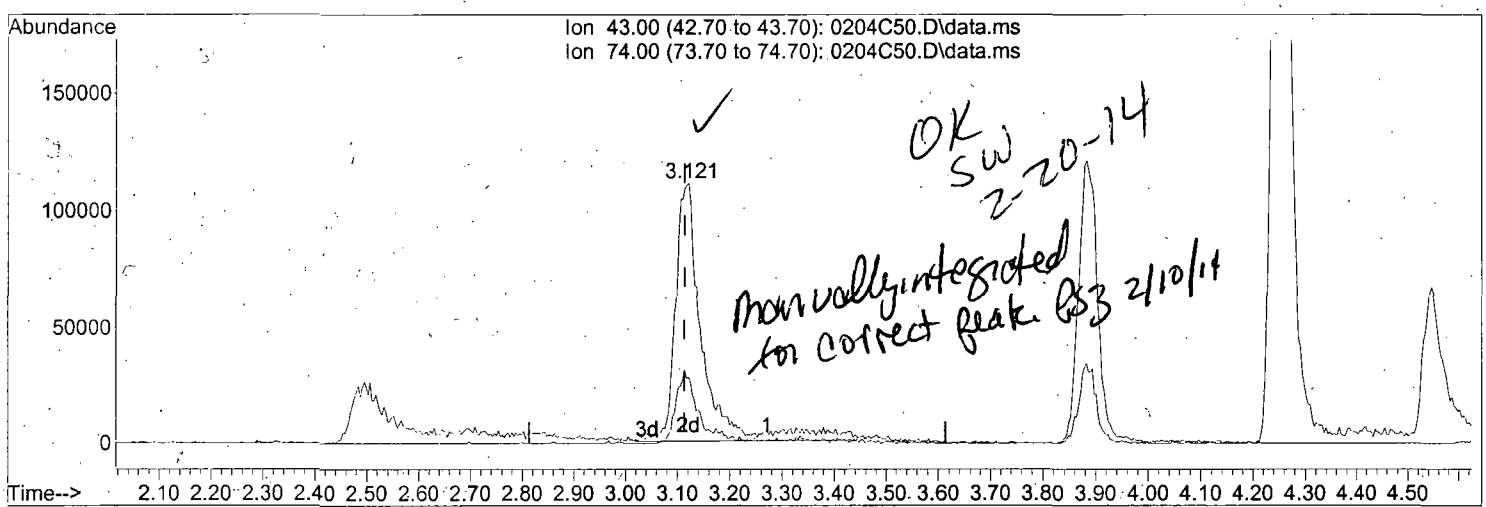
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	19.29
0.00	0.00	0.00
0.00	0.00	0.00

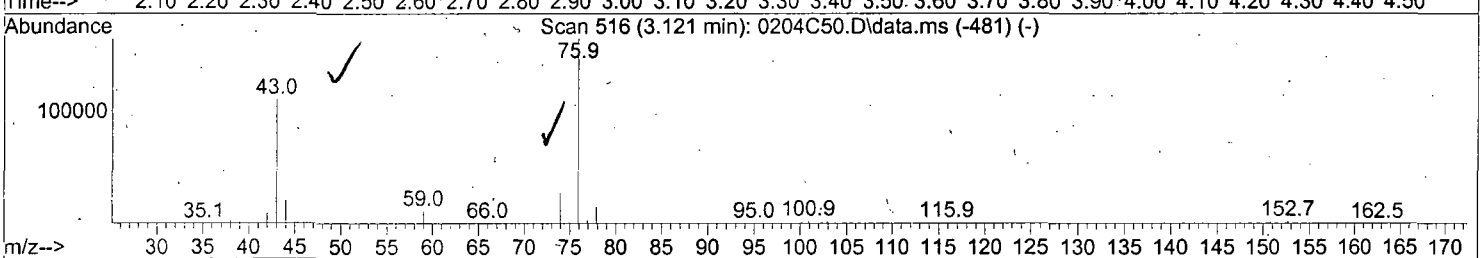
Freedom_0005792_0498

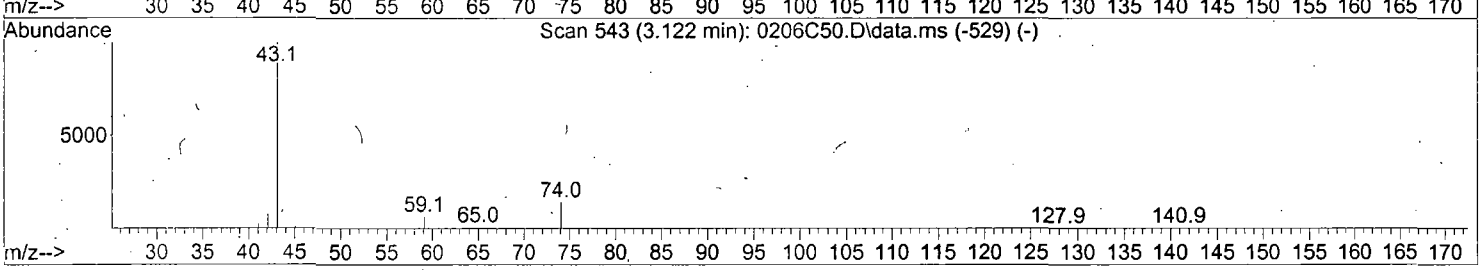
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C50.D
Acq On : 4 Feb 2014 14:51
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 04 15:21:49 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 14:54:42 2014
Response via : Initial Calibration







TIC: 0204C50.D\data.ms

(13) METHYL ACETATE (TMCP)

3.121min (+0.007) 52.71 ug/L m

response 407591

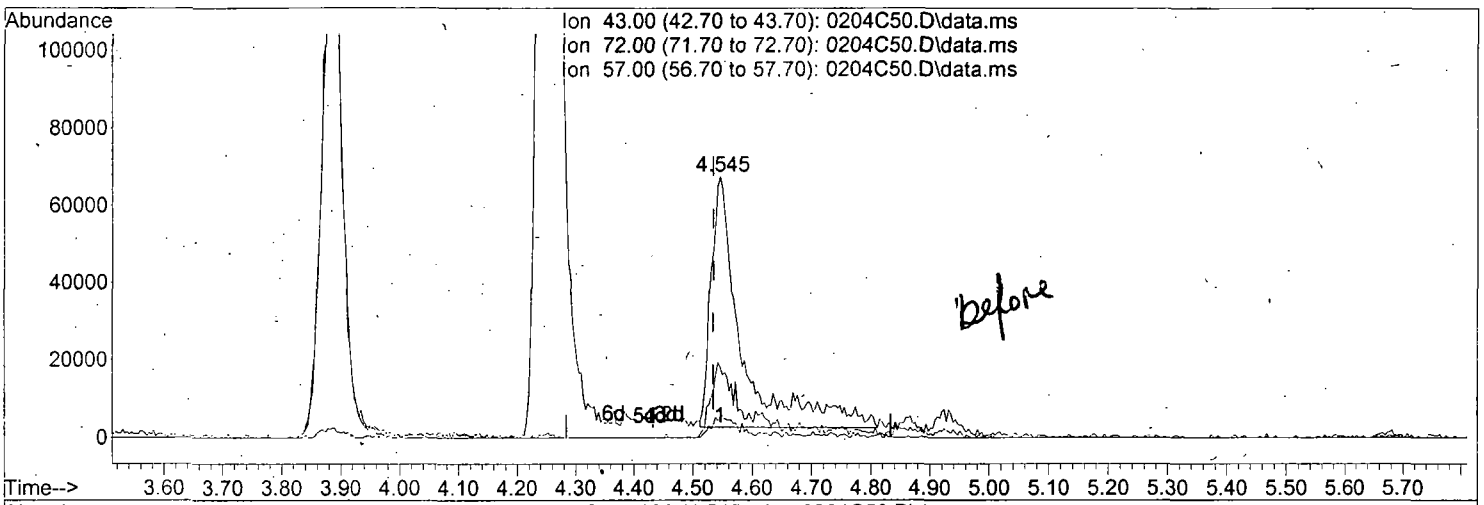
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.16#
0.00	0.00	0.00
0.00	0.00	0.00

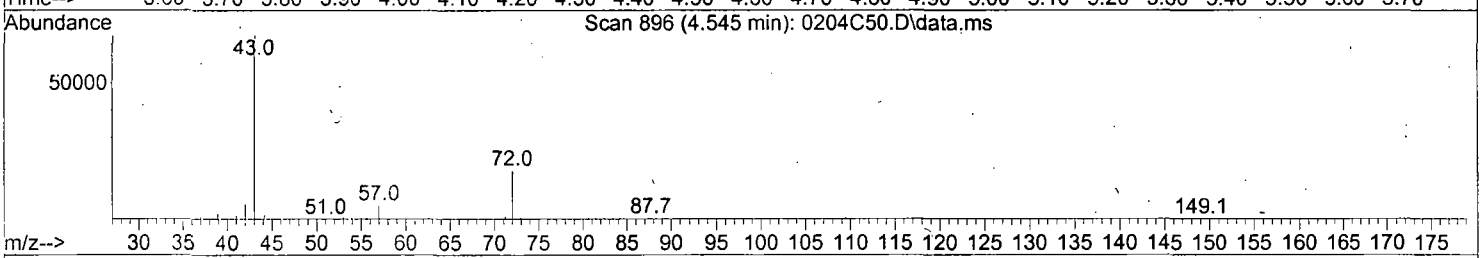
Freedom_0005792_0499

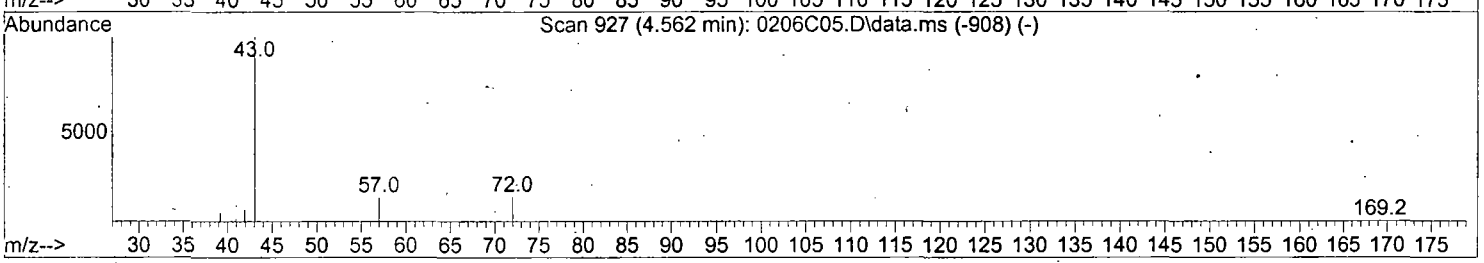
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C50.D
Acq On : 4 Feb 2014 14:51
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 04 15:21:49 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 14:54:42 2014
Response via : Initial Calibration







TIC: 0204C50.D\data.ms

(18) 2-BUTANONE (TMCP)

4.545min (+0.011) 38.26 ug/L

response 234576

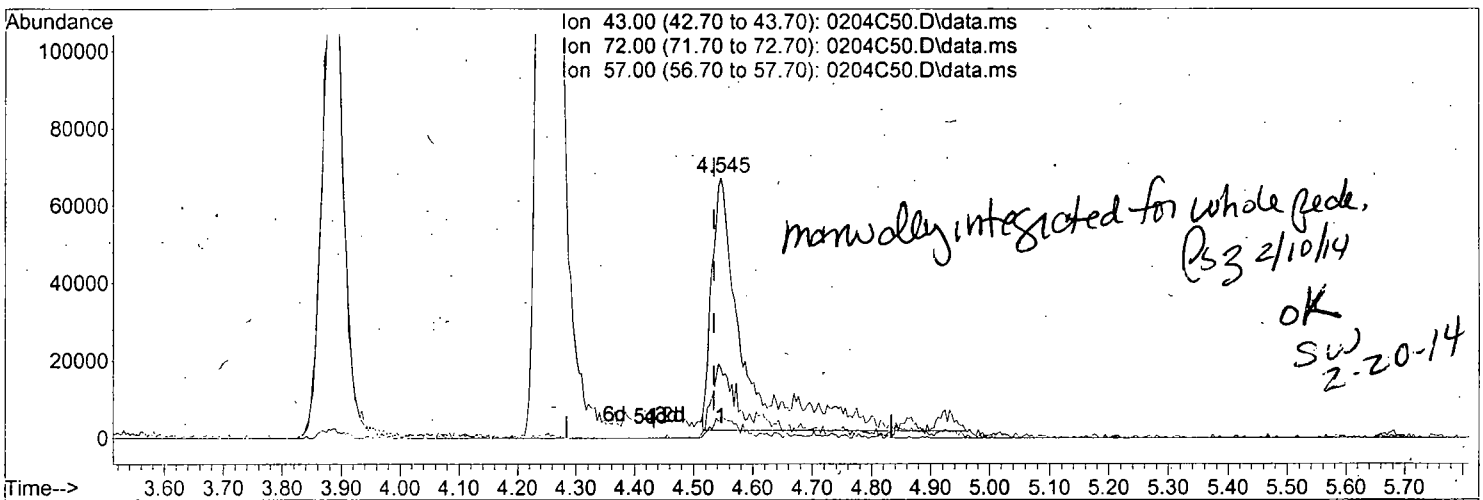
Ion	Exp%	Act%
43.00	100	100
72.00	18.60	21.47
57.00	7.60	5.95#
0.00	0.00	0.00

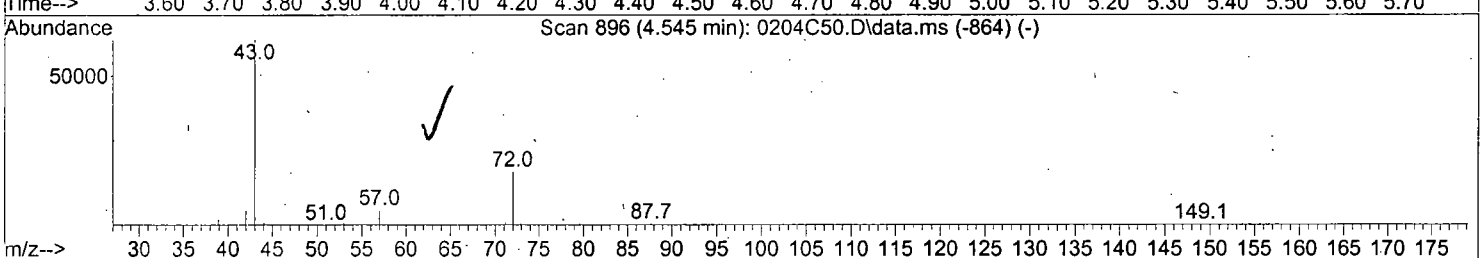
Freedom_0005792_0500

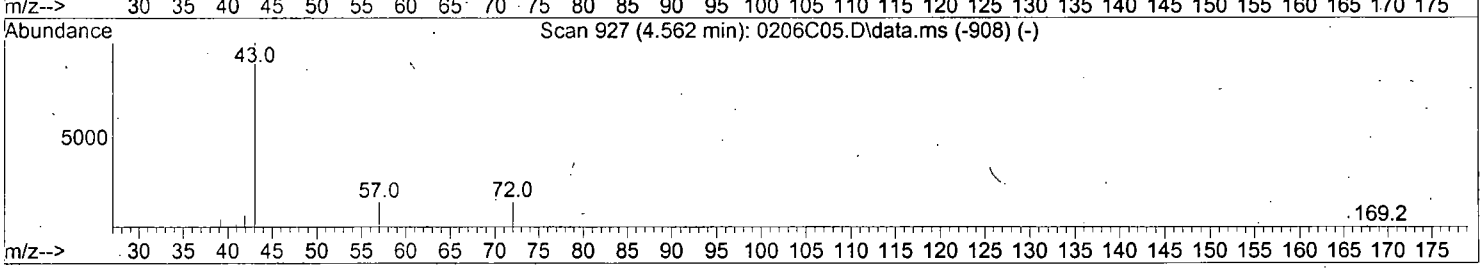
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C50.D
Acq On : 4 Feb 2014 14:51
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 04 15:21:49 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 14:54:42 2014
Response via : Initial Calibration







TIC: 0204C50.D\data.ms

(18) 2-BUTANONE (TMCP)

4.545min (+0.011) 42.08 ug/L m

response 258023

Ion	Exp%	Act%
43.00	100	100
72.00	18.60	19.52
57.00	7.60	5.41#
0.00	0.00	0.00

Freedom_0005792_0501

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

for reference only
The 0.5ppb Std was run in duplicate.

Quant Time: Feb 04 13:18:12 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.529	114	145366	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	142085	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.804	152	76050	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.494	65	72185	4.74	ug/L	-0.02
Spiked Amount 5.000	Range 76 - 114		Recovery = 94.80%			
41) TOLUENE-d8	8.620	98	168048	4.59	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery = 91.80%			
59) 4-BROMOFLUOROBENZENE	11.646	95	73643	5.16	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery = 103.20%			
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.299	85	6951m	0.49	ug/L	
3) CHLOROMETHANE	1.423	50	4169	0.26	ug/L	91
4) VINYL CHLORIDE	1.532	62	4847m	0.41	ug/L	
5) BROMOMETHANE	1.768	94	3173	0.54	ug/L	95
6) CHLOROETHANE	1.888	64	3349	0.49	ug/L #	43
7) TRICHLOROFLUOROMETHANE	2.334	101	12183	0.52	ug/L	95
8) ACETONE	3.106	43	1686	0.24	ug/L #	47
9) 1,1-DICHLOROETHENE	2.799	96	3973	0.52	ug/L #	92
10) METHYLENE CHLORIDE	2.986	84	5812m	0.49	ug/L	
11) Freon 113	3.050	101	5986	0.48	ug/L #	28
12) CARBON DISULFIDE	3.087	76	13868	0.42	ug/L #	89
13) METHYL ACETATE	3.106	43	2189m	0.20	ug/L	
14) TRANS-1,2-DICHLOROETHENE	3.695	96	4744	0.42	ug/L #	78
15) METHYL-TERT-BUTYL ETHER	3.886	73	11970	0.45	ug/L #	87
16) 1,1-DICHLOROETHANE	3.965	63	9959	0.42	ug/L #	90
17) VINYL ACETATE	4.261	43	5513	0.24	ug/L #	77
19) CIS-1,2-DICHLOROETHENE	4.621	96	4924	0.42	ug/L #	87
20) BROMOCHLOROMETHANE	4.789	128	2860	0.50	ug/L	86
21) CHLOROFORM	4.864	83	11366	0.50	ug/L	96
22) 2,2-DICHLOROPROPANE	4.932	77	7566	0.53	ug/L #	58
24) 1,2-DICHLOROETHANE	5.588	62	8220	0.37	ug/L #	91
25) 1,1,1-TRICHLOROETHANE	5.681	97	8669m	0.48	ug/L	
26) 1,1-DICHLOROPROPENE	5.918	75	5643	0.36	ug/L #	78
27) CYCLOHEXANE	5.959	56	6616m	0.30	ug/L	
28) CARBON TETRACHLORIDE	6.083	117	6513	0.39	ug/L #	84
29) BENZENE	6.154	78	22186	0.46	ug/L #	67
30) DIBROMOMETHANE	6.784	93	3390	0.43	ug/L #	79
31) 1,2-DICHLOROPROPANE	6.851	63	5771	0.44	ug/L #	75
32) TRICHLOROETHENE	6.922	130	6926	0.47	ug/L #	88
33) BROMODICHLOROMETHANE	6.967	83	6384	0.40	ug/L #	74
34) METHYLCYCLOHEXANE	7.485	83	6463	0.35	ug/L #	74
36) CIS-1,3-DICHLOROPROPENE	7.781	75	5555	0.34	ug/L #	74
38) 4-METHYL-2-PENTANONE	8.024	43	2098	0.15	ug/L #	84
39) TRANS-1,3-DICHLOROPROPENE	8.332	75	4669m	0.33	ug/L	
40) 1,1,2-TRICHLOROETHANE	8.463	97	5328	0.49	ug/L #	85
42) TOLUENE	8.707	92	12954m	0.45	ug/L	
43) 1,3-DICHLOROPROPANE	8.774	76	10055	0.46	ug/L	94
44) CHLORODIBROMOMETHANE	9.010	129	4412	0.42	ug/L #	67
46) 1,2-DIBROMOETHANE (EDB)	9.299	107	3793	0.34	ug/L #	62
47) TETRACHLOROETHENE	9.550	164	5031m	0.48	ug/L	

Freedom_0005792_0502

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 13:18:12 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	1,1,1,2-TETRACHLOROETHANE	10.288	131	4049m	0.37	ug/L		
49)	CHLOROBENZENE	10.371	112	12855	0.42	ug/L	#	83
50)	ETHYLBENZENE	10.652	91	19669	0.37	ug/L		97
51)	BROMOFORM	10.873	173	3089m	0.41	ug/L		
52)	M-XYLENE/P-XYLENE	10.885	106	14956	0.76	ug/L		97
53)	STYRENE	11.207	104	22223	0.66	ug/L		95
54)	O-XYLENE	11.282	106	15499	0.73	ug/L		79
55)	ISOPROPYLBENZENE	11.649	105	21265	0.41	ug/L		96
57)	1,1,2,2-TETRACHLOROETHANE	11.259	83	3776	0.44	ug/L	#	93
58)	1,2,3-TRICHLOROPROPANE	11.398	75	5454	0.48	ug/L		96
60)	BROMOBENZENE	11.807	156	5734	0.45	ug/L	#	77
61)	N-PROPYLBENZENE	12.062	91	24916	0.46	ug/L	#	90
62)	2-CHLOROTOLUENE	12.110	91	16114	0.46	ug/L		94
63)	4-CHLOROTOLUENE	12.182	91	16585	0.46	ug/L		99
64)	1,3,5-TRIMETHYLBENZENE	12.361	105	13491	0.32	ug/L		100
65)	TERT-BUTYLBENZENE	12.571	119	11882	0.38	ug/L		84
66)	1,2,4-TRIMETHYLBENZENE	12.680	105	13785	0.32	ug/L		94
67)	SEC-BUTYLBENZENE	12.755	105	20303	0.38	ug/L	#	86
68)	1,3-DICHLOROBENZENE	12.766	146	11745	0.46	ug/L		96
69)	1,4-DICHLOROBENZENE	12.830	146	13966	0.50	ug/L		98
70)	P-ISOPROPYLTOLUENE	12.939	119	15663	0.36	ug/L	#	92
71)	1,2-DICHLOROBENZENE	13.111	146	11594	0.48	ug/L		97
72)	N-BUTYLBENZENE	13.269	91	14459	0.31	ug/L		91
74)	1,2,4-TRICHLOROBENZENE	14.554	180	7997	0.43	ug/L	#	93
75)	NAPHTHALENE	14.727	128	11032	0.30	ug/L		96
76)	HEXACHLOROBUTADIENE	14.809	225	3848	0.33	ug/L	#	70
77)	1,2,3-TRICHLOROBENZENE	14.877	180	7407	0.40	ug/L	#	95

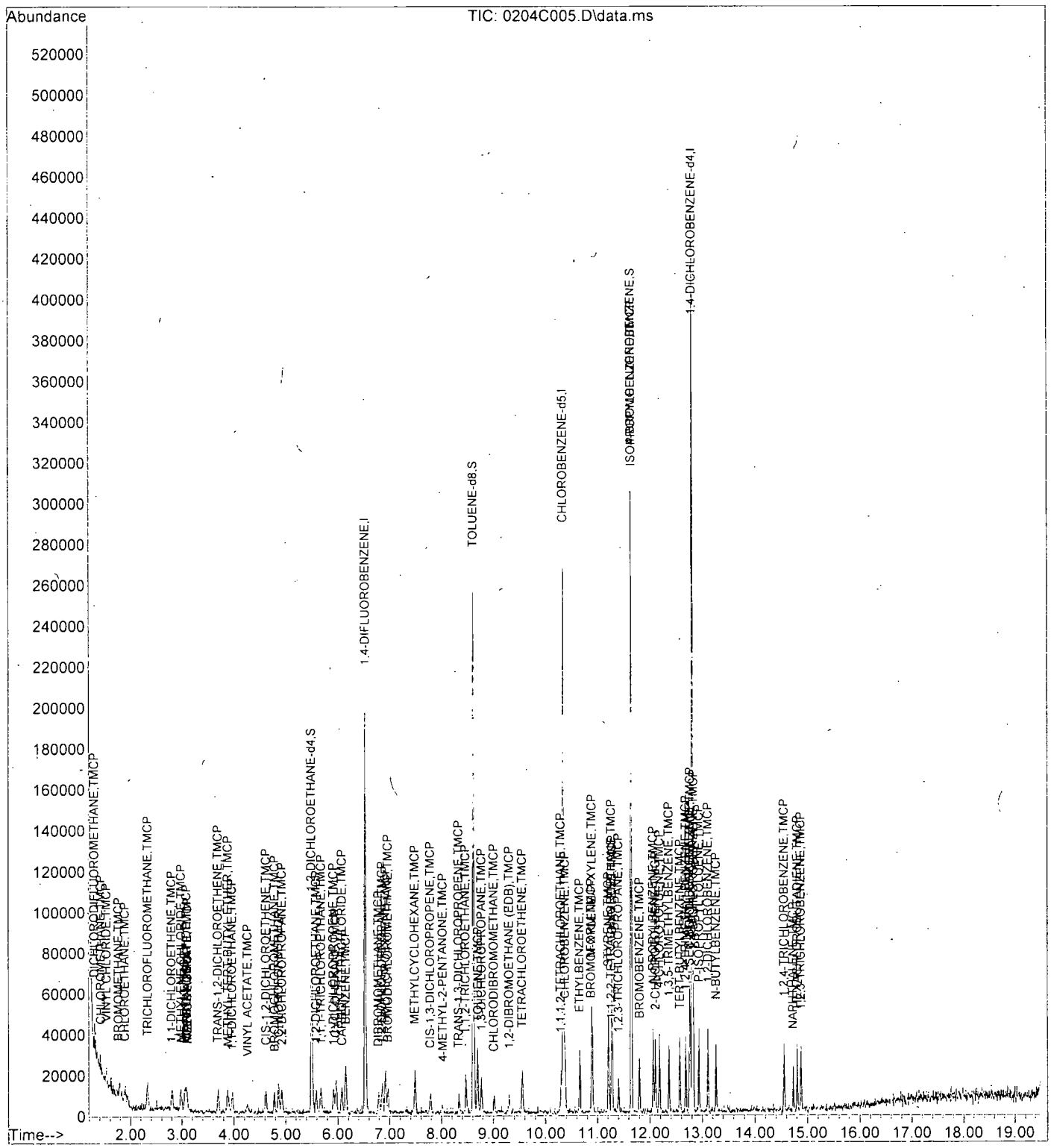
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0503

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 13:18:12 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration

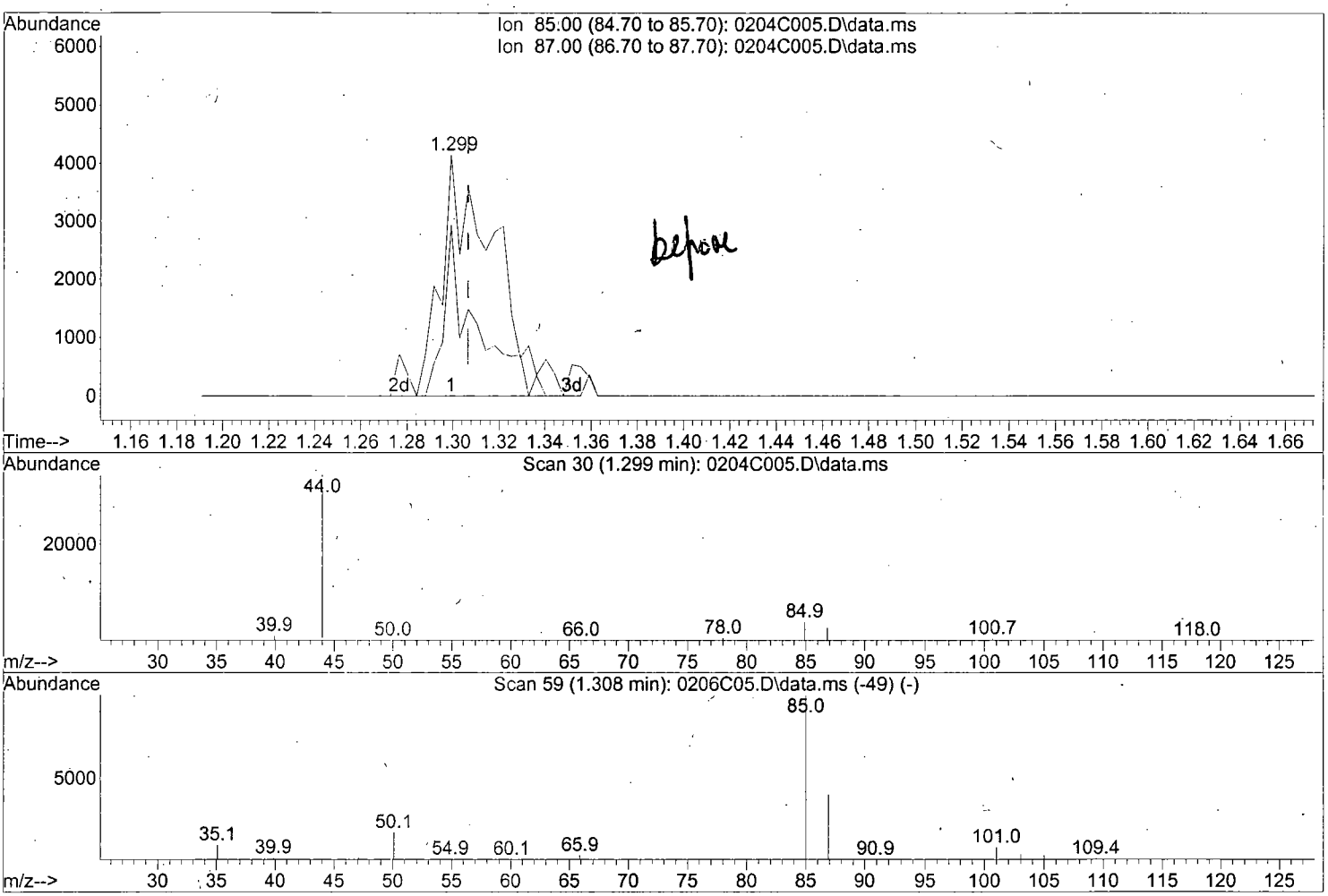


Freedom_0005792_0504

Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 13:08:52 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



TIC: 0204C005.D\data.ms

(2) DICHLORODIFLUOROMETHANE (TMCP)

1.299min (-0.008) 0.45 ug/L

response 6403

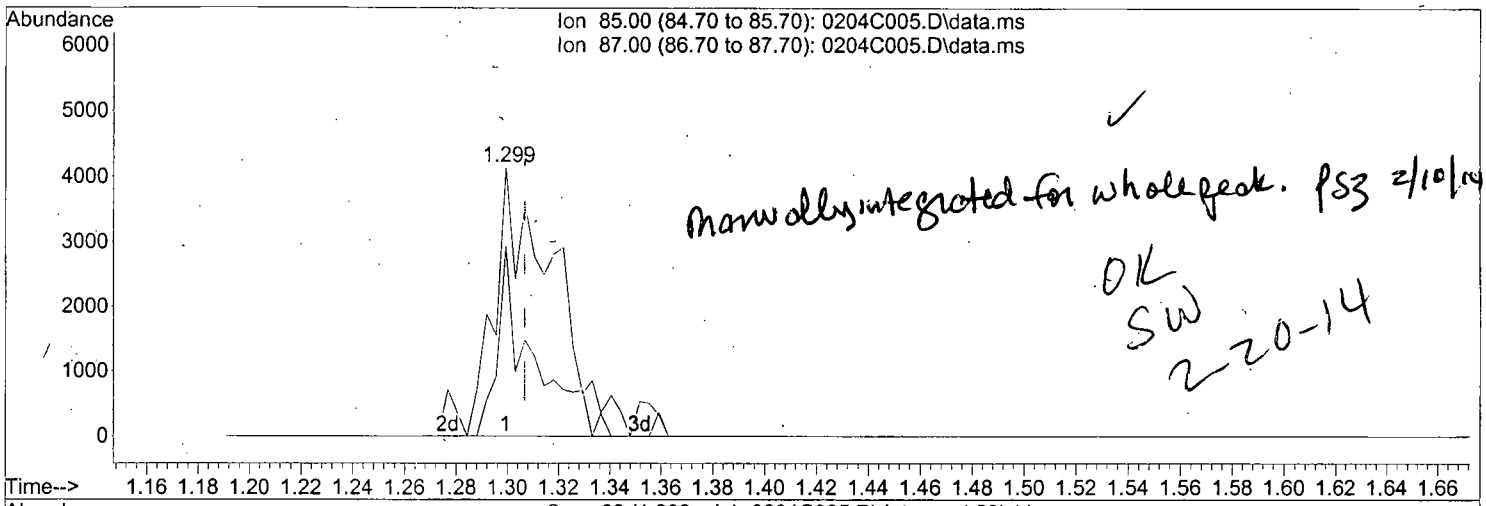
Ion	Exp%	Act%
85.00	100	100
87.00	32.50	41.59#
0.00	0.00	0.00
0.00	0.00	0.00

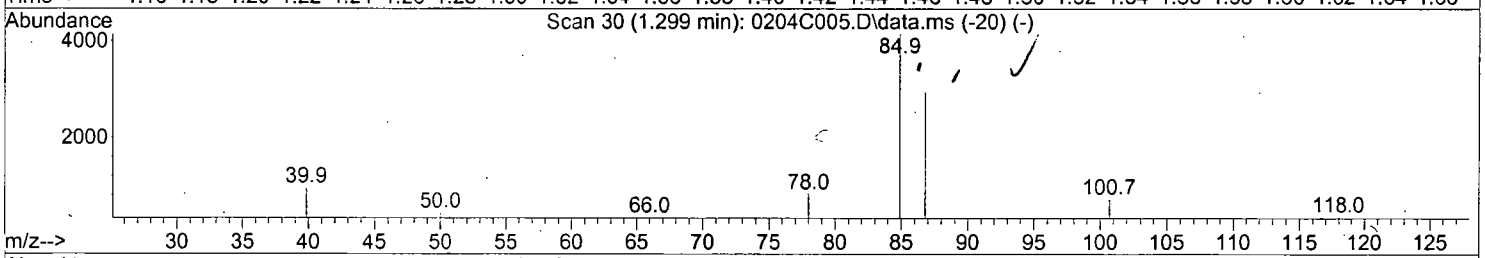
Freedom_0005792_0505

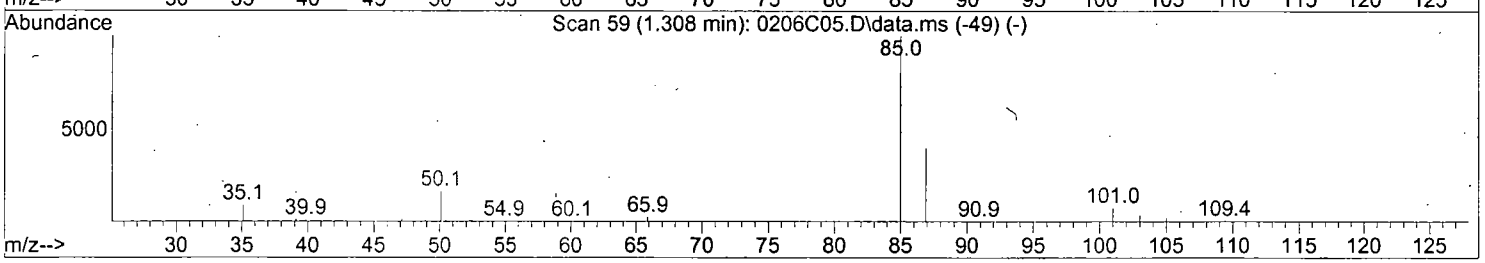
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 13:08:52 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 0204C005.D\data.ms

(2) DICHLORODIFLUOROMETHANE (TMCP)

1.299min (-0.008) 0.49 ug/L m

response 6951

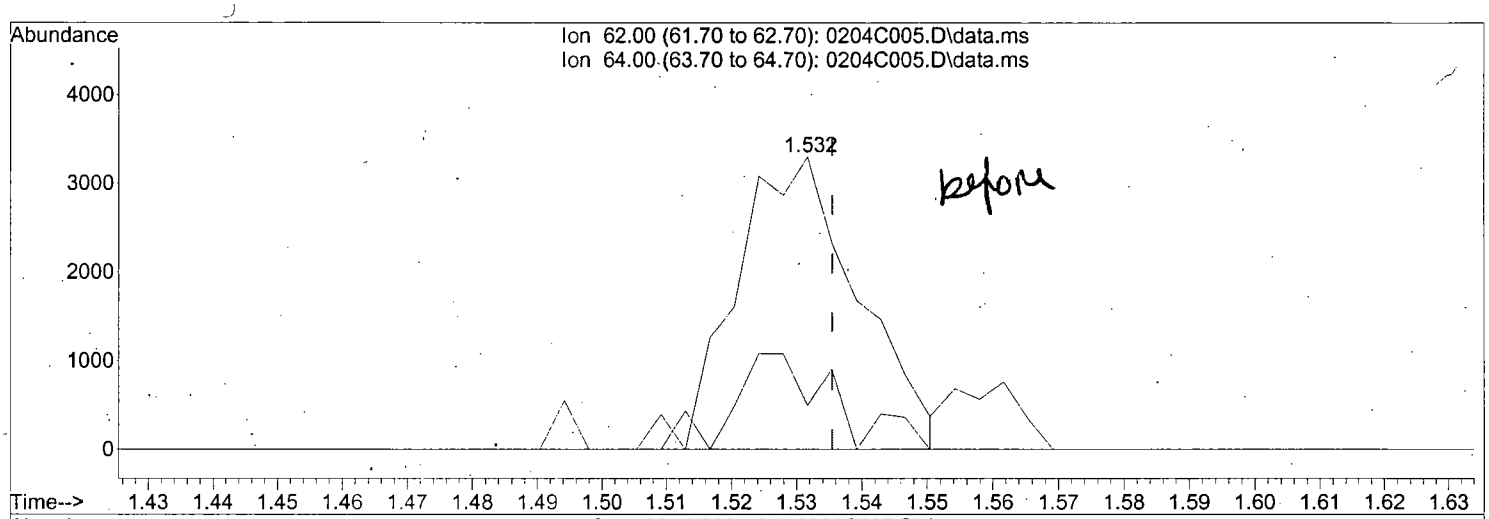
Ion	Exp%	Act%
85.00	100	100
87.00	32.50	38.31
0.00	0.00	0.00
0.00	0.00	0.00

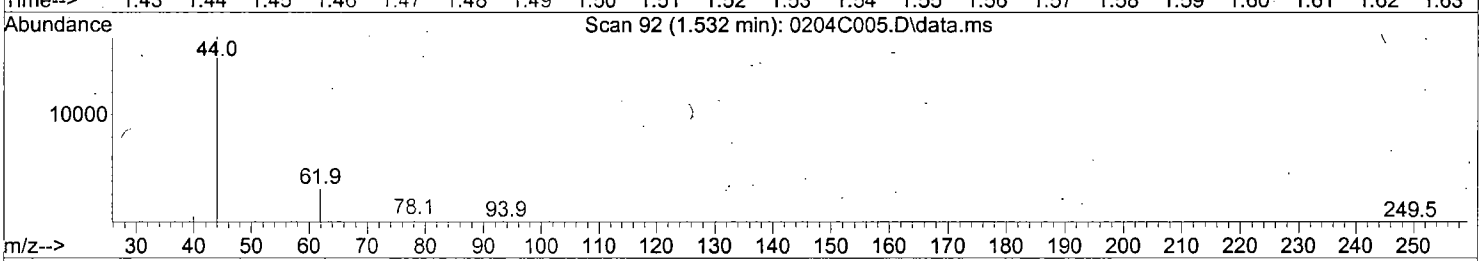
Freedom_0005792_0506

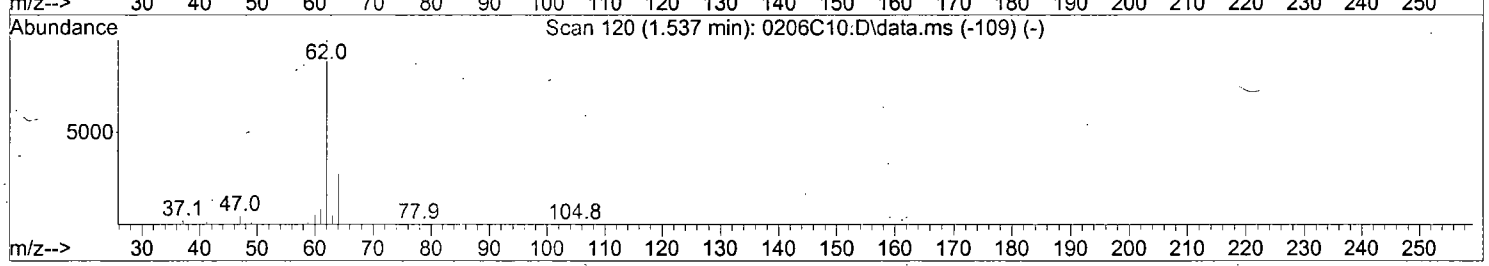
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 13:08:52 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 0204C005.D\data.ms

(4) VINYL CHLORIDE (TMCP)

1.532min (-0.004) 0.37 ug/L

response 4317

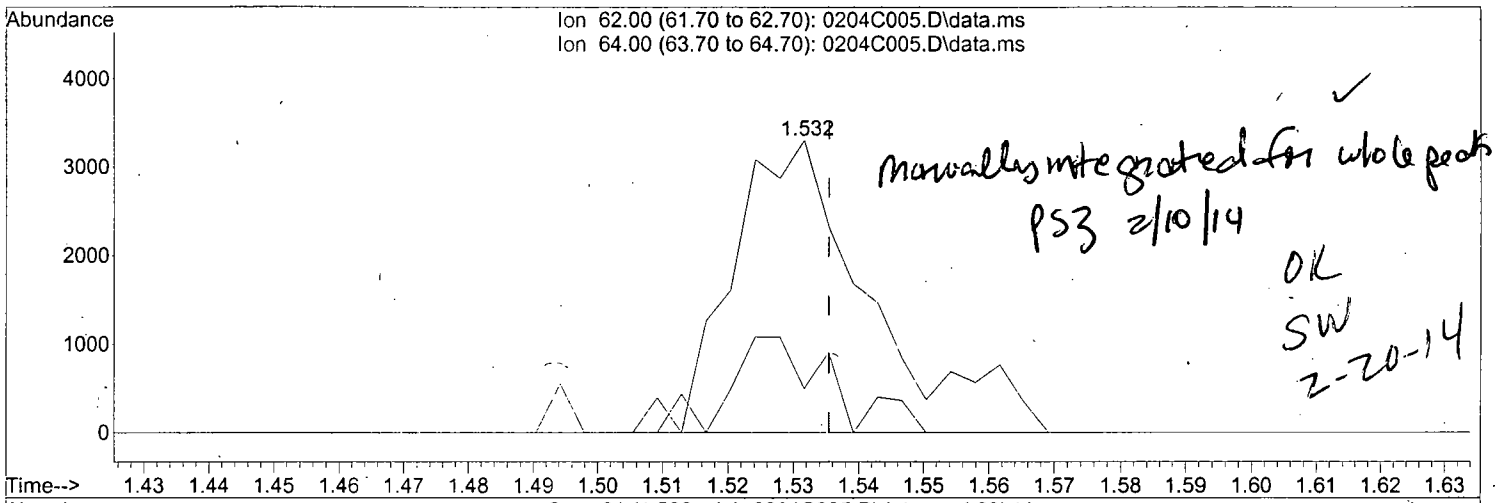
Ion	Exp%	Act%
62.00	100	100
64.00	31.90	27.40
0.00	0.00	0.00
0.00	0.00	0.00

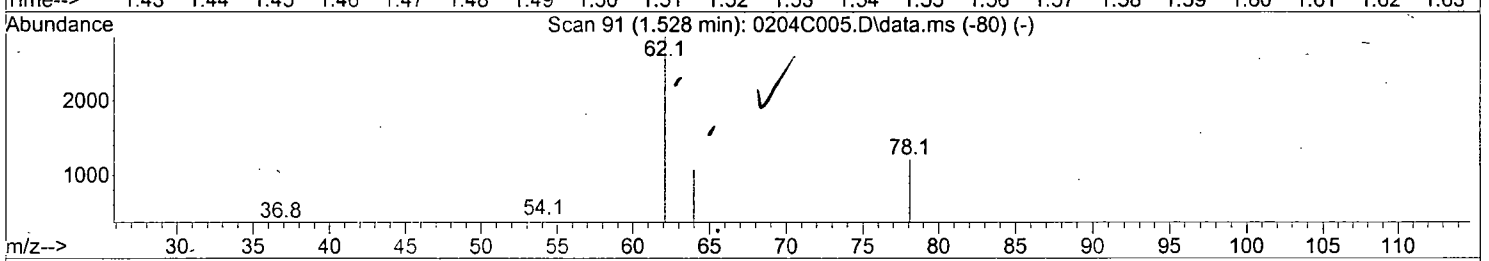
Freedom_0005792_0507

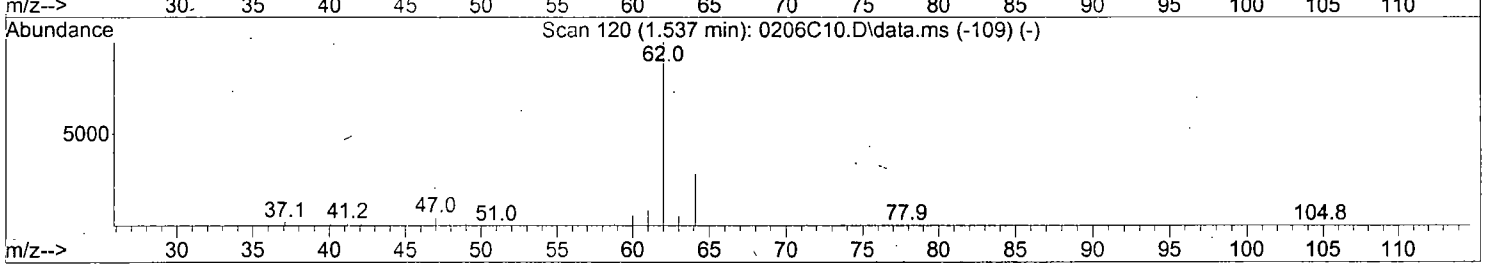
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 13:08:52 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 0204C005.D\data.ms

(4) VINYL CHLORIDE (TMCP)

1.532min (-0.004) 0.41 ug/L m

response 4847

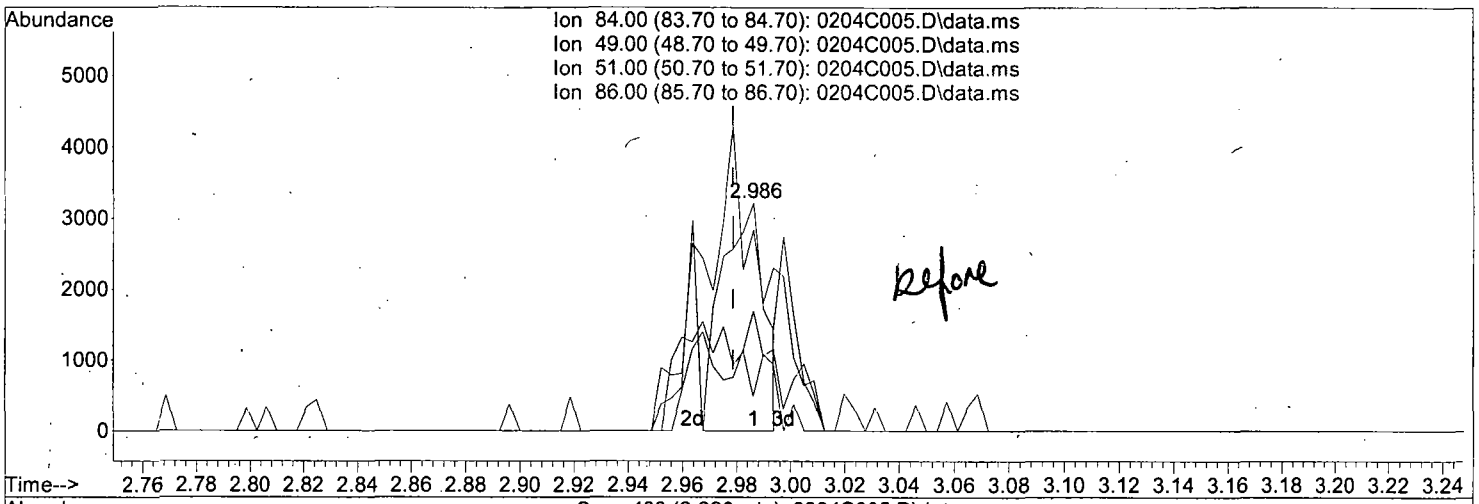
Ion	Exp%	Act%
62.00	100	100
64.00	31.90	24.41#
0.00	0.00	0.00
0.00	0.00	0.00

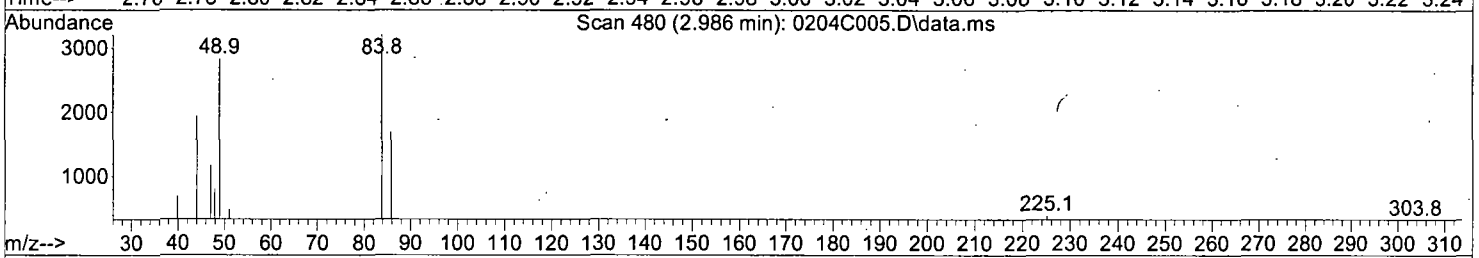
Freedom_0005792_0508

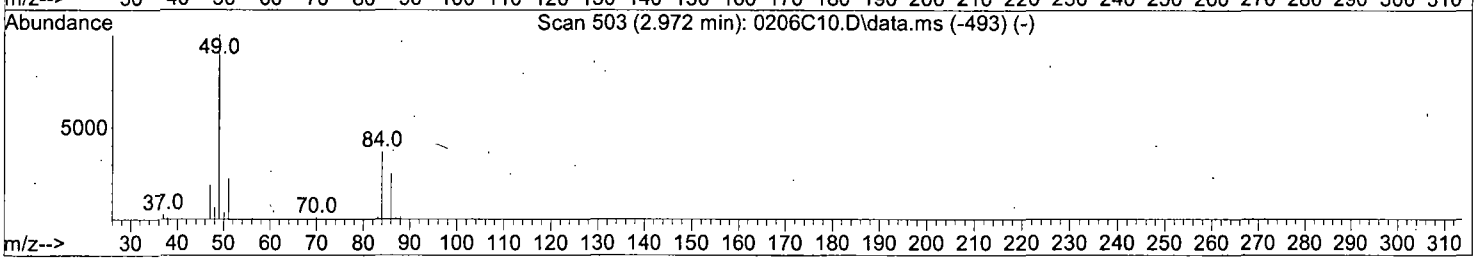
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 12:58:53 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 0204C005.D\data.ms

(10) METHYLENE CHLORIDE (TMCP)

2.986min (+0.007) 0.30 ug/L

response 3589

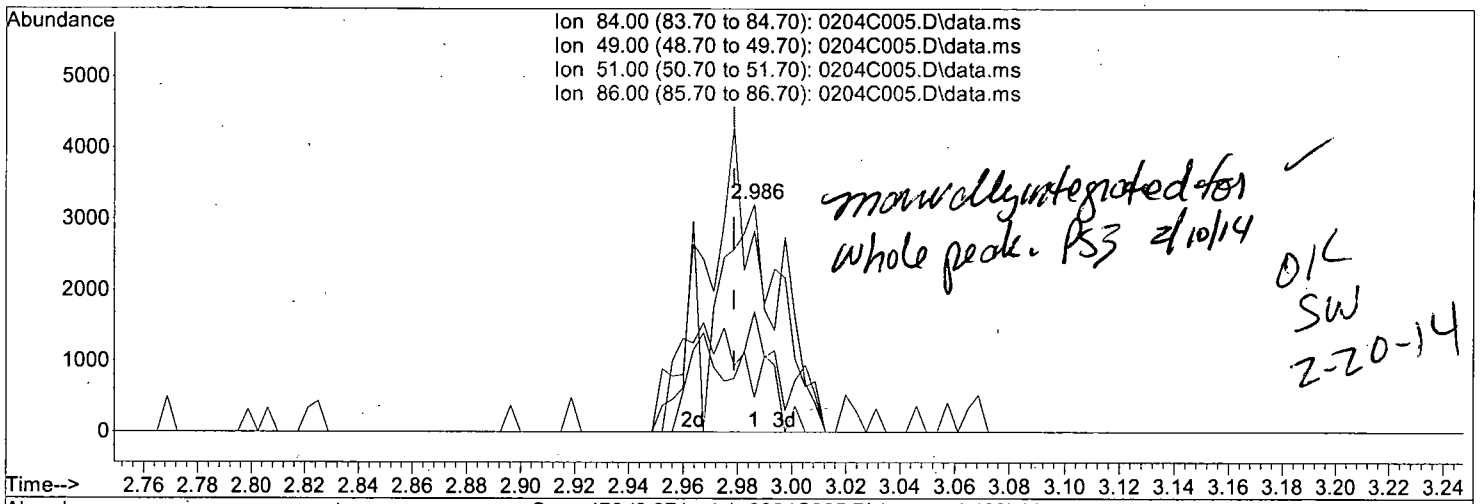
Ion	Exp%	Act%
84.00	100	100
49.00	127.60	191.64#
51.00	38.80	25.19#
86.00	61.50	33.35#

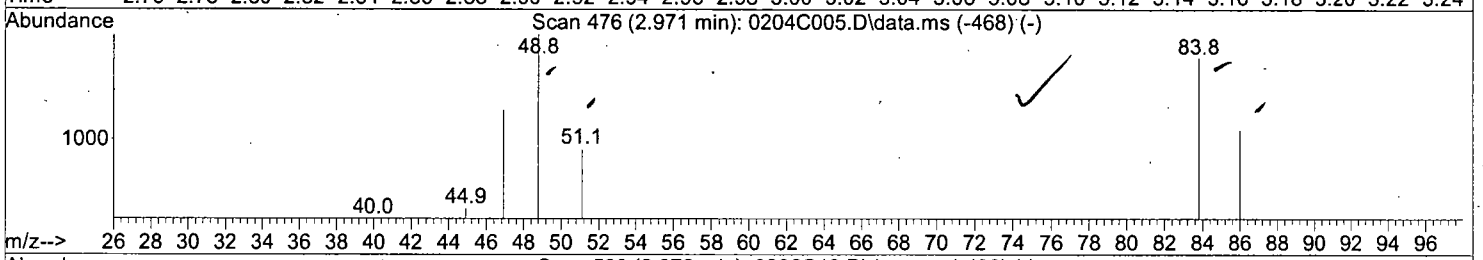
Freedom_0005792_0509

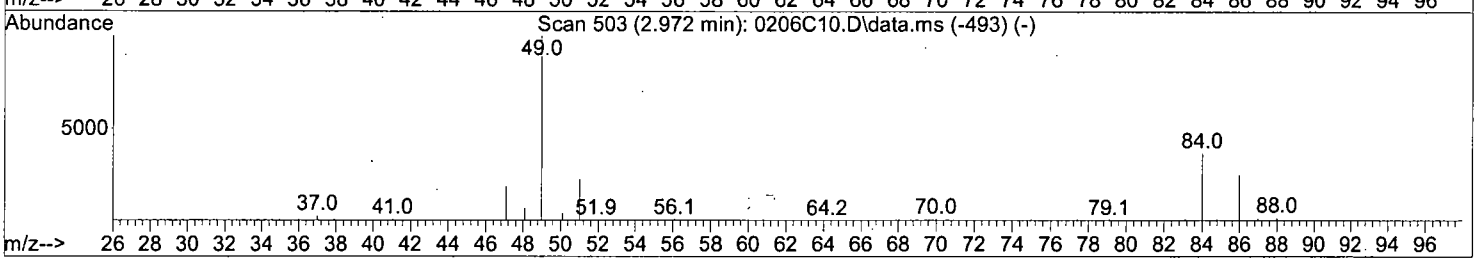
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 12:58:53 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 0204C005.D\data.ms

(10) METHYLENE CHLORIDE (TMCP)

2.986min (+0.007) 0.49 ug/L m

response 5812

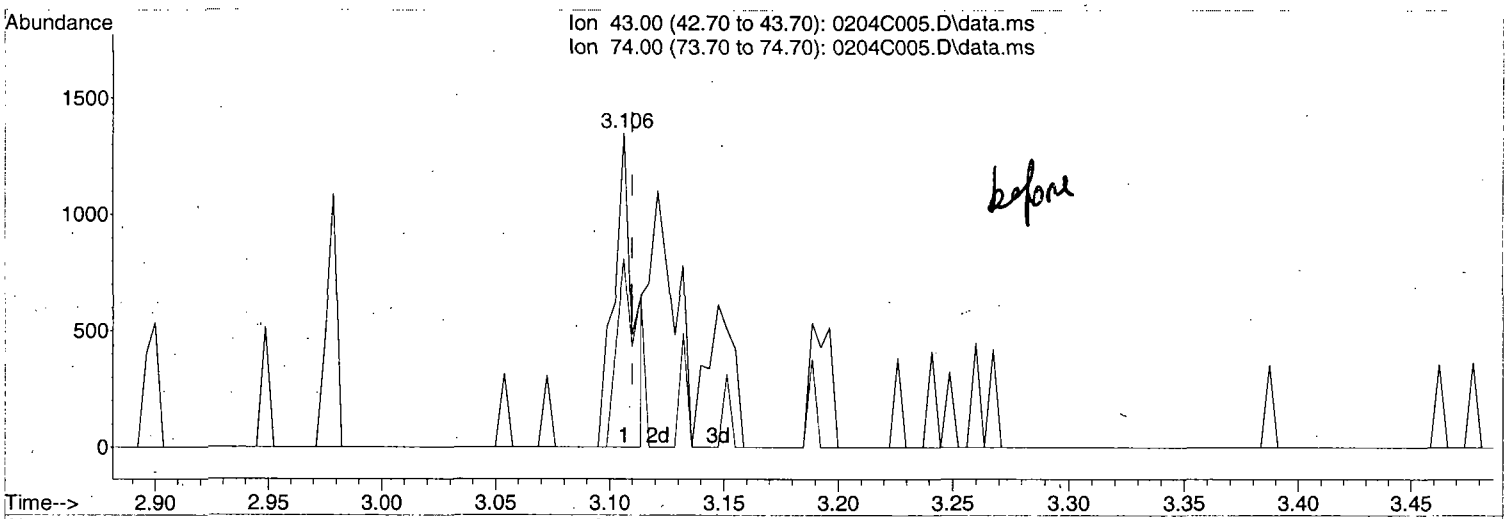
Ion	Exp%	Act%
84.00	100	100
49.00	127.60	118.34
51.00	38.80	15.55#
86.00	61.50	20.60#

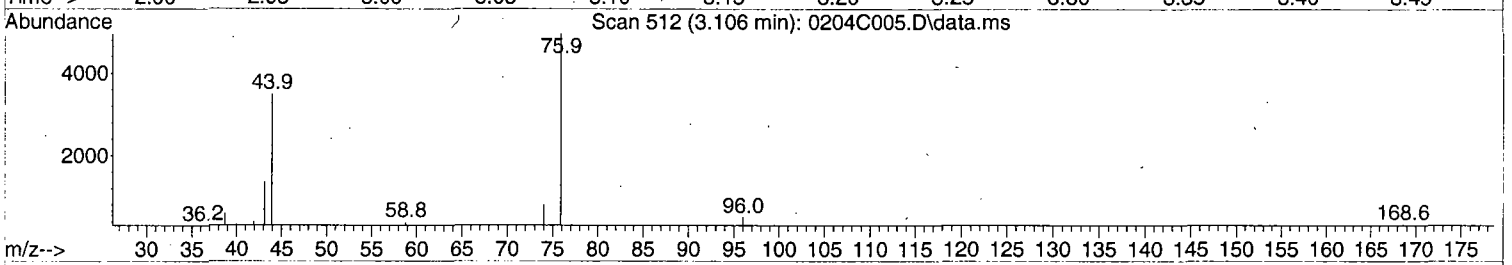
Freedom_0005792_0510

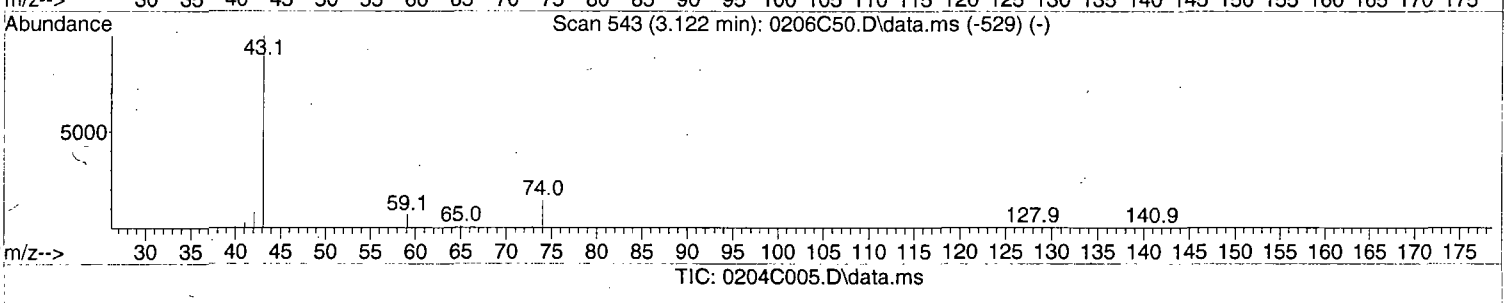
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 12:58:53 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







(13) METHYL ACETATE (TMCP)

3.106min (-0.004) 0.07 ug/L

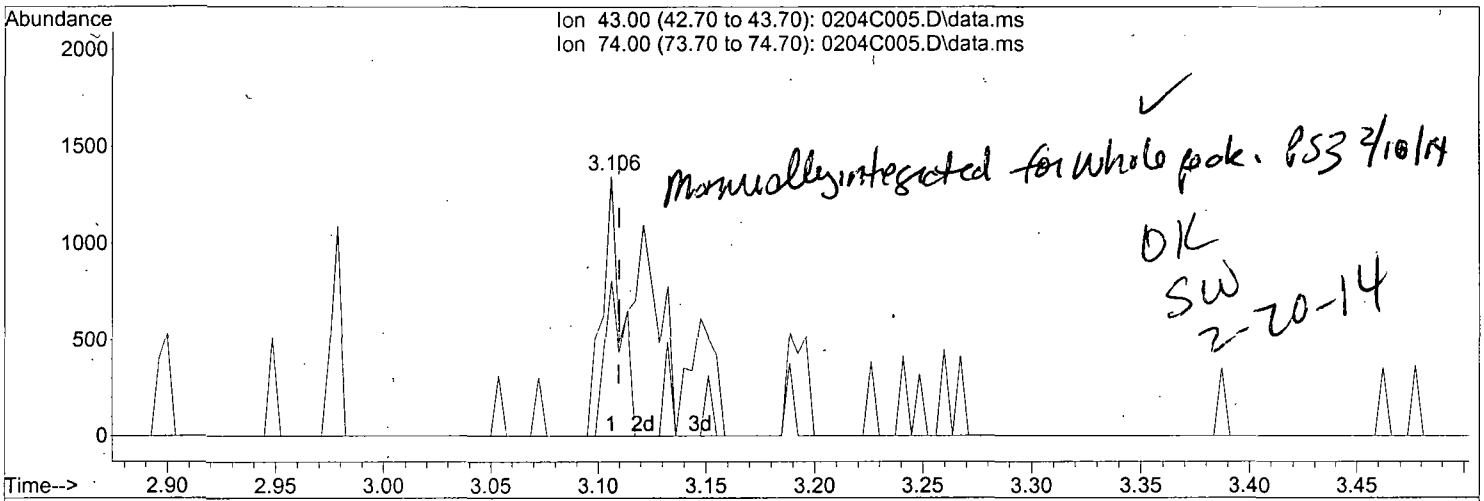
response 817

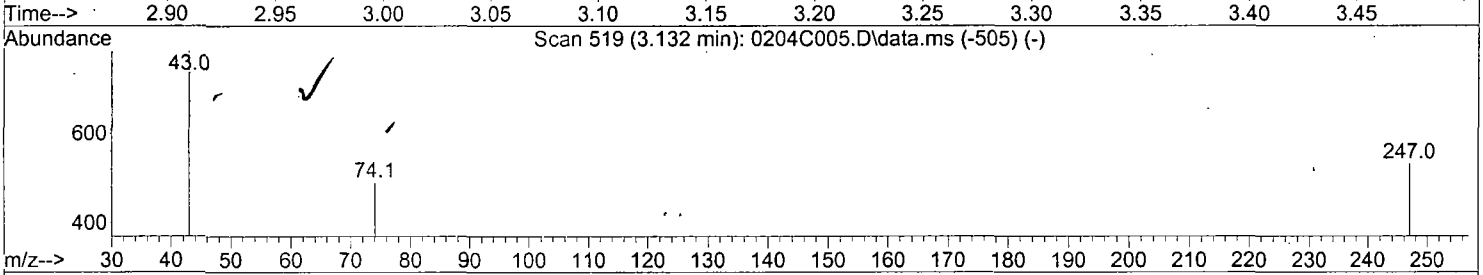
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	63.65#
0.00	0.00	[illegible]
0.00	0.00	[illegible]

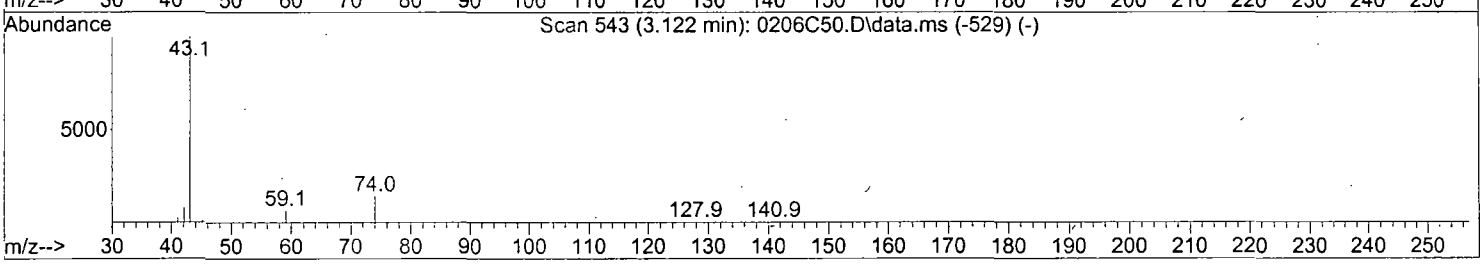
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 12:58:53 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 0204C005.D\data.ms

(13) METHYL ACETATE (TMCP)

3.106min (-0.004) 0.20 ug/L m

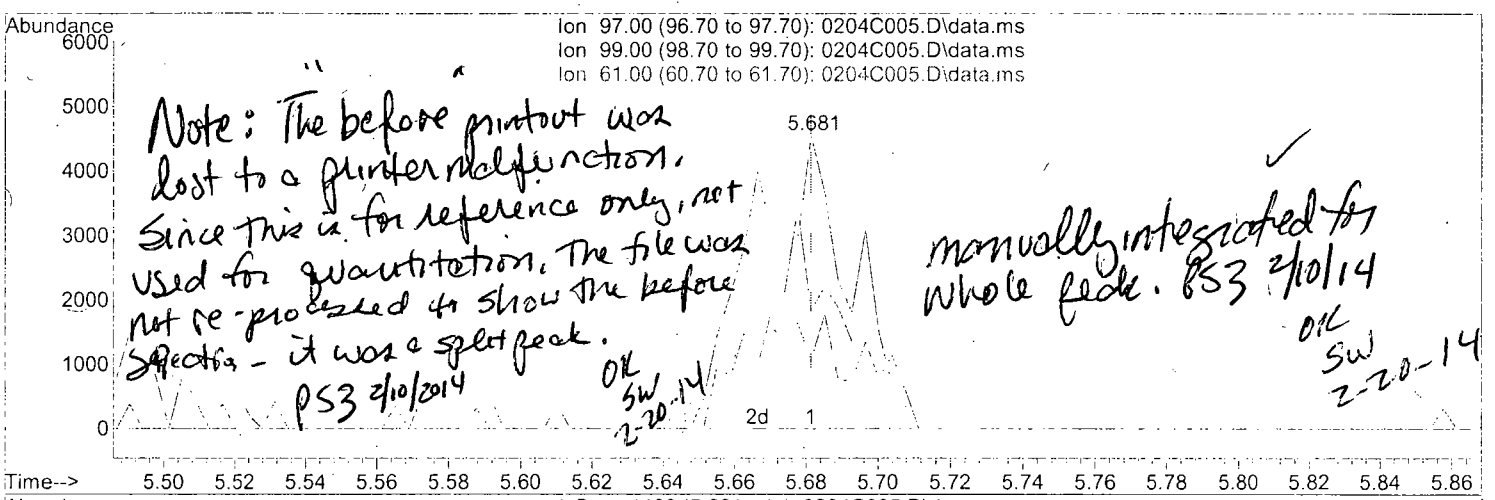
response 2189

Ion	Exp%	Act%
43.00	100	100
74.00	18.50	23.76#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

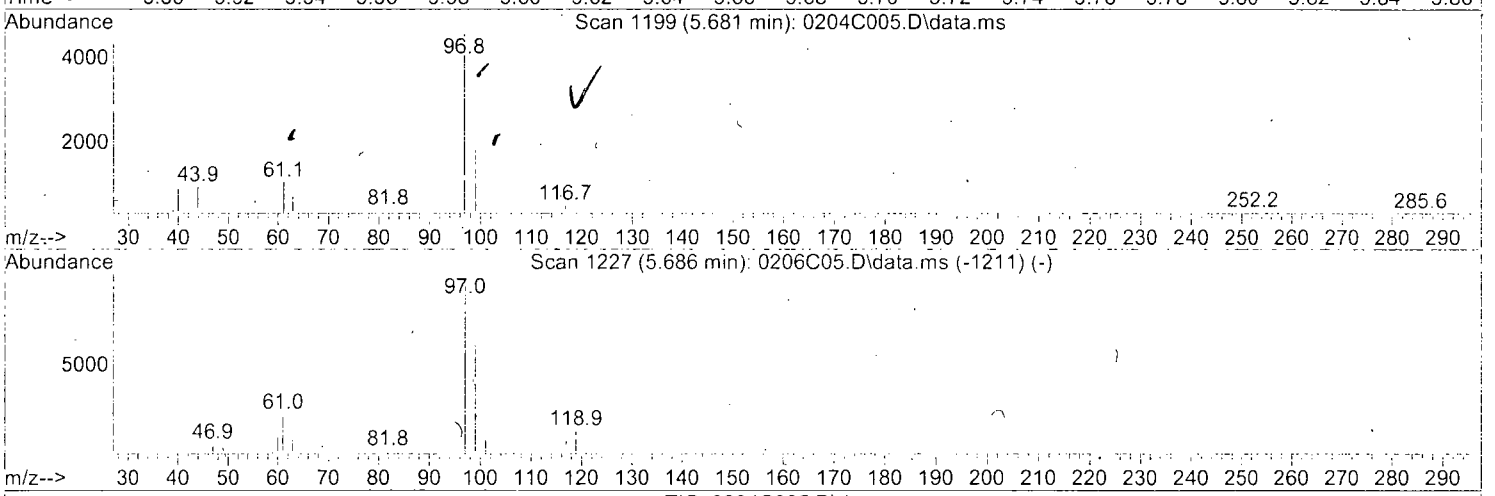
Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 13:18:12 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



Note: The before printout was lost to a printer malfunction. Since this is for reference only, not used for quantitation, the file was not re-processed to show the before spectra - it was a split peak. PS3 2/10/2014 OK SW 2-20-14

manually integrated for whole peak. PS3 2/10/14 OK SW 2-20-14



TIC: 0204C005.D\data.ms

(25) 1,1,1-TRICHLOROETHANE (TMCP)

5.681min (-0.000) 0.48 ug/L m

response 8669

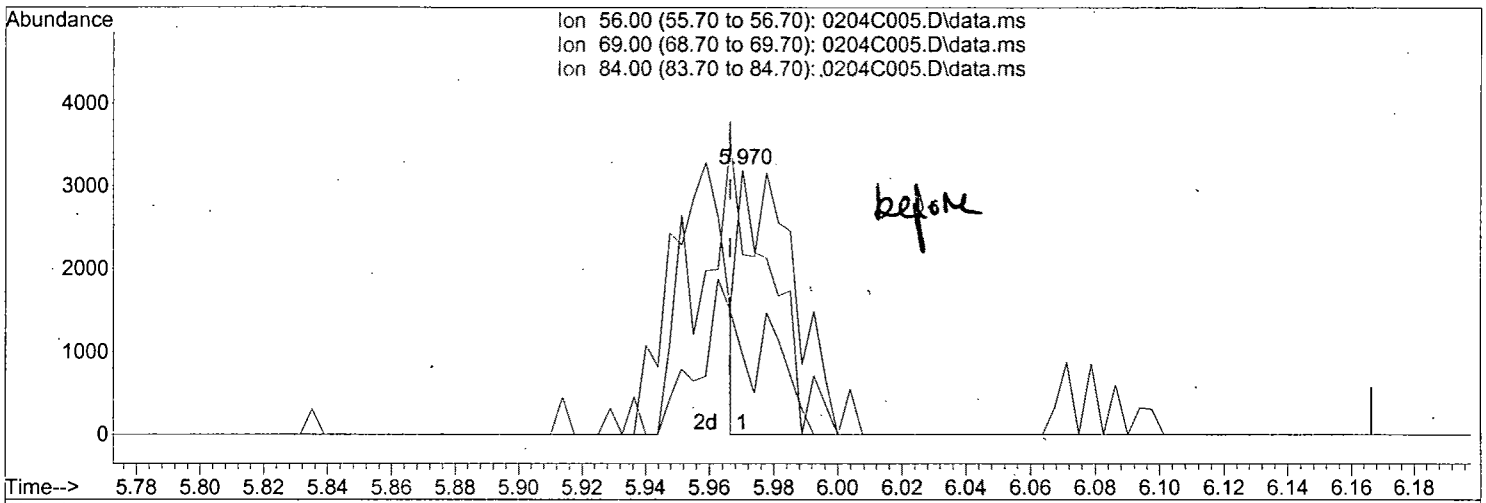
Ion	Exp%	Act%
97.00	100	100
99.00	62.90	57.63
61.00	43.70	35.15
0.00	0.00	0.00

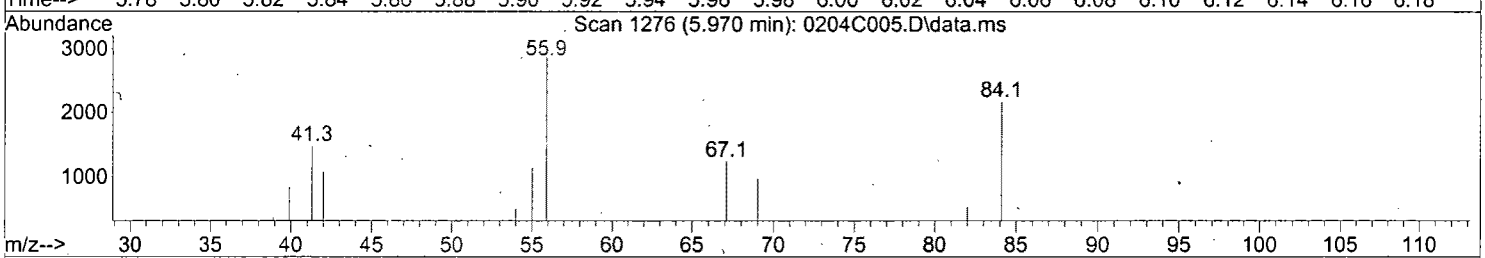
Freedom_0005792_0513

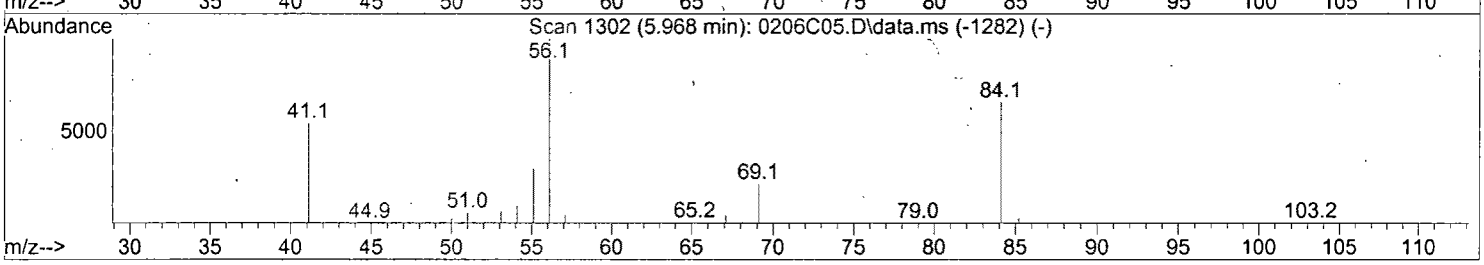
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 12:58:53 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 0204C005.D\data.ms

(27) CYCLOHEXANE (TMCP)

5.970min (+0.004) 0.12 ug/L

response 2697

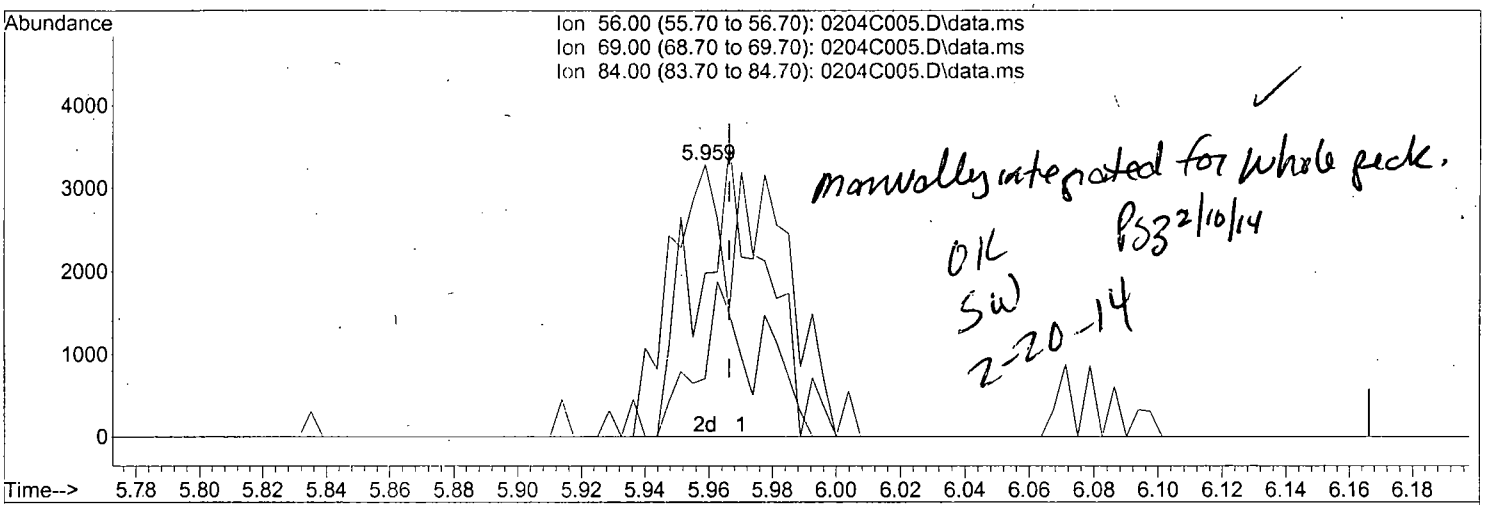
Ion	Exp%	Act%
56.00	100	100
69.00	29.60	61.81#
84.00	86.40	98.55
0.00	0.00	0.00

Freedom_0005792_0514

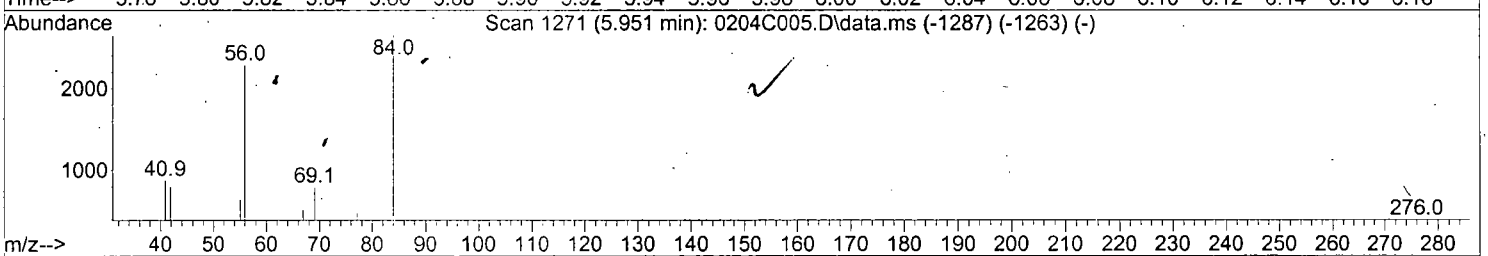
Quantitation Report (Qedit)

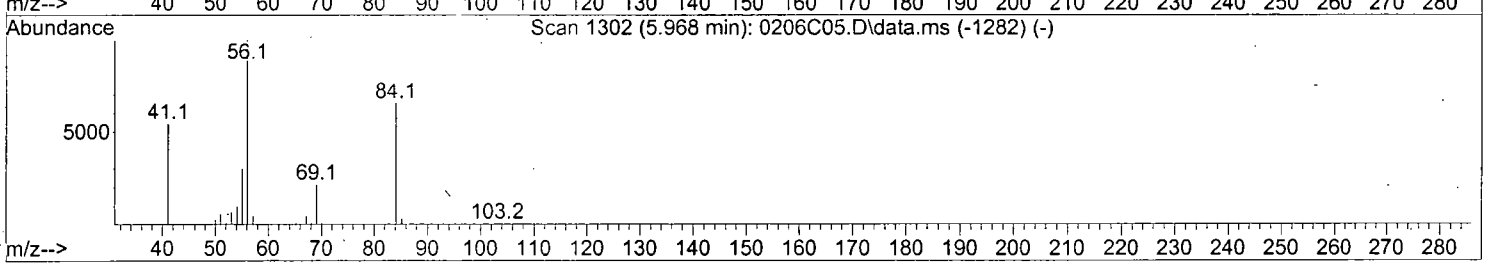
Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 12:58:53 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



manually integrated for whole peak.
PSZ 2/10/14
OK
SW
2-20-14





TIC: 0204C005.D\data.ms

(27) CYCLOHEXANE (TMCP)

5.959min (-0.008) 0.30 ug/L m

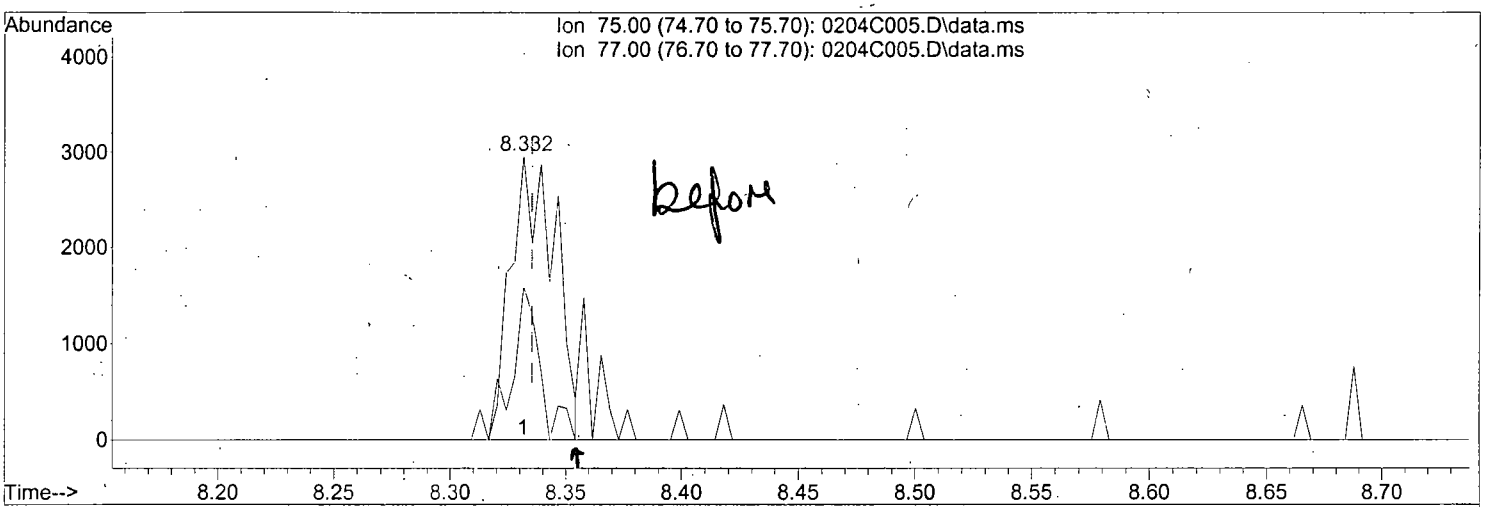
response 6616

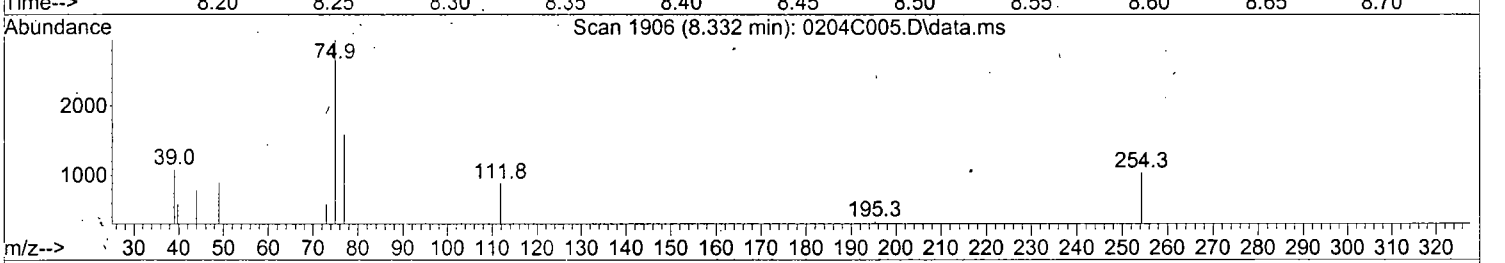
Ion	Exp%	Act%
56.00	100	100
69.00	29.60	25.20
84.00	86.40	40.18#
0.00	0.00	0.00

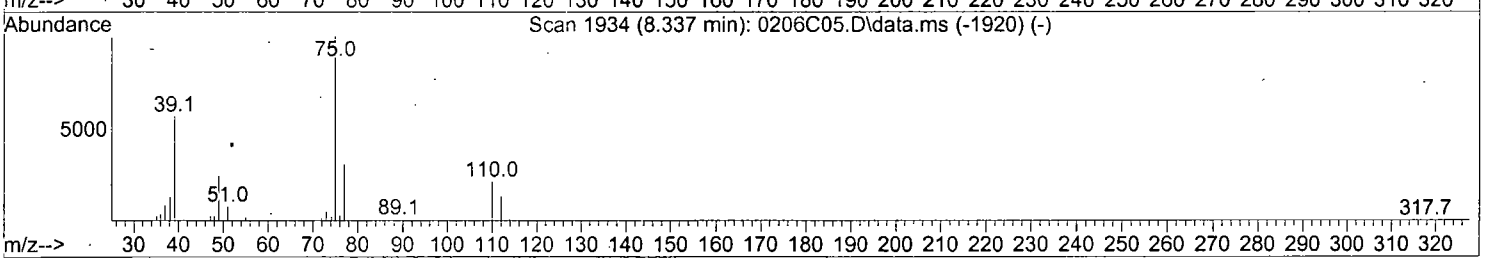
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 12:58:53 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 0204C005.D\data.ms

(39) TRANS-1,3-DICHLOROPROPENE (TMCP)

8.332min (-0.004) 0.28 ug/L

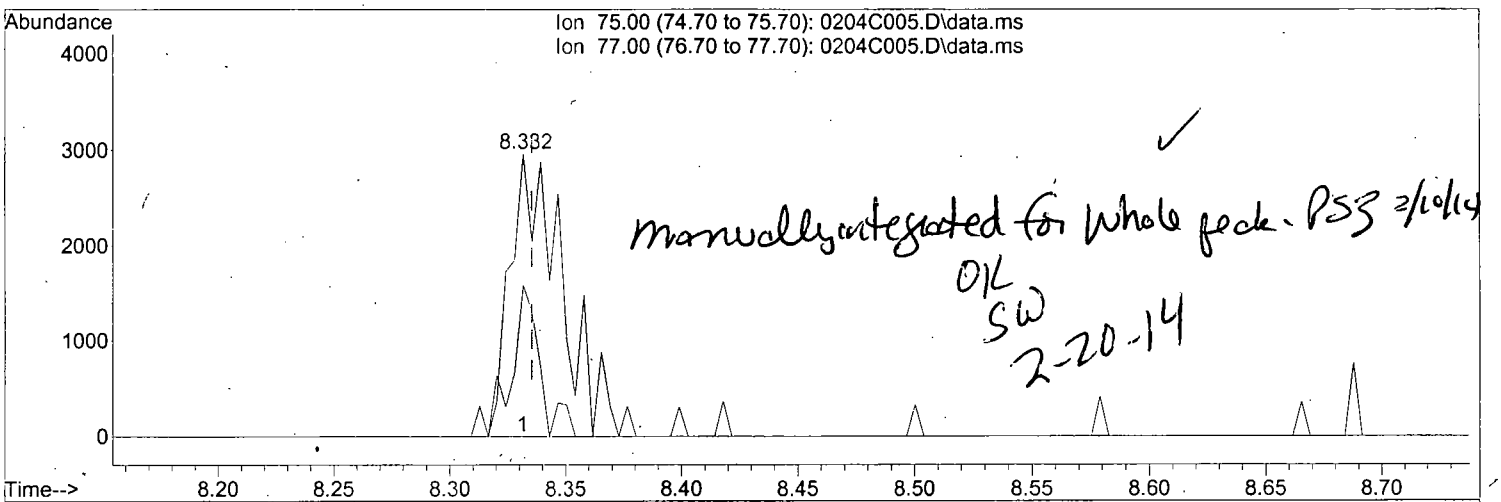
response 3995

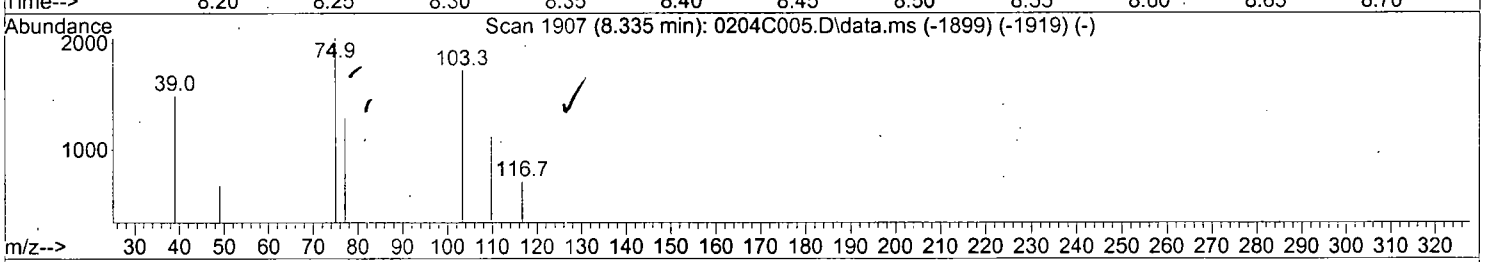
Ion	Exp%	Act%
75.00	100	100
77.00	31.60	33.17
0.00	0.00	0.00
0.00	0.00	0.00

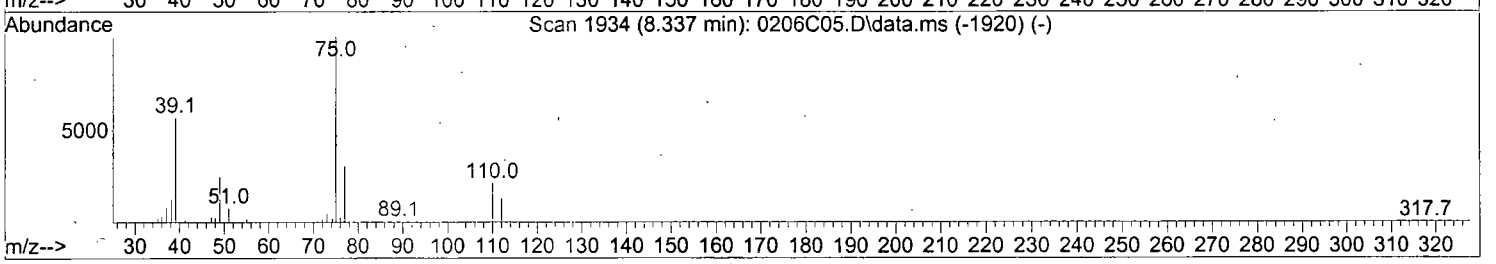
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 12:58:53 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 0204C005.D\data.ms

(39) TRANS-1,3-DICHLOROPROPENE (TMCP)

8.332min (-0.004) 0.33 ug/L m

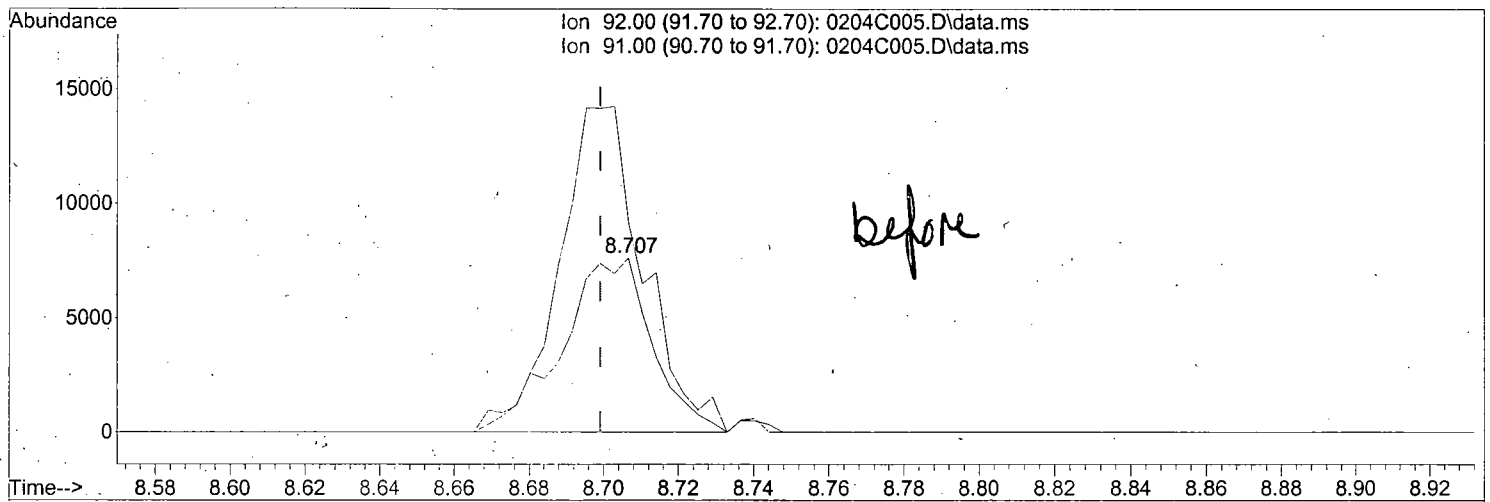
response 4669

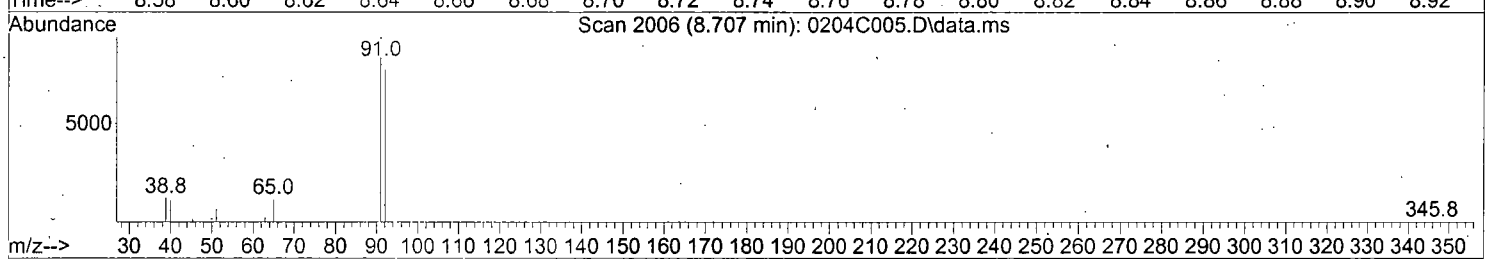
Ion	Exp%	Act%
75.00	100	100
77.00	31.60	28.38
0.00	0.00	0.00
0.00	0.00	0.00

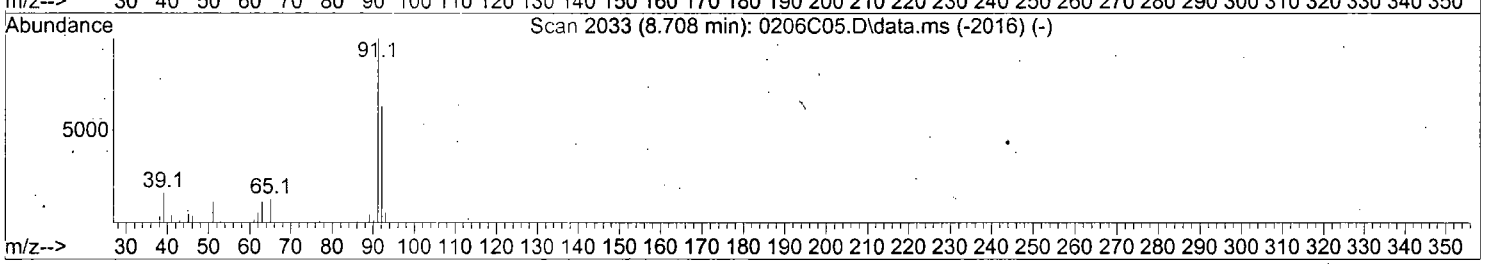
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 12:58:53 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 0204C005.D\data.ms

(42) TOLUENE (TMCP)

8.707min (+0.007) 0.44 ug/L

response 12655

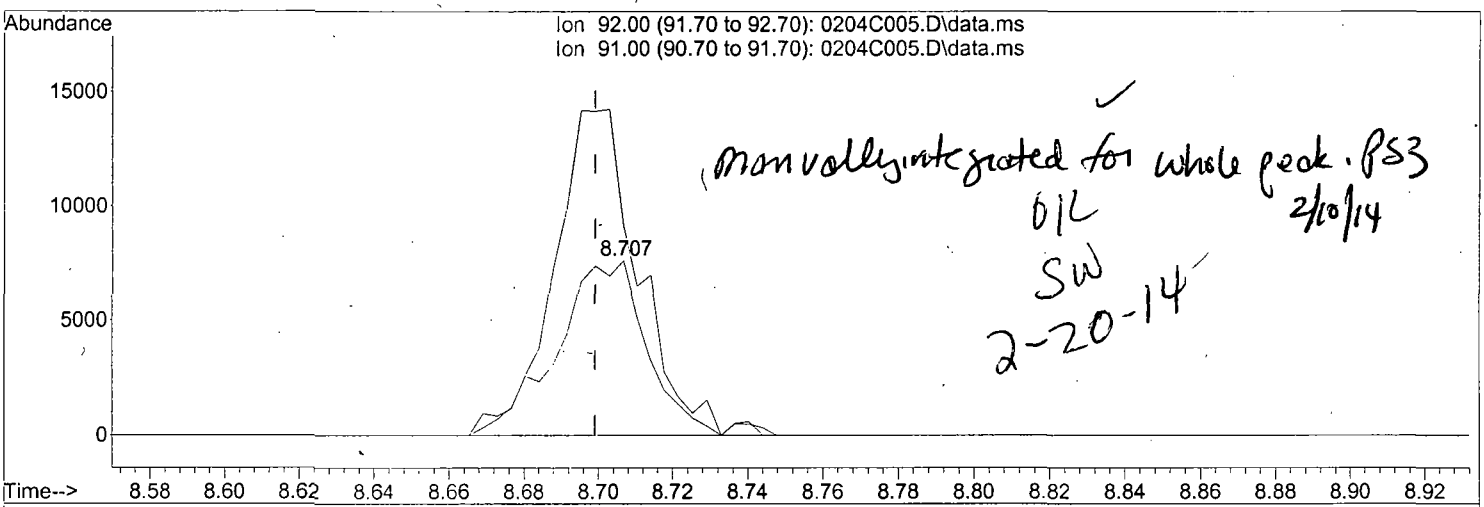
Ion	Exp%	Act%
92.00	100	100
91.00	174.10	177.46
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0518

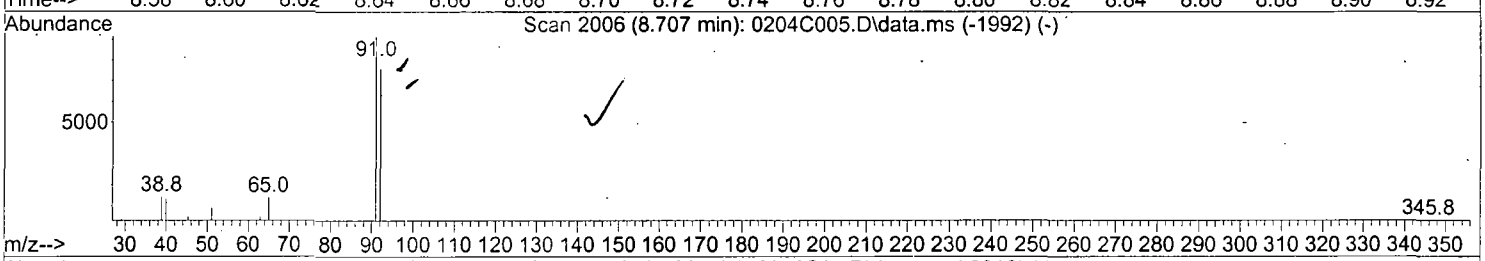
Quantitation Report (Qedit)

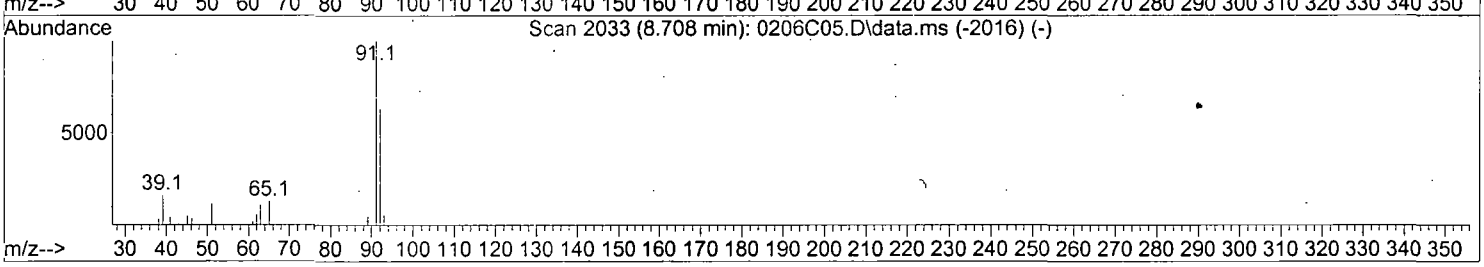
Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 12:58:53 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



manually integrated for whole peak. PS3 2/10/14
DL
SW
2-20-14





TIC: 0204C005.D\data.ms

(42) TOLUENE (TMCP)

8.707min (+0.007) 0.45 ug/L m

response 12954

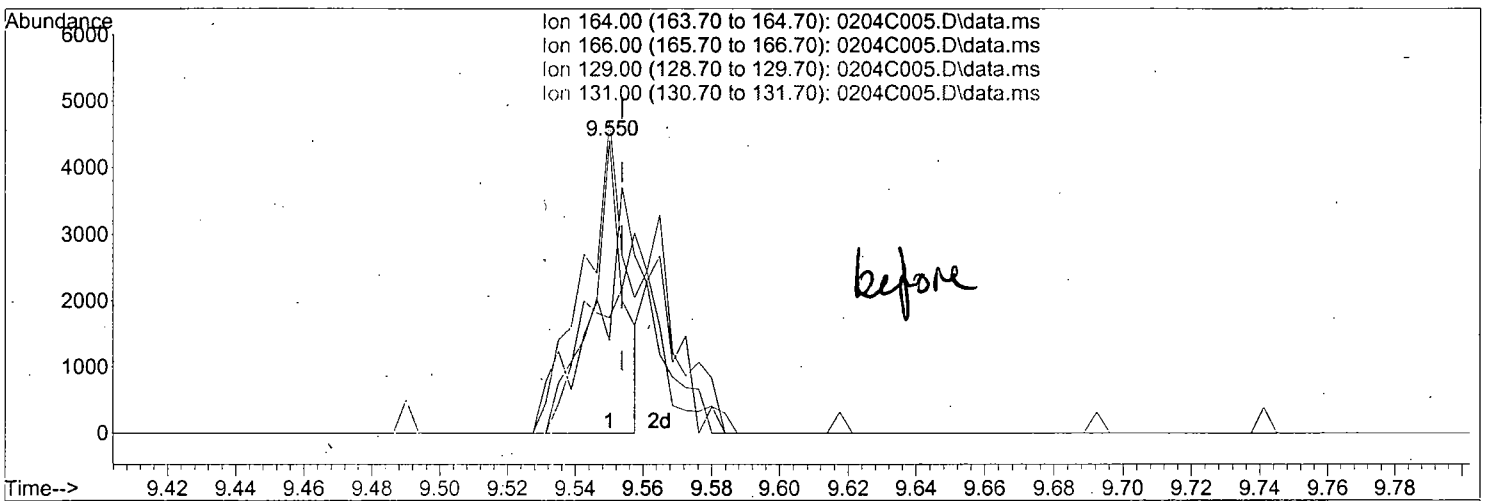
Ion	Exp%	Act%
92.00	100	100
91.00	174.10	173.37
0.00	0.00	0.00
0.00	0.00	0.00

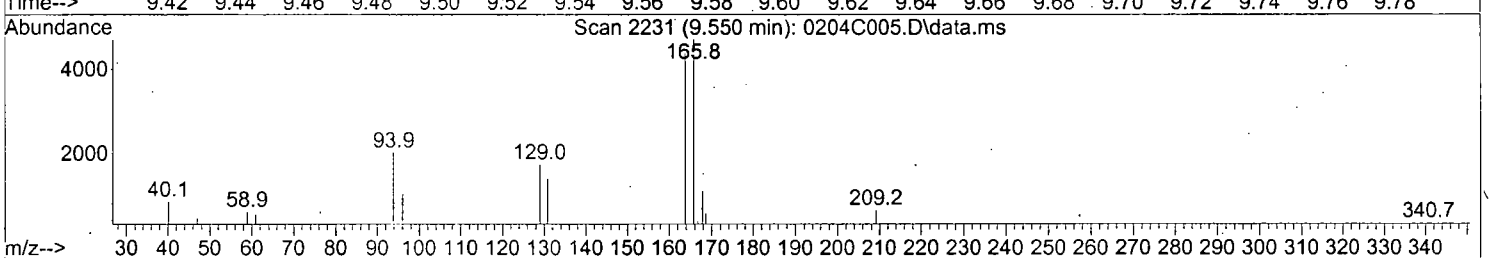
Freedom_0005792_0519

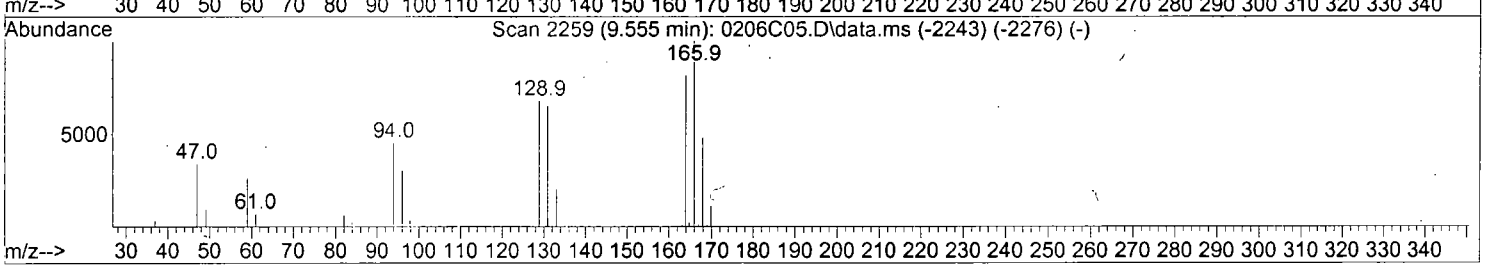
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 12:58:53 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 0204C005.D\data.ms

(47) TETRACHLOROETHENE (TMCP)

9.550min (-0.004) 0.31 ug/L

response 3184

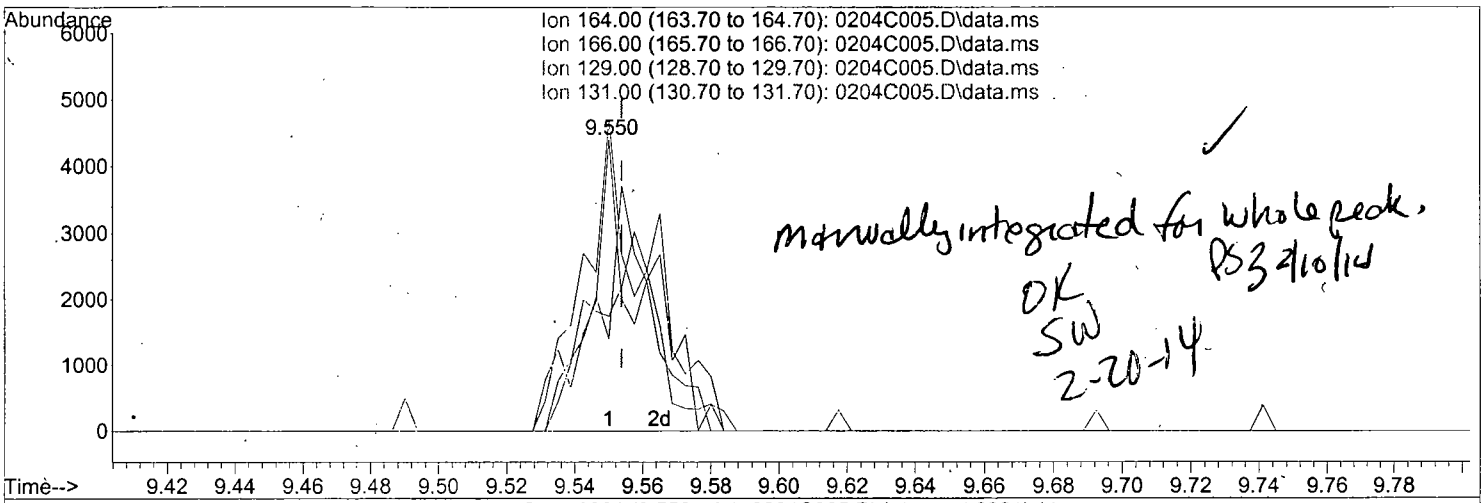
Ion	Exp%	Act%
164.00	100	100
166.00	127.20	195.85#
129.00	88.80	125.57#
131.00	84.40	132.29#

Freedom_0005792_0520

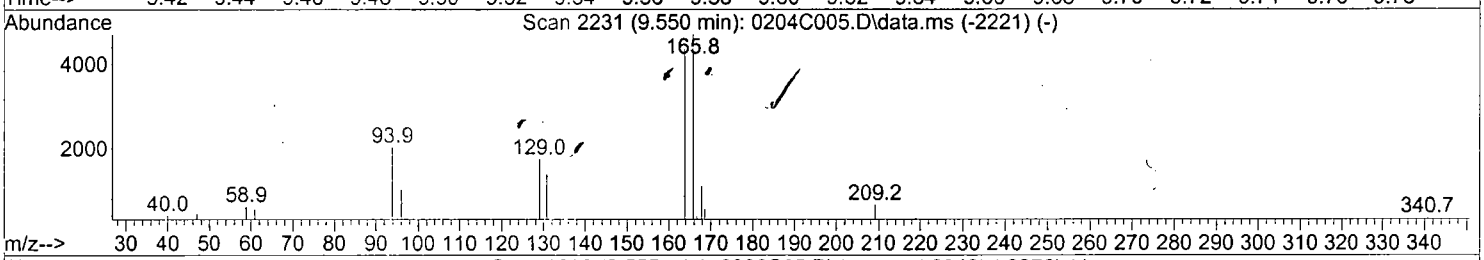
Quantitation Report (Qedit)

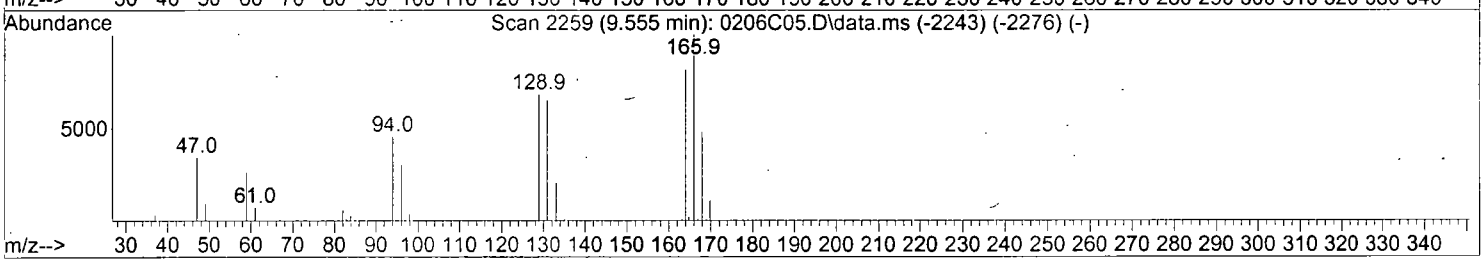
Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 12:58:53 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



manually integrated for whole peak. RS 2/10/14
OK SW 2-20-14





TIC: 0204C005.D\data.ms

(47) TETRACHLOROETHENE (TMCP)

9.550min (-0.004) 0.48 ug/L m

response 5031

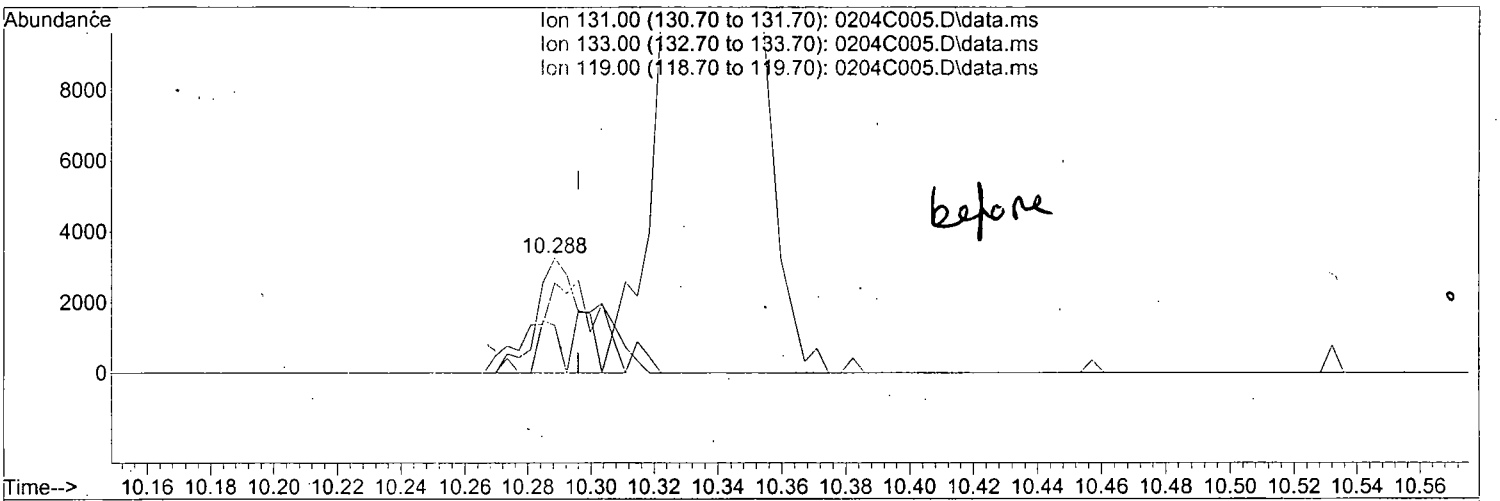
Ion	Exp%	Act%
164.00	100	100
166.00	127.20	123.95
129.00	88.80	79.47
131.00	84.40	83.72

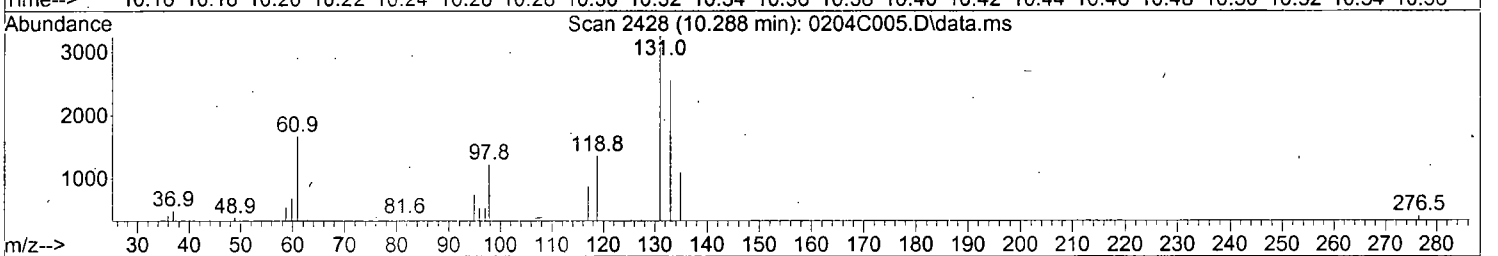
Freedom_0005792_0521

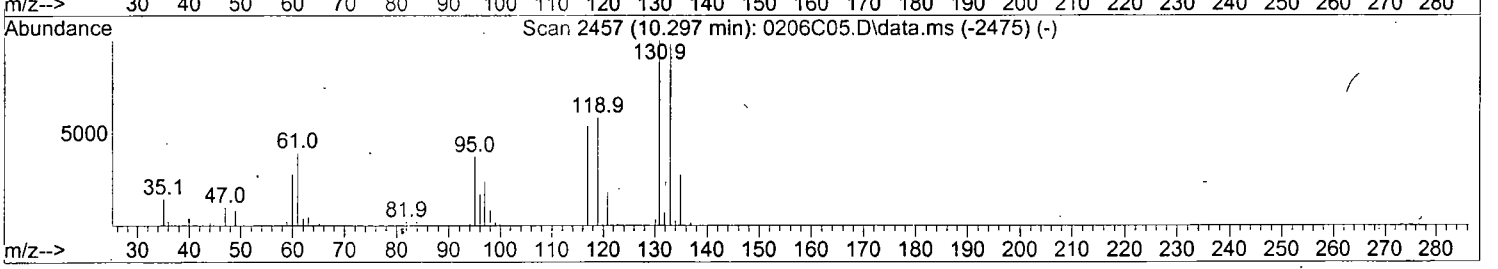
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 12:58:53 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 0204C005.D\data.ms

(48) 1,1,1,2-TETRACHLOROETHANE (TMCP)

10.288min (-0.008) 0.34 ug/L

response 3743

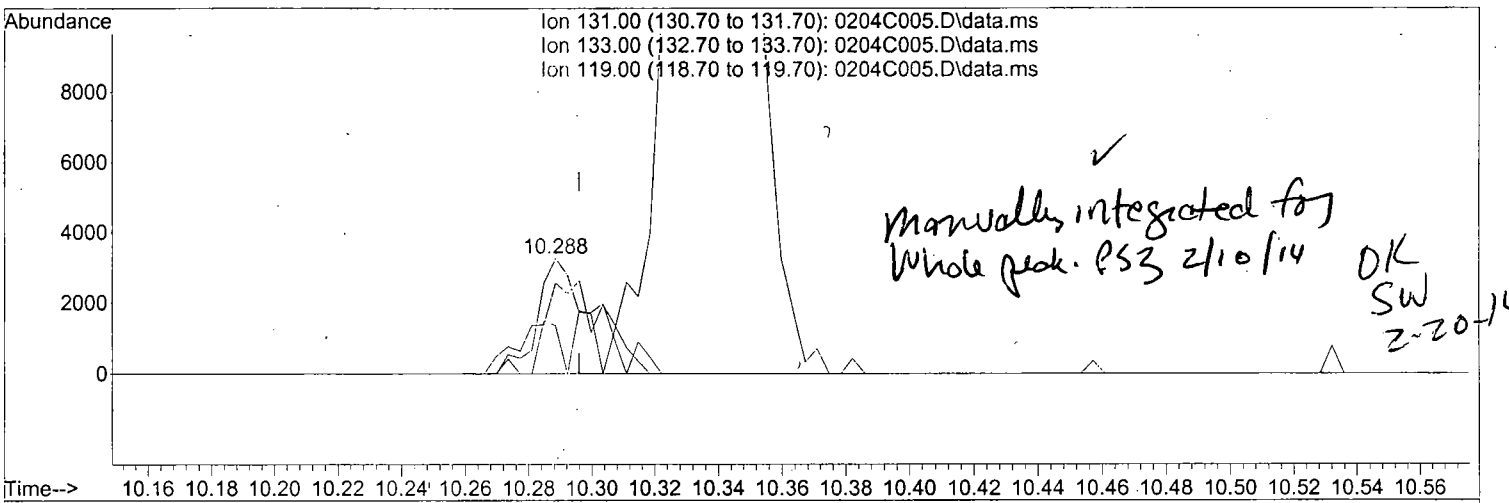
Ion	Exp%	Act%
131.00	100	100
133.00	95.10	0.00#
119.00	64.10	19.69#
0.00	0.00	0.00

Freedom_0005792_0522

Quantitation Report (Qedit)

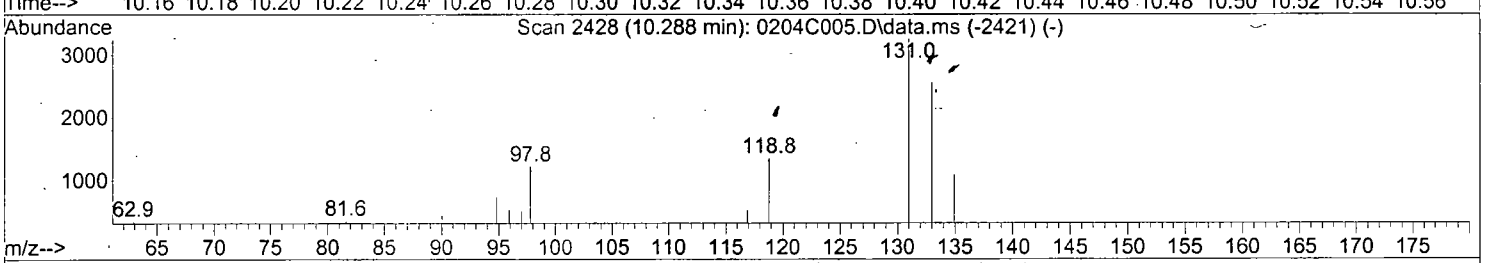
Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

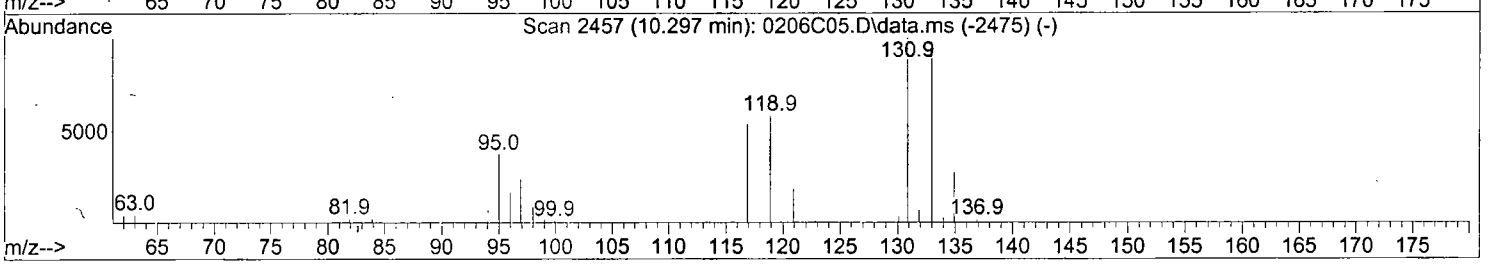
Quant Time: Feb 04 12:58:53 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



Manually integrated for whole peak. PSJ 2/10/14

OK SW 2-20-14





TIC: 0204C005.D\data.ms

(48) 1,1,1,2-TETRACHLOROETHANE (TMCP)

10.288min (-0.008) 0.37 ug/L m

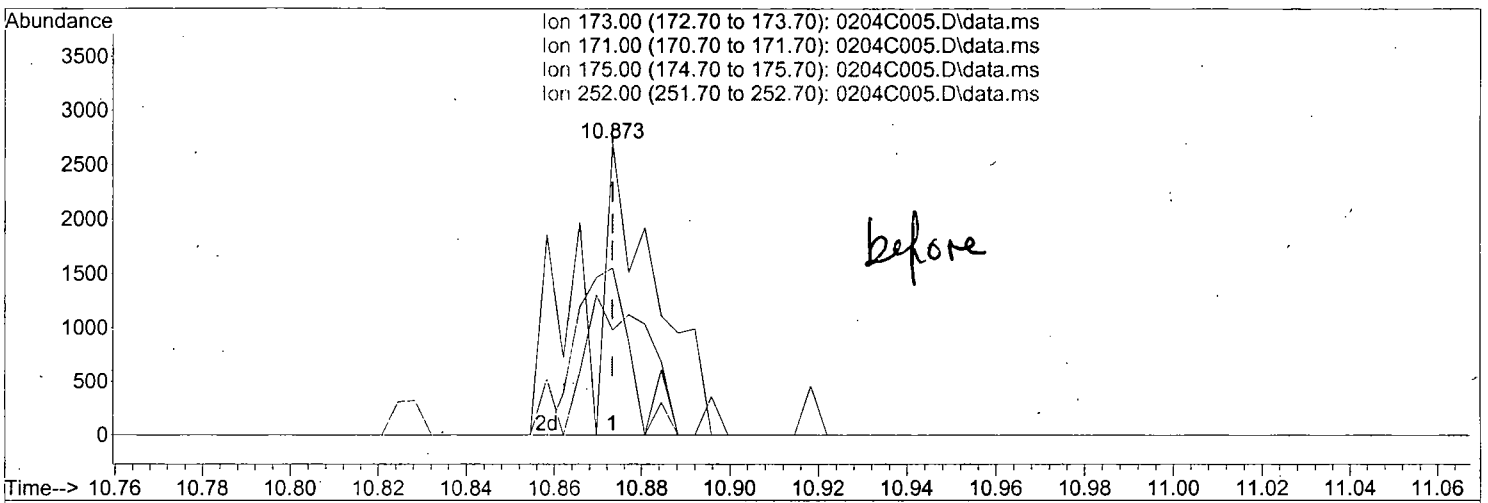
response 4049

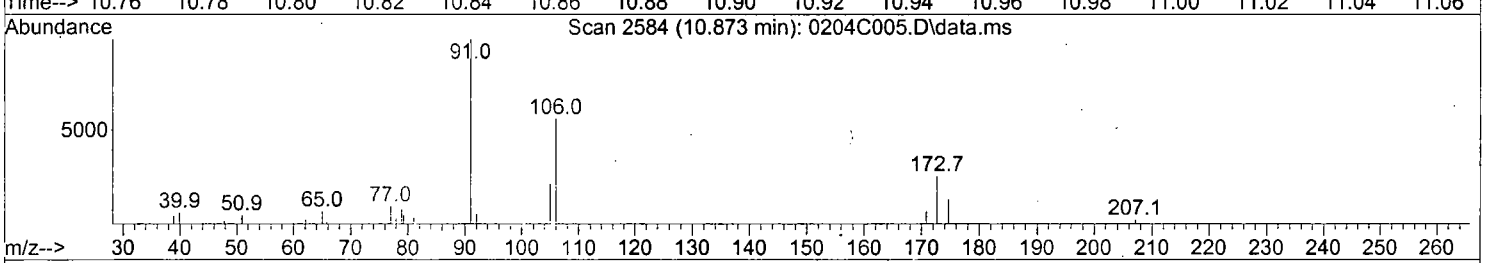
Ion	Exp%	Act%
131.00	100	100
133.00	95.10	0.00#
119.00	64.10	18.20#
0.00	0.00	0.00

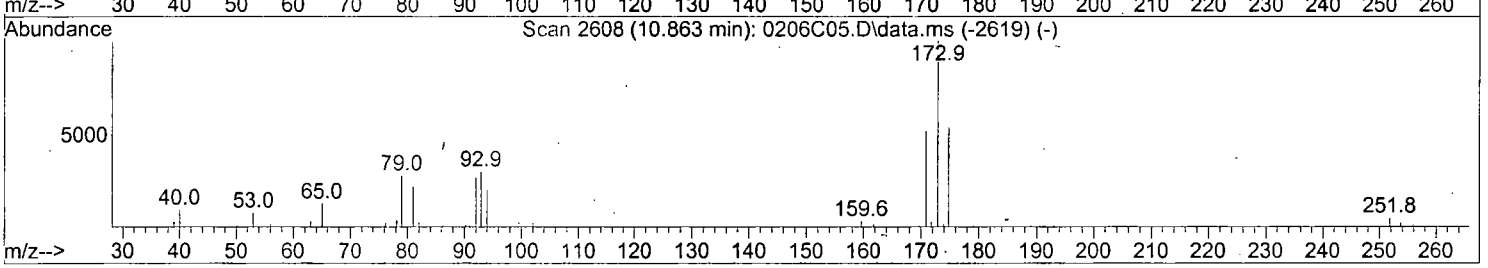
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 12:58:53 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration







TIC: 0204C005.D\data.ms

(51) BROMOFORM (TMCP)

10.873min (-0.000) 0.28 ug/L

response 2063

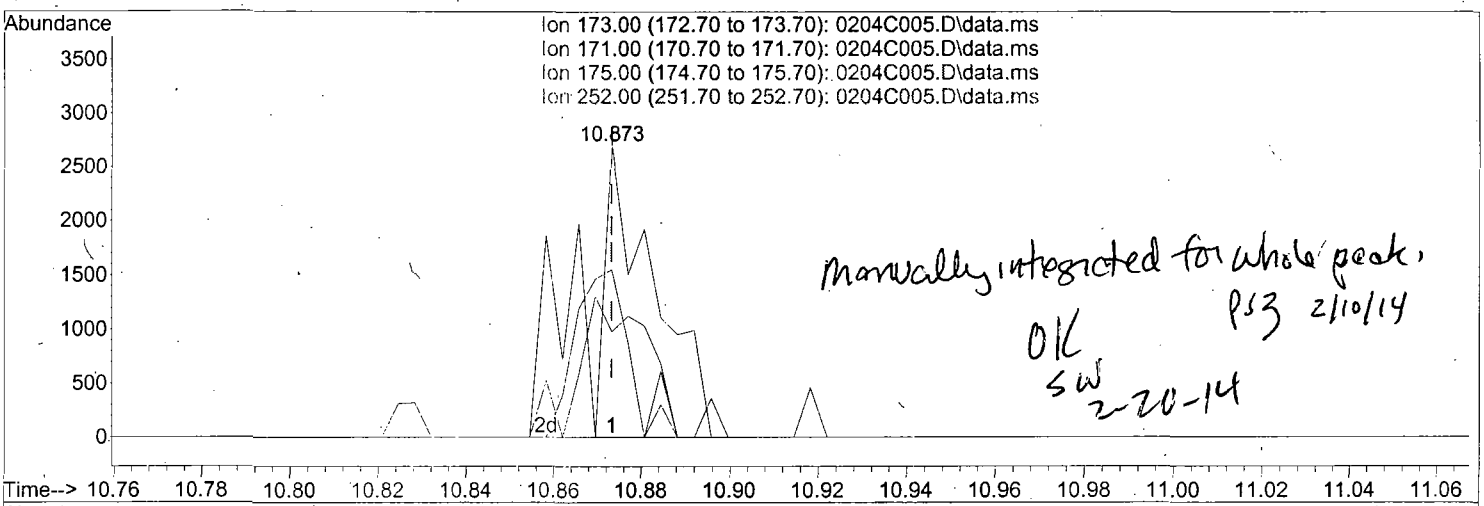
Ion	Exp%	Act%
173.00	100	100
171.00	54.30	68.01#
175.00	49.50	66.36#
252.00	9.60	0.00#

Freedom_0005792_0524

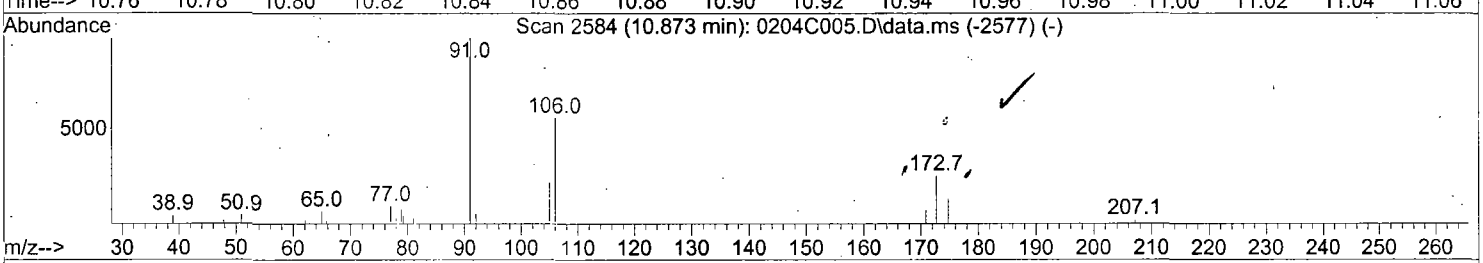
Quantitation Report (Qedit)

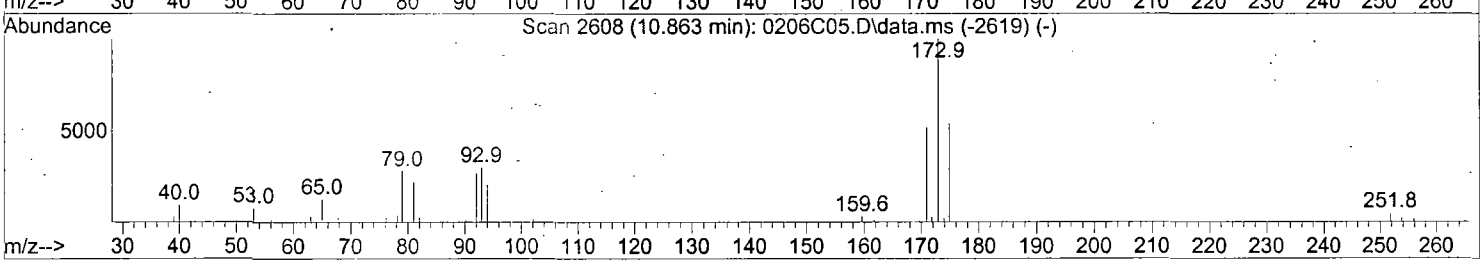
Data Path : D:\DATA\L02042014\
Data File : 0204C005.D
Acq On : 4 Feb 2014 12:29
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 12:58:53 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Jan 30 13:30:19 2014
Response via : Initial Calibration



Manually integrated for whole peak, PSZ 2/10/14
OK SW 2-20-14





TIC: 0204C005.D\data.ms

(51) BROMOFORM (TMCP)

10.873min (-0.000) 0.41 ug/L m

response 3089

Ion	Exp%	Act%
173.00	100	100
171.00	54.30	45.42
175.00	49.50	44.32
252.00	9.60	0.00#

Freedom_0005792_0525

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

for reference only
used to confirm 0.5ppb std
rerun.

Quant Time: Feb 04 16:42:02 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.532	114	144618	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.341	117	139401	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	78672	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.505	65	77947	5.44	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	=	108.80%	
41) TOLUENE-d8	8.620	98	176047	4.74	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	=	94.80%	
59) 4-BROMOFLUOROBENZENE	11.645	95	78548	4.93	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	=	98.60%	
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.303	85	8208	0.53	ug/L	90
3) CHLOROMETHANE	1.419	50	4348	0.55	ug/L #	80
4) VINYL CHLORIDE	1.528	62	6122m	0.64	ug/L	
5) BROMOMETHANE	1.787	94	4334m	0.66	ug/L	
6) CHLOROETHANE	1.888	64	3905m	0.63	ug/L	
7) TRICHLOROFLUOROMETHANE	2.334	101	13163	0.55	ug/L	94
8) ACETONE	2.469	43	1308	0.36	ug/L #	47
9) 1,1-DICHLOROETHENE	2.810	96	4799	0.63	ug/L	87
10) METHYLENE CHLORIDE	2.975	84	6487	0.56	ug/L #	64
11) Freon 113	3.054	101	6485	0.53	ug/L #	79
12) CARBON DISULFIDE	3.095	76	17686	0.56	ug/L #	94
13) METHYL ACETATE	3.095	43	4010m	0.64	ug/L	
14) TRANS-1,2-DICHLOROETHENE	3.691	96	6527m	0.60	ug/L	
15) METHYL-TERT-BUTYL ETHER	3.886	73	14198	0.52	ug/L #	92
16) 1,1-DICHLOROETHANE	3.964	63	12282m	0.59	ug/L	
17) VINYL ACETATE	4.264	43	6273m	0.45	ug/L	
19) CIS-1,2-DICHLOROETHENE	4.620	96	7453m	0.62	ug/L	
20) BROMOCHLOROMETHANE	4.778	128	2638m	0.46	ug/L	
21) CHLOROFORM	4.864	83	14461	0.62	ug/L	94
22) 2,2-DICHLOROPROPANE	4.924	77	7770	0.51	ug/L #	79
24) 1,2-DICHLOROETHANE	5.591	62	10607	0.57	ug/L #	91
25) 1,1,1-TRICHLOROETHANE	5.681	97	10852m	0.57	ug/L	
26) 1,1-DICHLOROPROPENE	5.914	75	8081	0.52	ug/L #	55
27) CYCLOHEXANE	5.970	56	9264	0.55	ug/L #	95
28) CARBON TETRACHLORIDE	6.082	117	9194	0.55	ug/L #	88
29) BENZENE	6.150	78	26099	0.55	ug/L	97
30) DIBROMOMETHANE	6.795	93	5023	0.63	ug/L #	12
31) 1,2-DICHLOROPROPANE	6.855	63	6344	0.56	ug/L #	84
32) TRICHLOROETHENE	6.918	130	7599	0.55	ug/L #	83
33) BROMODICHLOROMETHANE	6.967	83	8136	0.48	ug/L #	81
34) METHYLCYCLOHEXANE	7.477	83	8322	0.43	ug/L #	52
36) CIS-1,3-DICHLOROPROPENE	7.788	75	8043	0.51	ug/L #	87
38) 4-METHYL-2-PENTANONE	8.021	43	1306	0.16	ug/L #	46
39) TRANS-1,3-DICHLOROPROPENE	8.339	75	6926	0.47	ug/L #	59
40) 1,1,2-TRICHLOROETHANE	8.474	97	6721	0.60	ug/L	99
42) TOLUENE	8.703	92	15727	0.54	ug/L	99
43) 1,3-DICHLOROPROPANE	8.770	76	12236	0.59	ug/L	94
44) CHLORODIBROMOMETHANE	9.018	129	5248	0.46	ug/L #	85
45) 2-HEXANONE	9.104	43	1183	0.20	ug/L #	85
46) 1,2-DIBROMOETHANE (EDB)	9.291	107	4679	0.42	ug/L #	67

Freedom_0005792_0526

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:42:02 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
47)	TETRACHLOROETHENE	9.554	164	5934	0.60 ug/L		92
48)	1,1,1,2-TETRACHLOROETHANE	10.296	131	4988	0.49 ug/L		90
49)	CHLOROBENZENE	10.371	112	18691	0.57 ug/L		91
50)	ETHYLBENZENE	10.656	91	26518	0.48 ug/L		89
51)	BROMOFORM	10.869	173	3244	0.49 ug/L	#	45
52)	M-XYLENE/P-XYLENE	10.888	106	18156	0.88 ug/L		84
53)	STYRENE	11.211	104	25326	0.75 ug/L	#	90
54)	O-XYLENE	11.278	106	19132	0.85 ug/L		83
55)	ISOPROPYLBENZENE	11.649	105	27973	0.47 ug/L	#	89
57)	1,1,2,2-TETRACHLOROETHANE	11.263	83	5188	0.64 ug/L		100
58)	1,2,3-TRICHLOROPROPANE	11.402	75	8799	0.75 ug/L		91
60)	BROMOBENZENE	11.799	156	7918	0.60 ug/L	#	79
61)	N-PROPYLBENZENE	12.065	91	34430	0.49 ug/L		92
62)	2-CHLOROTOLUENE	12.107	91	23946	0.57 ug/L	#	82
63)	4-CHLOROTOLUENE	12.182	91	24390	0.53 ug/L		89
64)	1,3,5-TRIMETHYLBENZENE	12.361	105	20411	0.45 ug/L		91
65)	TERT-BUTYLBENZENE	12.568	119	18043	0.47 ug/L		89
66)	1,2,4-TRIMETHYLBENZENE	12.684	105	22312	0.48 ug/L		89
67)	SEC-BUTYLBENZENE	12.759	105	29279	0.46 ug/L		99
68)	1,3-DICHLOROBENZENE	12.766	146	16489	0.58 ug/L	#	93
69)	1,4-DICHLOROBENZENE	12.834	146	17237	0.60 ug/L	#	87
70)	P-ISOPROPYLTOLUENE	12.931	119	22932	0.46 ug/L	#	93
71)	1,2-DICHLOROBENZENE	13.115	146	16148m	0.60 ug/L		
72)	N-BUTYLBENZENE	13.265	91	20469	0.38 ug/L	#	93
73)	1,2-DIBROMO-3-CHLOROPR...	13.482	75	696m	0.37 ug/L		
74)	1,2,4-TRICHLOROBENZENE	14.554	180	10482	0.53 ug/L	#	94
75)	NAPHTHALENE	14.731	128	13061	0.34 ug/L		97
76)	HEXACHLOROBUTADIENE	14.806	225	5845	0.52 ug/L	#	82
77)	1,2,3-TRICHLOROBENZENE	14.881	180	10328	0.53 ug/L	#	91

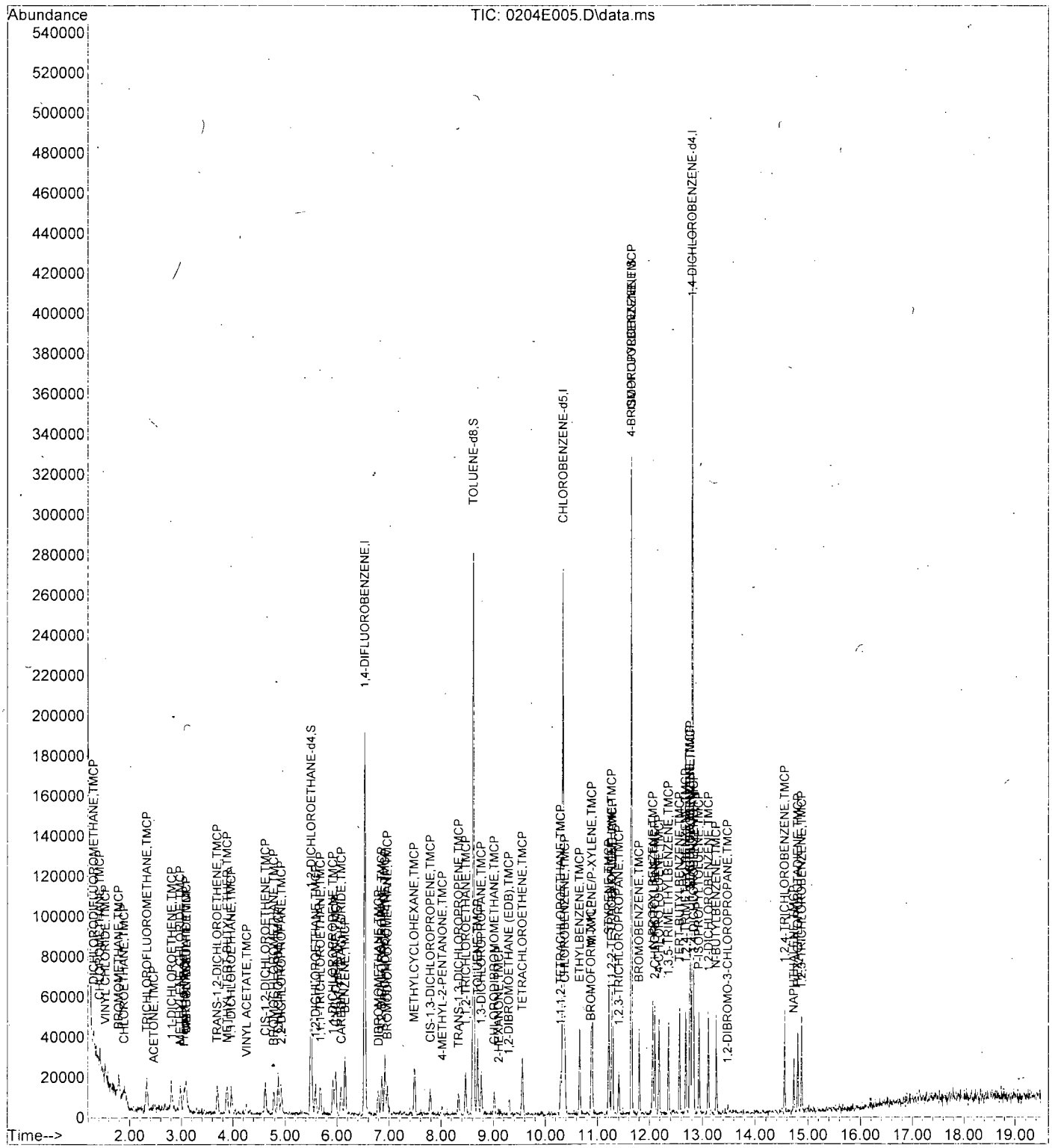
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0527

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:42:02 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration

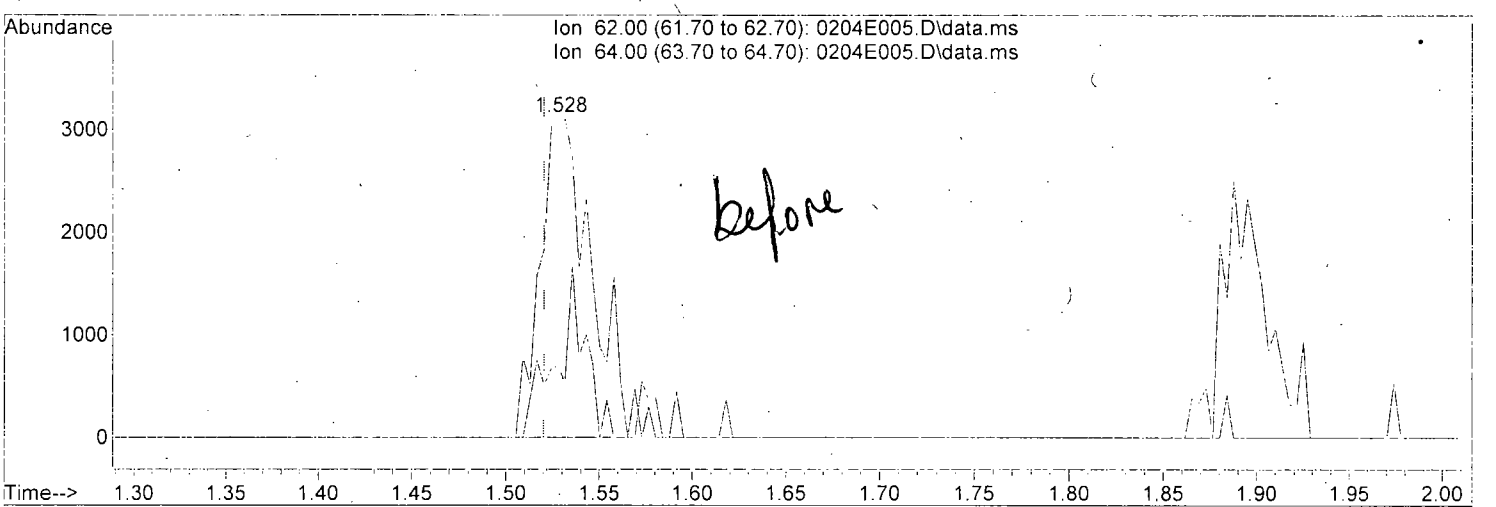


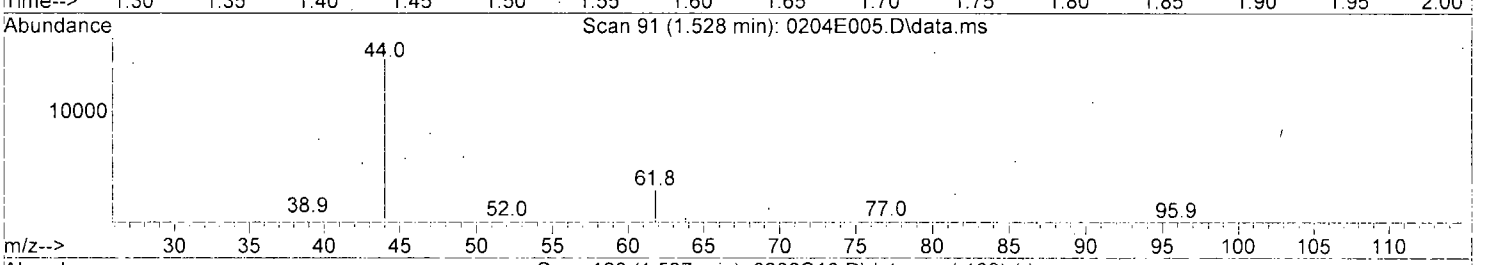
Freedom_0005792_0528

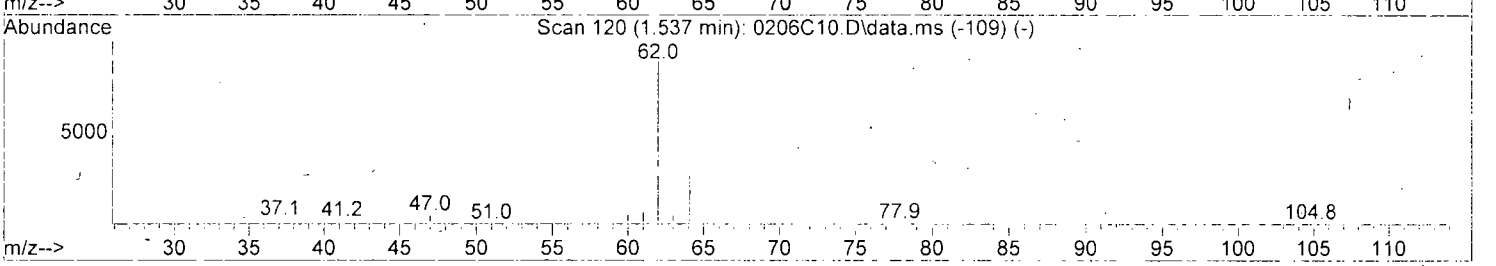
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0204E005.D\data.ms

(4) VINYL CHLORIDE (TMCP)

1.528min (+0.007) 0.61 ug/L

response 5830

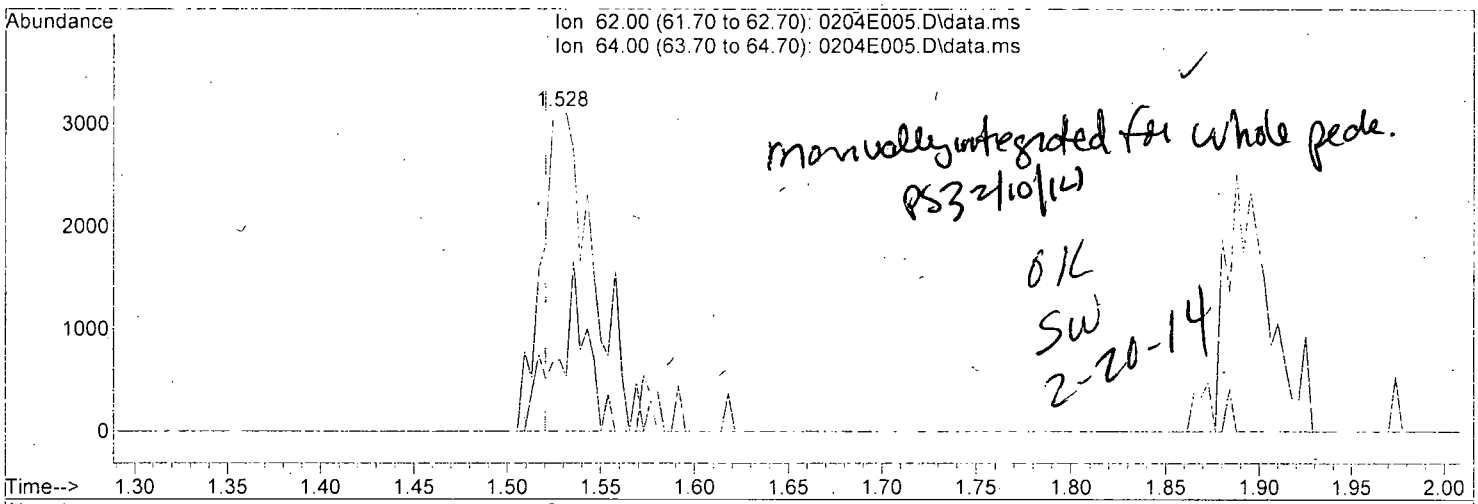
Ion	Exp%	Act%
62.00	100	100
64.00	31.90	31.23
0.00	0.00	0.00
0.00	0.00	0.00

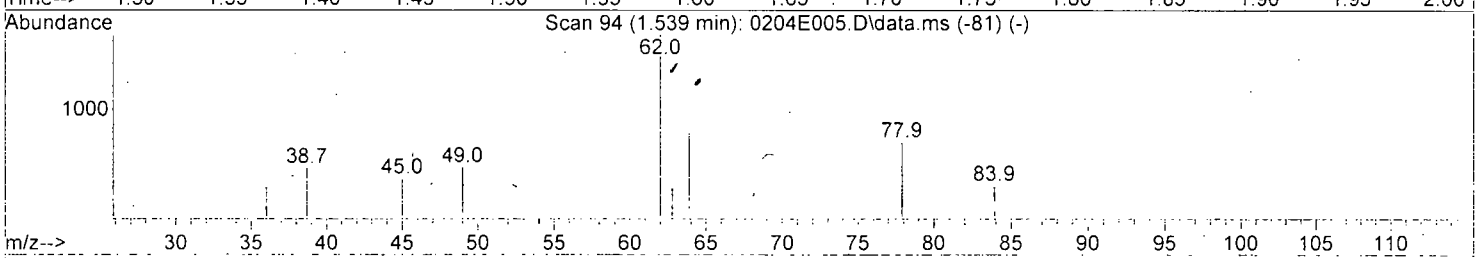
Freedom_0005792_0529

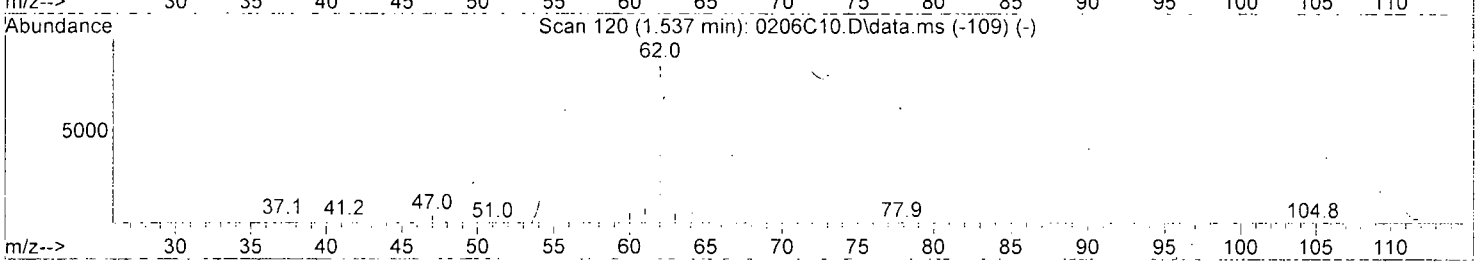
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0204E005.D\data.ms

(4) VINYL CHLORIDE (TMCP)

1.528min (+0.007) 0.64 ug/L m

response 6122

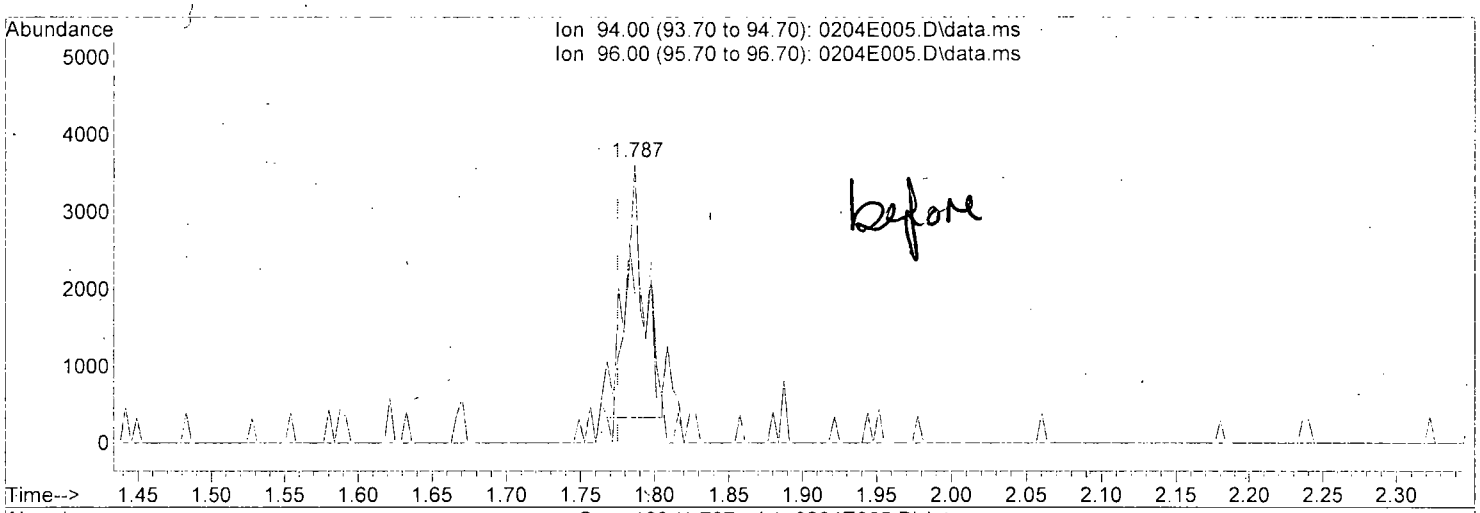
Ion	Exp%	Act%
62.00	100	100
64.00	31.90	29.75
0.00	0.00	0.00
0.00	0.00	0.00

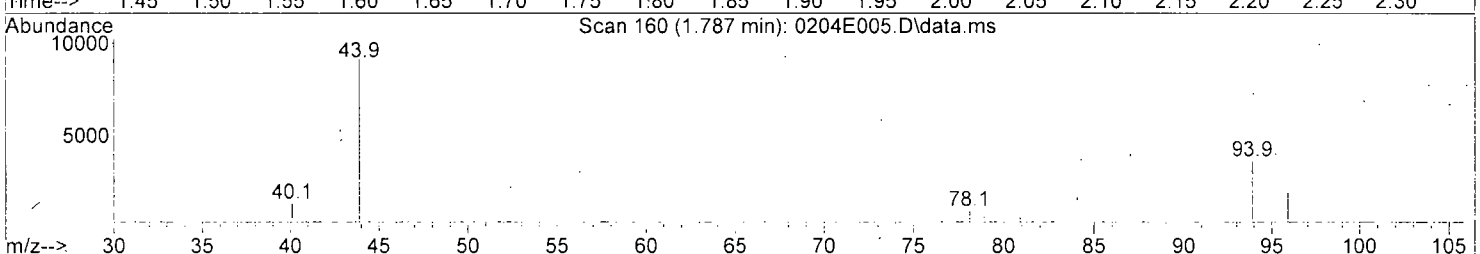
Freedom_0005792_0530

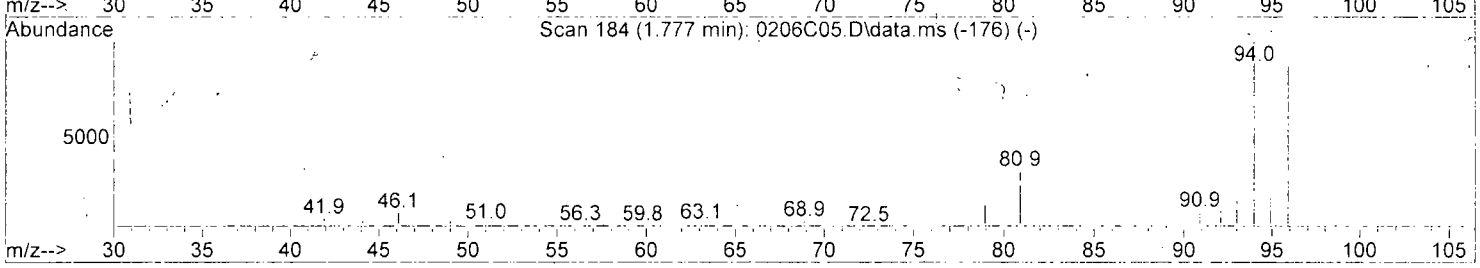
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0204E005.D\data.ms

(5) BROMOMETHANE (TMCP)

1.787min (+0.011) 0.43 ug/L

response 2820

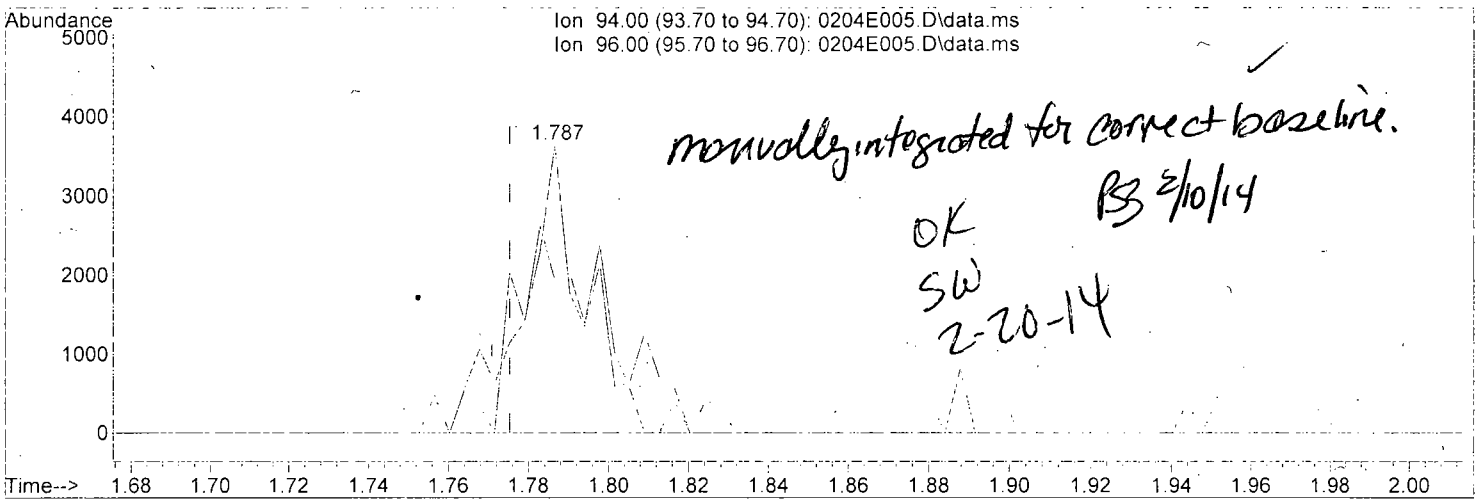
Ion	Exp%	Act%
94.00	100	100
96.00	93.10	133.72#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0531

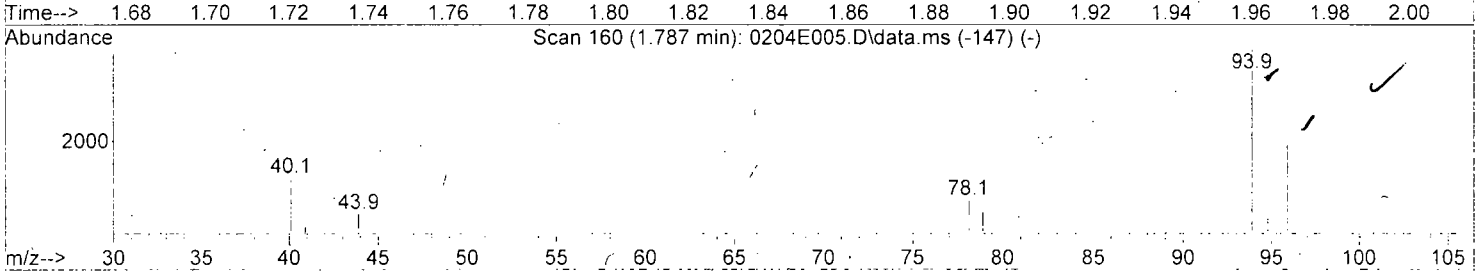
Quantitation Report (Qedit)

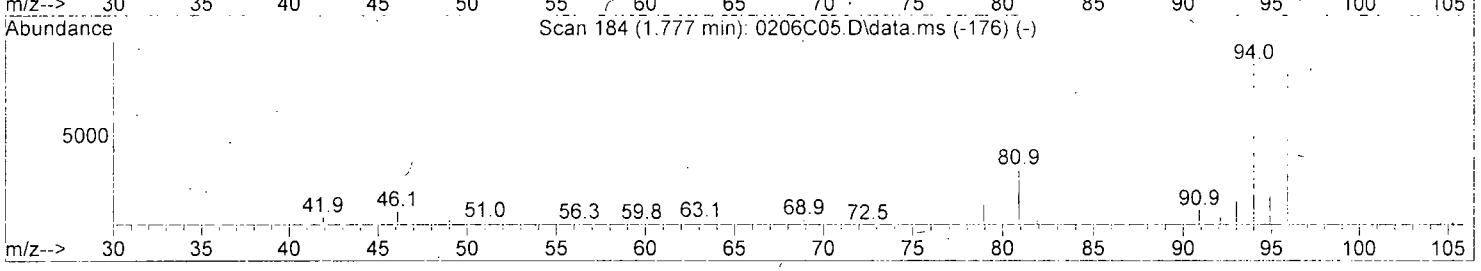
Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration



manually integrated for correct baseline.
BS 2/10/14
OK
SW
2-20-14





TIC: 0204E005.D\data.ms

(5) BROMOMETHANE (TMCP)

1.787min (+0.011) 0.66 ug/L m

response 4334

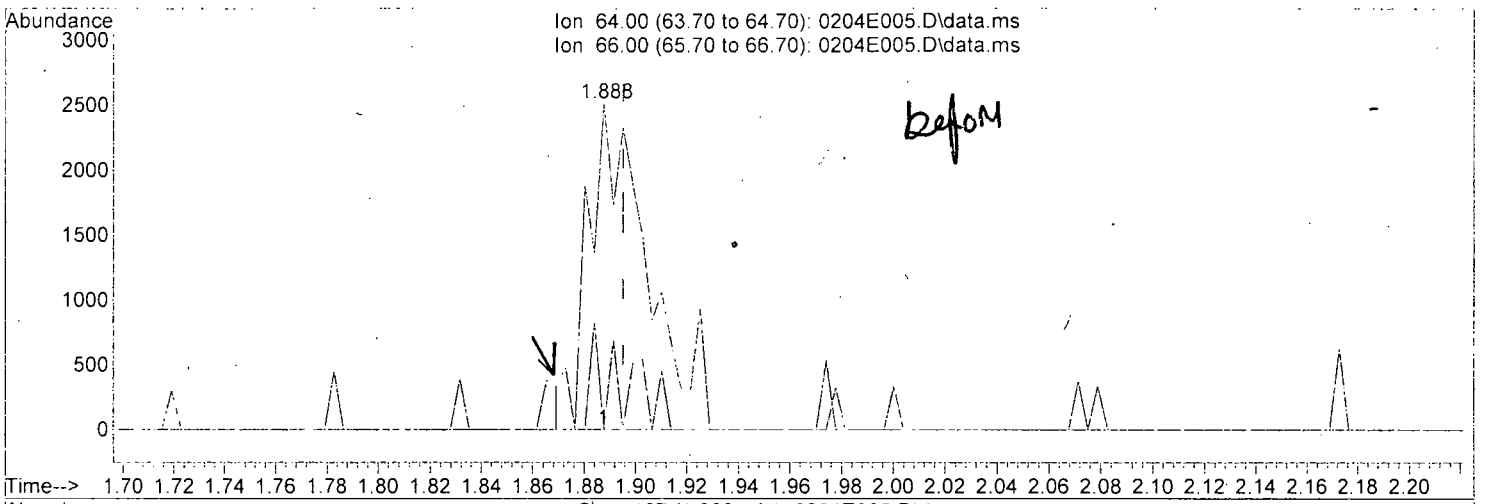
Ion	Exp%	Act%
94.00	100	100
96.00	93.10	87.01
0.00	0.00	0.00
0.00	0.00	0.00

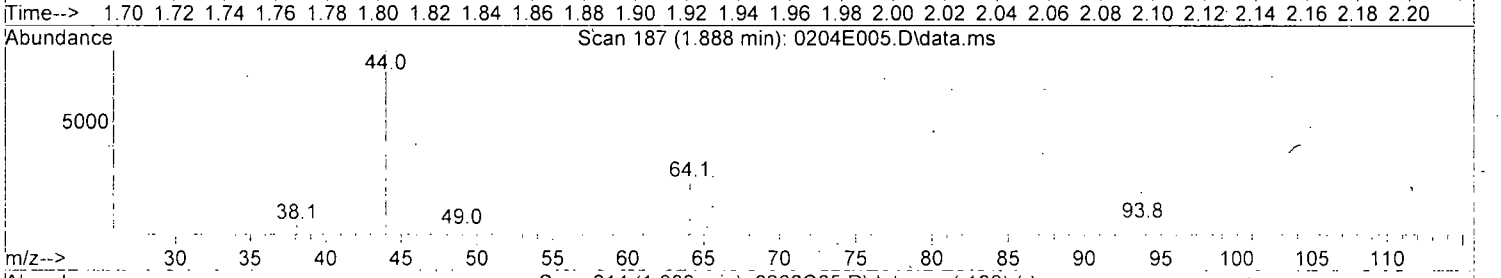
Freedom_0005792_0532

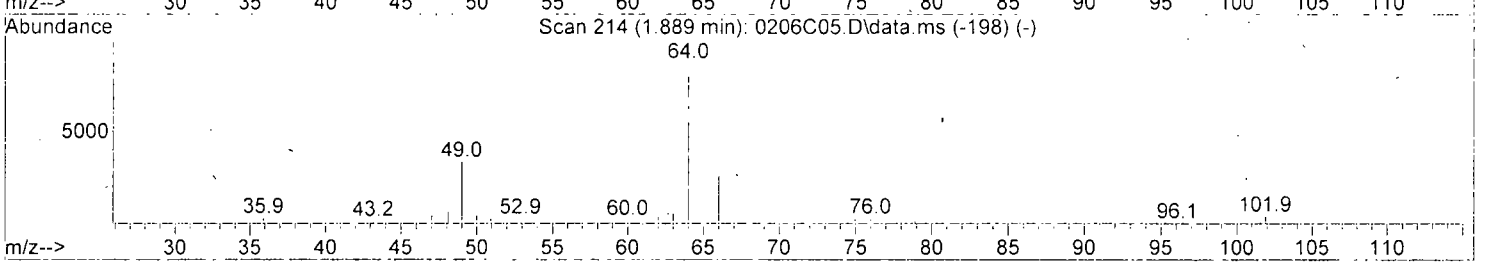
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0204E005.D\data.ms

(6) CHLOROETHANE (TMCP)

1.888min (-0.008) 0.65 ug/L

response 4014

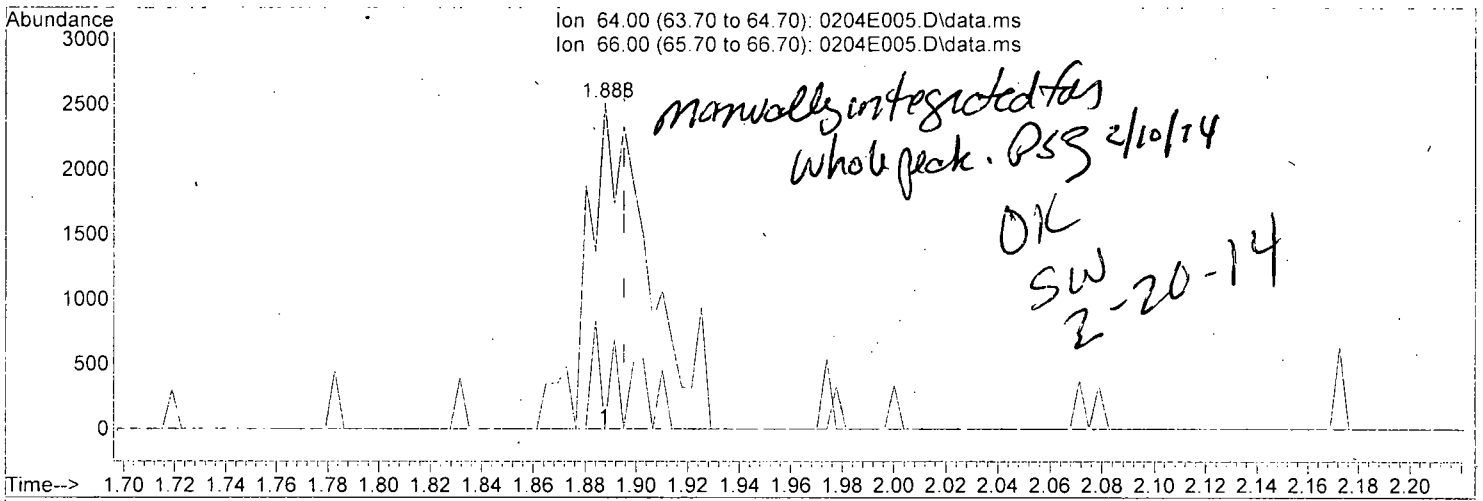
Ion	Exp%	Act%
64.00	100	100
66.00	31.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0533

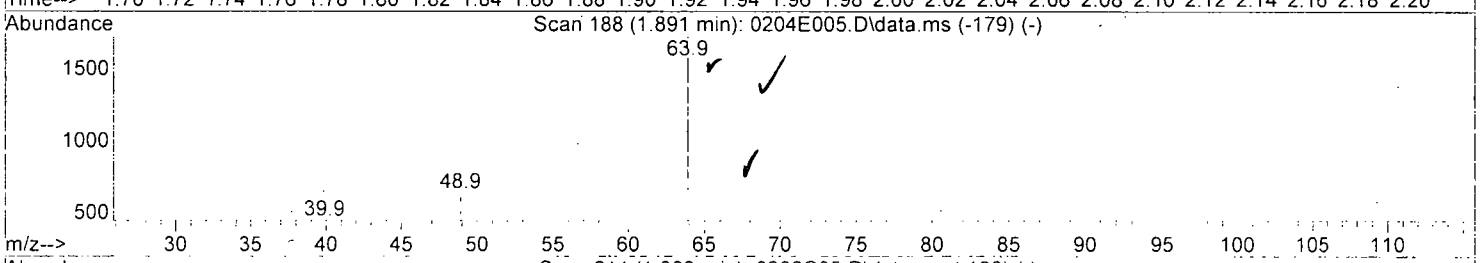
Quantitation Report (Qedit)

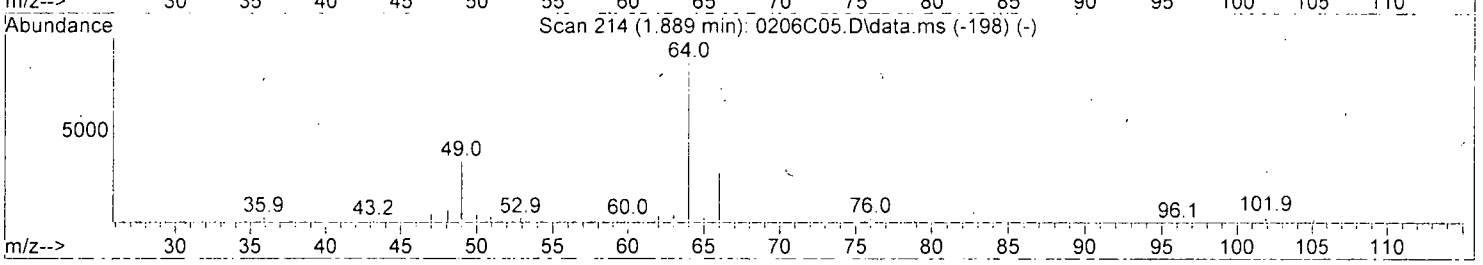
Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration



manually integrated for whole peak. PSS 2/10/14
OK
SW 2-20-14





TIC: 0204E005.D\data.ms

(6) CHLOROETHANE (TMCP)

1.888min (-0.008) 0.63 ug/L m

response 3905

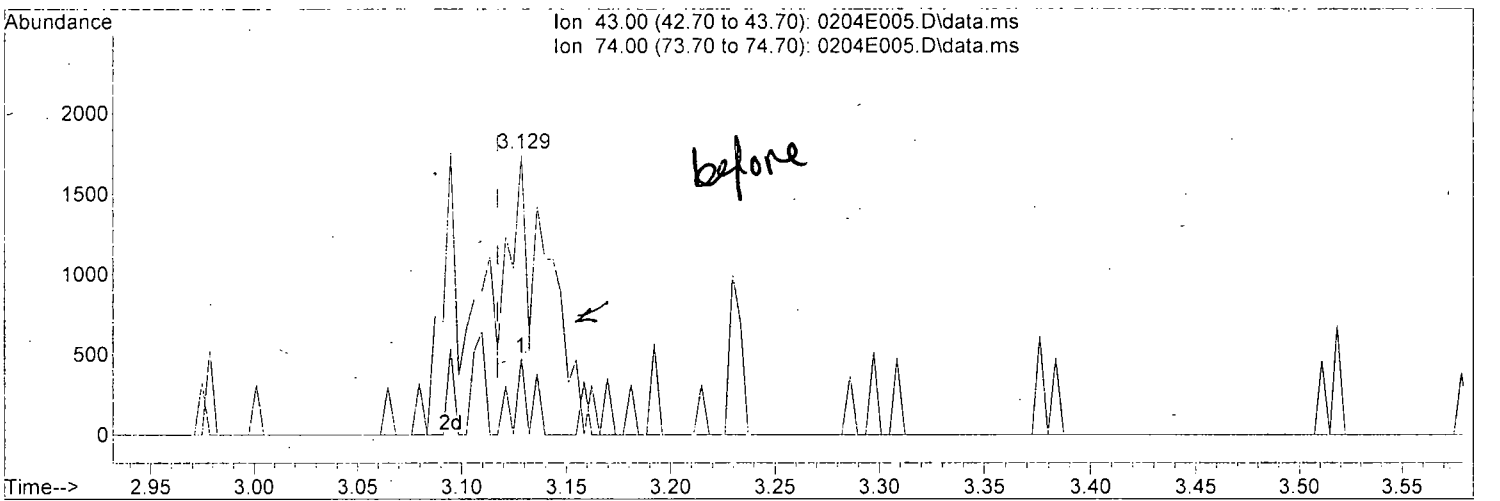
Ion	Exp%	Act%
64.00	100	100
66.00	31.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

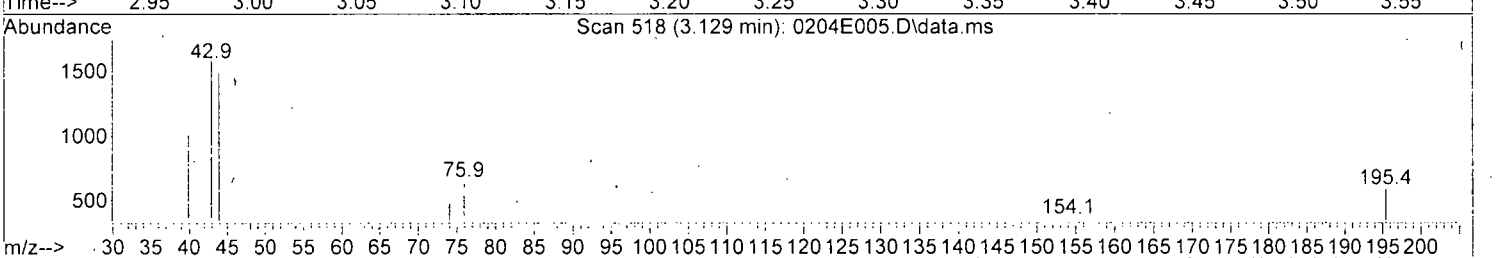
Freedom_0005792_0534

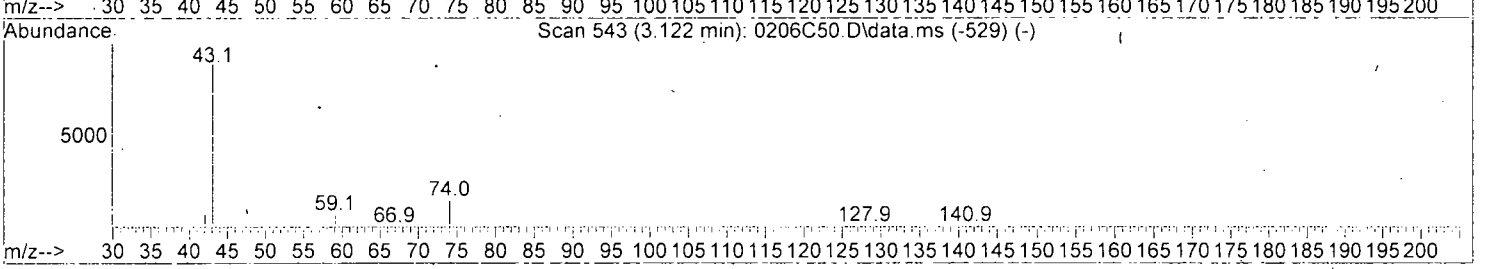
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0204E005.D\data.ms

(13) METHYL ACETATE (TMCP)

3.129min (+0.011) 0.10 ug/L

response 609

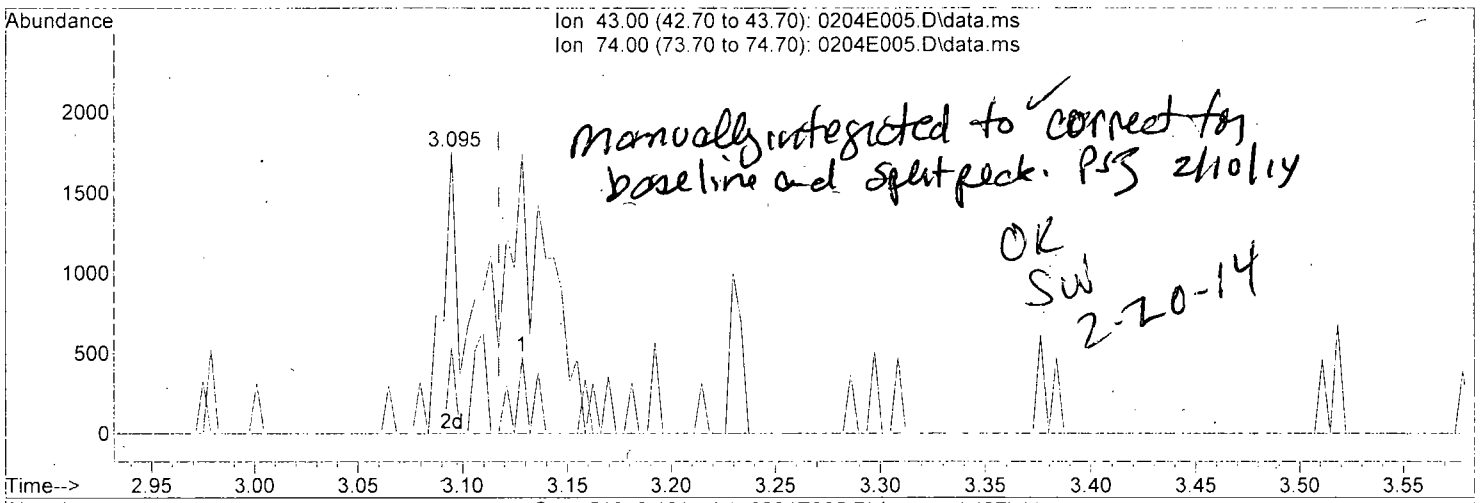
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0535

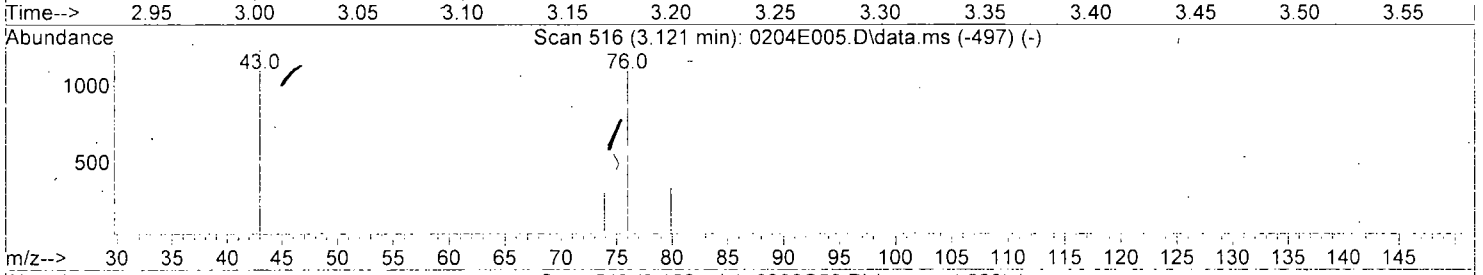
Quantitation Report (Qedit)

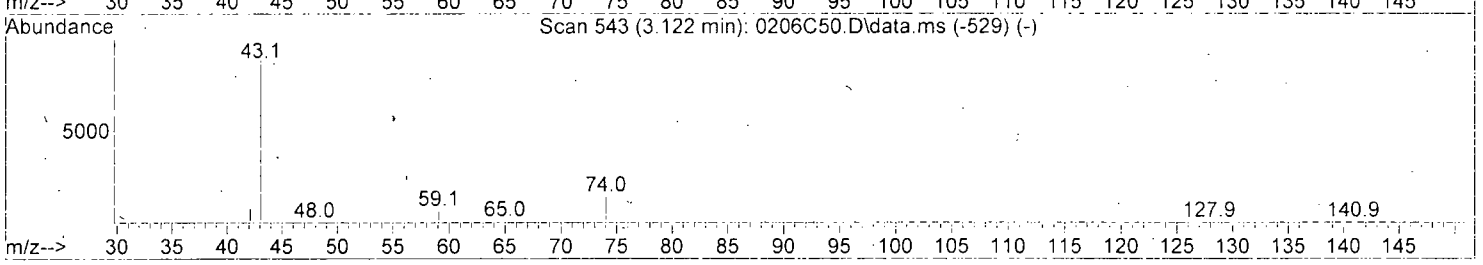
Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration



manually integrated to correct for baseline and split peak. PSJ 2/10/14
OK
SW
2-20-14





TIC: 0204E005.D\data.ms

(13) METHYL ACETATE (TMCP)

3.095min (-0.023) 0.64 ug/L m

response 4010

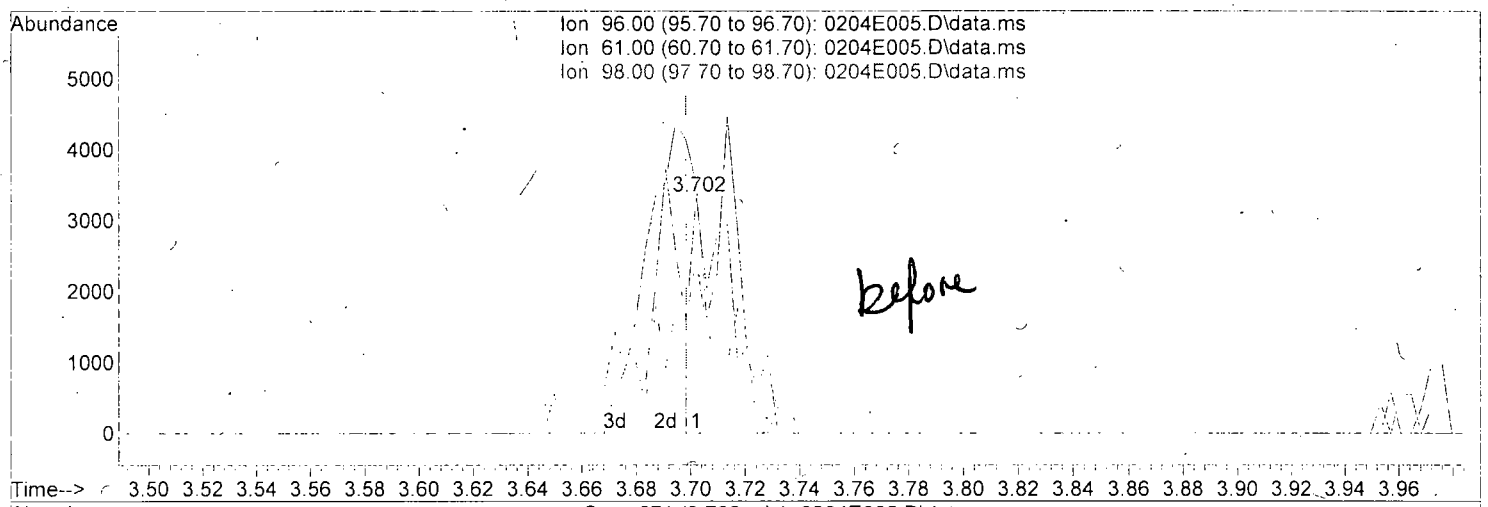
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

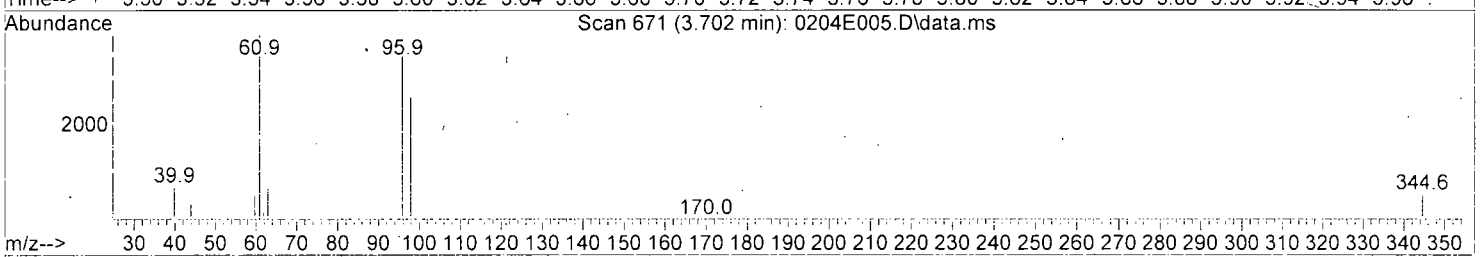
Freedom_0005792_0536

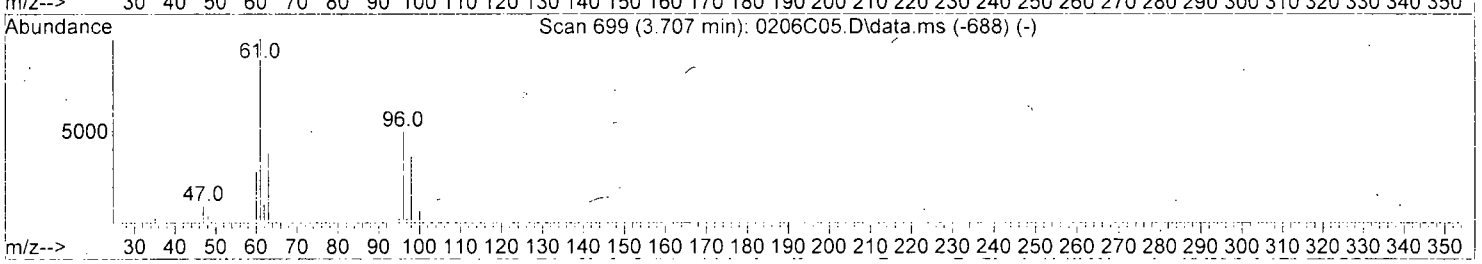
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0204E005.D\data.ms

(14) TRANS-1,2-DICHLOROETHENE (TMCP)

3.702min (+0.004) 0.28 ug/L

response 3008

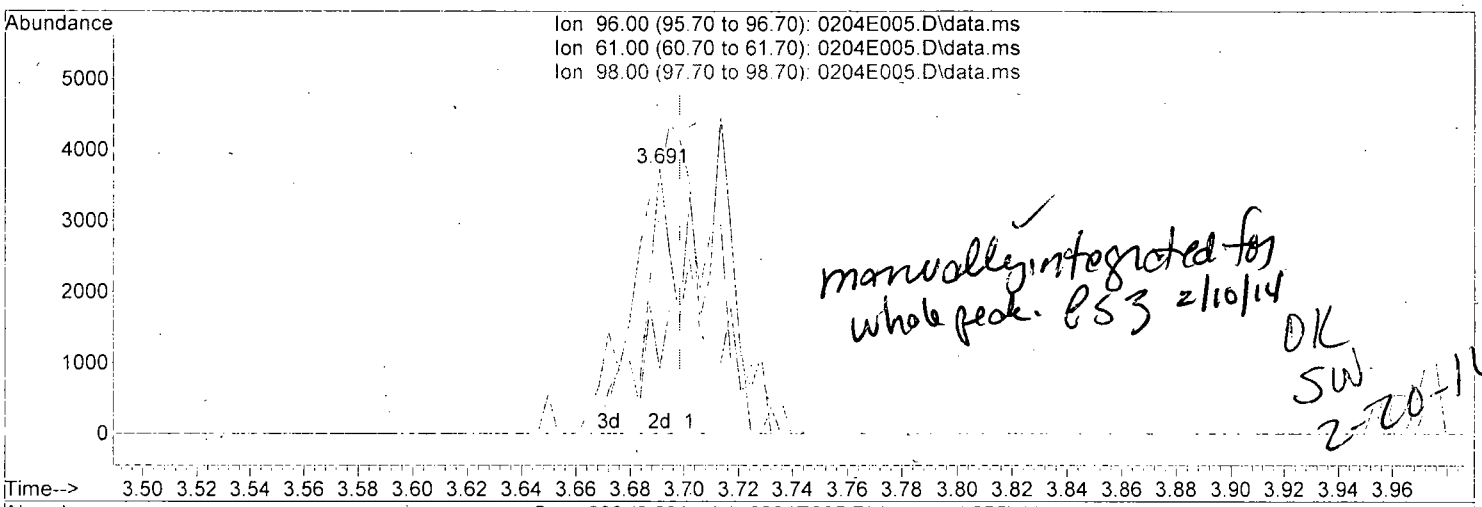
Ion	Exp%	Act%
96.00	100	100
61.00	148.60	92.52#
98.00	63.30	147.64#
0.00	0.00	0.00

Freedom_0005792_0537

Quantitation Report (Qedit)

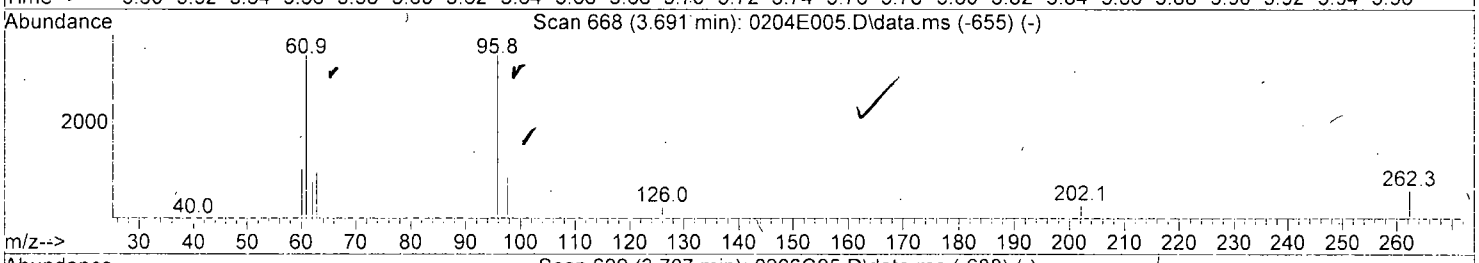
Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

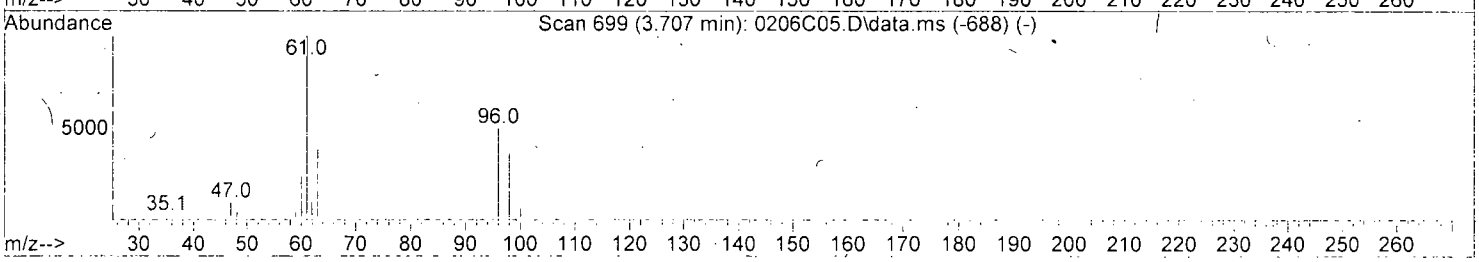
Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration



manually integrated for whole peak. LS3 2/10/14

OK SW 2-20-14





TIC: 0204E005.D\data.ms

(14) TRANS-1,2-DICHLOROETHENE (TMCP)

3.691min (-0.008) 0.60 ug/L m

response 6527

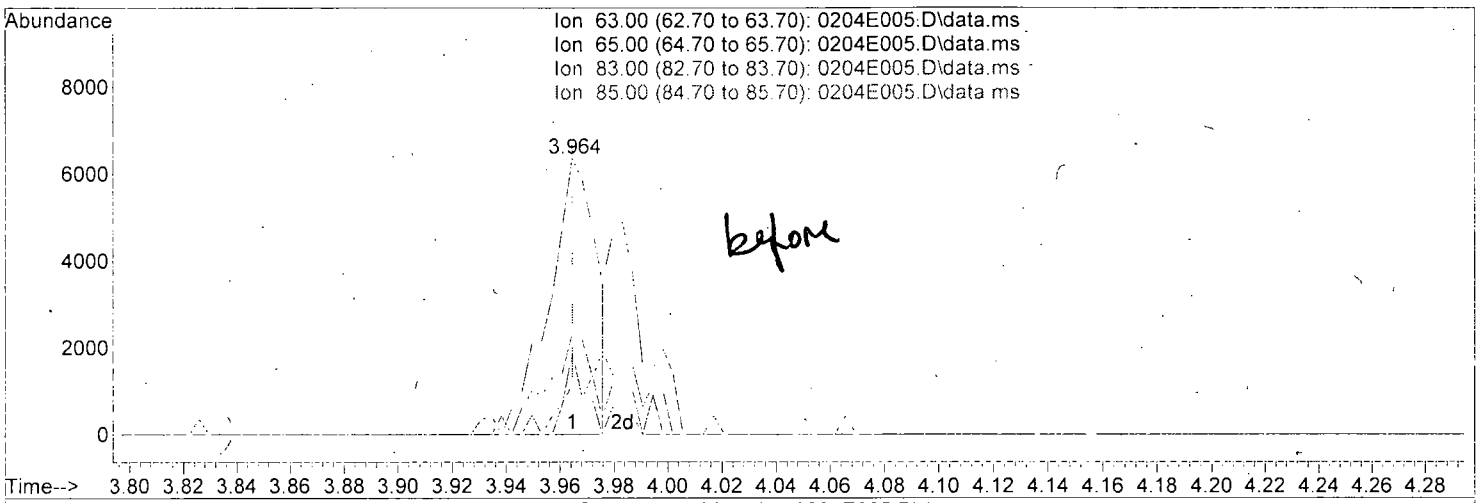
Ion	Exp%	Act%
96.00	100	100
61.00	148.60	42.64#
98.00	63.30	68.04
0.00	0.00	0.00

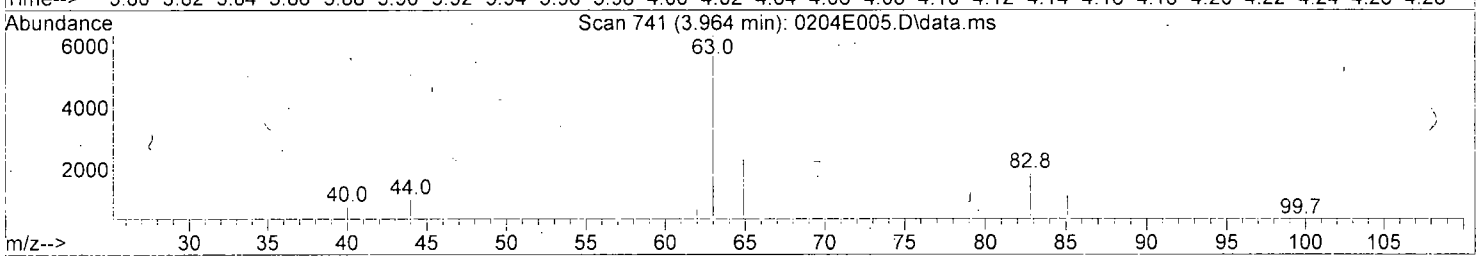
Freedom_0005792_0538

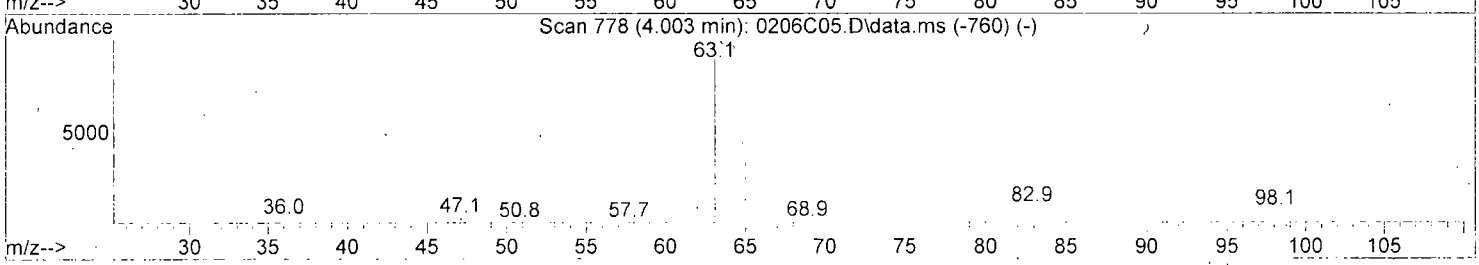
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0204E005.D\data.ms

(16) 1,1-DICHLOROETHANE (TMCP)

3.964min (-0.000) 0.38 ug/L

response 7853

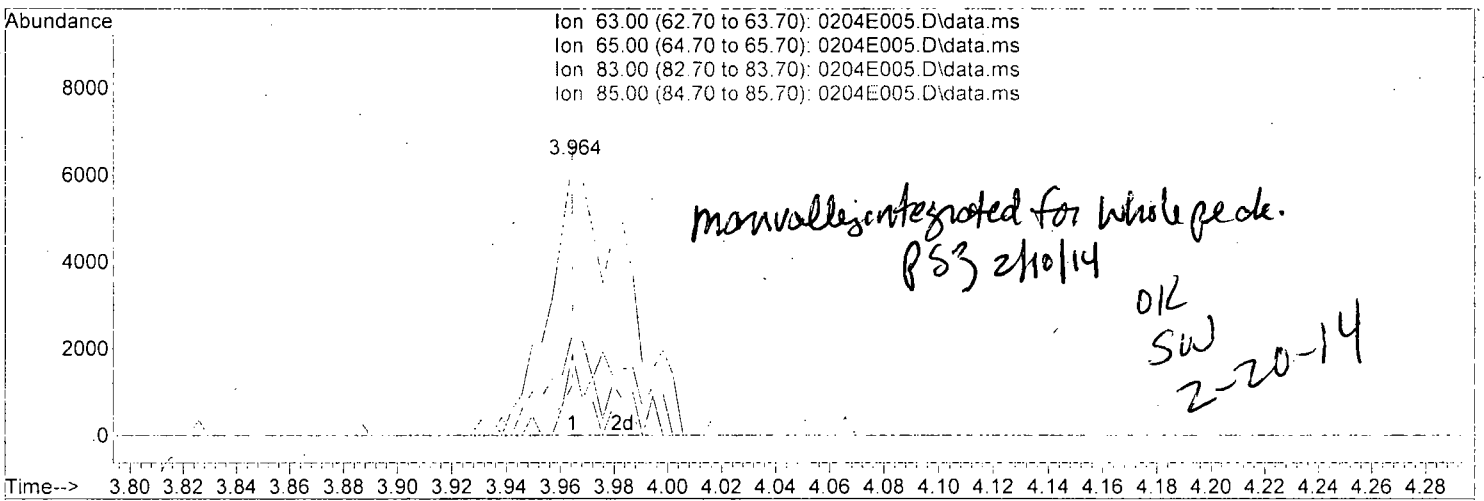
Ion	Exp%	Act%
63.00	100	100
65.00	31.30	57.80#
83.00	13.20	14.71
85.00	8.60	11.70#

Freedom_0005792_0539

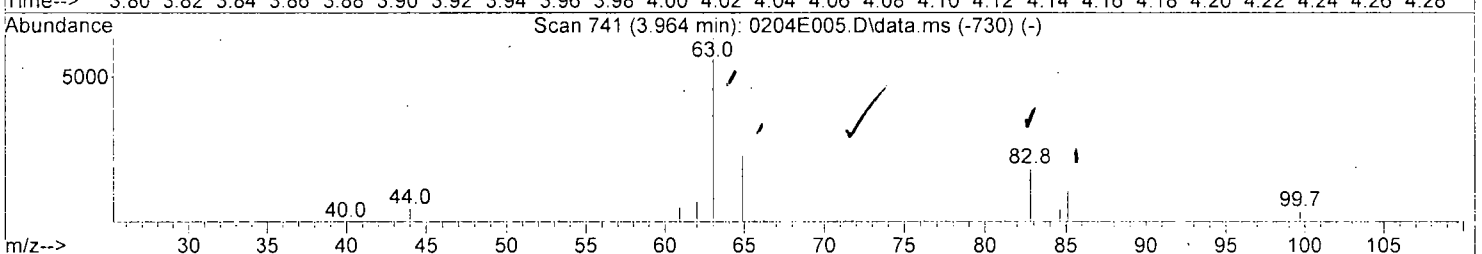
Quantitation Report (Qedit)

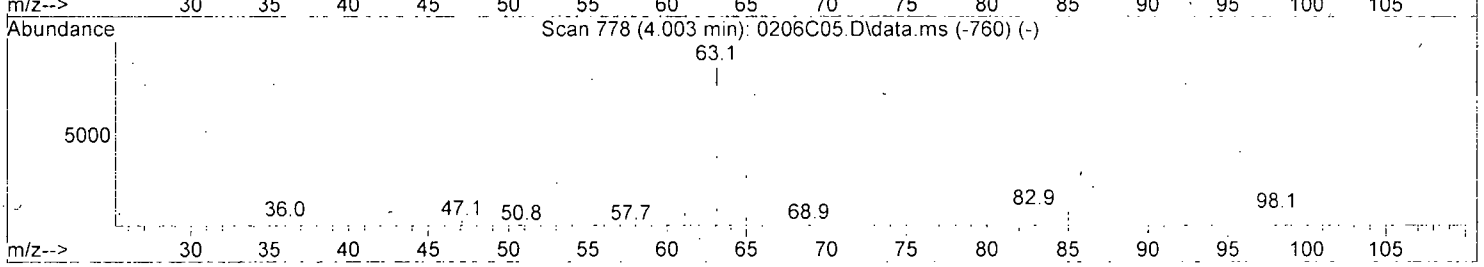
Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration



manually integrated for whole peak.
PSJ 2/10/14
OK
SW
2-20-14





TIC: 0204E005.D\data.ms

(16) 1,1-DICHLOROETHANE (TMCP)

3.964min (-0.000) 0.59 ug/L m

response 12282

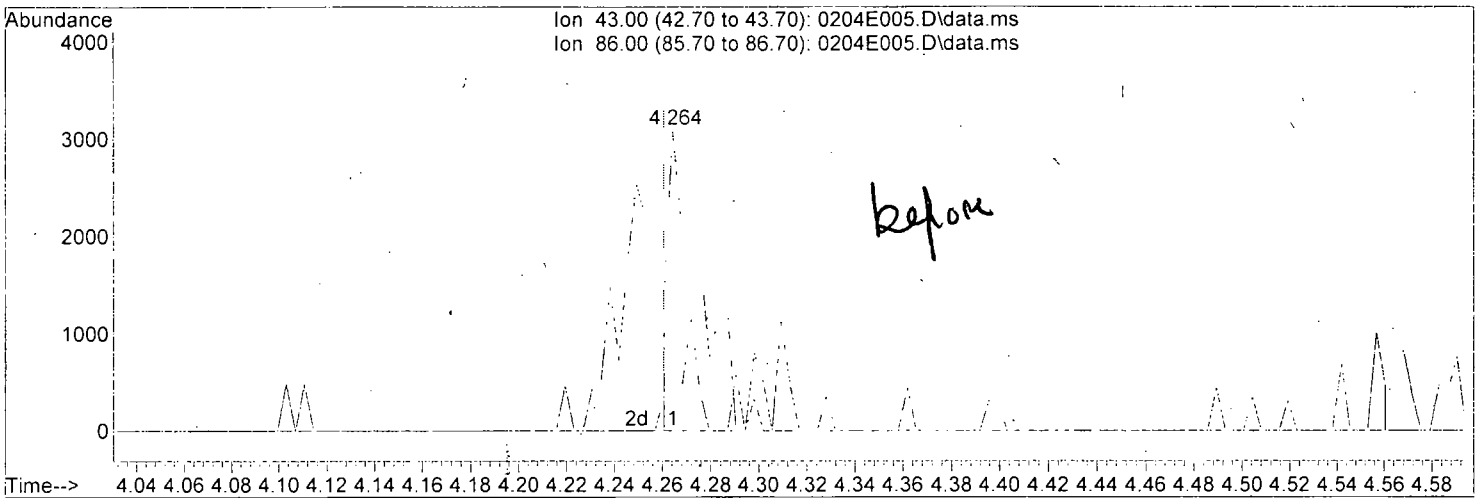
Ion	Exp%	Act%
63.00	100	100
65.00	31.30	36.96
83.00	13.20	9.40#
85.00	8.60	7.48

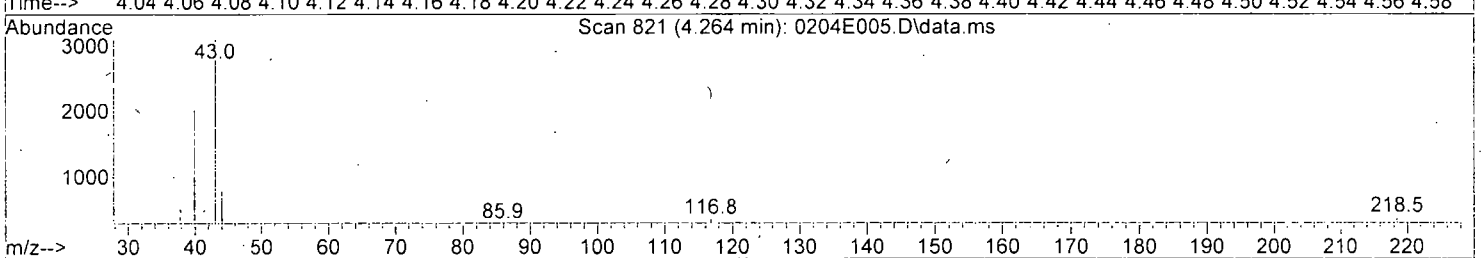
Freedom_0005792_0540

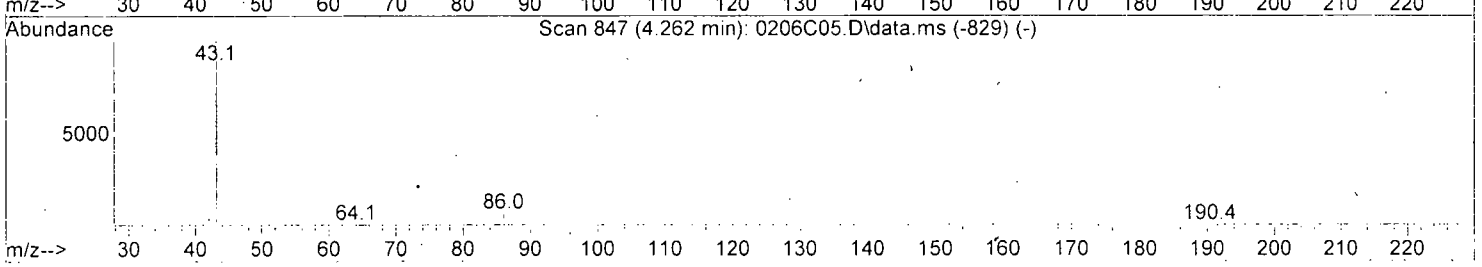
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0204E005.D\data.ms

(17) VINYL ACETATE (TMCP)

4.264min (+0.004) 0.20 ug/L

response 2729

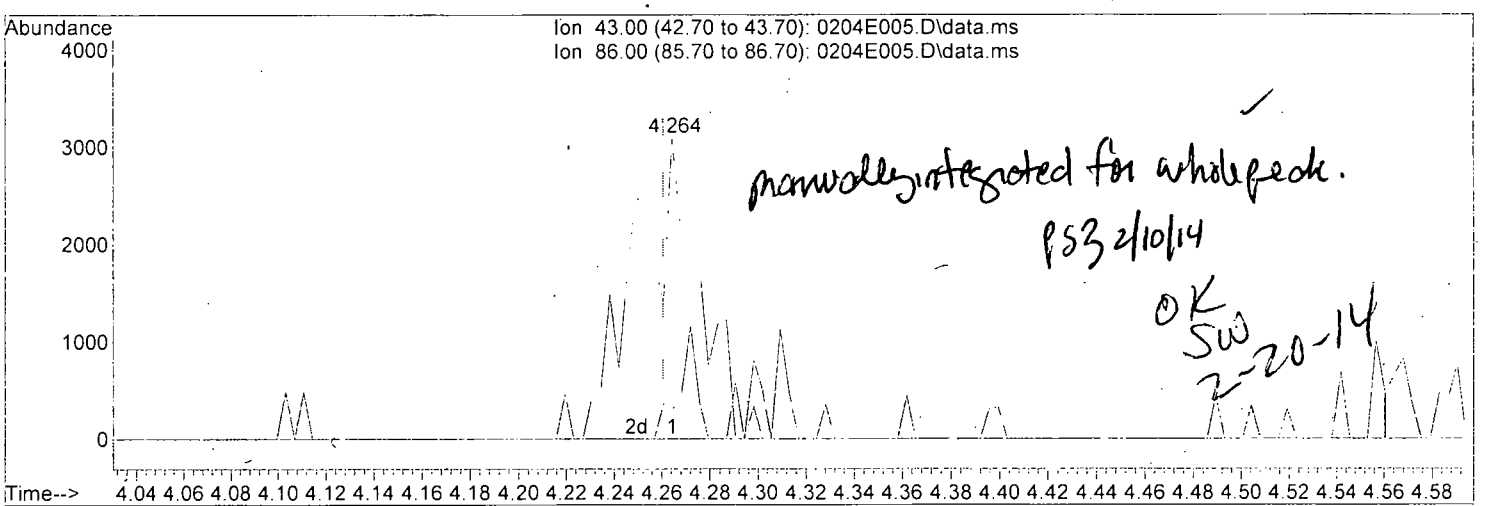
Ion	Exp%	Act%
43.00	100	100
86.00	8.90	21.77#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0541

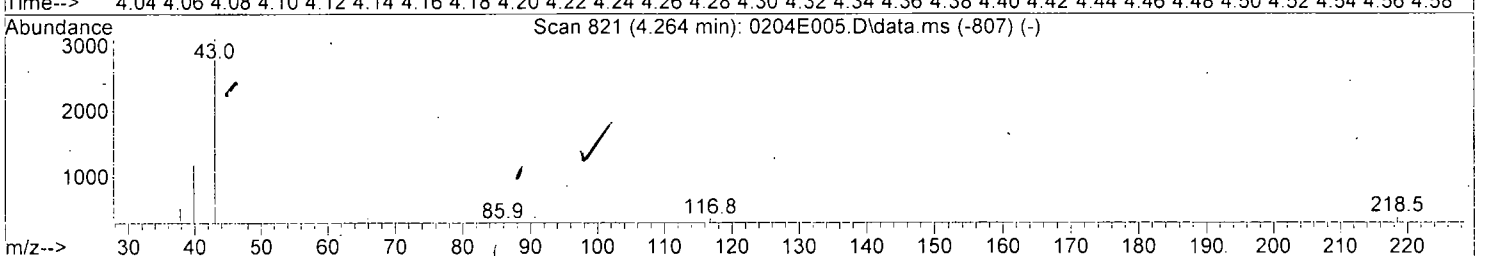
Quantitation Report (Qedit)

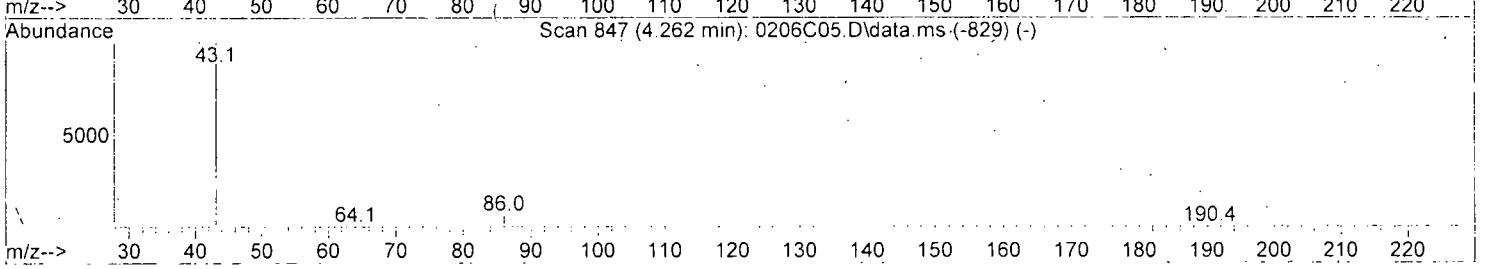
Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration



manually integrated for whole peak.
PSZ 2/10/14
OK
SW
2-20-14





TIC: 0204E005.D\data.ms

(17) VINYL ACETATE (TMCP)

4.264min (+0.004) 0.45 ug/L m

response 6273

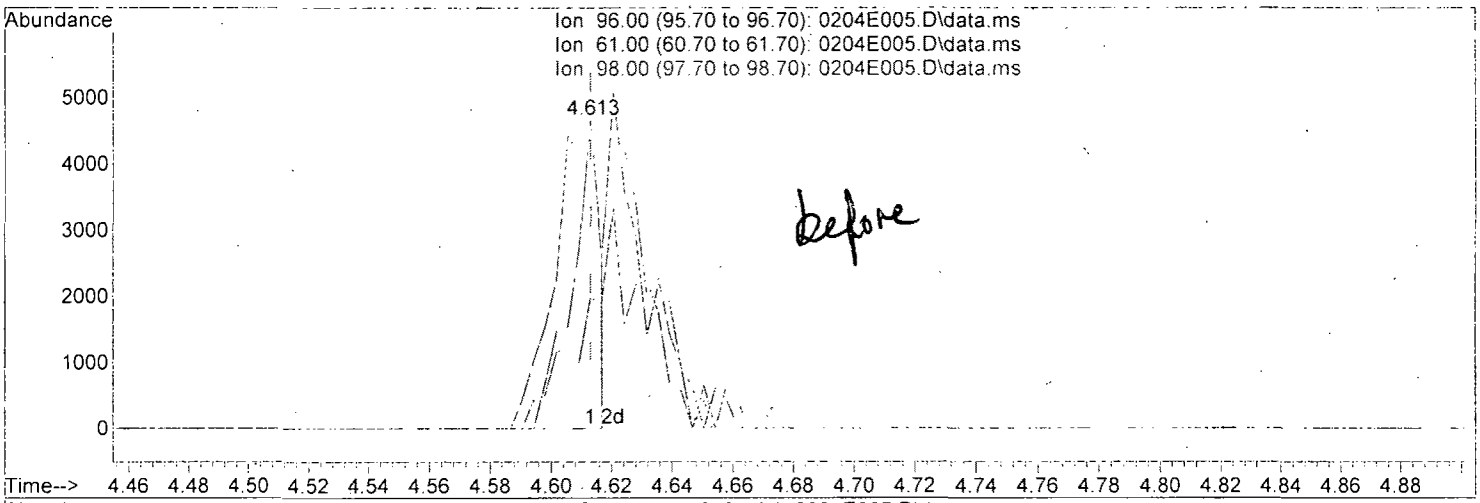
Ion	Exp%	Act%
43.00	100	100
86.00	8.90	9.47
0.00	0.00	0.00
0.00	0.00	0.00

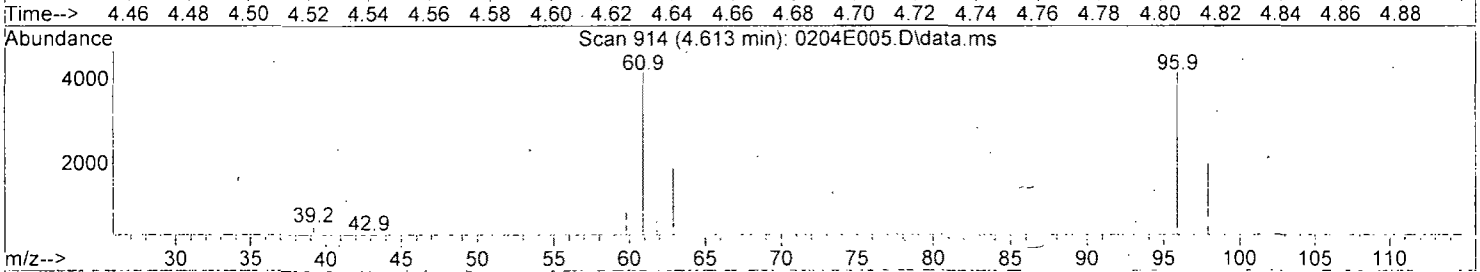
Freedom_0005792_0542

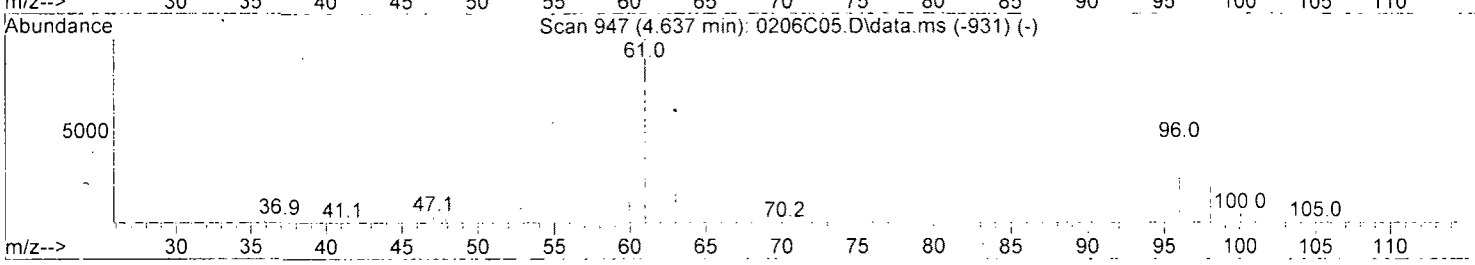
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0204E005.D\data.ms

(19) CIS-1,2-DICHLOROETHENE (TMCP)

4.613min (-0.000) 0.25 ug/L

response 3067

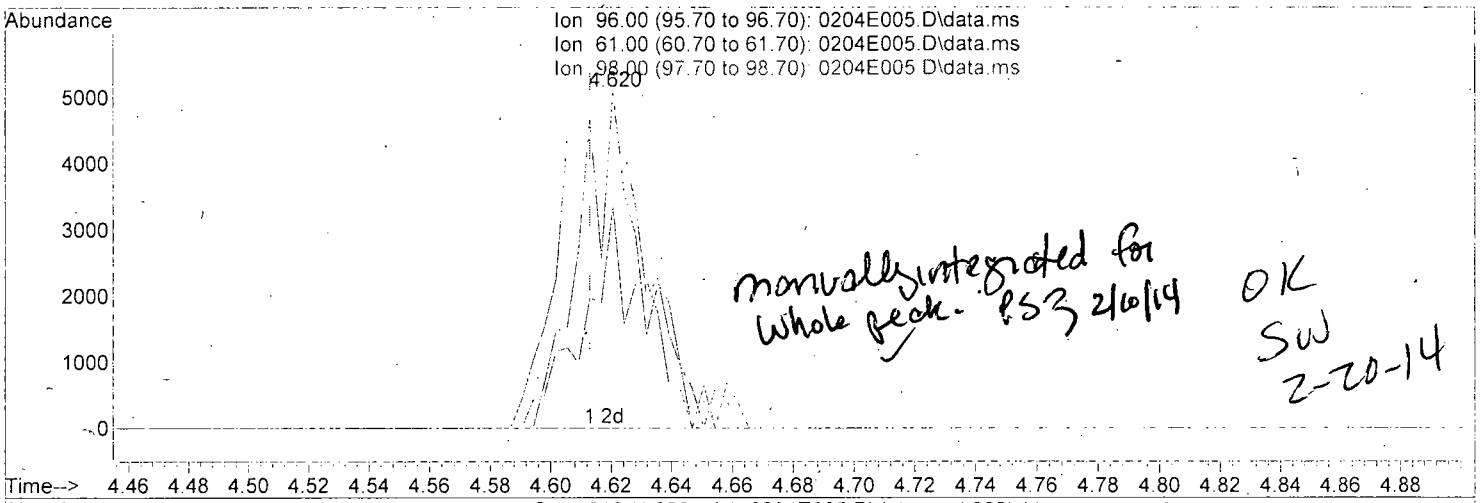
Ion	Exp%	Act%
96.00	100	100
61.00	137.40	0.00#
98.00	64.60	0.00#
0.00	0.00	0.00

Freedom_0005792_0543

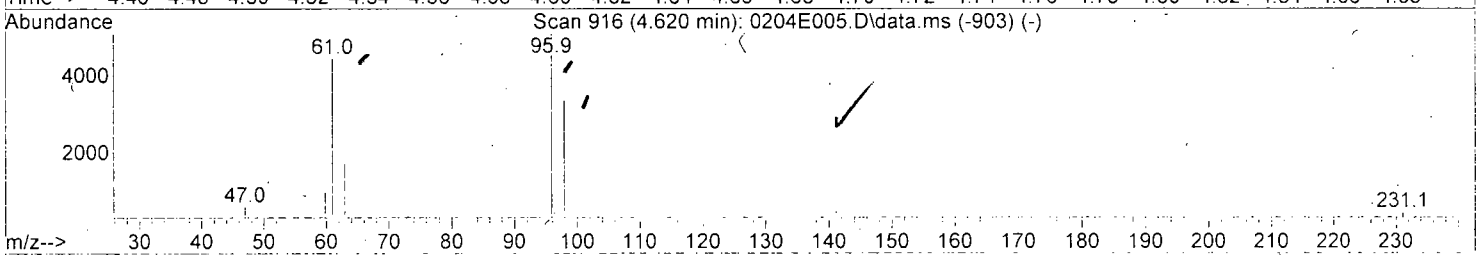
Quantitation Report (Qedit)

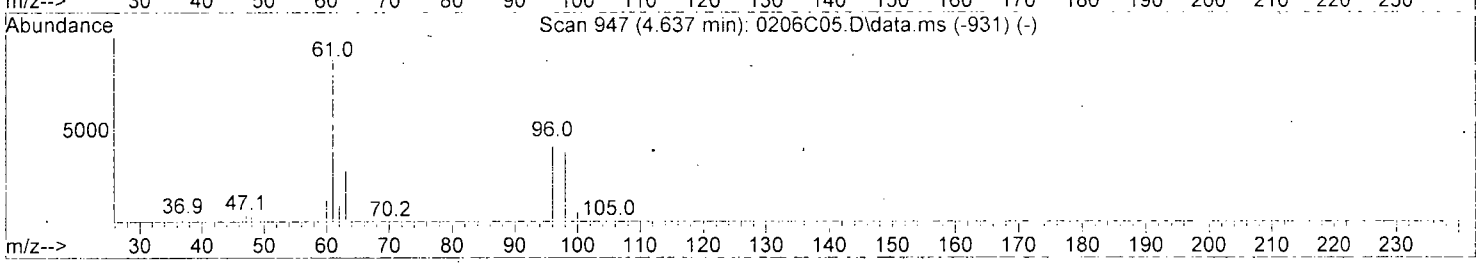
Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration



manually integrated for whole peak. PS3 2/6/14 OK SW 2-20-14





TIC: 0204E005.D\data.ms

(19) CIS-1,2-DICHLOROETHENE (TMCP)

4.620min (+0.007) 0.62 ug/L m

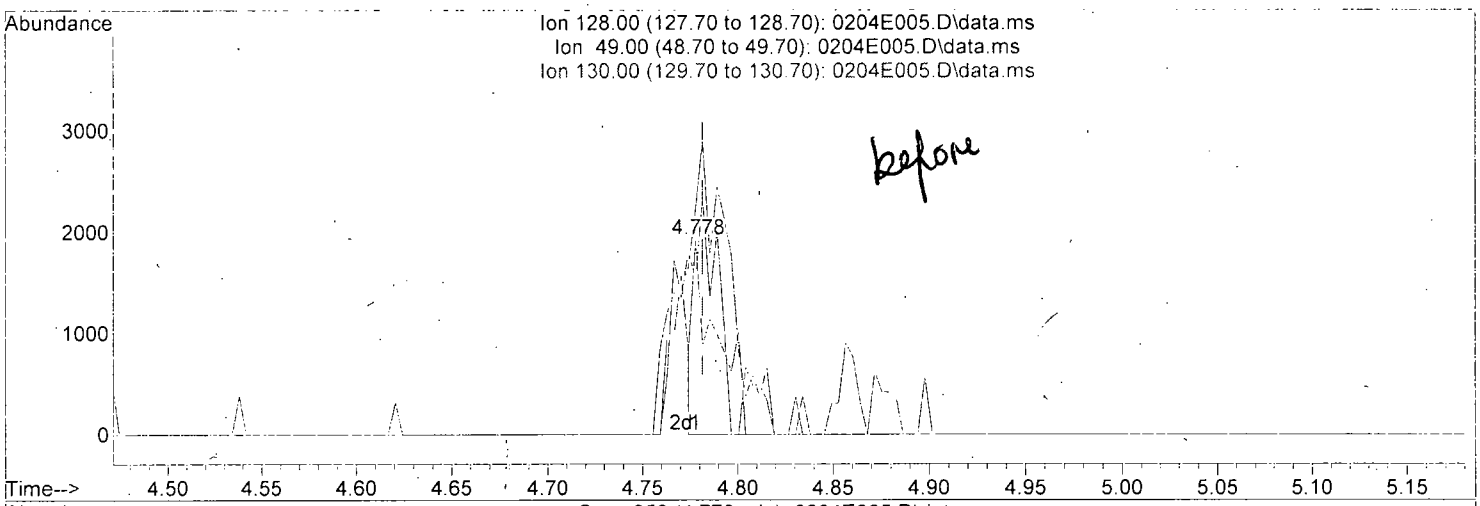
response 7453

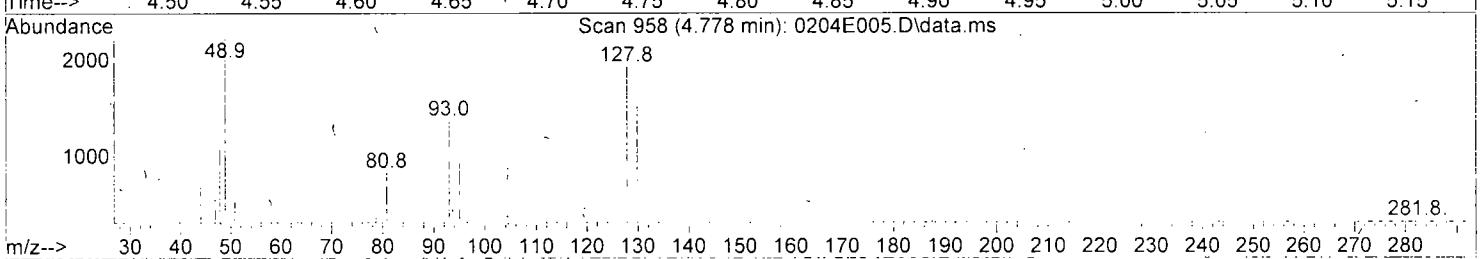
Ion	Exp%	Act%
96.00	100	100
61.00	137.40	0.00#
98.00	64.60	0.00#
0.00	0.00	0.00

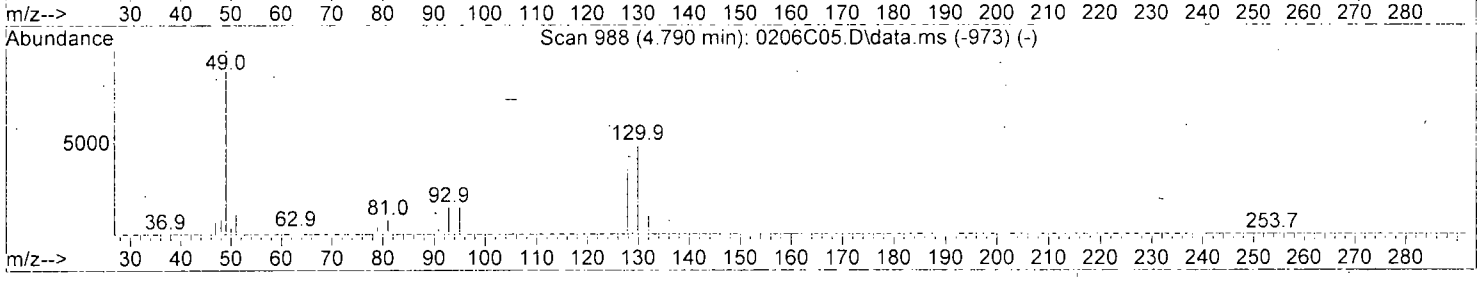
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0204E005.D\data.ms

(20) BROMOCHLOROMETHANE (TMCP)

4.778min (-0.004) 0.29 ug/L

response 1665

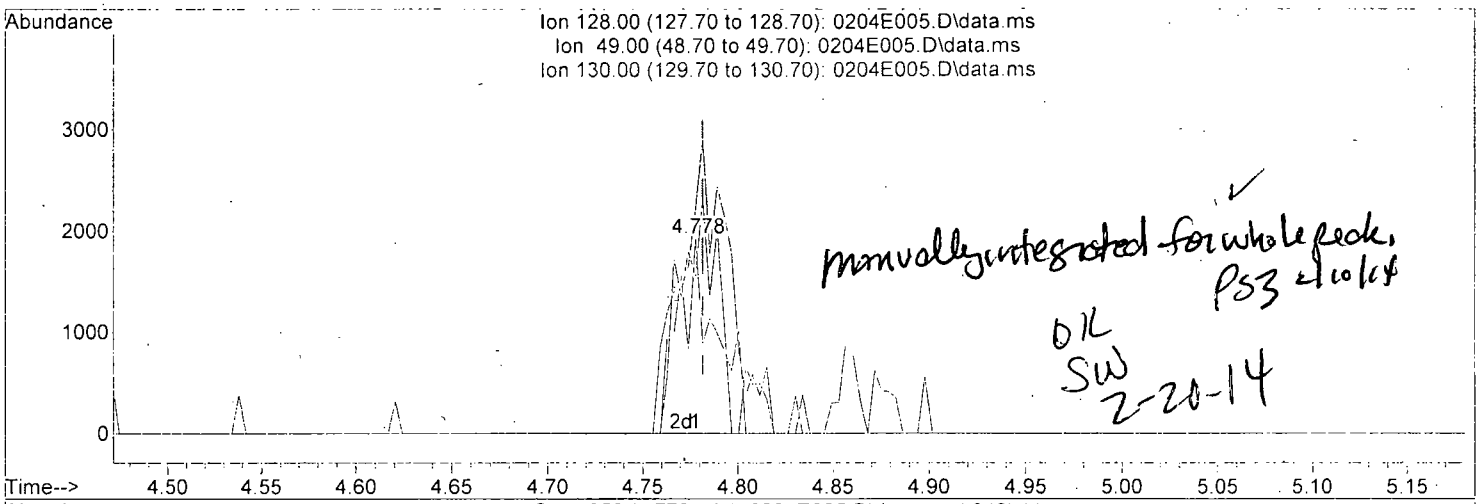
Ion	Exp%	Act%
128.00	100	100
49.00	154.70	305.53#
130.00	132.80	185.89#
0.00	0.00	0.00

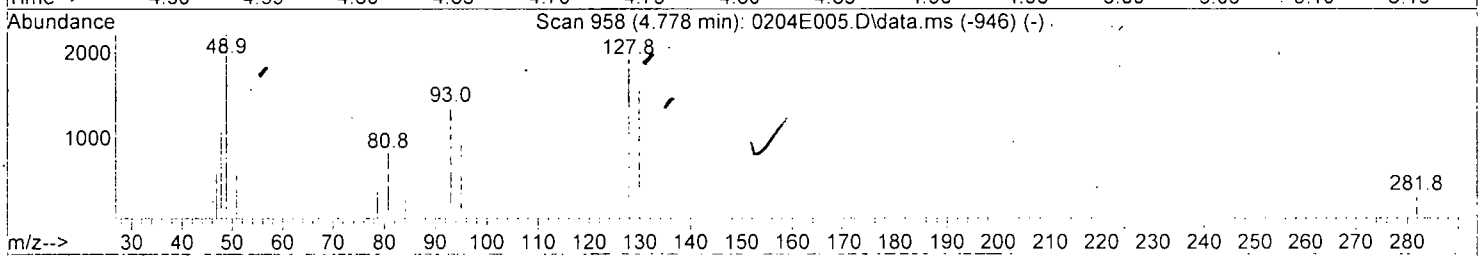
Freedom_0005792_0545

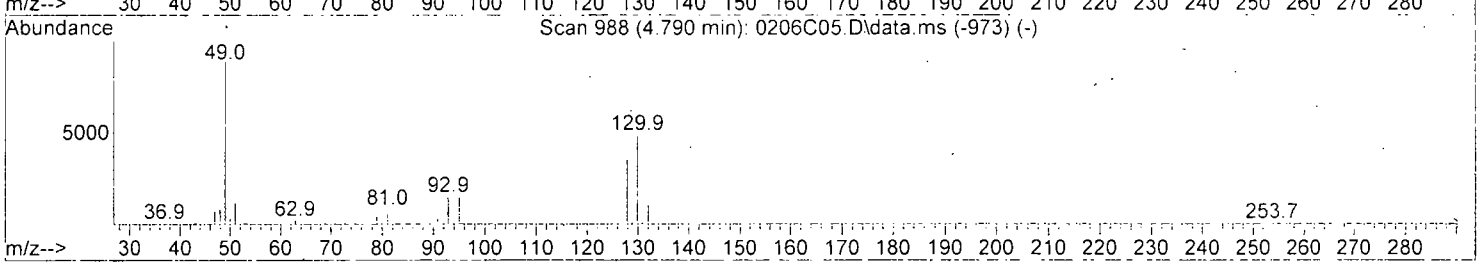
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0204E005.D\data.ms

(20) BROMOCHLOROMETHANE (TMCP)

4.778min (-0.004) 0.46 ug/L m

response 2638

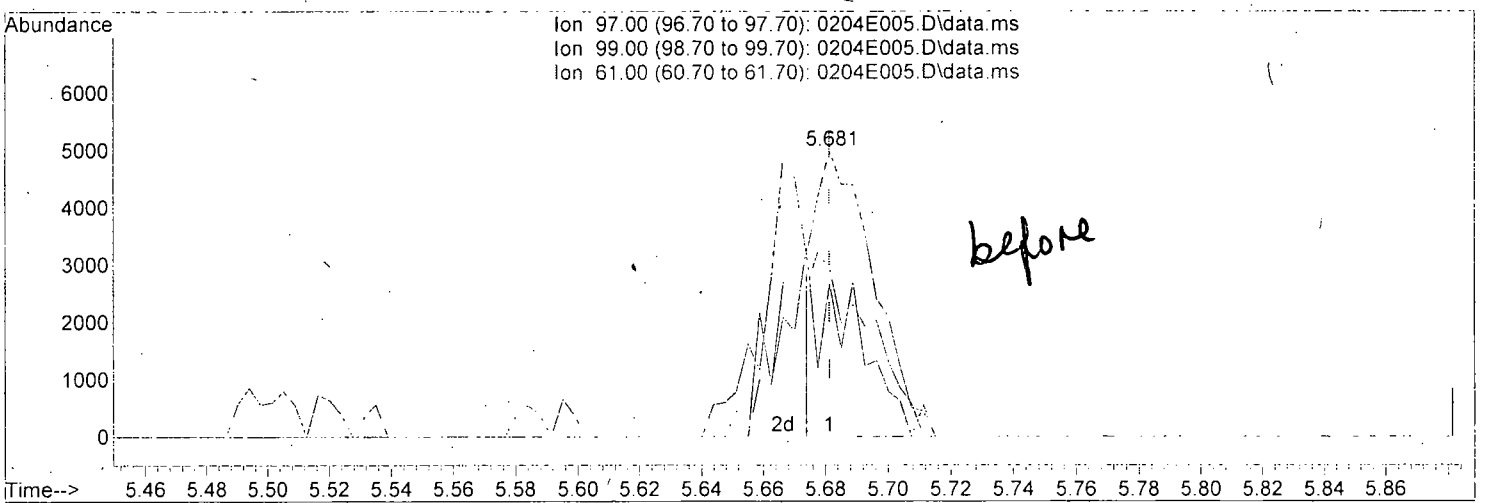
Ion	Exp%	Act%
128.00	100	100
49.00	154.70	192.84#
130.00	132.80	117.32
0.00	0.00	0.00

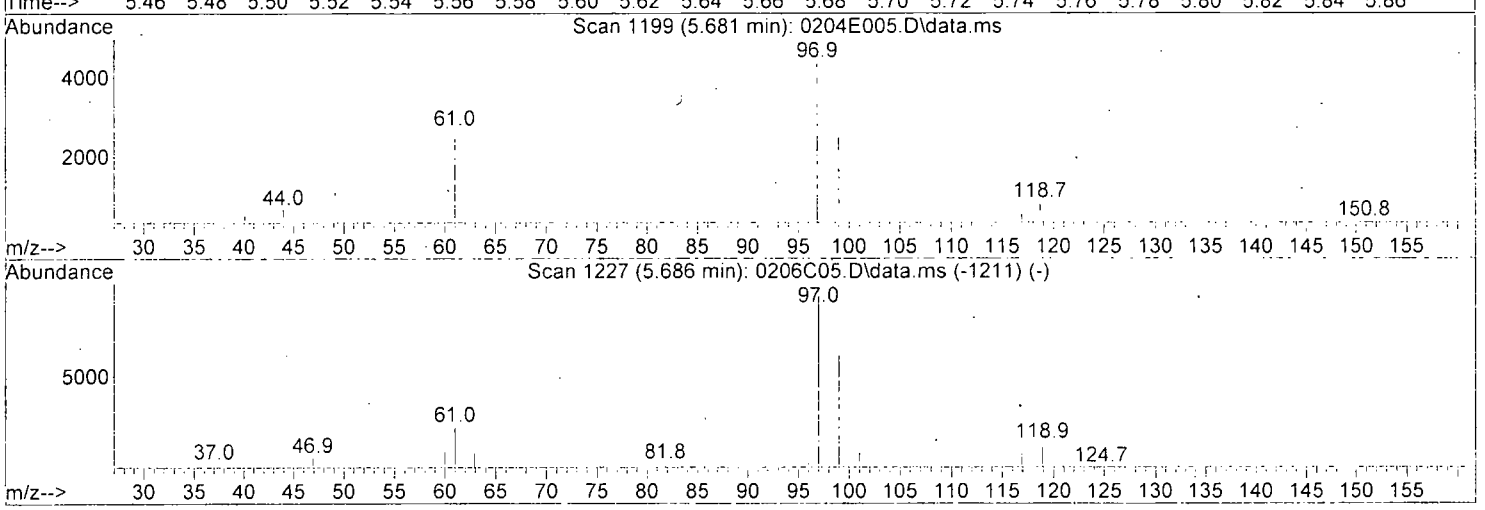
Freedom_0005792_0546

Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration





TIC: 0204E005.D\data.ms

(25) 1,1,1-TRICHLOROETHANE (TMCP)

5.681min (-0.000) 0.33 ug/L

response 6342

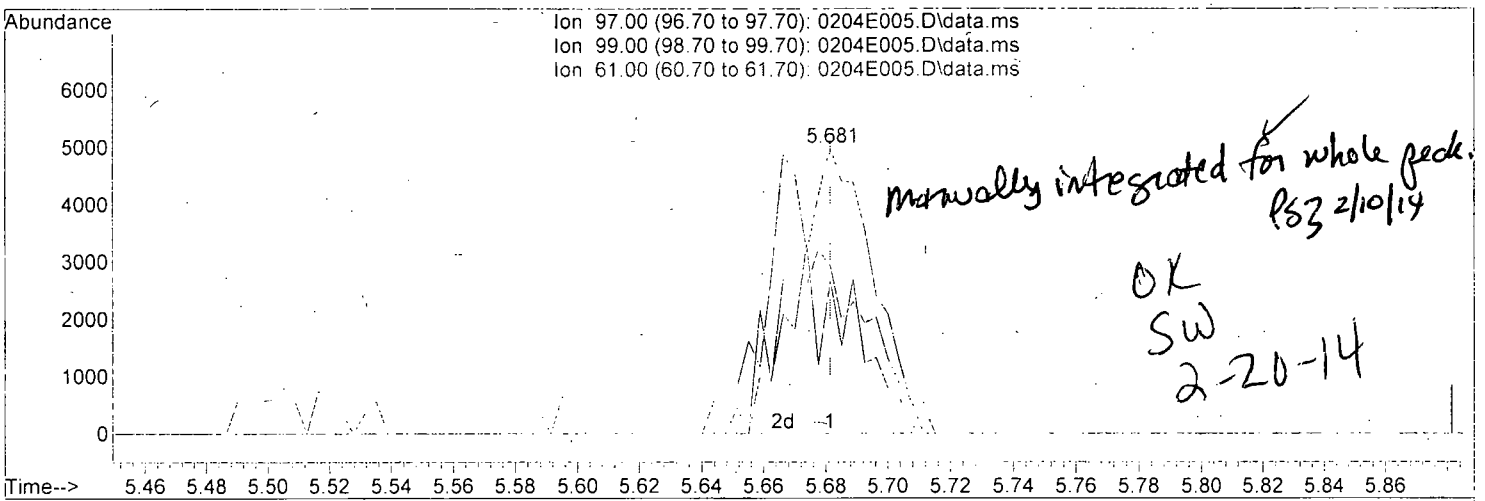
Ion	Exp%	Act%
97.00	100	100
99.00	62.90	96.89#
61.00	43.70	42.19
0.00	0.00	0.00

Freedom_0005792_0547

Quantitation Report (Qedit)

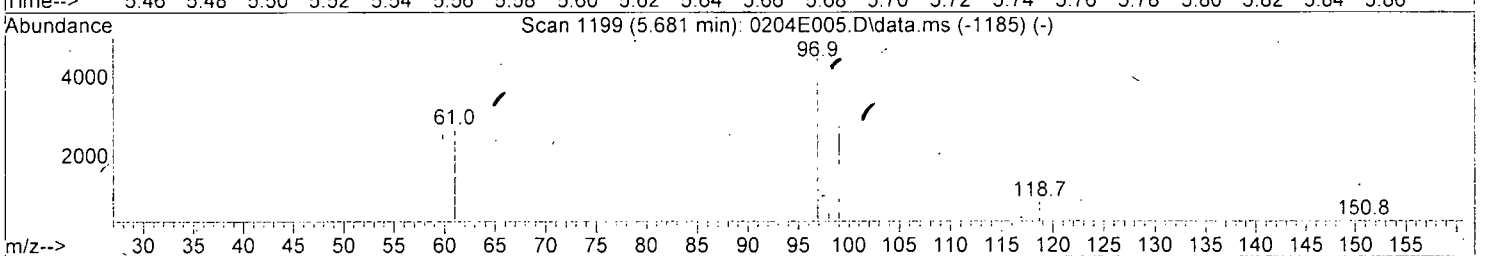
Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

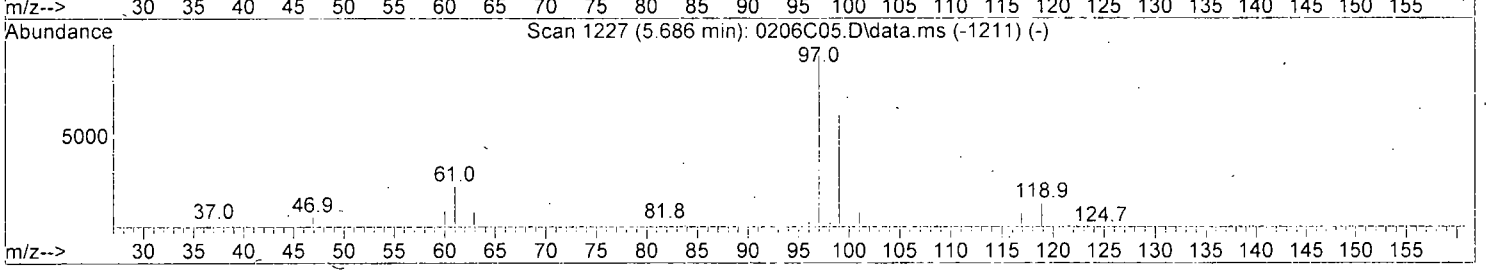
Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration



manually integrated for whole peak. PSZ 2/10/14

OK SW 2-20-14





TIC: 0204E005.D\data.ms

(25) 1,1,1-TRICHLOROETHANE (TMCP)

5.681min (-0.000) 0.57 ug/L m

response 10852

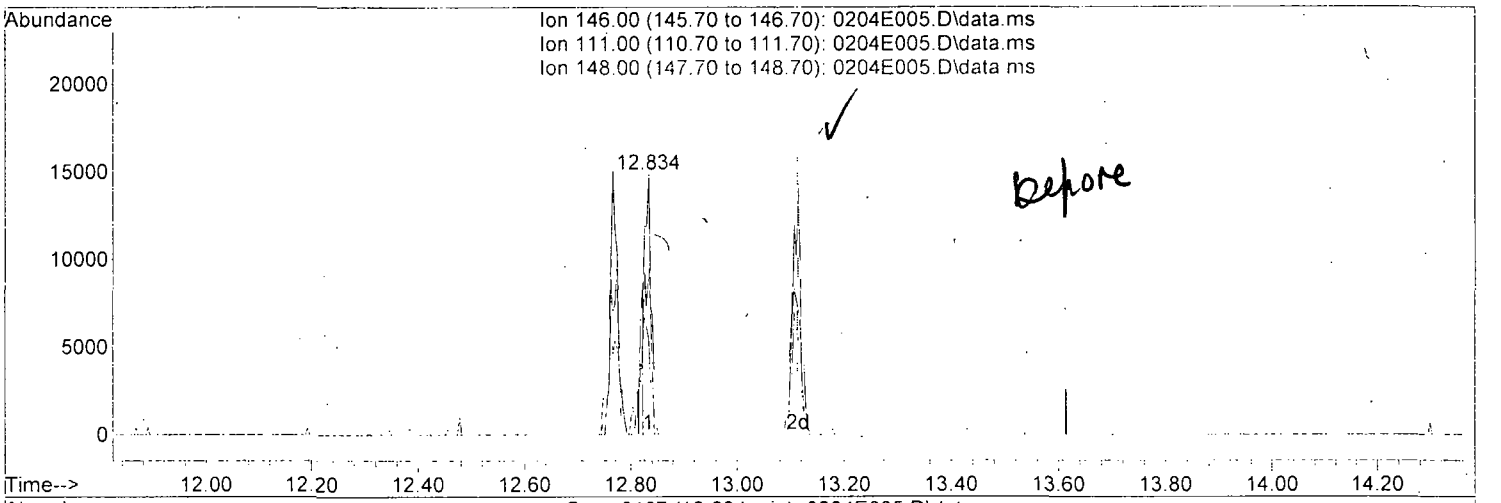
Ion	Exp%	Act%
97.00	100	100
99.00	62.90	56.63
61.00	43.70	24.66#
0.00	0.00	0.00

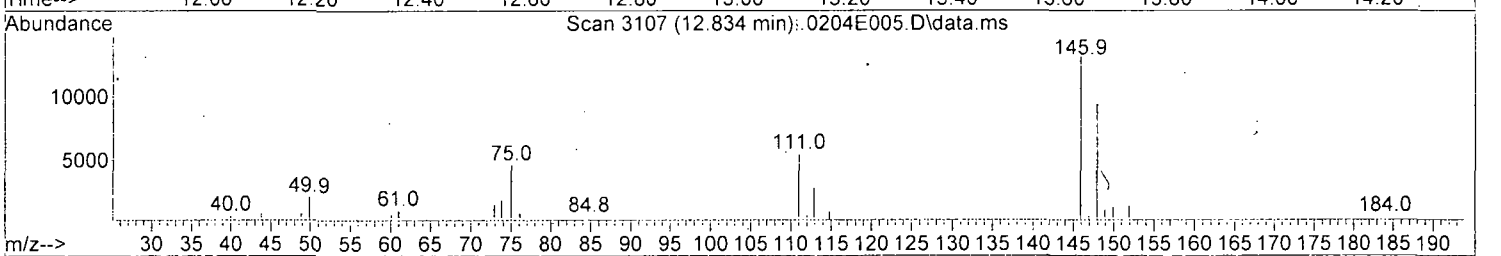
Freedom_0005792_0548

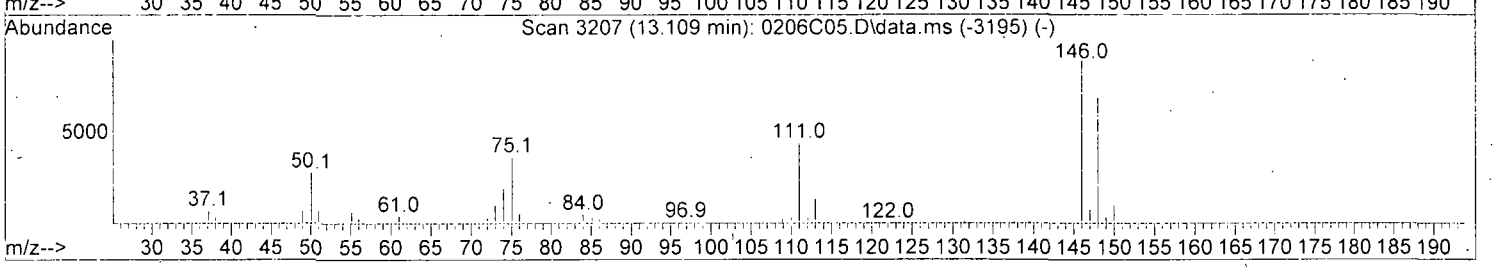
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0204E005.D\data.ms

(71) 1,2-DICHLOROBENZENE (TMCP)

12.834min (-0.281) 0.48 ug/L

response 12990

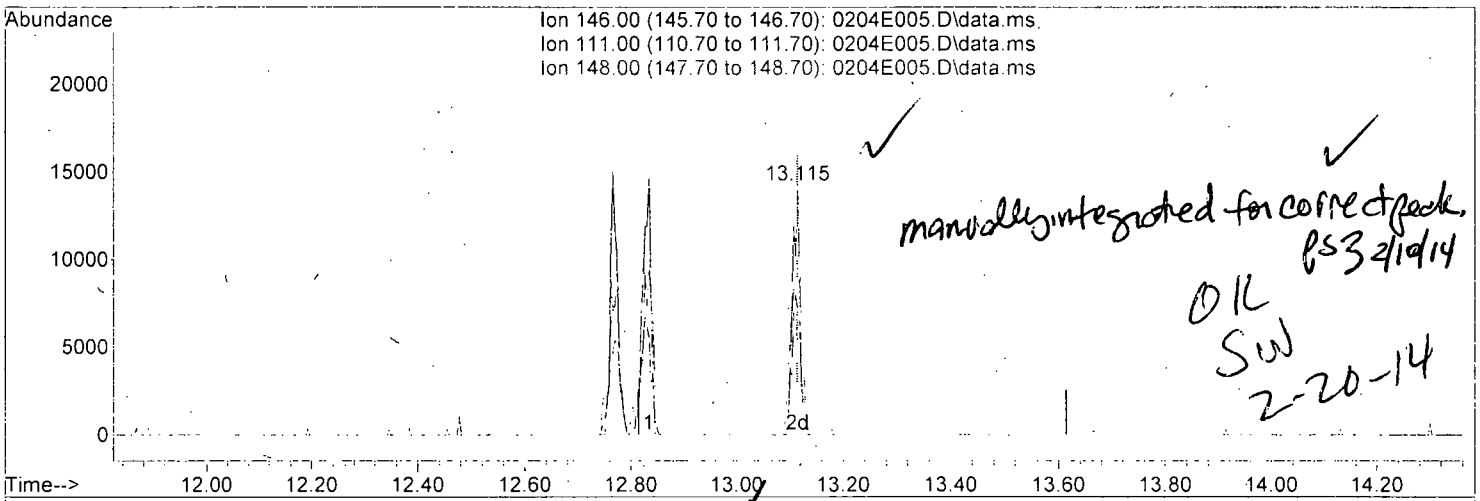
Ion	Exp%	Act%
146.00	100	100
111.00	39.20	43.73
148.00	63.70	66.40
0.00	0.00	0.00

Freedom_0005792_0549

Quantitation Report (Qedit)

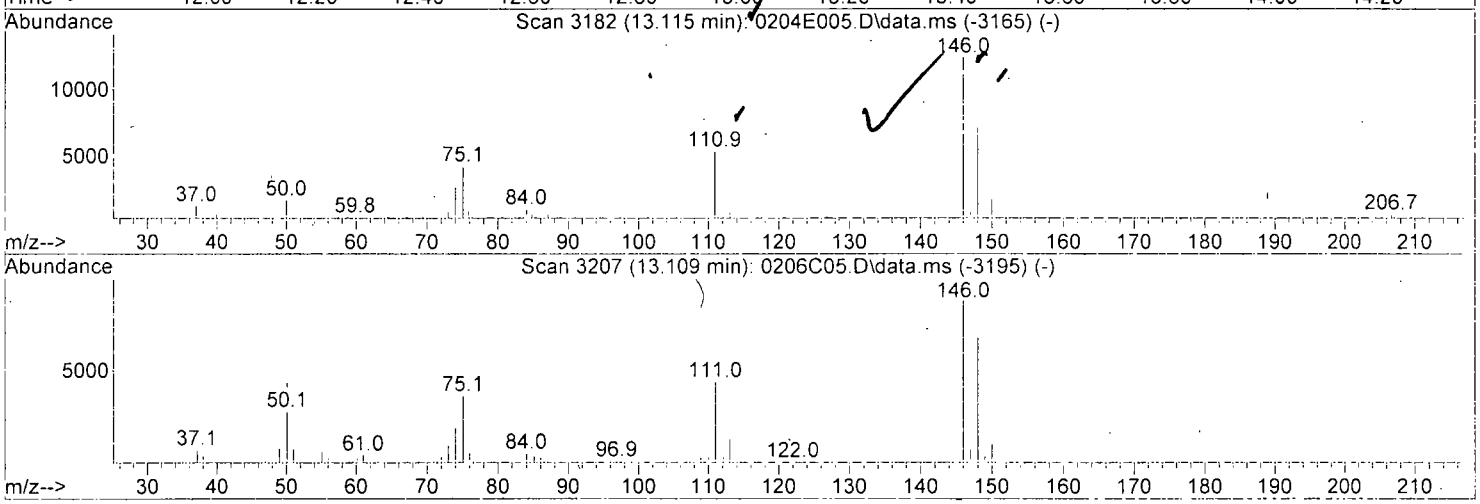
Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration



manually integrated for correct peak. PS 2/10/14

OK SW 2-20-14



TIC: 0204E005.D\data.ms

(71) 1,2-DICHLOROBENZENE (TMCP)

13.115min (-0.000) 0.60 ug/L m

response 16148

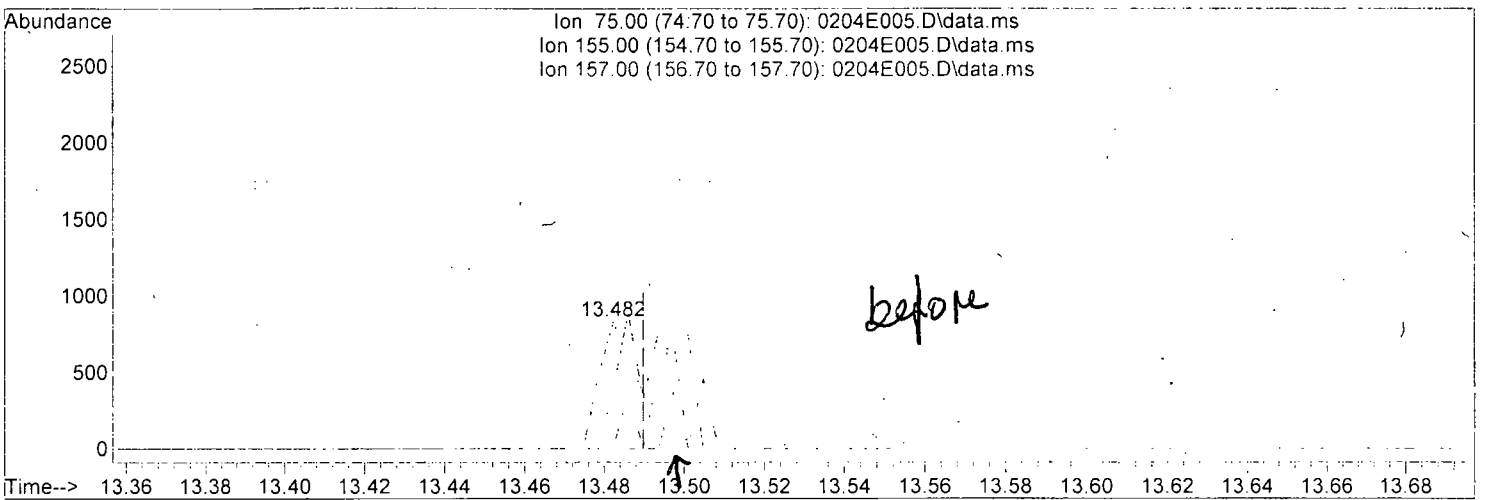
Ion	Exp%	Act%
146.00	100	100
111.00	39.20	35.17
148.00	63.70	53.42
0.00	0.00	0.00

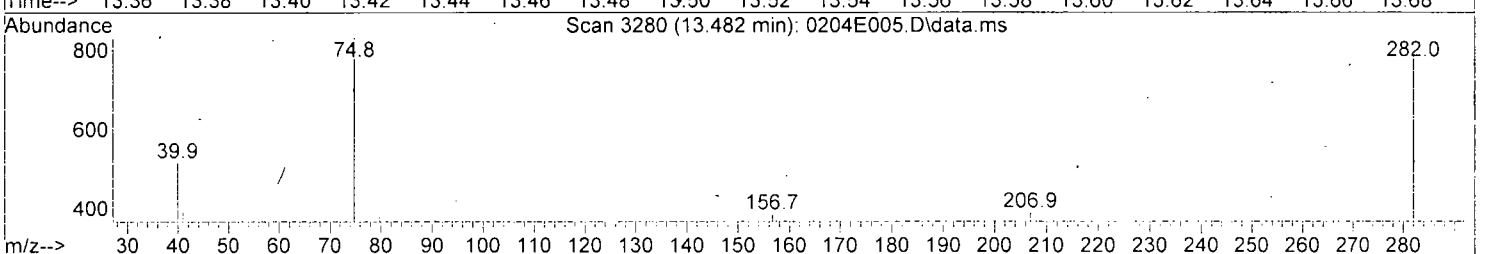
Freedom_0005792_0550

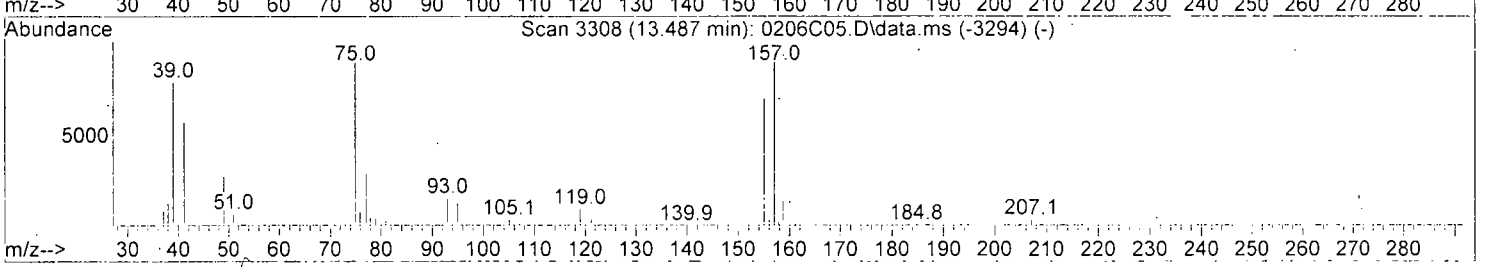
Quantitation Report (Qedit)

Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0204E005.D\data.ms

(73) 1,2-DIBROMO-3-CHLOROPROPANE (TMCP)

13.482min (-0.008) 0.27 ug/L

response 510

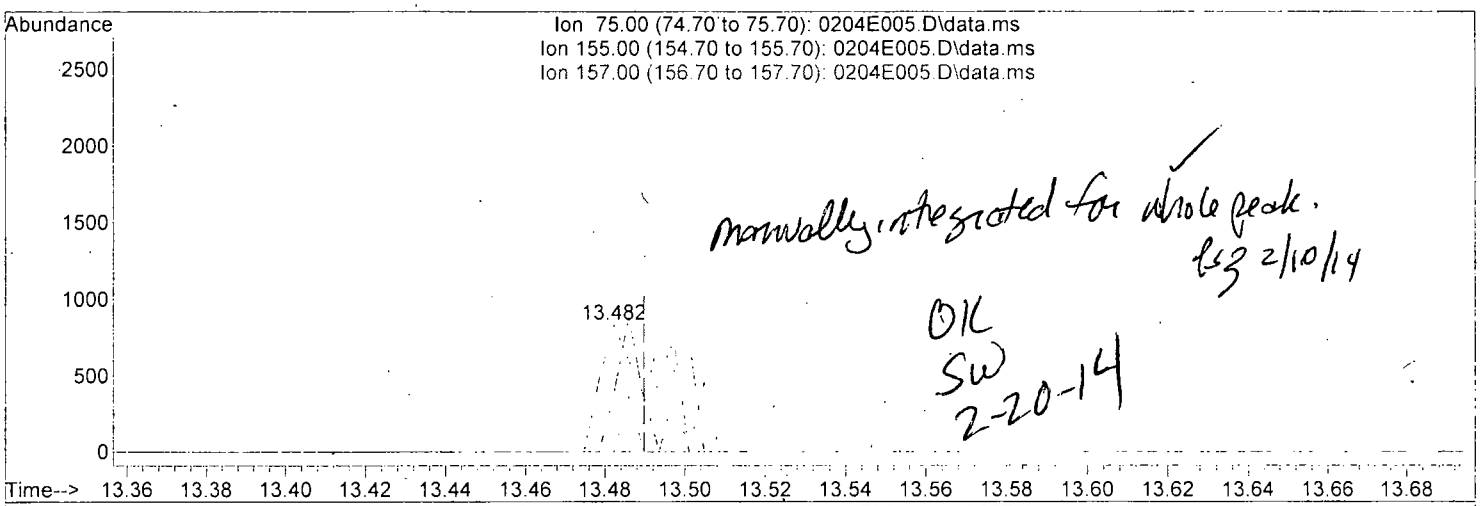
Ion	Exp%	Act%
75.00	100	100
155.00	88.20	0.00#
157.00	120.30	0.00#
0.00	0.00	0.00

Freedom_0005792_0551

Quantitation Report (Qedit)

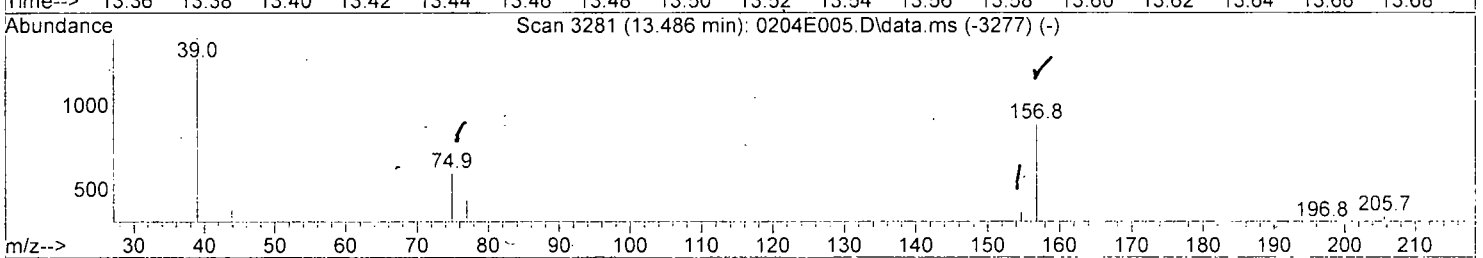
Data Path : D:\DATA\L02042014\
Data File : 0204E005.D
Acq On : 4 Feb 2014 16:17
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 14 Sample Multiplier: 1

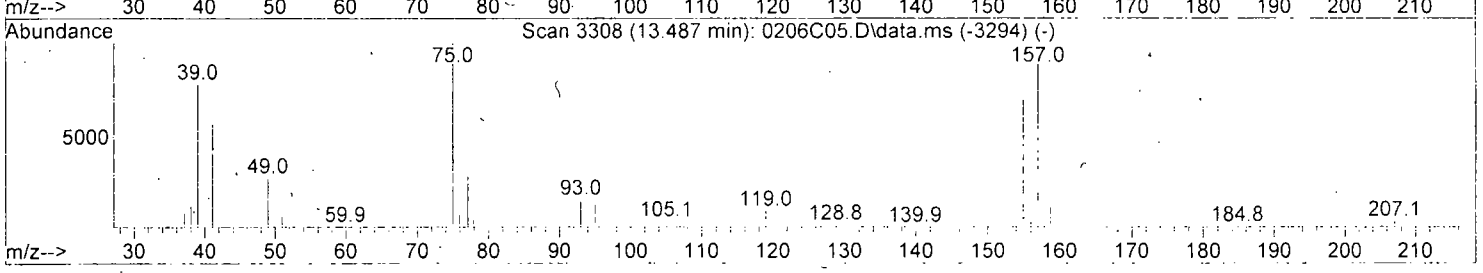
Quant Time: Feb 04 16:36:57 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration



manually integrated for whole peak. bzj 2/10/14

OK SW 2-20-14





TIC: 0204E005.D\data.ms

(73) 1,2-DIBROMO-3-CHLOROPROPANE (TMCP)

13.482min (-0.008) 0.37 ug/L m

response 696

Ion	Exp%	Act%
75.00	100	100
155.00	88.20	0.00#
157.00	120.30	0.00#
0.00	0.00	0.00

Freedom_0005792_0552

Continuing Calibration Report PZ1-AG5975

Method Path : D:\METHODS\
Method File : L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Thu Feb 06 11:16:40 2014
Response Via : Initial Calibration

3 cmpds out

CC Data File: 0206CC05.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	89
2	TMCP	DICHLORODIFLUOROMETHANE	0.531	0.484	8.9	100
3	TMCP	CHLOROMETHANE	0.275	0.242	12.1	100
4	TMCP	VINYL CHLORIDE	0.330	0.318	3.6	106
5	TMCP	BROMOMETHANE	0.227	0.199	12.6	96
6	TMCP	CHLOROETHANE	0.213	0.189	11.4	99
7	TMCP	TRICHLOROFLUOROMETHANE	0.826	0.857	-3.7	113
8	TMCP	ACETONE	0.124	0.184	-47.9#	131
9	TMCP	1,1-DICHLOROETHENE	0.265	0.231	13.0	83
10	TMCP	METHYLENE CHLORIDE	0.397	0.355	10.7	82
11	TMCP	Freon 113	0.422	0.382	9.6	80
12	TMCP	CARBON DISULFIDE	1.085	1.071	1.3	107
13	TMCP	METHYL ACETATE	0.217	0.183	15.9	71
14	TMCP	TRANS-1,2-DICHLOROETHENE	0.377	0.301	20.2	79
15	TMCP	METHYL-TERT-BUTYL ETHER	0.950	0.769	19.1	80
16	TMCP	1,1-DICHLOROETHANE	0.718	0.621	13.5	81
17	TMCP	VINYL ACETATE	0.478	0.404	15.4	98
18	TMCP	2-BUTANONE	0.152	0.164	-7.8	99
19	TMCP	CIS-1,2-DICHLOROETHENE	0.416	0.358	14.0	85
20	TMCP	BROMOCHLOROMETHANE	0.199	0.170	14.6	83
21	TMCP	CHLOROFORM	0.807	0.742	8.0	85
22	TMCP	2,2-DICHLOROPROPANE	0.526	0.465	11.6	87
23	S	1,2-DICHLOROETHANE-d4	0.495	0.561	-13.2	99
24	TMCP	1,2-DICHLOROETHANE	0.647	0.582	10.0	81
25	TMCP	1,1,1-TRICHLOROETHANE	0.660	0.589	10.9	84
26	TMCP	1,1-DICHLOROPROPENE	0.536	0.440	18.0	79
27	TMCP	CYCLOHEXANE	0.580	0.447	22.9	70
28	TMCP	CARBON TETRACHLORIDE	0.581	0.517	11.0	83
29	TMCP	BENZENE	1.636	1.421	13.1	77
30	TMCP	DIBROMOMETHANE	0.274	0.248	9.7	86
31	TMCP	1,2-DICHLOROPROPANE	0.393	0.354	10.0	85
32	TMCP	TRICHLOROETHENE	0.474	0.406	14.4	83
33	TMCP	BROMODICHLOROMETHANE	0.586	0.525	10.4	83
34	TMCP	METHYLCYCLOHEXANE	0.676	0.518	23.4	75
35	TMCP	2-CHLOROETHYLVINYL ETHER	0.201	0.191	4.6	99
36	TMCP	CIS-1,3-DICHLOROPROPENE	0.548	0.502	8.5	86
37	I	CHLOROBENZENE-d5	1.000	1.000	0.0	97
38	TMCP	4-METHYL-2-PENTANONE	0.300	0.224	25.4#	92
39	TMCP	TRANS-1,3-DICHLOROPROPENE	0.525	0.421	19.9	82
40	TMCP	1,1,2-TRICHLOROETHANE	0.403	0.345	14.4	80
41	S	TOLUENE-d8	1.333	1.302	2.3	91
42	TMCP	TOLUENE	1.047	0.879	16.0	81
43	TMCP	1,3-DICHLOROPROPANE	0.746	0.634	15.0	82
44	TMCP	CHLORODIBROMOMETHANE	0.411	0.354	14.1	89
45	TMCP	2-HEXANONE	0.212	0.174	18.0	114

Freedom_0005792_0553

Method Path : D:\METHODS\
Method File : L02042014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Thu Feb 06 11:16:40 2014
Response Via : Initial Calibration

CC Data File: 0206CC05.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
46	TMCP	1,2-DIBROMOETHANE (EDB)	0.397	0.311	21.7	77
47	TMCP	TETRACHLOROETHENE	0.353	0.287	18.8	82
48	TMCP	1,1,1,2-TETRACHLOROETHANE	0.367	0.312	15.1	85
49	TMCP	CHLOROBENZENE	1.177	0.982	16.5	83
50	TMCP	ETHYLBENZENE	1.990	1.624	18.4	79
51	TMCP	BROMOFORM	0.239	0.208	12.7	81
52	TMCP	M-XYLENE/P-XYLENE	0.738	0.643	12.9	78
53	TMCP	STYRENE	1.210	1.065	11.9	88
54	TMCP	O-XYLENE	0.809	0.743	8.2	91
55	TMCP	ISOPROPYLBENZENE	2.151	1.819	15.5	83
56	I	1,4-DICHLOROBENZENE-d4	1.000	1.000	0.0	92
57	TMCP	1,1,2,2-TETRACHLOROETHANE	0.516	0.473	8.4	84
58	TMCP	1,2,3-TRICHLOROPROPANE	0.747	0.620	16.9	79
59	S	4-BROMOFLUOROBENZENE	1.012	1.063	-5.1	96
60	TMCP	BROMOBENZENE	0.842	0.738	12.4	87
61	TMCP	N-PROPYLBENZENE	4.438	3.728	16.0	80
62	TMCP	2-CHLOROTOLUENE	2.691	2.425	9.9	81
63	TMCP	4-CHLOROTOLUENE	2.898	2.582	10.9	85
64	TMCP	1,3,5-TRIMETHYLBENZENE	2.853	2.492	12.7	80
65	TMCP	TERT-BUTYLBENZENE	2.425	2.149	11.4	84
66	TMCP	1,2,4-TRIMETHYLBENZENE	2.940	2.569	12.6	78
67	TMCP	SEC-BUTYLBENZENE	4.040	3.688	8.7	84
68	TMCP	1,3-DICHLOROBENZENE	1.819	1.587	12.8	83
69	TMCP	1,4-DICHLOROBENZENE	1.834	1.591	13.2	81
70	TMCP	P-ISOPROPYLTOLUENE	3.184	2.794	12.2	80
71	TMCP	1,2-DICHLOROBENZENE	1.702	1.480	13.1	79
72	TMCP	N-BUTYLBENZENE	3.379	2.932	13.2	80
73	TMCP	1,2-DIBROMO-3-CHLOROPROPANE	0.119	0.103	13.8	87
74	TMCP	1,2,4-TRICHLOROBENZENE	1.254	0.988	21.2	79
75	TMCP	NAPHTHALENE	2.475	1.730	30.1#	71
76	TMCP	HEXACHLOROBUTADIENE	0.719	0.596	17.2	81
77	TMCP	1,2,3-TRICHLOROBENZENE	1.234	1.027	16.8	80

(#) = Out of Range SPCC's out = 0 CCC's out = 3

Freedom_0005792_0554

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02062014\
Data File : 0206CC05.D
Acq On : 6 Feb 2014 10:44
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 06 11:16:03 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.521	114	134154	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	131994	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.807	152	79945	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.494	65	75217	5.66	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 113.20%		
41) TOLUENE-d8	8.620	98	171793	4.88	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 97.60%		
59) 4-BROMOFLUOROBENZENE	11.645	95	85013	5.25	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 105.00%		
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.303	85	64907	4.56	ug/L	99
3) CHLOROMETHANE	1.412	50	32463	4.39	ug/L	93
4) VINYL CHLORIDE	1.524	62	42669	4.82	ug/L	97
5) BROMOMETHANE	1.779	94	26638	4.37	ug/L	96
6) CHLOROETHANE	1.895	64	25370	4.43	ug/L	93
7) TRICHLOROFLUOROMETHANE	2.319	101	114994	5.19	ug/L	94
8) ACETONE	2.465	43	24699m	7.39	ug/L	
9) 1,1-DICHLOROETHENE	2.791	96	30955	4.35	ug/L	96
10) METHYLENE CHLORIDE	2.971	84	47619	4.47	ug/L	93
11) Freon 113	3.054	101	51248	4.52	ug/L #	61
12) CARBON DISULFIDE	3.084	76	143647	4.93	ug/L	97
13) METHYL ACETATE	3.099	43	24495	4.21	ug/L #	87
14) TRANS-1,2-DICHLOROETHENE	3.691	96	40425	3.99	ug/L	99
15) METHYL-TERT-BUTYL ETHER	3.878	73	103104	4.05	ug/L #	86
16) 1,1-DICHLOROETHANE	3.964	63	83275	4.32	ug/L	98
17) VINYL ACETATE	4.249	43	54226	4.23	ug/L	96
18) 2-BUTANONE	4.534	43	21965m	5.39	ug/L	
19) CIS-1,2-DICHLOROETHENE	4.613	96	47969	4.30	ug/L	92
20) BROMOCHLOROMETHANE	4.774	128	22775	4.27	ug/L	93
21) CHLOROFORM	4.864	83	99607	4.60	ug/L	99
22) 2,2-DICHLOROPROPANE	4.920	77	62321	4.42	ug/L	94
24) 1,2-DICHLOROETHANE	5.584	62	78141	4.50	ug/L #	99
25) 1,1,1-TRICHLOROETHANE	5.674	97	78951	4.46	ug/L	98
26) 1,1-DICHLOROPROPENE	5.914	75	59024	4.10	ug/L	96
27) CYCLOHEXANE	5.959	56	59986	3.85	ug/L #	81
28) CARBON TETRACHLORIDE	6.071	117	69350	4.45	ug/L	98
29) BENZENE	6.146	78	190617	4.34	ug/L	96
30) DIBROMOMETHANE	6.783	93	33228	4.51	ug/L #	75
31) 1,2-DICHLOROPROPANE	6.851	63	47452	4.50	ug/L #	50

Freedom_0005792_0555

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02062014\
Data File : 0206CC05.D
Acq On : 6 Feb 2014 10:44
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 06 11:16:03 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
32) TRICHLOROETHENE	6.915	130	54442	4.28 ug/L #	87
33) BROMODICHLOROMETHANE	6.960	83	70427	4.48 ug/L	97
34) METHYLCYCLOHEXANE	7.481	83	69465	3.83 ug/L	93
35) 2-CHLOROETHYLVINYL ETHER	7.608	63	25678m	4.77 ug/L	
36) CIS-1,3-DICHLOROPROPENE	7.781	75	67353	4.58 ug/L	99
38) 4-METHYL-2-PENTANONE	8.002	43	29537	3.73 ug/L #	74
39) TRANS-1,3-DICHLOROPROPENE	8.332	75	55508	4.00 ug/L	96
40) 1,1,2-TRICHLOROETHANE	8.474	97	45552	4.28 ug/L	95
42) TOLUENE	8.695	92	116006	4.20 ug/L	99
43) 1,3-DICHLOROPROPANE	8.766	76	83713	4.25 ug/L	97
44) CHLORODIBROMOMETHANE	9.010	129	46665	4.30 ug/L #	98
45) 2-HEXANONE	9.081	43	22975m	4.10 ug/L	
46) 1,2-DIBROMOETHANE (EDB)	9.295	107	40990	3.91 ug/L	99
47) TETRACHLOROETHENE	9.554	164	37833	4.06 ug/L	87
48) 1,1,1,2-TETRACHLOROETHANE	10.292	131	41154	4.25 ug/L	93
49) CHLOROBENZENE	10.371	112	129642	4.17 ug/L	92
50) ETHYLBENZENE	10.656	91	214336	4.08 ug/L	100
51) BROMOFORM	10.869	173	27483	4.36 ug/L #	93
52) M-XYLENE/P-XYLENE	10.888	106	169716	8.71 ug/L	83
53) STYRENE	11.211	104	281261	8.81 ug/L	96
54) O-XYLENE	11.274	106	196047	9.18 ug/L	83
55) ISOPROPYLBENZENE	11.649	105	240082	4.23 ug/L	95
57) 1,1,2,2-TETRACHLOROETHANE	11.259	83	37785	4.58 ug/L #	96
58) 1,2,3-TRICHLOROPROPANE	11.406	75	49583	4.15 ug/L	98
60) BROMOBENZENE	11.803	156	58981	4.38 ug/L #	79
61) N-PROPYLBENZENE	12.065	91	297996	4.20 ug/L	94
62) 2-CHLOROTOLUENE	12.107	91	193841	4.50 ug/L	89
63) 4-CHLOROTOLUENE	12.181	91	206433	4.46 ug/L	90
64) 1,3,5-TRIMETHYLBENZENE	12.361	105	199221	4.37 ug/L	94
65) TERT-BUTYLBENZENE	12.568	119	171829	4.43 ug/L	88
66) 1,2,4-TRIMETHYLBENZENE	12.680	105	205387	4.37 ug/L	94
67) SEC-BUTYLBENZENE	12.755	105	294816	4.56 ug/L	94
68) 1,3-DICHLOROBENZENE	12.766	146	126871	4.36 ug/L #	93
69) 1,4-DICHLOROBENZENE	12.830	146	127183	4.34 ug/L	95
70) P-ISOPROPYLTOLUENE	12.935	119	223355	4.39 ug/L	96
71) 1,2-DICHLOROBENZENE	13.111	146	118288	4.35 ug/L	95
72) N-BUTYLBENZENE	13.269	91	234431	4.34 ug/L	96
73) 1,2-DIBROMO-3-CHLOROPR...	13.490	75	8210	4.31 ug/L #	74
74) 1,2,4-TRICHLOROBENZENE	14.554	180	78986	3.94 ug/L #	94
75) NAPHTHALENE	14.734	128	138265	3.49 ug/L	98
76) HEXACHLOROBUTADIENE	14.806	225	47609	4.14 ug/L #	80
77) 1,2,3-TRICHLOROBENZENE	14.877	180	82131	4.16 ug/L #	94

Freedom_0005792_0556

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02062014\
Data File : 0206CC05.D
Acq On : 6 Feb 2014 10:44
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 06 11:16:03 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration

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

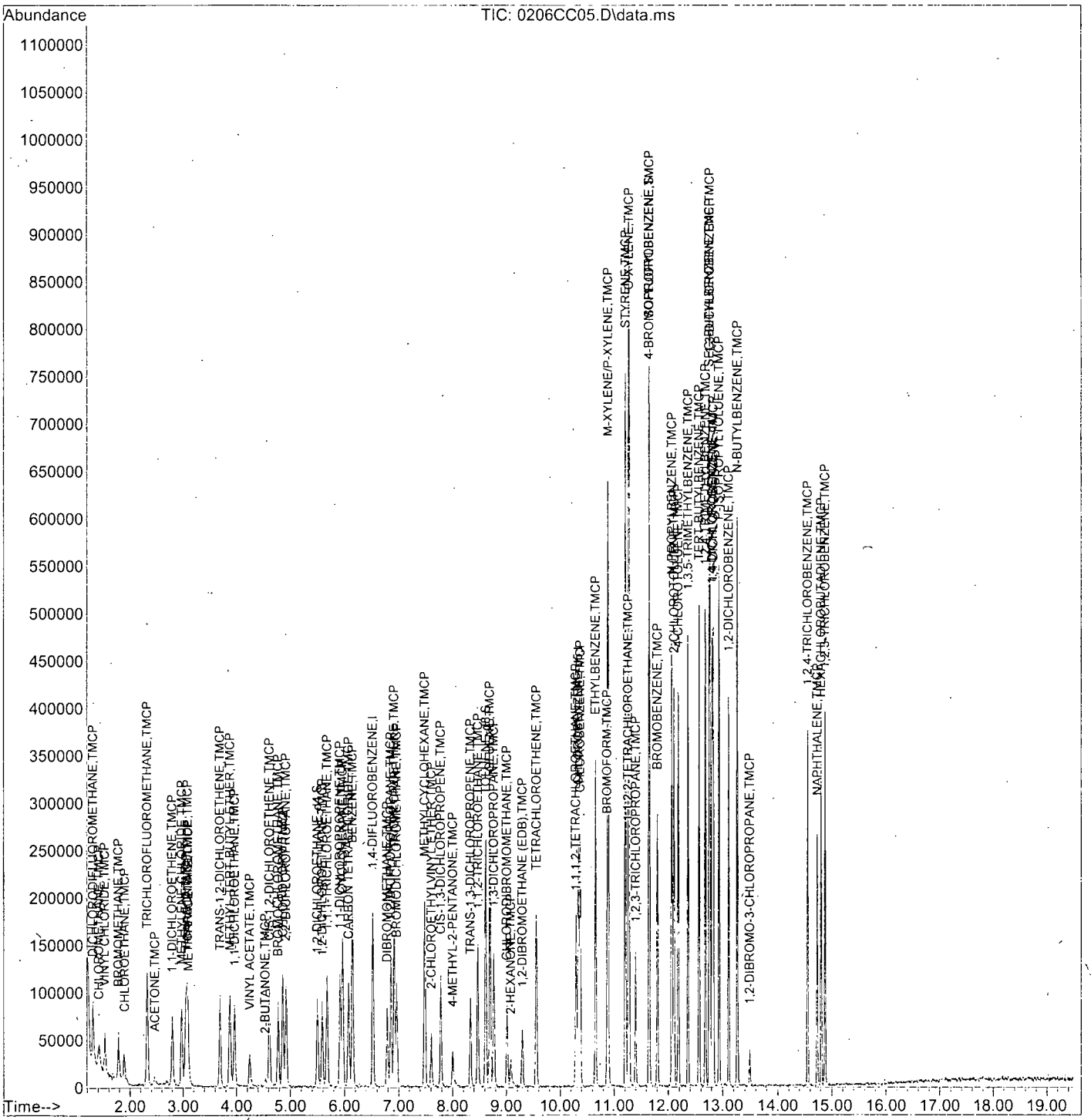
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0557

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02062014\
Data File : 0206CC05.D
Acq On : 6 Feb 2014 10:44
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 06 11:16:03 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration

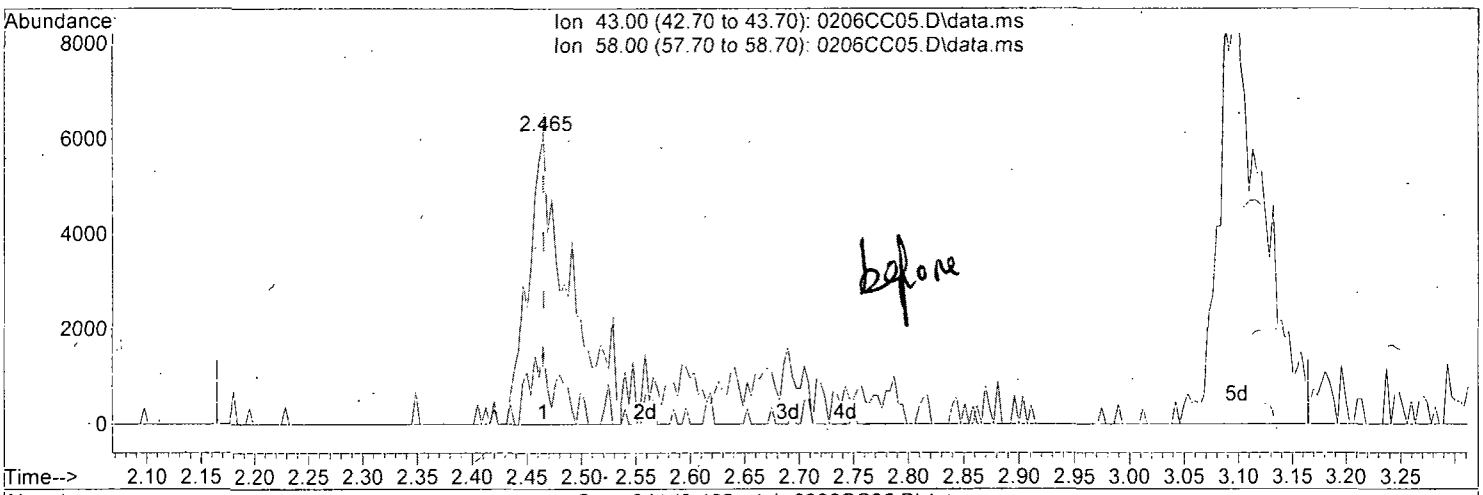


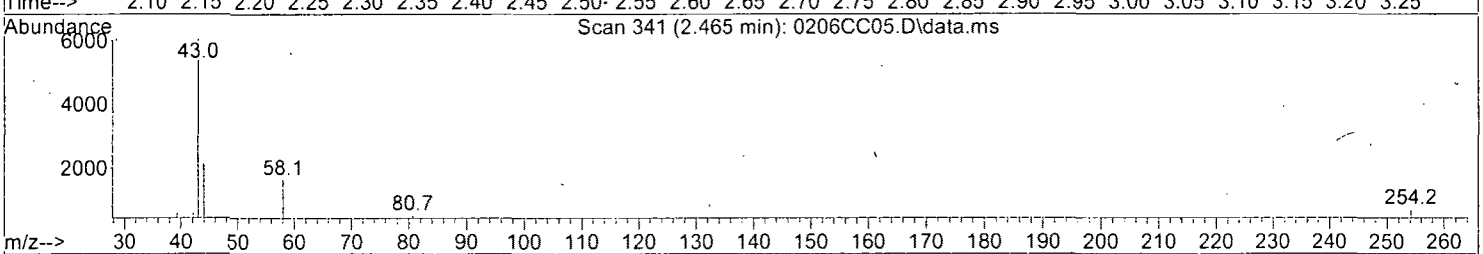
Freedom_0005792_0558

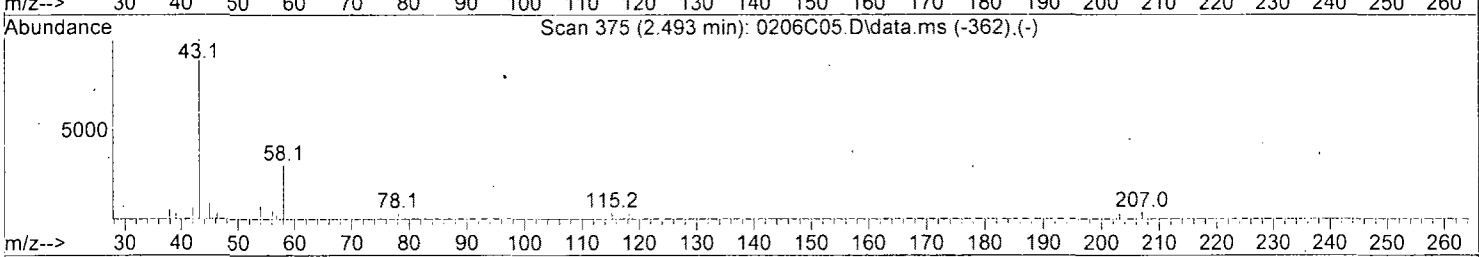
Quantitation Report (Qedit)

Data Path : D:\DATA\L02062014\
Data File : 0206CC05.D
Acq On : 6 Feb 2014 10:44
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 06 11:12:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0206CC05.D\data.ms

(8) ACETONE (TMCP)

2.465min (-0.000) 4.76 ug/L

response 15892

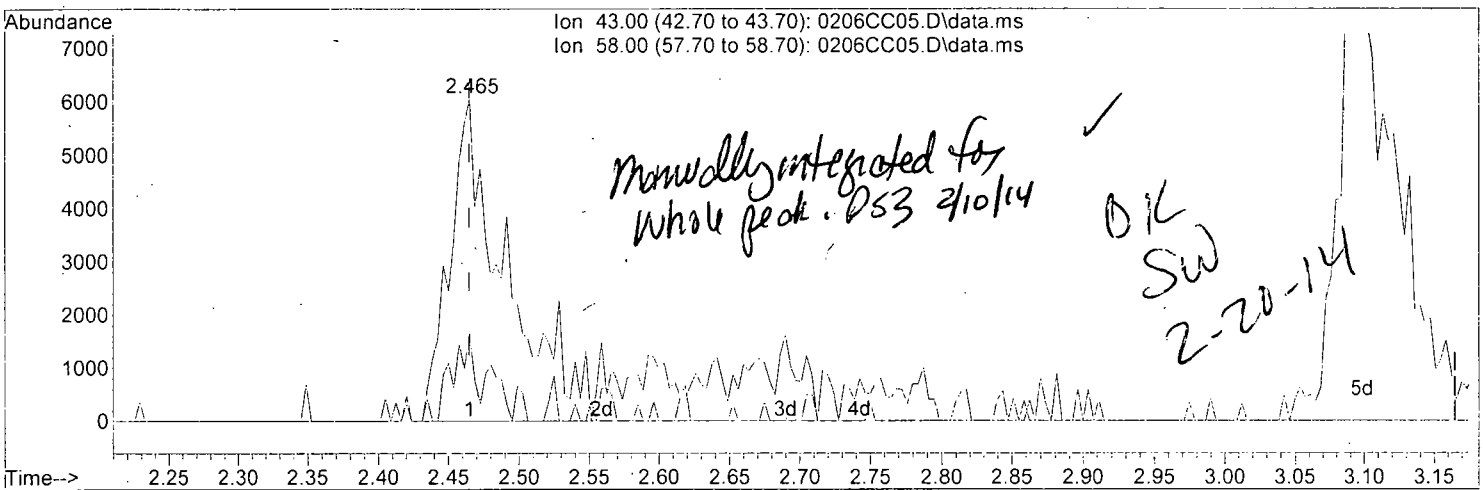
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	10.97#
0.00	0.00	0.00
0.00	0.00	0.00

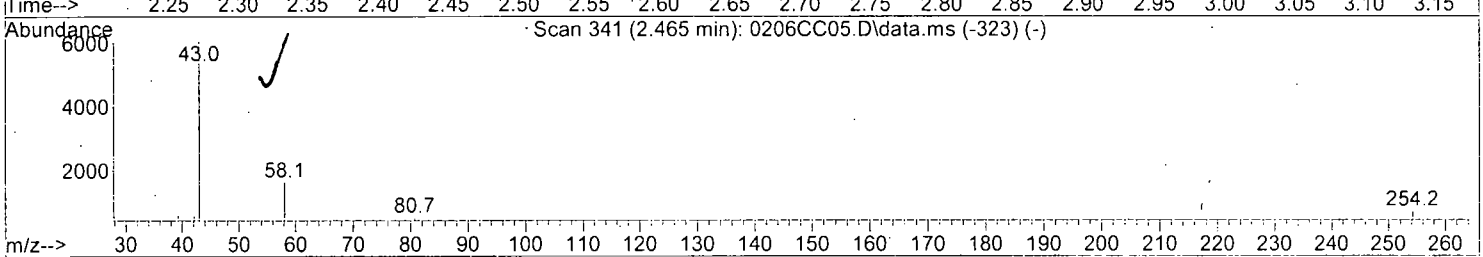
Freedom_0005792_0559

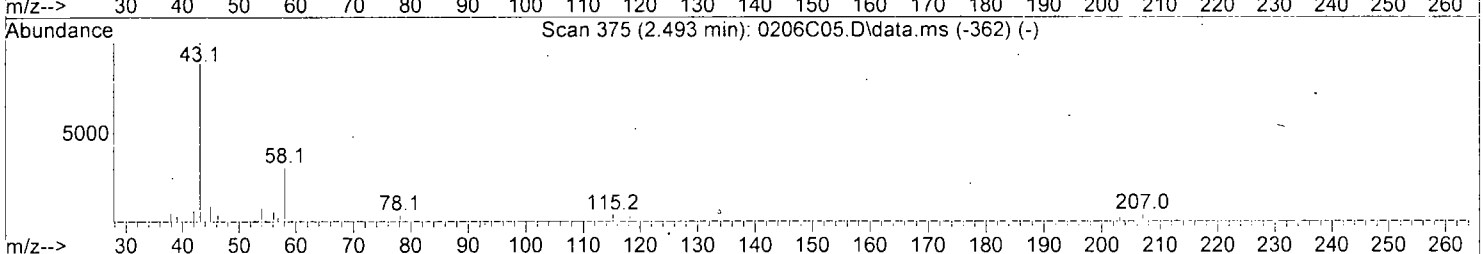
Quantitation Report (Qedit)

Data Path : D:\DATA\L02062014\
Data File : 0206CC05.D
Acq On : 6 Feb 2014 10:44
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 06 11:12:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0206CC05.D\data.ms

(8) ACETONE (TMCP)

2.465min (-0.000) 7.39 ug/L m

response 24699

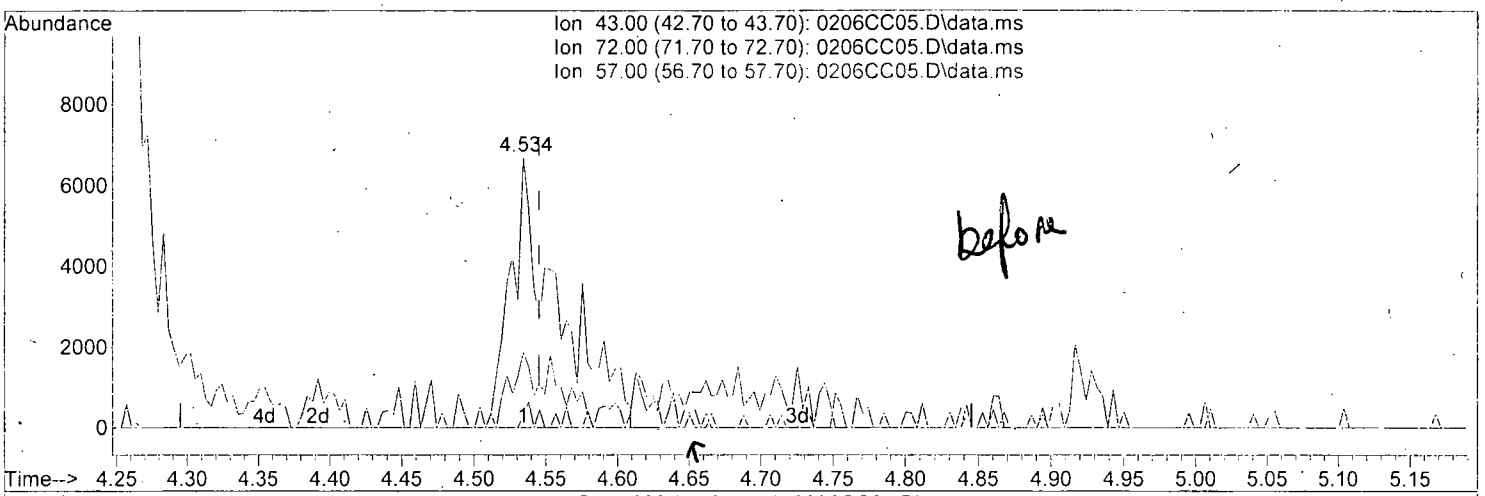
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	7.06#
0.00	0.00	0.00
0.00	0.00	0.00

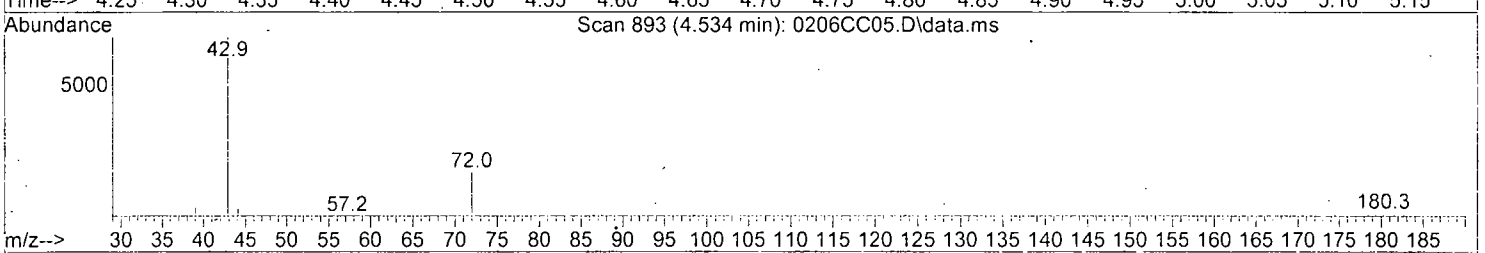
Freedom_0005792_0560

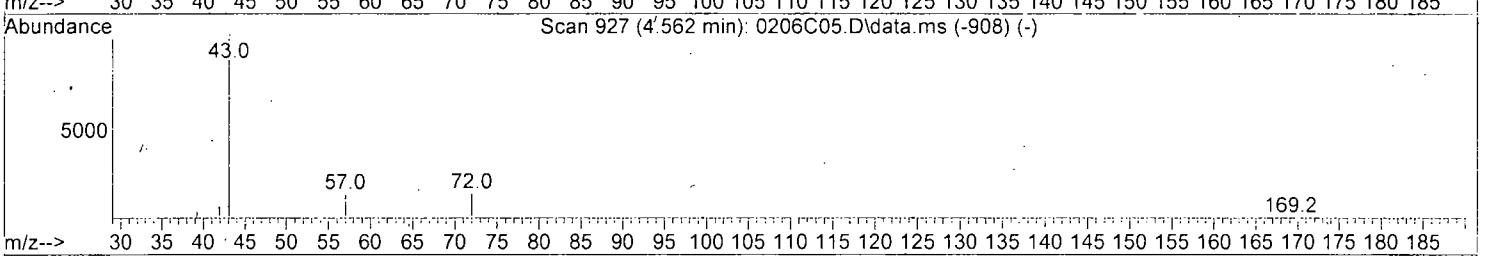
Quantitation Report (Qedit)

Data Path : D:\DATA\L02062014\
Data File : 0206CC05.D
Acq On : 6 Feb 2014 10:44
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 06 11:12:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0206CC05.D\data.ms

(18) 2-BUTANONE (TMCP)

4.534min (-0.011) 3.81 ug/L

response 15541

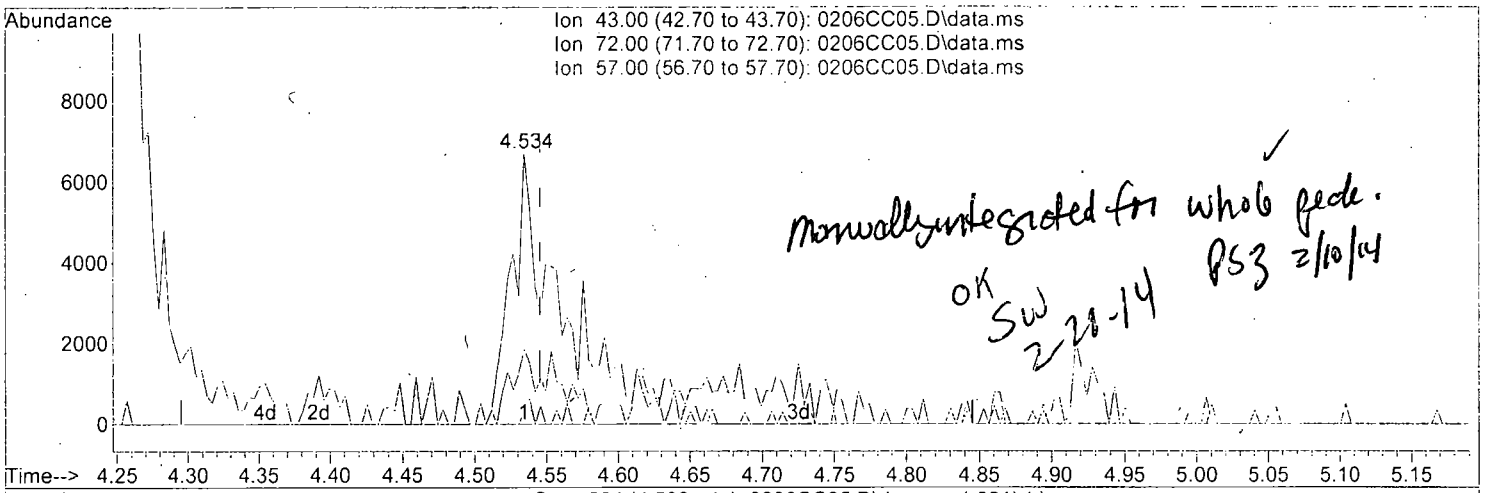
Ion	Exp%	Act%
43.00	100	100
72.00	18.60	15.45
57.00	7.60	0.00#
0.00	0.00	0.00

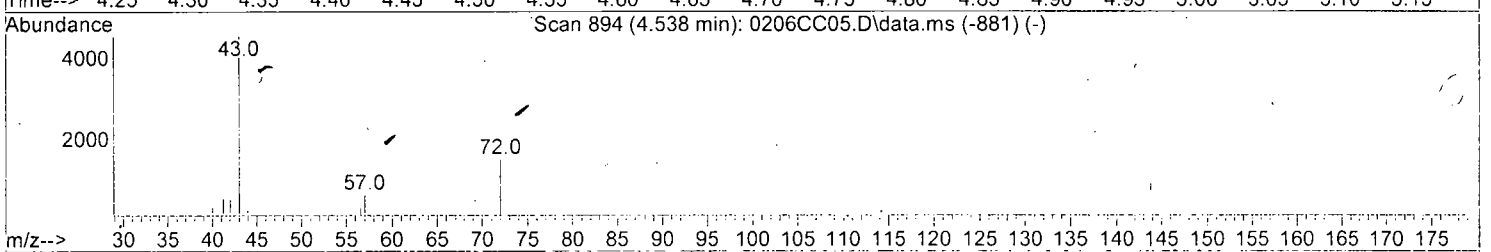
Freedom_0005792_0561

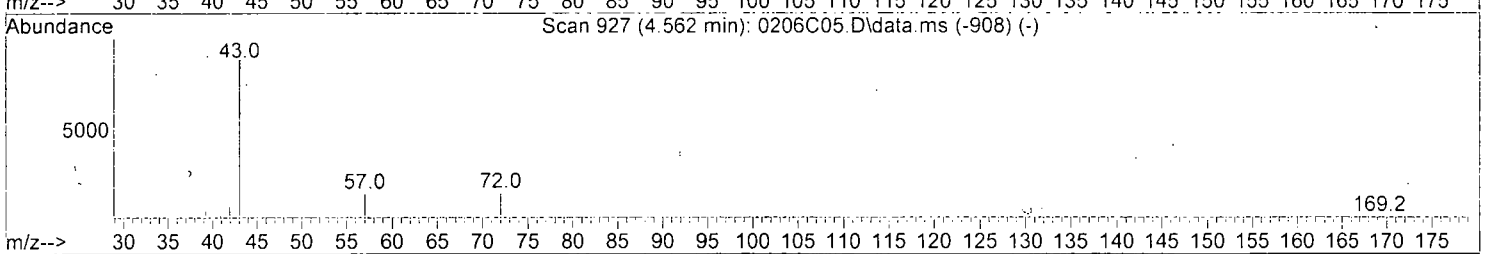
Quantitation Report (Qedit)

Data Path : D:\DATA\L02062014\
Data File : 0206CC05.D
Acq On : 6 Feb 2014 10:44
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 06 11:12:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0206CC05.D\data.ms

(18) 2-BUTANONE (TMCP)

4.534min (-0.011) 5.39 ug/L m

response 21965

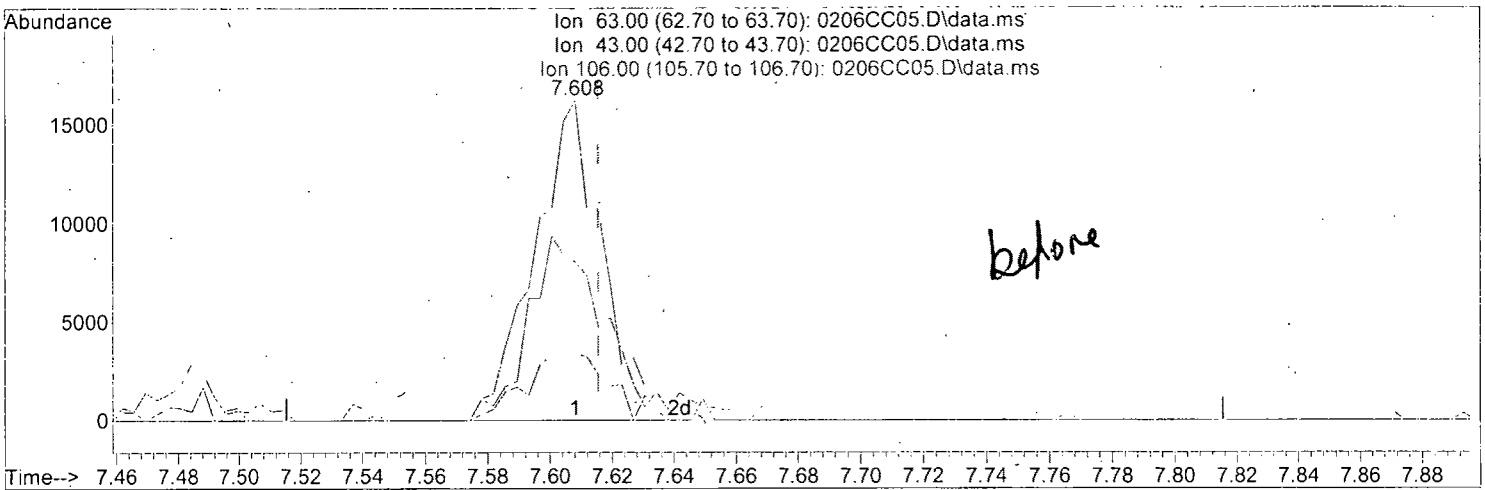
Ion	Exp%	Act%
43.00	100	100
72.00	18.60	10.93#
57.00	7.60	0.00#
0.00	0.00	0.00

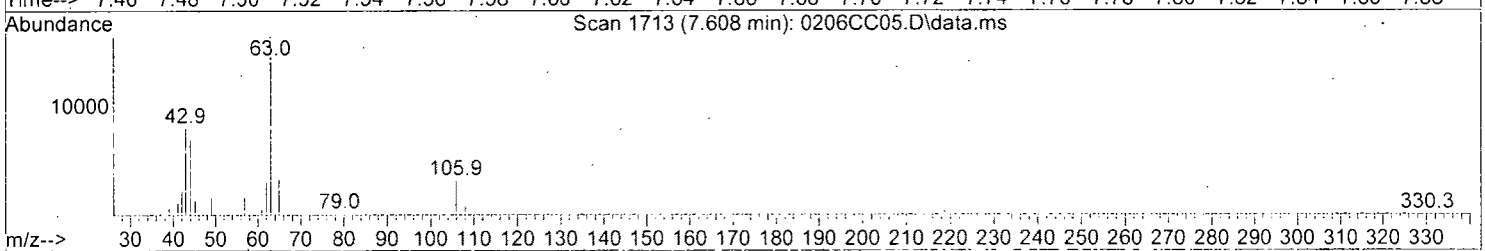
Freedom_0005792_0562

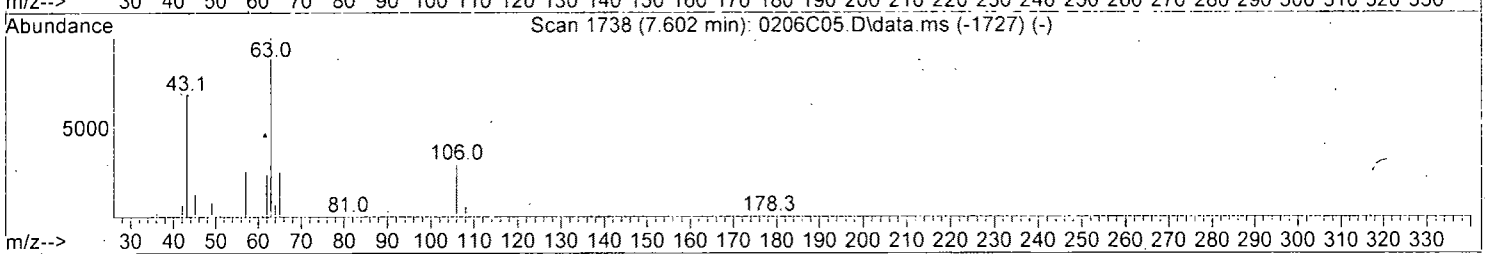
Quantitation Report (Qedit)

Data Path : D:\DATA\L02062014\
Data File : 0206CC05.D
Acq On : 6 Feb 2014 10:44
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 06 11:12:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0206CC05.D\data.ms

(35) 2-CHLOROETHYLVINYL ETHER (TMCP)

7.608min (-0.007) 4.57 ug/L

response 24590

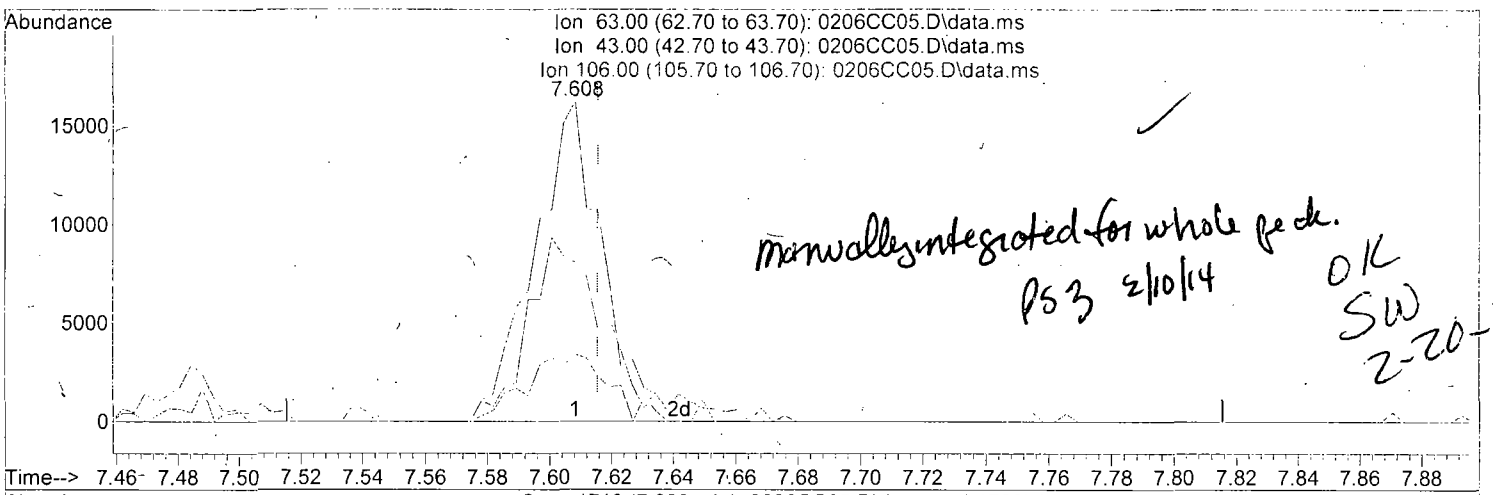
Ion	Exp%	Act%
63.00	100	100
43.00	73.00	63.16
106.00	30.00	26.05
0.00	0.00	0.00

Freedom_0005792_0563

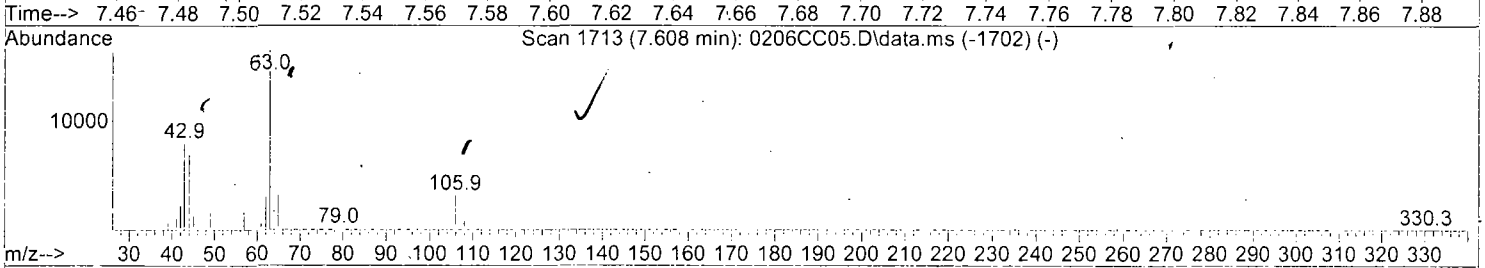
Quantitation Report (Qedit)

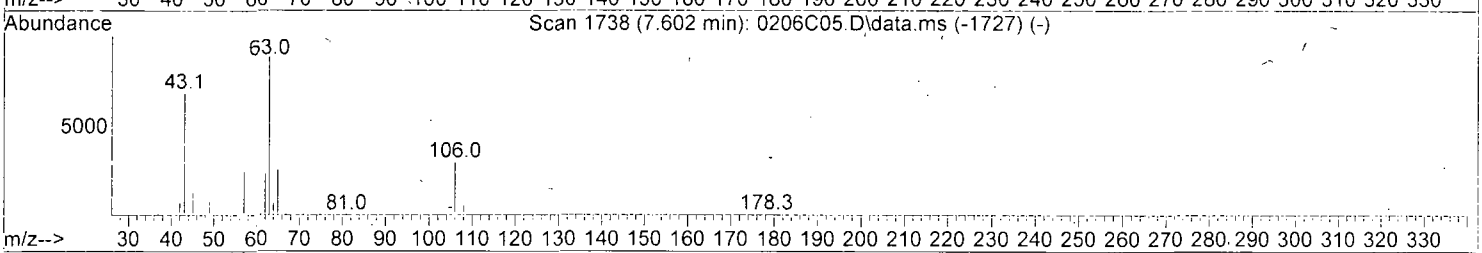
Data Path : D:\DATA\L02062014\
Data File : 0206CC05.D
Acq On : 6 Feb 2014 10:44
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 06 11:12:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration



manually integrated for whole peak.
PS 3 2/10/14
OK
SW
2-20-14





TIC: 0206CC05.D\data.ms

(35) 2-CHLOROETHYLVINYL ETHER (TMCP)

7.608min (-0.007) 4.77 ug/L m

response 25678

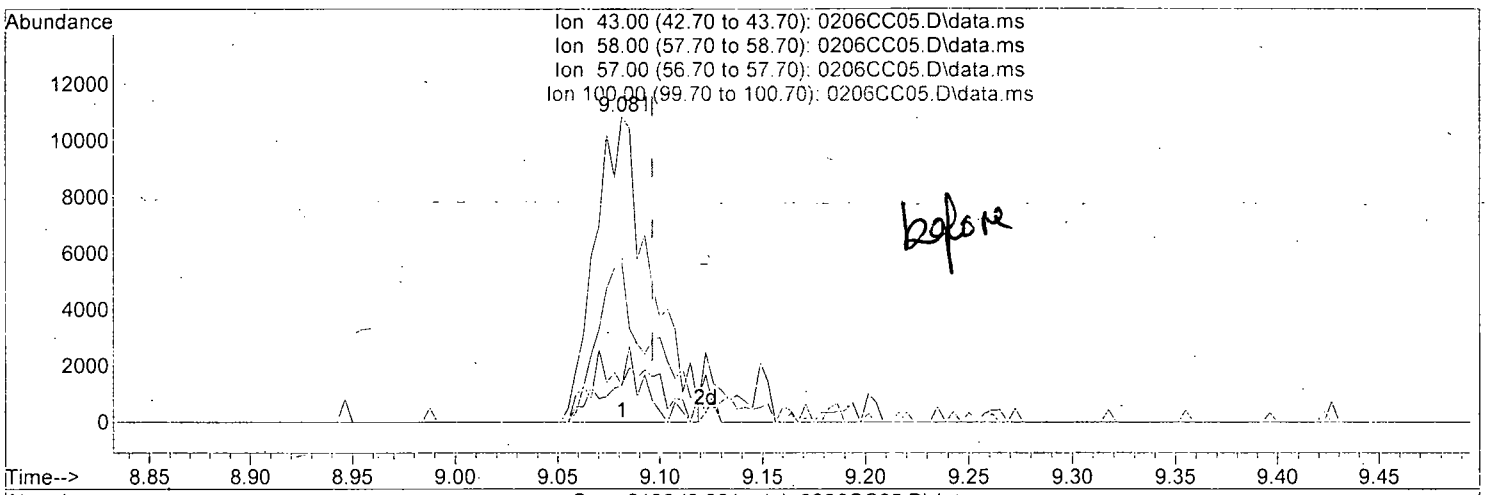
Ion	Exp%	Act%
63.00	100	100
43.00	73.00	60.48
106.00	30.00	24.95
0.00	0.00	0.00

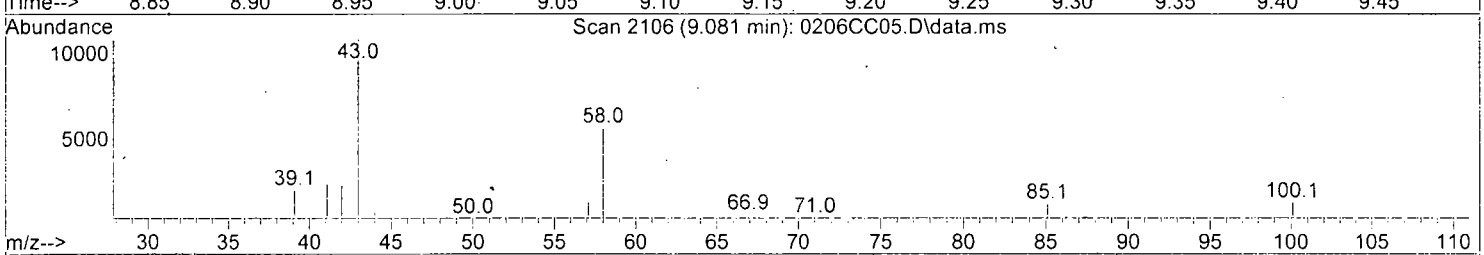
Freedom_0005792_0564

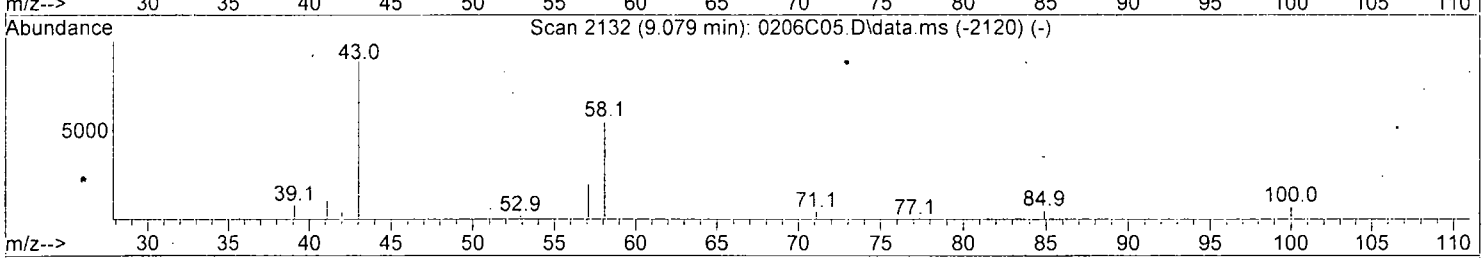
Quantitation Report (Qedit)

Data Path : D:\DATA\L02062014\
Data File : 0206CC05.D
Acq On : 6 Feb 2014 10:44
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 06 11:12:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0206CC05.D\data.ms

(45) 2-HEXANONE (TMCP)

9.081min (-0.015) 3.63 ug/L

response 20377

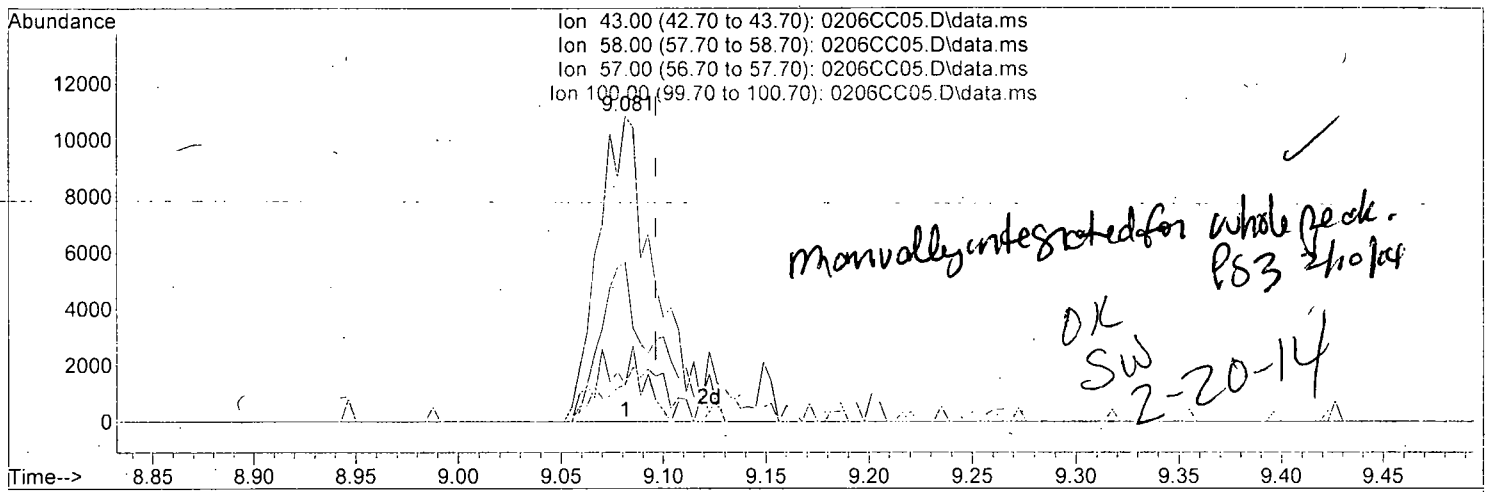
Ion	Exp%	Act%
43.00	100	100
58.00	50.30	50.27
57.00	18.10	11.94#
100.00	10.50	14.42#

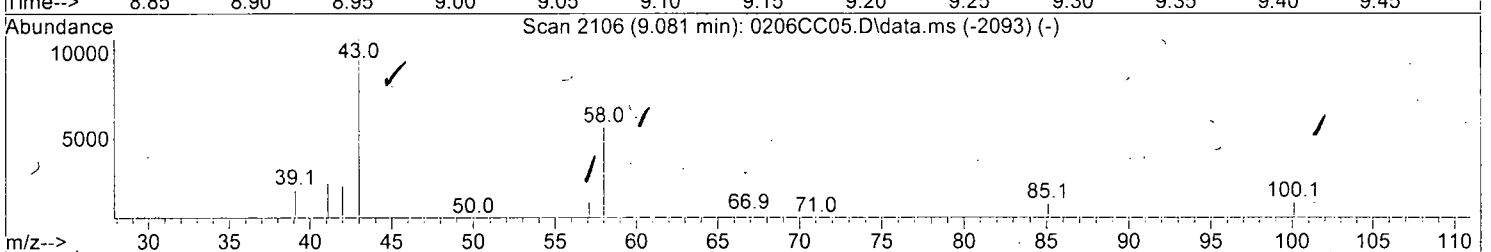
Freedom_0005792_0565

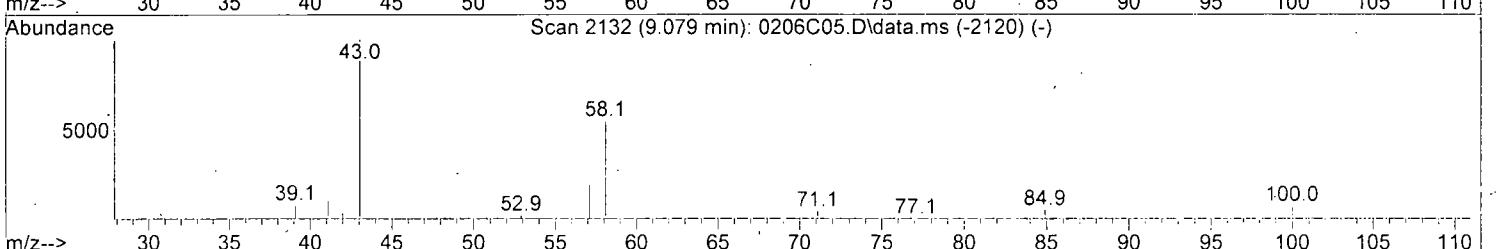
Quantitation Report (Qedit)

Data Path : D:\DATA\L02062014\
Data File : 0206CC05.D
Acq On : 6 Feb 2014 10:44
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 06 11:12:27 2014
Quant Method : D:\METHODS\L02042014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Tue Feb 04 16:14:21 2014
Response via : Initial Calibration







TIC: 0206CC05.D\data.ms

(45) 2-HEXANONE (TMCP)

9.081min (-0.015) 4.10 ug/L m

response 22975

Ion	Exp%	Act%
43.00	100	100
58.00	50.30	44.59
57.00	18.10	10.59#
100.00	10.50	12.79#

Response Factor Report PZ1-AG5975

Method Path : D:\METHODS\
Method File : L02122014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method
Last Update : Wed Feb 12 13:22:55 2014
Response Via : Initial Calibration

4 cmpds %RSD > 20
QC for Ketones in 5ppb

Calibration Files
0.5 =0212C005.D 1 =02121C01.D 5 =0212C05.D 10 =0212C10.D 20 =0212C20.D
50 =0212C50.D

	Compound	0.5	1	5	10	20	50	Avg	%RSD
1)	I 1,4-DIFLUOROBENZENE	----------	----------	ISTD	----------	----------	----------		
2)	TMCPDICHLORODIFLUO...	0.515	0.546	0.423	0.485	0.437	0.459	0.477	9.87
3)	TMCPCHLOROMETHANE	0.843	0.961	0.636	0.754	0.693	0.712	0.767	15.32
4)	TMCPVINYL CHLORIDE	0.495	0.534	0.446	0.484	0.438	0.460	0.476	7.54
5)	TMCPBROMOMETHANE	0.221	0.262	0.187	0.208	0.194	0.192	0.211	13.25
6)	TMCPCHLOROETHANE	0.311	0.313	0.246	0.277	0.246	0.252	0.274	11.45
7)	TMCPTRICHLOROFLUOR...	0.883	0.894	0.737	0.796	0.723	0.727	0.793	9.87
8)	TMCPACETONE			0.232	0.187	0.163	0.169	0.188	16.77
9)	TMCP1,1-DICHLOROET...	0.307	0.261	0.215	0.223	0.235	0.236	0.246	13.75
10)	TMCPMETHYLENE CHLO...	0.455	0.486	0.351	0.357	0.358	0.348	0.392	15.61
11)	TMCPFreon 113	0.501	0.416	0.347	0.350	0.362	0.358	0.389	15.52
12)	TMCPCARBON DISULFIDE	1.303	1.276	0.998	1.126	1.060	1.078	1.140	10.79
13)	TMCPMETHYL ACETATE	0.471	0.424	0.389	0.395	0.409	0.417	0.417	7.02
14)	TMCPTRANS-1,2-DICH...	0.390	0.362	0.305	0.321	0.340	0.337	0.342	8.77
15)	TMCPMETHYL-TERT-BU...	0.876	0.844	0.767	0.819	0.883	0.908	0.850	5.99
16)	TMCP1,1-DICHLOROET...	1.012	1.075	0.771	0.777	0.854	0.843	0.889	14.18
17)	TMCPVINYL ACETATE	0.880	0.786	0.739	0.920	0.925	1.001	0.875	11.07
18)	TMCP2-BUTANONE			0.207	0.230	0.220	0.245	0.226	7.11
19)	TMCPCIS-1,2-DICHLO...	0.347	0.395	0.314	0.361	0.379	0.377	0.362	7.97
20)	TMCPBROMOCHLOROMET...	0.216	0.202	0.158	0.166	0.174	0.172	0.181	12.51
21)	TMCPCHLOROFORM	0.867	0.869	0.672	0.708	0.743	0.728	0.764	10.94
22)	TMCP2,2-DICHLOROPR...	0.576	0.536	0.462	0.505	0.525	0.547	0.525	7.41
23)	S 1,2-DICHLOROET...	0.691	0.652	0.657	0.615	0.591	0.565	0.629	7.45
24)	TMCP1,2-DICHLOROET...	0.931	0.941	0.761	0.787	0.806	0.773	0.833	9.74
25)	TMCP1,1,1-TRICHLOR...	0.634	0.716	0.559	0.587	0.617	0.634	0.625	8.57
26)	TMCP1,1-DICHLOROPR...	0.536	0.508	0.405	0.454	0.505	0.536	0.491	10.54
27)	TMCPCYCLOHEXANE	0.938	0.799	0.793	0.894	1.015	1.036	0.912	11.41
28)	TMCPCARBON TETRACH...	0.682	0.609	0.501	0.523	0.556	0.578	0.575	11.28
29)	TMCPBENZENE	1.528	1.630	1.320	1.466	1.503	1.504	1.492	6.76
30)	TMCPDIBROMOMETHANE	0.270	0.266	0.232	0.236	0.238	0.237	0.247	6.89
31)	TMCP1,2-DICHLOROPR...	0.528	0.499	0.409	0.444	0.461	0.471	0.469	8.84
32)	TMCPTRICHLOROETHENE	0.439	0.465	0.349	0.396	0.419	0.448	0.419	10.01
33)	TMCPBROMODICHLOROM...	0.584	0.624	0.502	0.520	0.552	0.568	0.558	7.86
34)	TMCPMETHYLCYCLOHEXANE	0.615	0.574	0.517	0.615	0.681	0.723	0.621	11.84
35)	TMCP2-CHLOROETHYLV...		0.222	0.203	0.253	0.265		0.236	11.97
36)	TMCPCIS-1,3-DICHLO...	0.509	0.500	0.497	0.527	0.587	0.613	0.539	9.12
37)	I CHLOROBENZENE-d5	----------	----------	ISTD	----------	----------	----------		
38)	TMCP4-METHYL-2-PEN...			0.408	0.538	0.516	0.549	0.503	12.90
39)	TMCPTRANS-1,3-DICH...	0.513	0.513	0.468	0.557	0.613	0.644	0.551	12.13
40)	TMCP1,1,2-TRICHLOR...	0.423	0.375	0.309	0.356	0.364	0.350	0.363	10.27
41)	S TOLUENE-d8	1.347	1.384	1.347	1.498	1.459	1.359	1.399	4.58
42)	TMCPTOLUENE	1.085	1.050	0.854	1.022	1.042	1.008	1.010	7.99
43)	TMCP1,3-DICHLOROPR...	0.841	0.786	0.628	0.729	0.730	0.700	0.736	9.91
44)	TMCPCHLORODIBROMOM...	0.394	0.422	0.307	0.392	0.406	0.404	0.388	10.51
45)	TMCP2-HEXANONE			0.245	0.352	0.355	0.392	0.336	18.90
46)	TMCP1,2-DIBROMOETH...	0.360	0.394	0.298	0.357	0.367	0.353	0.355	8.91
47)	TMCPTETRACHLOROETHENE	0.308	0.341	0.278	0.332	0.337	0.326	0.320	7.47
48)	TMCP1,1,1,2-TETRAC...	0.358	0.413	0.311	0.394	0.387	0.392	0.376	9.68
49)	TMCPCHLOROBENZENE	1.108	1.134	0.964	1.131	1.146	1.113	1.100	6.16
50)	TMCPETHYLBENZENE	1.742	1.749	1.575	2.021	2.133	2.173	1.899	12.83
51)	TMCPBROMOFORM	0.246	0.218	0.197	0.239	0.257	0.283	0.240	12.46
52)	TMCPM-XYLENE/P-XYLENE	0.571	0.633	0.612	0.769	0.818	0.781	0.697	14.93
53)	TMCPSTYRENE	0.849	0.922	1.021	1.369	1.364	1.336	1.144	20.95#
54)	TMCPO-XYLENE	0.651	0.742	0.747	0.909	0.851	0.811	0.785	11.61

Freedom_0005792_0567

Method Path : D:\METHODS\
Method File : L02122014.M
Title : VOA Purge and Trap LOW LEVEL Aqueous Method

55)	TMCPISOPROPYLBENZENE	1.678	1.881	1.726	2.142	2.292	2.283	2.000	13.75
56)	I 1,4-DICHLOROBENZEN...	----------	----------	----------	ISTD	----------	----------	----------	
57)	TMCP1,1,2,2-TETRAC...	0.718	0.505	0.418	0.439	0.374	0.369	0.470	27.80#
58)	TMCP1,2,3-TRICHLOR...	0.865	0.819	0.583	0.587	0.577	0.639	0.678	19.10
59)	S 4-BROMOFLUOROB...	1.029	0.988	1.015	1.058	0.971	1.067	1.021	3.71
60)	TMCPBROMOBENZENE	0.842	0.846	0.662	0.726	0.716	0.788	0.763	9.70
61)	TMCPN-PROPYLBENZENE	3.806	3.630	3.569	4.227	4.294	4.808	4.056	11.74
62)	TMCP2-CHLOROTOLUENE	2.459	2.562	2.329	2.526	2.462	2.703	2.507	4.98
63)	TMCP4-CHLOROTOLUENE	2.679	2.677	2.372	2.707	2.659	2.989	2.680	7.31
64)	TMCP1,3,5-TRIMETHY...	2.315	2.237	2.379	2.782	2.848	3.295	2.643	15.40
65)	TMCPTERT-BUTYLBENZENE	1.779	1.928	2.049	2.352	2.401	2.751	2.210	16.20
66)	TMCP1,2,4-TRIMETHY...	2.174	2.307	2.510	2.943	3.007	3.432	2.729	17.58
67)	TMCPSEC-BUTYLBENZENE	3.035	3.421	3.498	4.009	4.018	4.483	3.744	13.92
68)	TMCP1,3-DICHLOROBE...	1.954	1.874	1.501	1.635	1.593	1.739	1.716	10.10
69)	TMCP1,4-DICHLOROBE...	2.083	1.906	1.506	1.655	1.620	1.789	1.760	11.97
70)	TMCPP-ISOPROPYLTOL...	2.183	2.517	2.610	3.130	3.175	3.715	2.888	19.20
71)	TMCP1,2-DICHLOROBE...	1.590	1.633	1.372	1.538	1.495	1.683	1.552	7.12
72)	TMCPN-BUTYLBENZENE	2.276	2.603	2.806	3.415	3.546	4.111	3.126	21.83#
73)	TMCP1,2-DIBROMO-3-...	0.138	0.110	0.102	0.112	0.116	0.153	0.122	16.02
74)	TMCP1,2,4-TRICHLOR...	1.007	1.091	0.918	1.118	1.169	1.390	1.116	14.46
75)	TMCPNAPHTHALENE	1.471	1.478	1.575	2.193	2.427	2.959	2.017	30.33#
76)	TMCPHEXACHLOROBUTA...	0.655	0.646	0.524	0.644	0.703	0.862	0.672	16.41
77)	TMCP1,2,3-TRICHLOR...	0.982	0.921	0.955	1.134	1.177	1.360	1.088	15.43

(#) = Out of Range

Freedom_0005792_0568

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:12:10 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-DIFLUOROBENZENE	6.525	114	128182	5.00 ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	118550	5.00 ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	62825	5.00 ug/L	0.00
System Monitoring Compounds					
23) 1,2-DICHLOROETHANE-d4	5.494	65	88623	6.98 ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 139.60%#	
41) TOLUENE-d8	8.617	98	159738	5.06 ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 101.20%	
59) 4-BROMOFLUOROBENZENE	11.645	95	64631	5.08 ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 101.60%	
Target Compounds					Qvalue
2) DICHLORODIFLUOROMETHANE	1.296	85	6597	0.48 ug/L #	83
3) CHLOROMETHANE	1.412	50	10808	1.53 ug/L	94
4) VINYL CHLORIDE	1.524	62	6349	0.75 ug/L #	73
5) BROMOMETHANE	1.783	94	2831m	0.49 ug/L	
6) CHLOROETHANE	1.895	64	3986	0.73 ug/L #	81
7) TRICHLOROFLUOROMETHANE	2.319	101	11322	0.53 ug/L	92
8) ACETONE	2.454	43	1433	0.45 ug/L #	47
9) 1,1-DICHLOROETHENE	2.799	96	3939m	0.58 ug/L	
10) METHYLENE CHLORIDE	2.975	84	5837	0.57 ug/L #	39
11) Freon 113	3.046	101	6423	0.59 ug/L #	67
12) CARBON DISULFIDE	3.080	76	16696	0.60 ug/L #	84
13) METHYL ACETATE	3.106	43	6037	1.08 ug/L #	59
14) TRANS-1,2-DICHLOROETHENE	3.691	96	4993	0.52 ug/L	81
15) METHYL-TERT-BUTYL ETHER	3.871	73	11227	0.46 ug/L #	81
16) 1,1-DICHLOROETHANE	3.961	63	12978	0.71 ug/L #	88
17) VINYL ACETATE	4.257	43	11279	0.92 ug/L #	75
19) CIS-1,2-DICHLOROETHENE	4.617	96	4446m	0.42 ug/L	
20) BROMOCHLOROMETHANE	4.785	128	2768m	0.54 ug/L	
21) CHLOROFORM	4.857	83	11110	0.54 ug/L	97
22) 2,2-DICHLOROPROPANE	4.920	77	7385	0.55 ug/L #	87
24) 1,2-DICHLOROETHANE	5.576	62	11929	0.72 ug/L #	69
25) 1,1,1-TRICHLOROETHANE	5.674	97	8125	0.48 ug/L #	82
26) 1,1-DICHLOROPROPENE	5.921	75	6875	0.50 ug/L #	84
27) CYCLOHEXANE	5.974	56	12029m	0.81 ug/L	
28) CARBON TETRACHLORIDE	6.071	117	8739	0.59 ug/L #	59
29) BENZENE	6.146	78	10583	0.47 ug/L #	86
30) DIBROMOMETHANE	6.780	93	3467m	0.49 ug/L	
31) 1,2-DICHLOROPROPANE	6.858	63	6764	0.67 ug/L #	66
32) TRICHLOROETHENE	6.918	130	5627m	0.46 ug/L	
33) BROMODICHLOROMETHANE	6.956	83	7482m	0.50 ug/L	
34) METHYLCYCLOHEXANE	7.481	83	7880	0.45 ug/L #	31
36) CIS-1,3-DICHLOROPROPENE	7.784	75	6522	0.46 ug/L #	82
38) 4-METHYL-2-PENTANONE	7.994	43	4243	0.60 ug/L #	46
39) TRANS-1,3-DICHLOROPROPENE	8.324	75	6078	0.49 ug/L	89
40) 1,1,2-TRICHLOROETHANE	8.482	97	5017m	0.52 ug/L	
42) TOLUENE	8.699	92	12862	0.52 ug/L	96
43) 1,3-DICHLOROPROPANE	8.774	76	9975	0.56 ug/L #	63
44) CHLORODIBROMOMETHANE	9.018	129	4673	0.48 ug/L #	86

Freedom_0005792_0569

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:12:10 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	2-HEXANONE	9.085	43	1547	0.31	ug/L	#	40
46)	1,2-DIBROMOETHANE (EDB)	9.299	107	4273	0.45	ug/L	#	40
47)	TETRACHLOROETHENE	9.554	164	3647	0.44	ug/L	#	81
48)	1,1,1,2-TETRACHLOROETHANE	10.292	131	4244	0.49	ug/L	#	80
49)	CHLOROBENZENE	10.375	112	13138	0.47	ug/L		89
50)	ETHYLBENZENE	10.652	91	20657	0.44	ug/L		93
51)	BROMOFORM	10.877	173	2911	0.51	ug/L	#	81
52)	M-XYLENE/P-XYLENE	10.888	106	13535	0.77	ug/L		97
53)	STYRENE	11.211	104	20140	0.70	ug/L		95
54)	O-XYLENE	11.278	106	15441	0.80	ug/L		88
55)	ISOPROPYLBENZENE	11.649	105	19897	0.39	ug/L	#	86
57)	1,1,2,2-TETRACHLOROETHANE	11.263	83	4508	0.70	ug/L	#	71
58)	1,2,3-TRICHLOROPROPANE	11.402	75	5437	0.58	ug/L		93
60)	BROMOBENZENE	11.799	156	5288	0.50	ug/L	#	56
61)	N-PROPYLBENZENE	12.062	91	23911	0.43	ug/L		91
62)	2-CHLOROTOLUENE	12.103	91	15450	0.46	ug/L		92
63)	4-CHLOROTOLUENE	12.185	91	16828	0.46	ug/L		92
64)	1,3,5-TRIMETHYLBENZENE	12.358	105	14546	0.41	ug/L		99
65)	TERT-BUTYLBENZENE	12.564	119	11176	0.37	ug/L	#	76
66)	1,2,4-TRIMETHYLBENZENE	12.676	105	13660	0.37	ug/L		95
67)	SEC-BUTYLBENZENE	12.759	105	19067	0.38	ug/L		96
68)	1,3-DICHLOROBENZENE	12.770	146	12277	0.54	ug/L		93
69)	1,4-DICHLOROBENZENE	12.830	146	13084	0.57	ug/L	#	72
70)	P-ISOPROPYLTOLUENE	12.935	119	13714	0.34	ug/L	#	88
71)	1,2-DICHLOROBENZENE	13.107	146	9988	0.47	ug/L	#	84
72)	N-BUTYLBENZENE	13.265	91	14297	0.34	ug/L	#	90
73)	1,2-DIBROMO-3-CHLOROPR...	13.475	75	864	0.58	ug/L	#	27
74)	1,2,4-TRICHLOROBENZENE	14.554	180	6325	0.40	ug/L	#	92
75)	NAPHTHALENE	14.731	128	9240	0.30	ug/L	#	90
76)	HEXACHLOROBUTADIENE	14.809	225	4115	0.46	ug/L	#	63
77)	1,2,3-TRICHLOROBENZENE	14.877	180	6170	0.40	ug/L	#	83

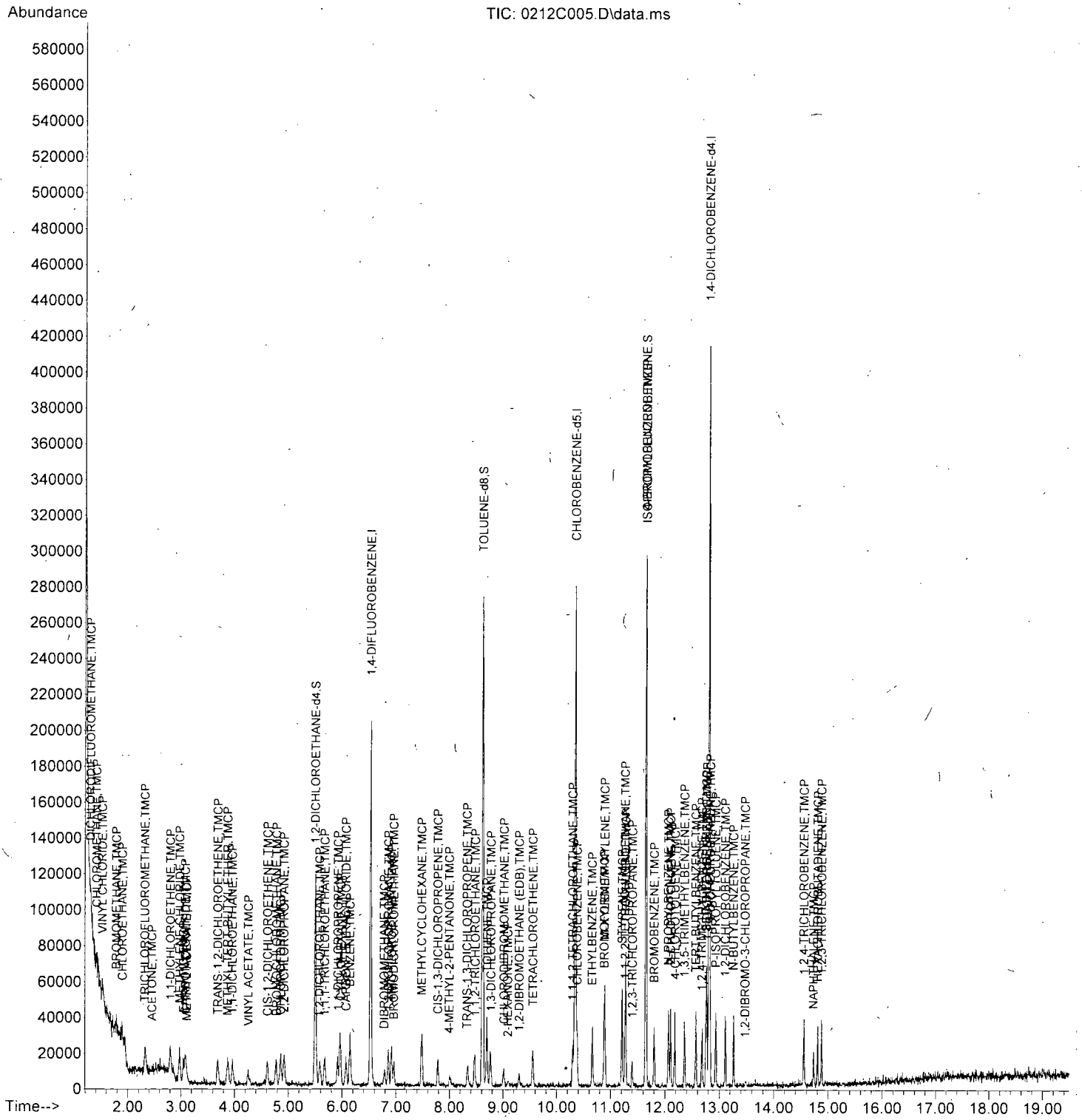
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0570

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:12:10 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration

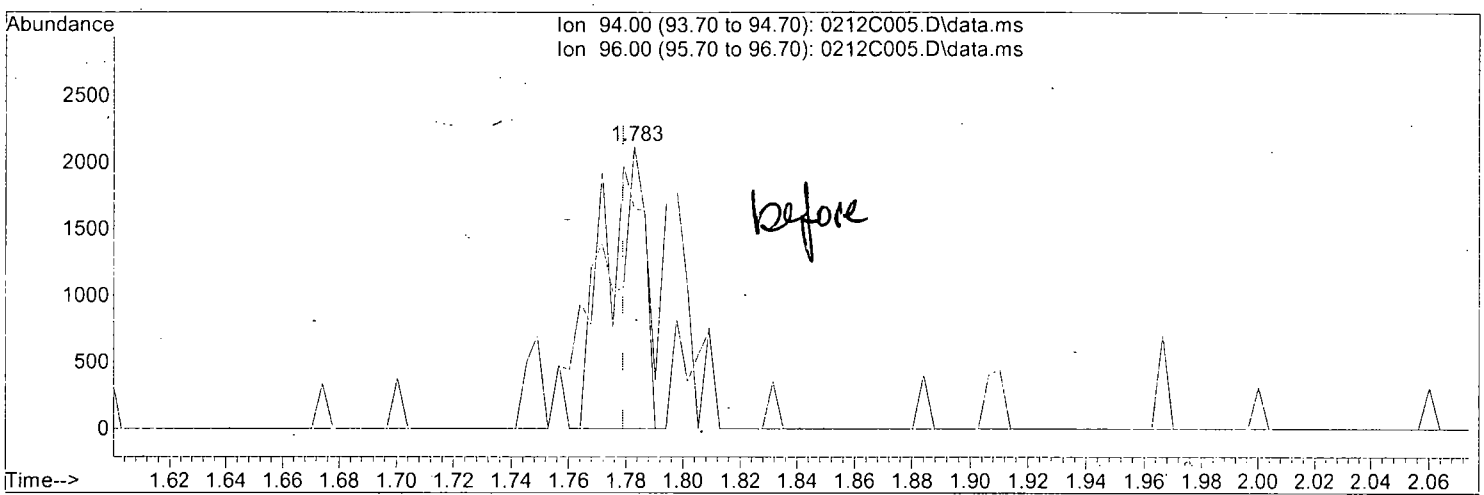


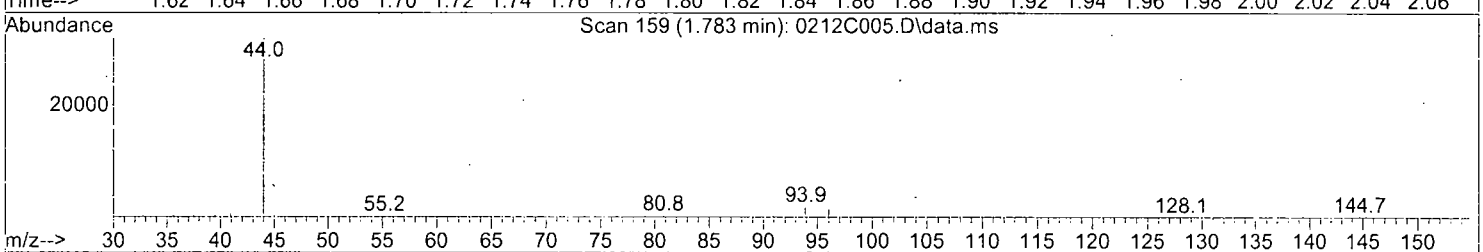
Freedom_0005792_0571

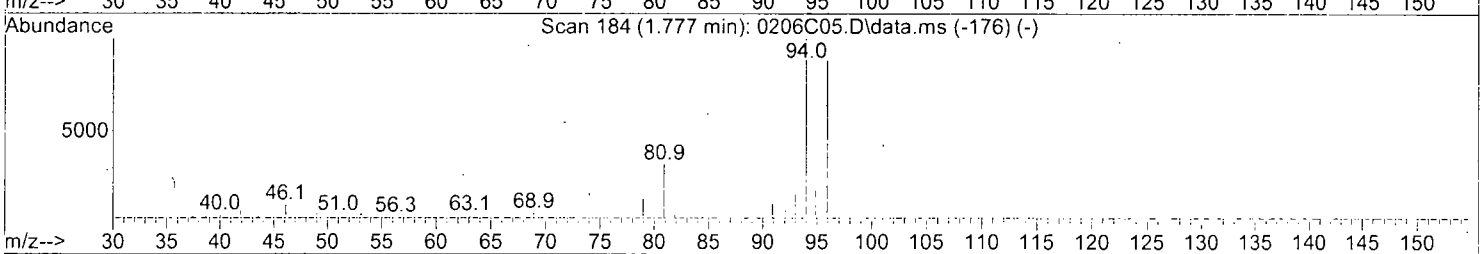
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration







TIC: 0212C005.D\data.ms

(5) BROMOMETHANE (TMCP)

1.783min (+0.004) 0.33 ug/L

response 1894

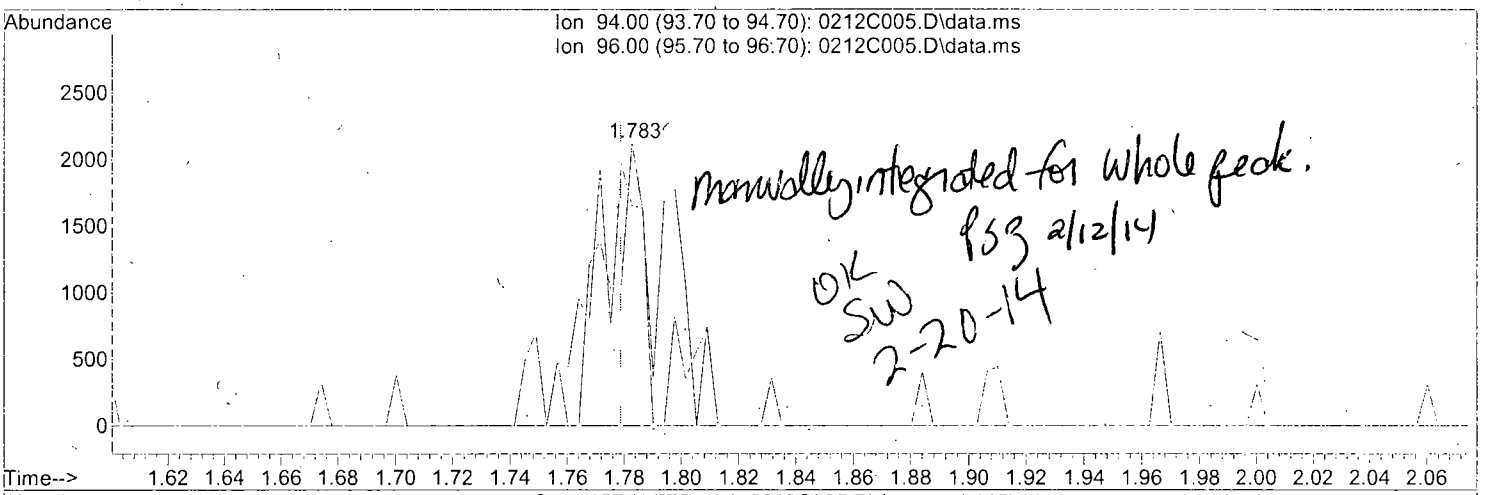
Ion	Exp%	Act%
94.00	100	100
96.00	93.10	66.68#
0.00	0.00	0.00
0.00	0.00	0.00

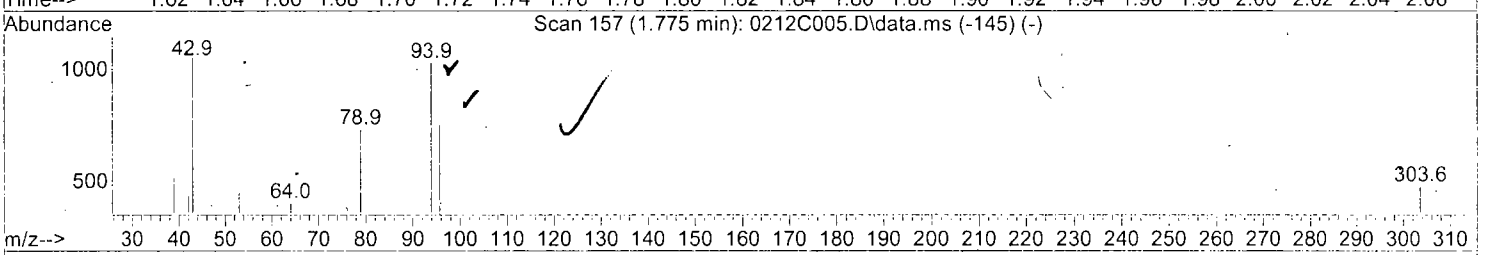
Freedom_0005792_0572

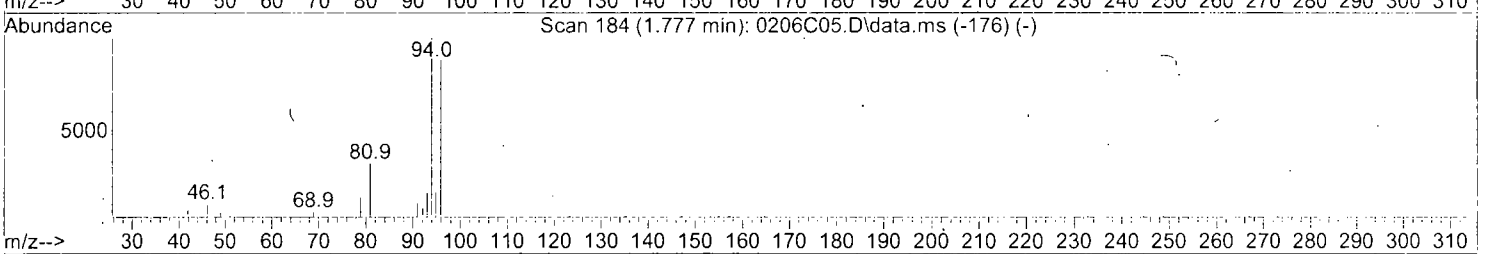
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration







TIC: 0212C005.D\data.ms

(5) BROMOMETHANE (TMCP)

1.783min (+0.004) 0.49 ug/L m

response 2831

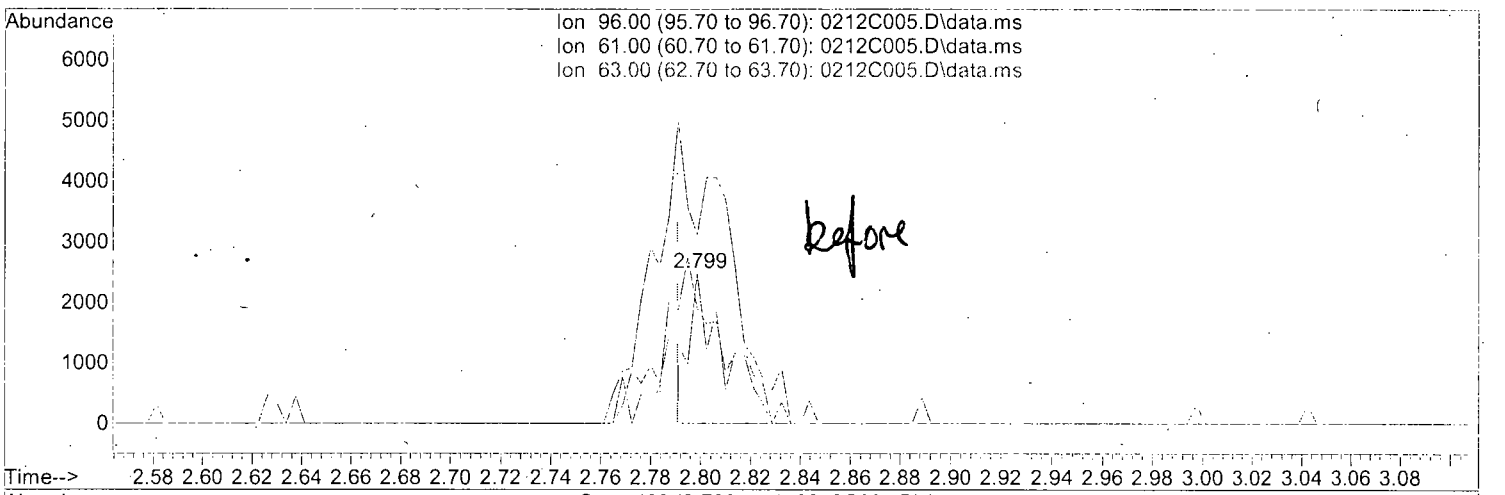
Ion	Exp%	Act%
94.00	100	100
96.00	93.10	44.61#
0.00	0.00	0.00
0.00	0.00	0.00

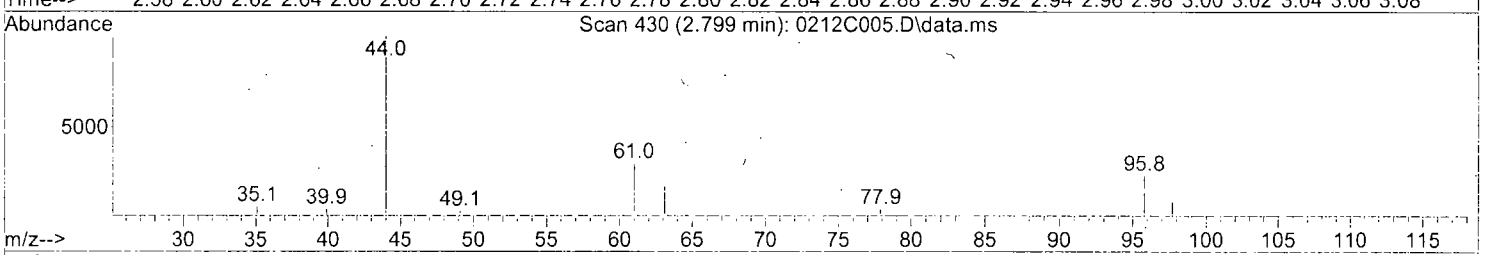
Freedom_0005792_0573

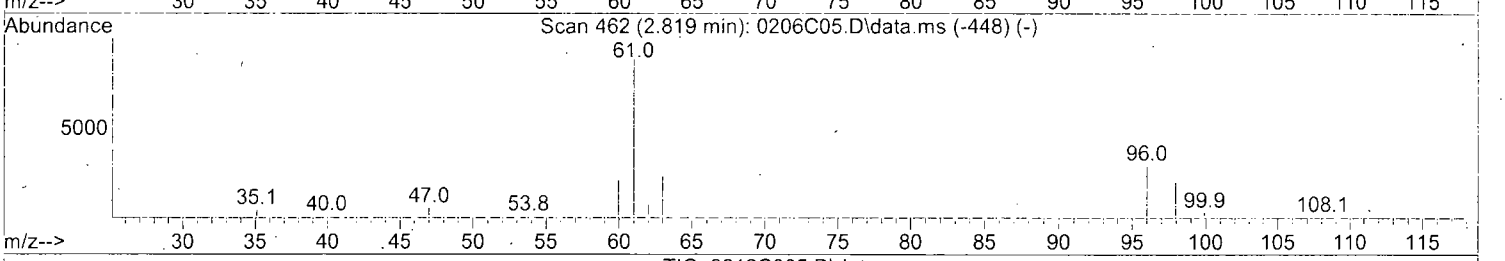
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration







TIC: 0212C005.D\data.ms

(9) 1,1-DICHLOROETHENE (TMCP)

2.799min (+0.008) 0.37 ug/L

response 2541

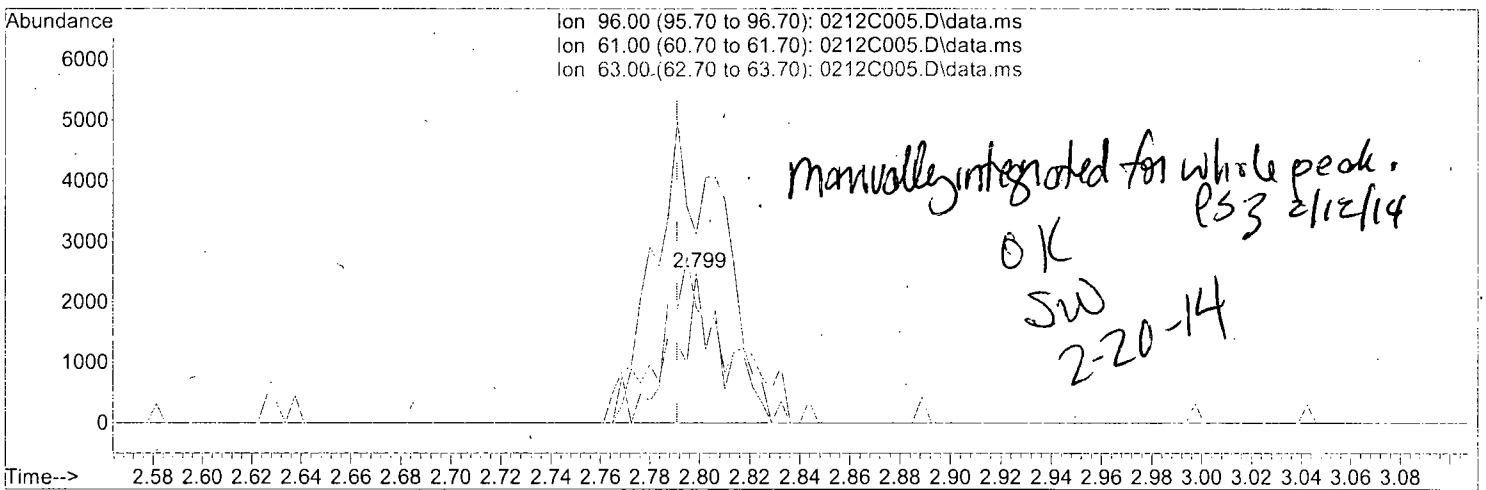
Ion	Exp%	Act%
96.00	100	100
61.00	173.00	389.30#
63.00	55.30	153.17#
0.00	0.00	0.00

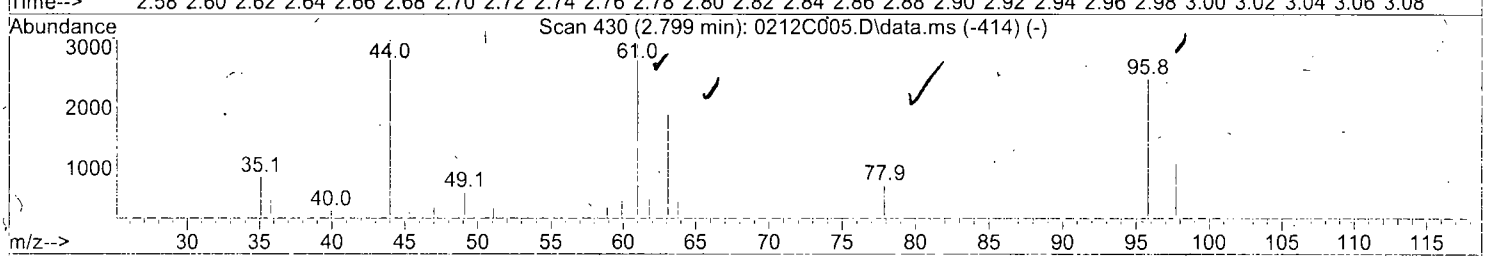
Freedom_0005792_0574

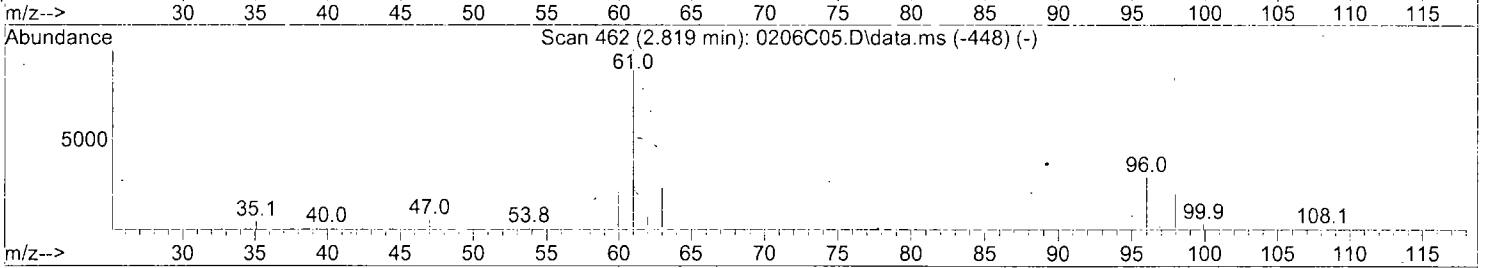
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration







TIC: 0212C005.D\data.ms

(9) 1,1-DICHLOROETHENE (TMCP)

2.799min (+0.008) 0.58 ug/L m

response 3939

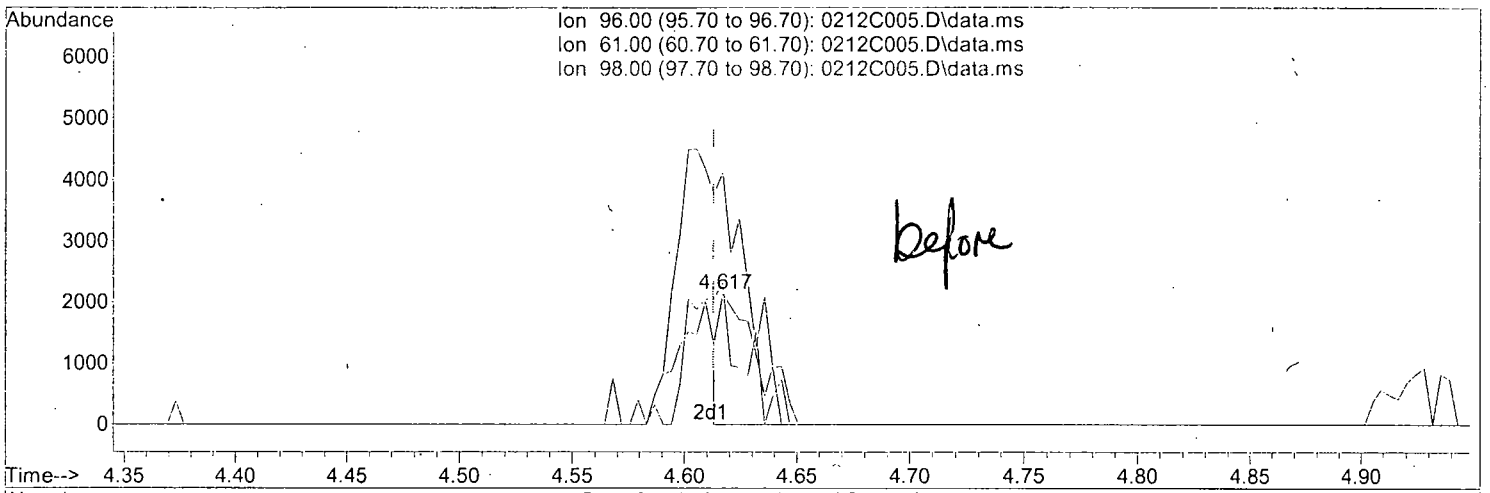
Ion	Exp%	Act%
96.00	100	100
61.00	173.00	251.13#
63.00	55.30	98.81#
0.00	0.00	0.00

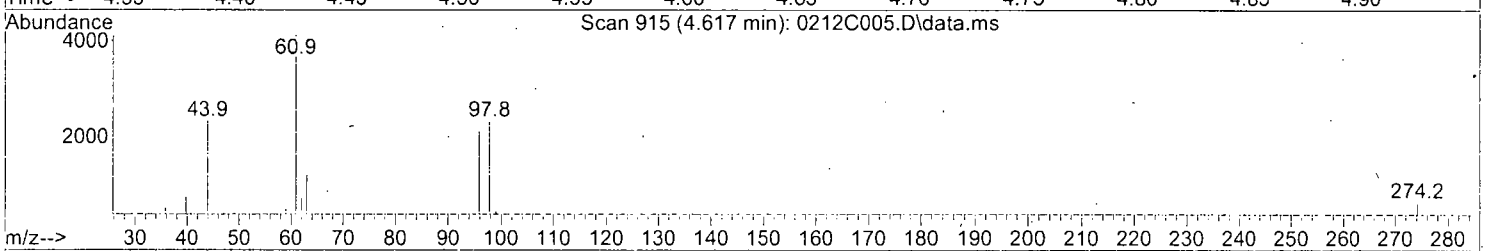
Freedom_0005792_0575

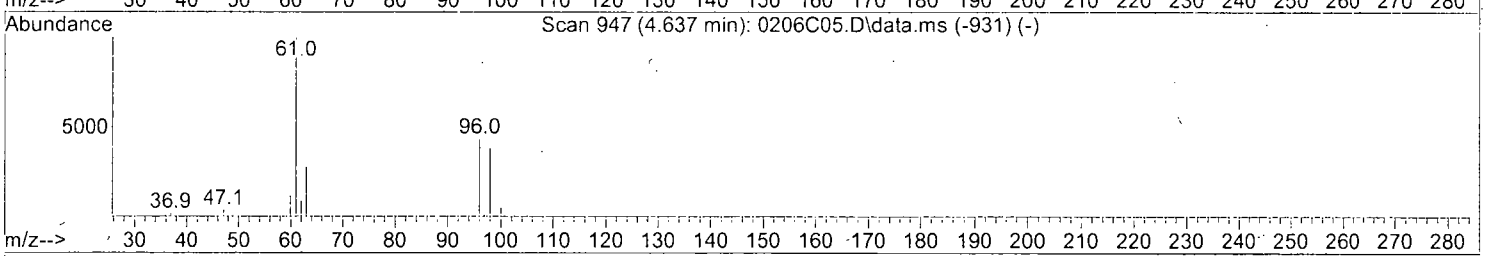
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration







TIC: 0212C005.D\data.ms

(19) CIS-1,2-DICHLOROETHENE (TMCP)

4.617min (+0.004) 0.21 ug/L

response 2250

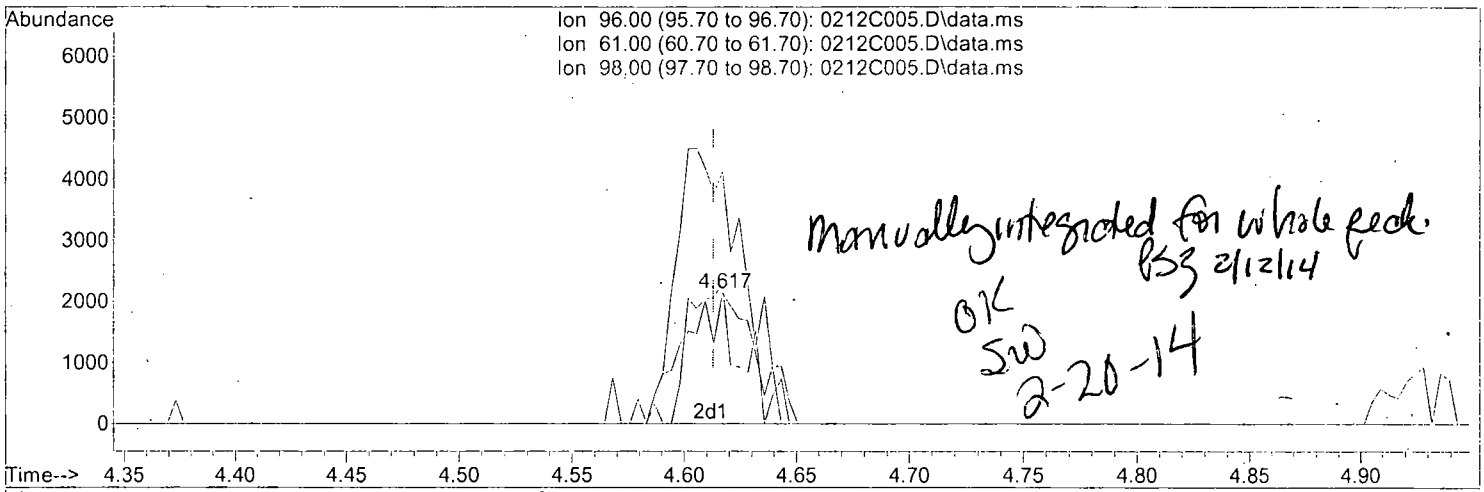
Ion	Exp%	Act%
96.00	100	100
61.00	137.40	0.00#
98.00	64.60	164.09#
0.00	0.00	0.00

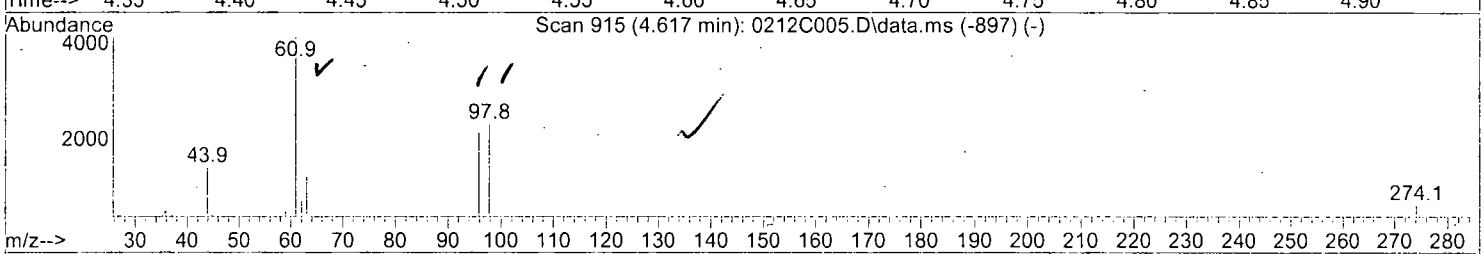
Freedom_0005792_0576

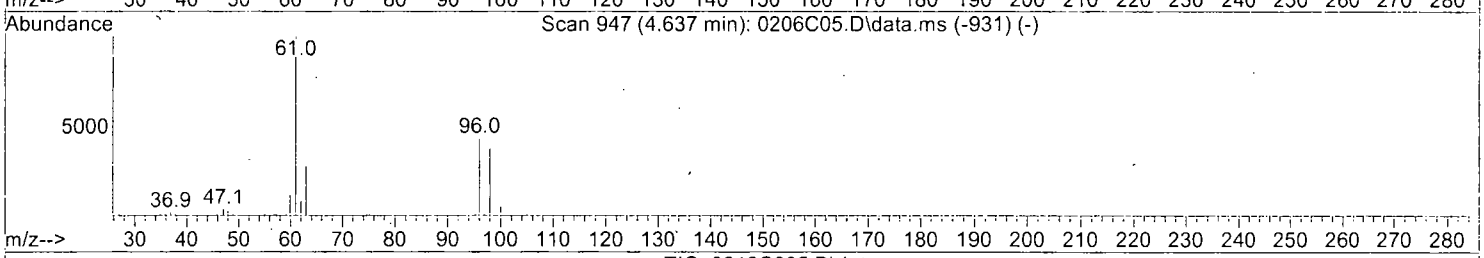
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration







TIC: 0212C005.D\data.ms

(19) CIS-1,2-DICHLOROETHENE (TMCP)

4.617min (+0.004) 0.42 ug/L m

response 4446

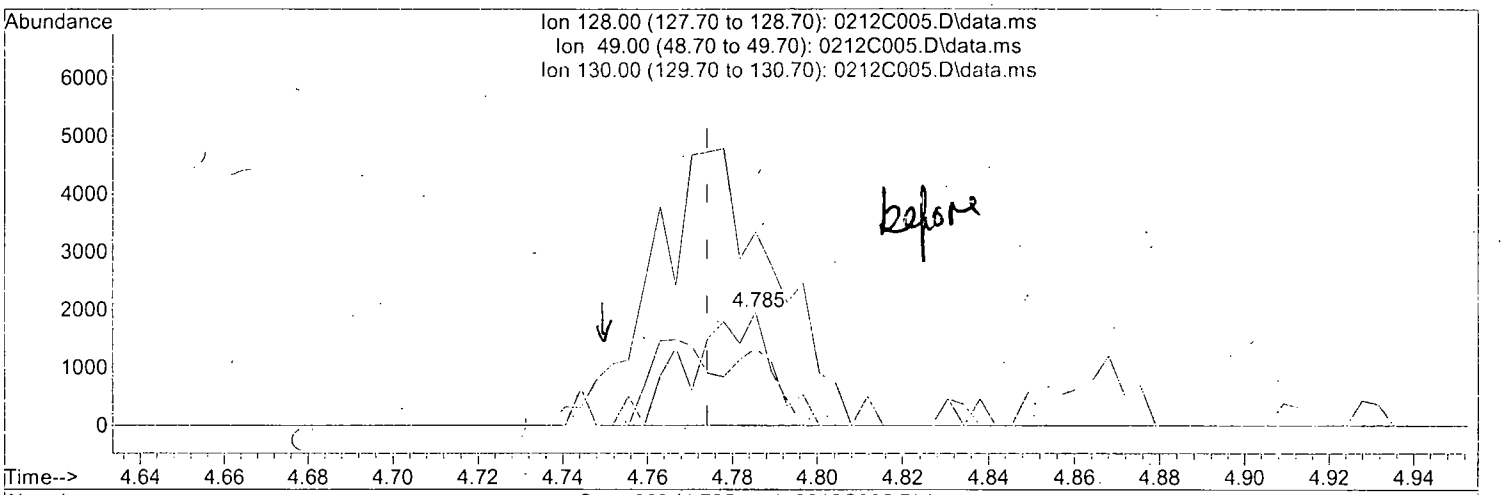
Ion	Exp%	Act%
96.00	100	100
61.00	137.40	0.00#
98.00	64.60	83.04#
0.00	0.00	0.00

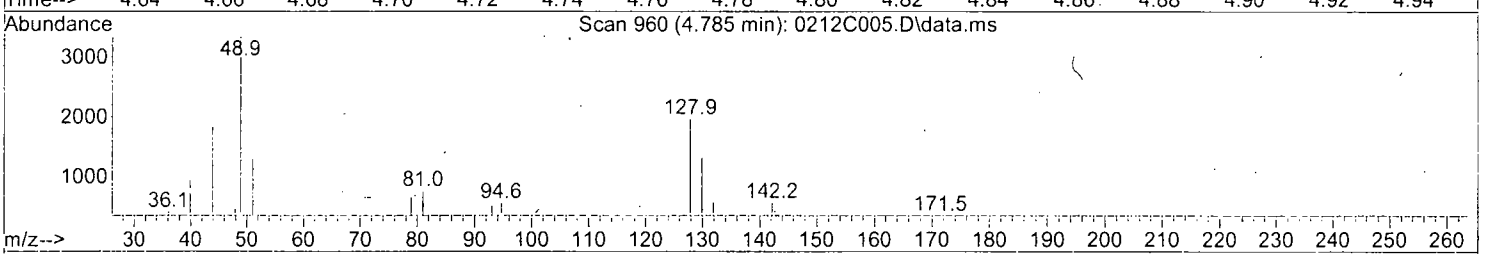
Freedom_0005792_0577

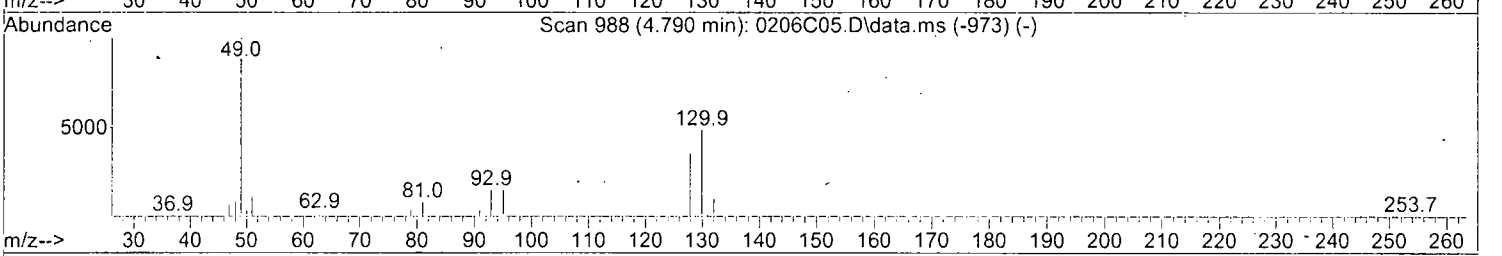
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration







TIC: 0212C005.D\data.ms

(20) BROMOCHLOROMETHANE (TMCP)

4.785min (+0.011) 0.51 ug/L

response 2624

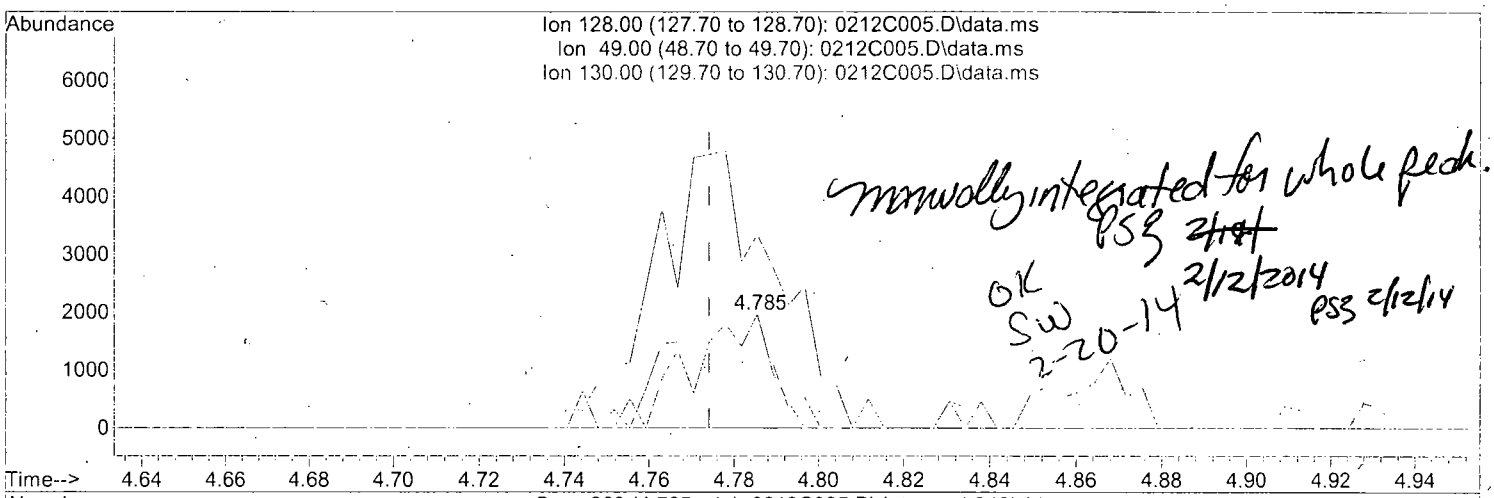
Ion	Exp%	Act%
128.00	100	100
49.00	154.70	356.78#
130.00	132.80	38.00#
0.00	0.00	0.00

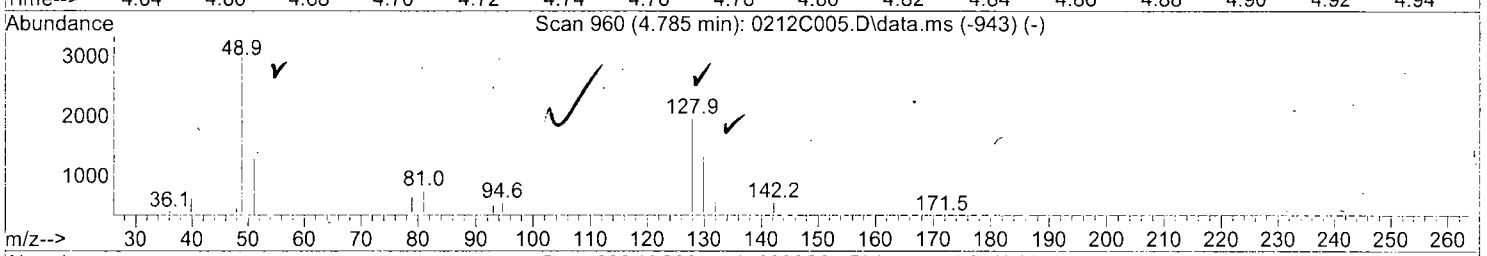
Freedom_0005792_0578

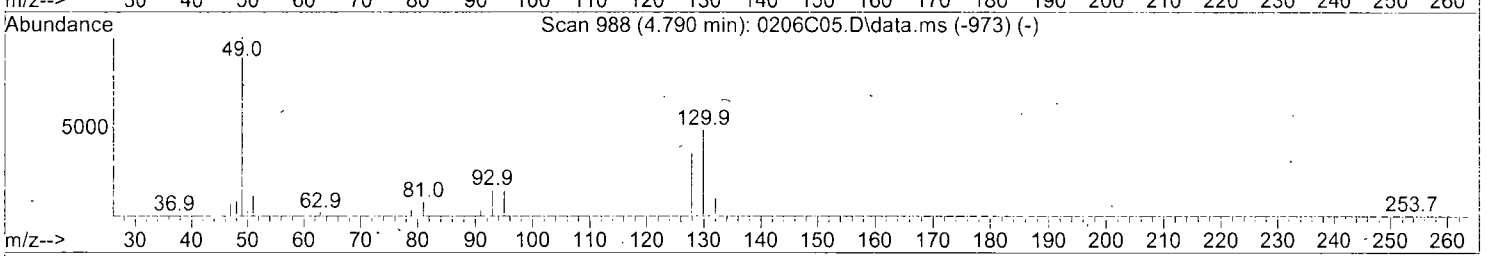
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration







TIC: 0212C005.D\data.ms

(20) BROMOCHLOROMETHANE (TMCP)

4.785min (+0.011) 0.54 ug/L m

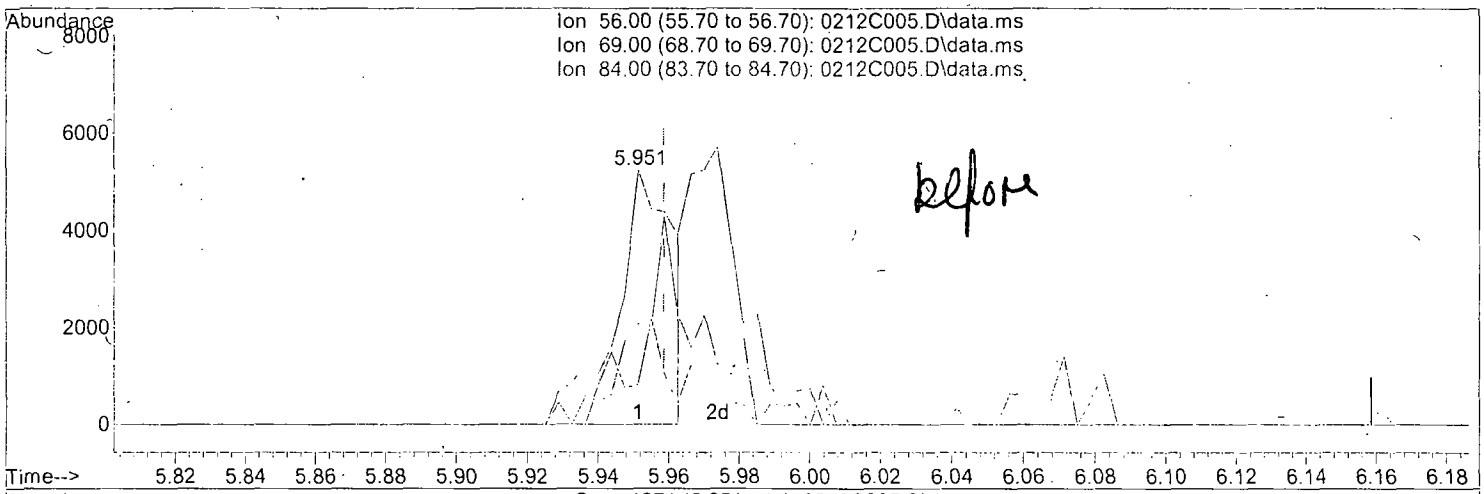
response 2768

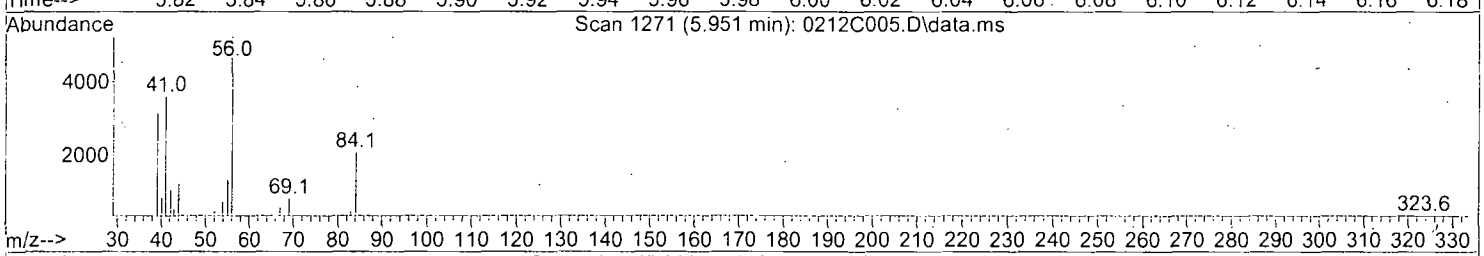
Ion	Exp%	Act%
128.00	100	100
49.00	154.70	338.22#
130.00	132.80	36.02#
0.00	0.00	0.00

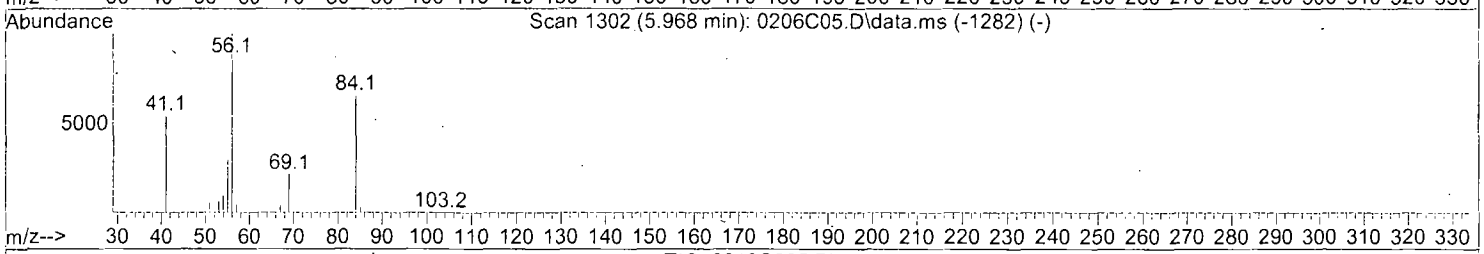
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration







TIC: 0212C005.D\data.ms

(27) CYCLOHEXANE (TMCP)

5.951min (-0.007) 0.39 ug/L

response 5857

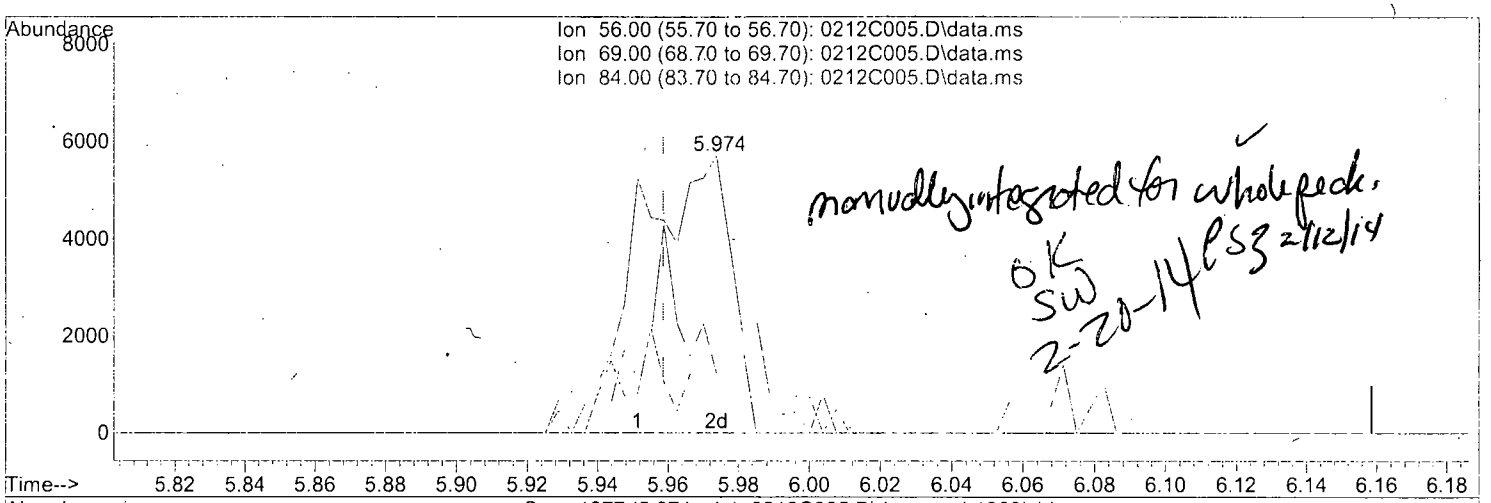
Ion	Exp%	Act%
56.00	100	100
69.00	29.60	17.26#
84.00	86.40	90.15
0.00	0.00	0.00

Freedom_0005792_0580

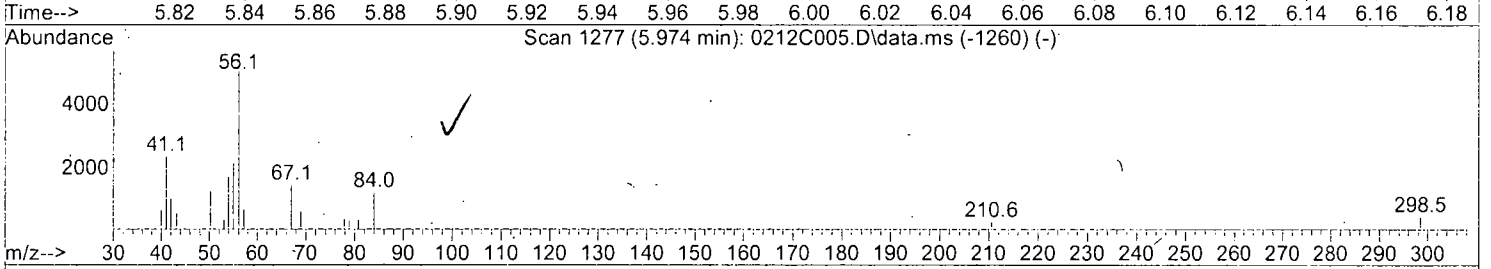
Quantitation Report (Qedit)

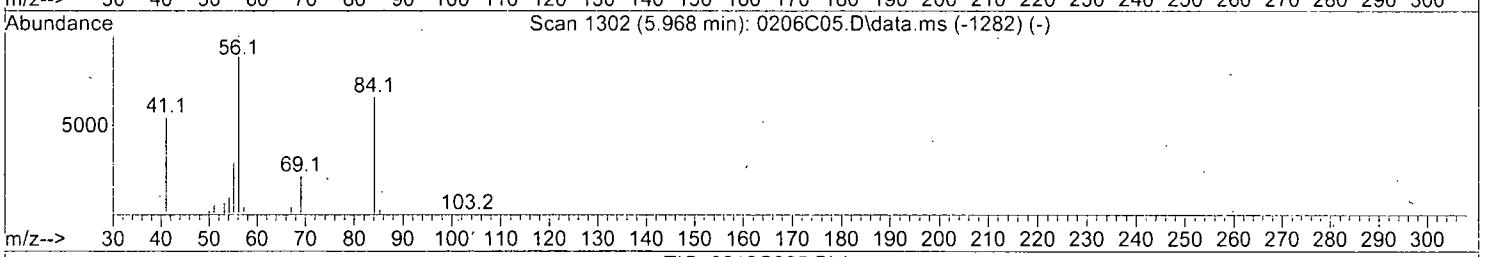
Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration



manually integrated for whole peak.
OK SW 2-20-14 PSG 2/12/14





TIC: 0212C005.D\data.ms

(27) CYCLOHEXANE (TMCP)

5.974min (+0.015) 0.81 ug/L m

response 12029

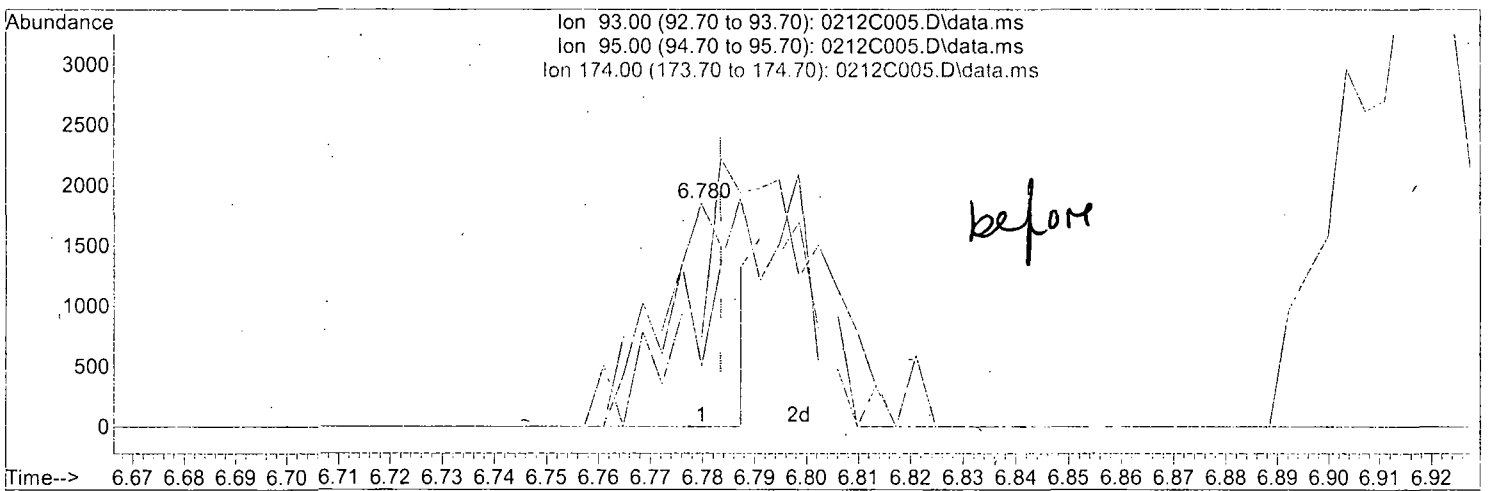
Ion	Exp%	Act%
56.00	100	100
69.00	29.60	8.40#
84.00	86.40	43.89#
0.00	0.00	0.00

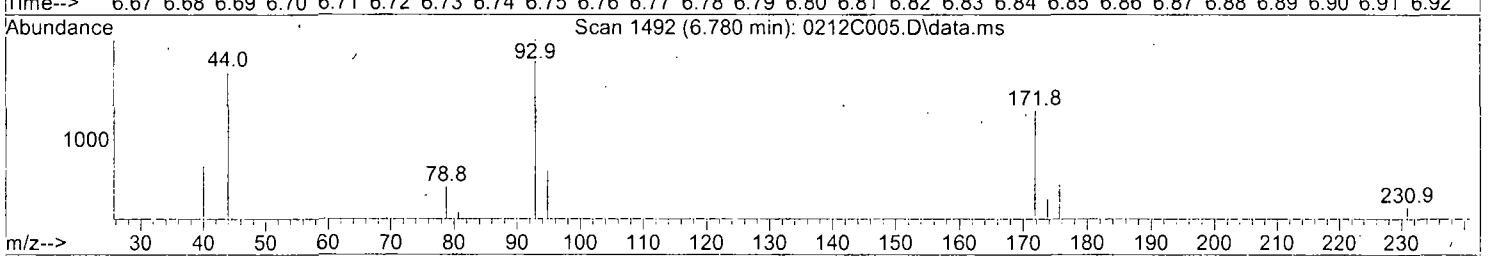
Freedom_0005792_0581

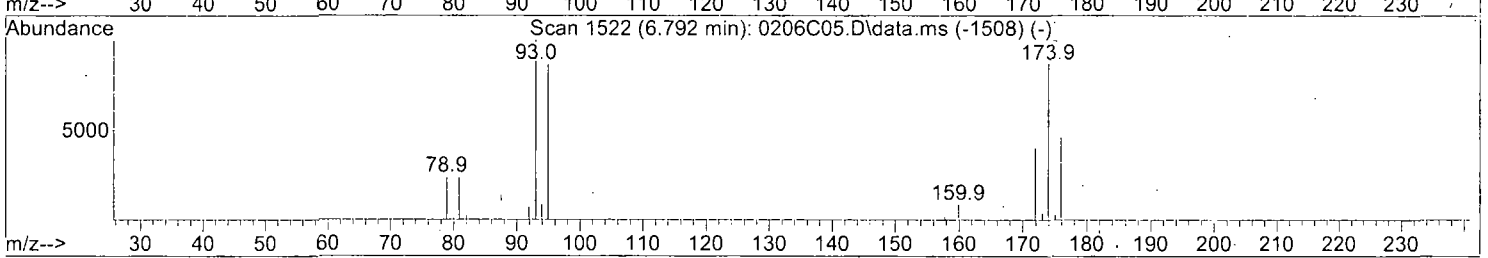
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration







TIC: 0212C005.D\data.ms

(30) DIBROMOMETHANE (TMCP)

6.780min (-0.004) 0.26 ug/L

response 1810

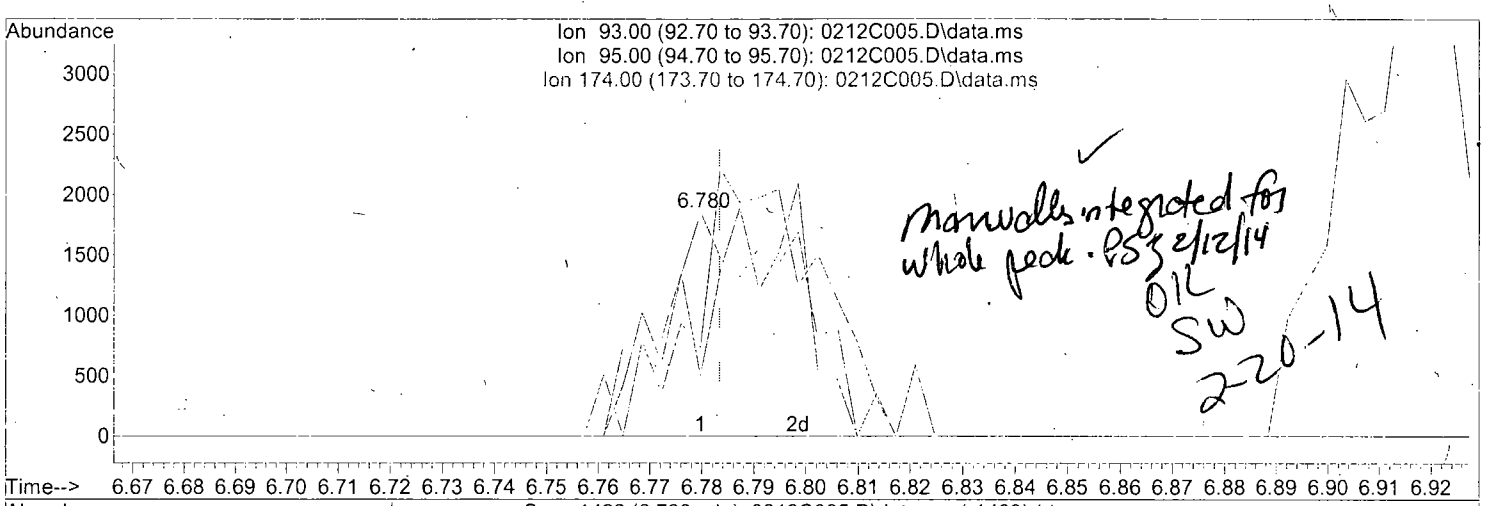
Ion	Exp%	Act%
93.00	100	100
95.00	80.20	204.97#
174.00	126.80	0.00#
0.00	0.00	0.00

Freedom_0005792_0582

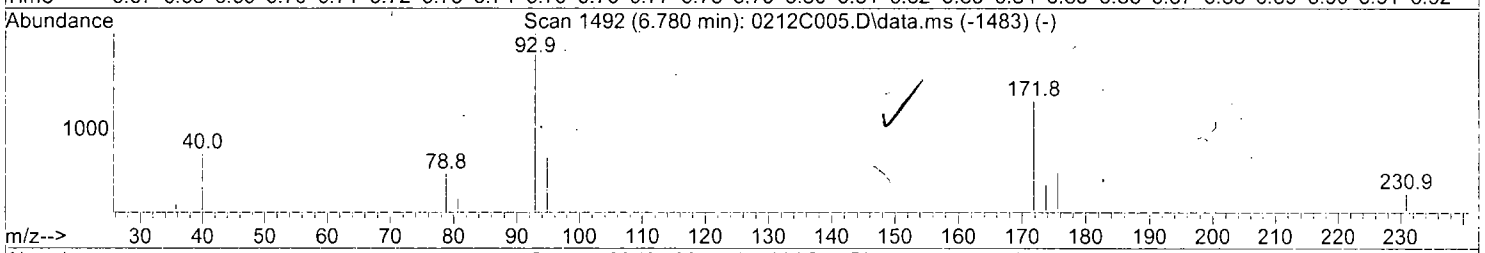
Quantitation Report (Qedit)

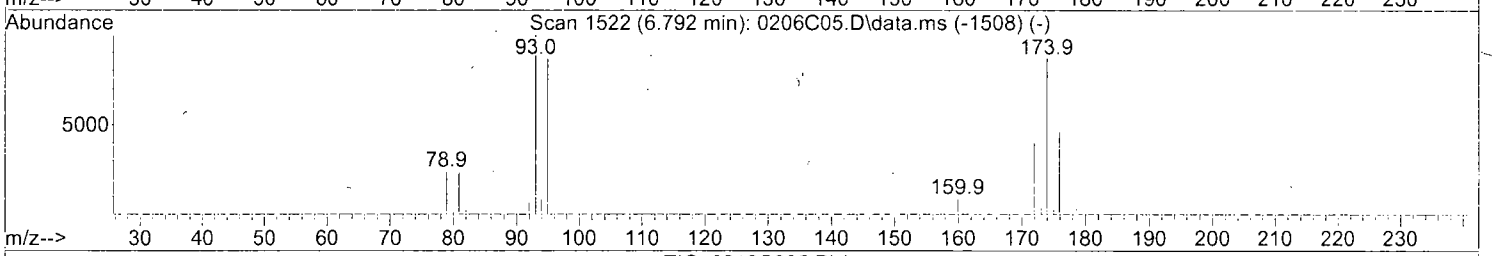
Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration



manually integrated for whole peak. PSJ 2/12/14
OK
SW
2-20-14





TIC: 0212C005.D\data.ms

(30) DIBROMOMETHANE (TMCP)

6.780min (-0.004) 0.49 ug/L m

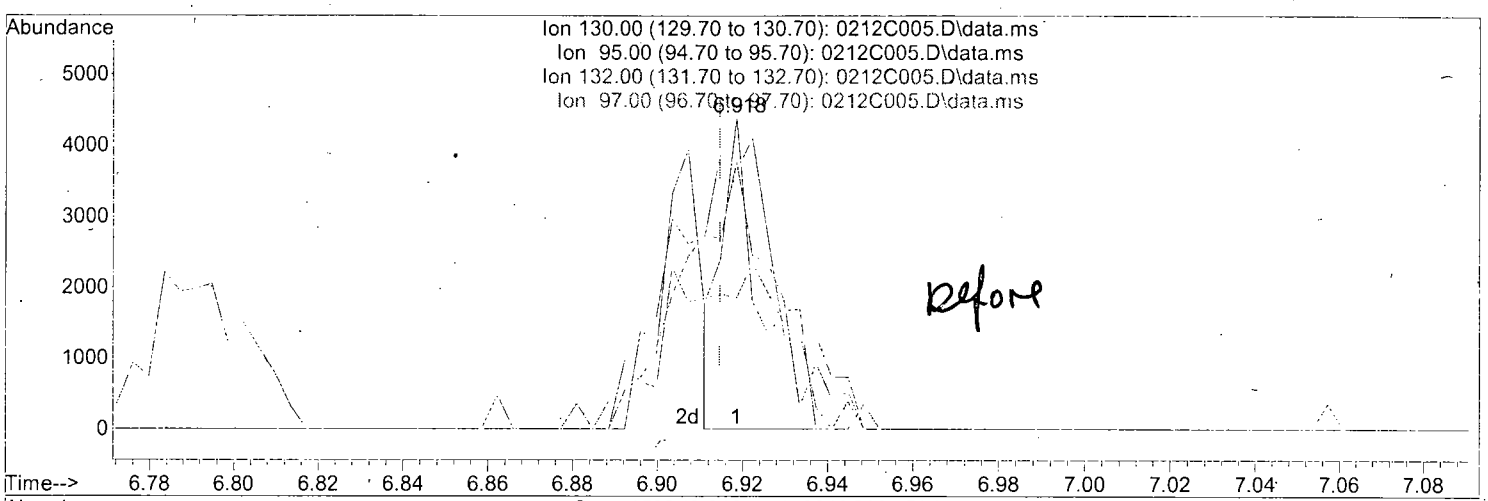
response 3467

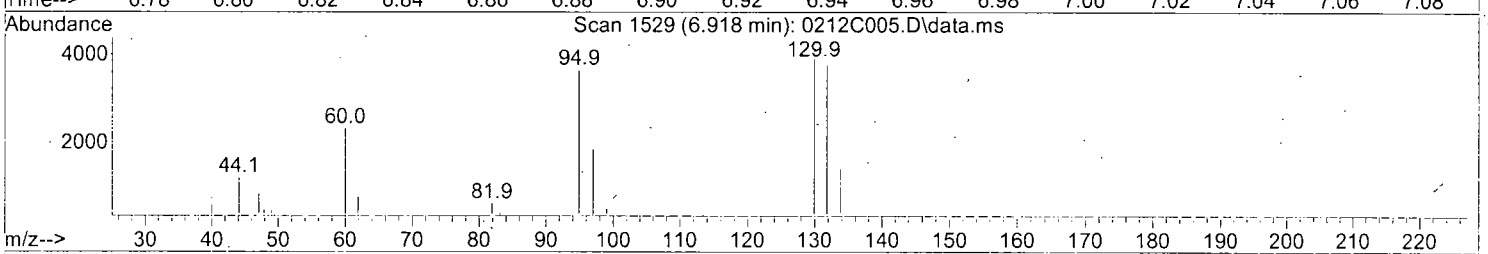
Ion	Exp%	Act%
93.00	100	100
95.00	80.20	107.01#
174.00	126.80	0.00#
0.00	0.00	0.00

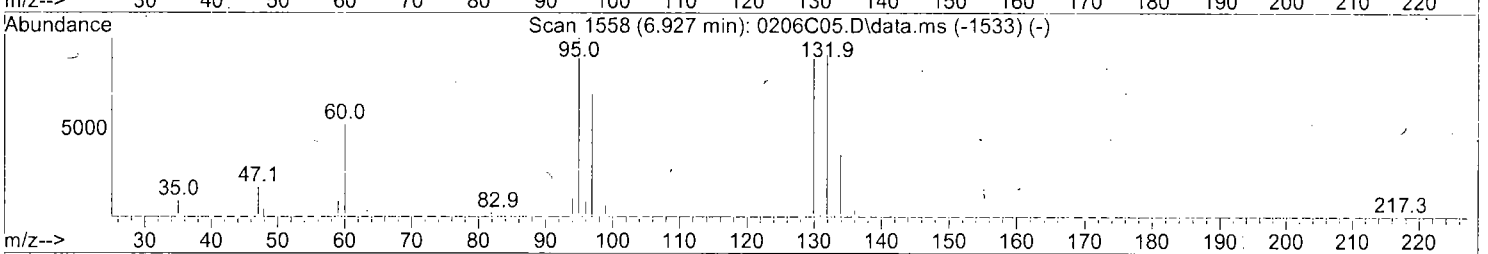
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration







TIC: 0212C005.D\data.ms

(32) TRICHLOROETHENE (TMCP)

6.918min (+0.004) 0.25 ug/L

response 2990

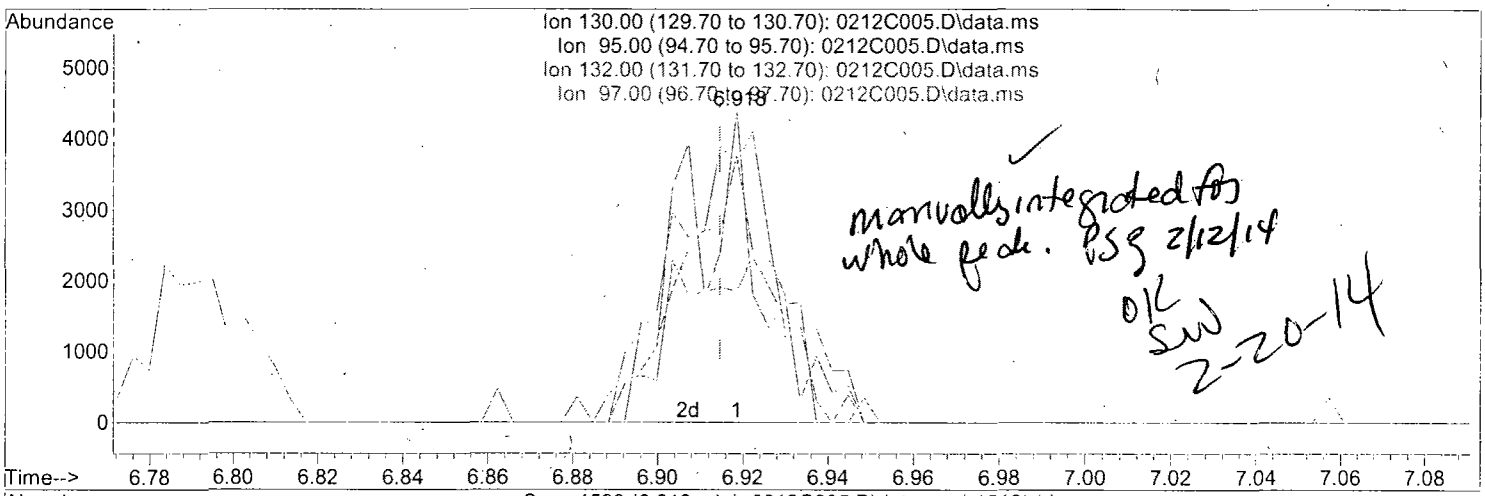
Ion	Exp%	Act%
130.00	100	100
95.00	93.20	221.47#
132.00	97.00	186.96#
97.00	60.00	165.45#

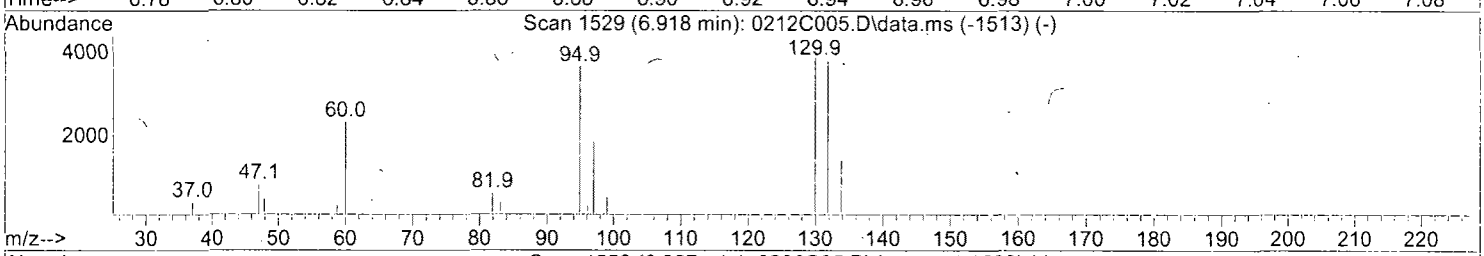
Freedom_0005792_0584

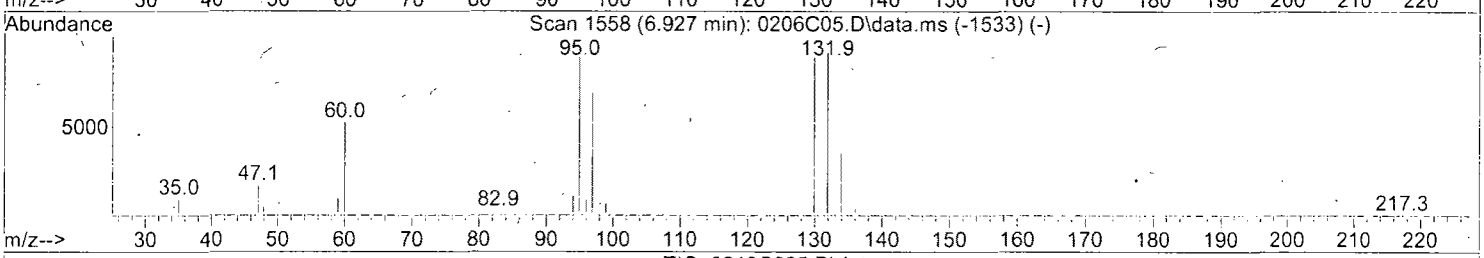
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration







TIC: 0212C005.D\data.ms

(32) TRICHLOROETHENE (TMCP)

6.918min (+0.004) 0.46 ug/L m

response 5627

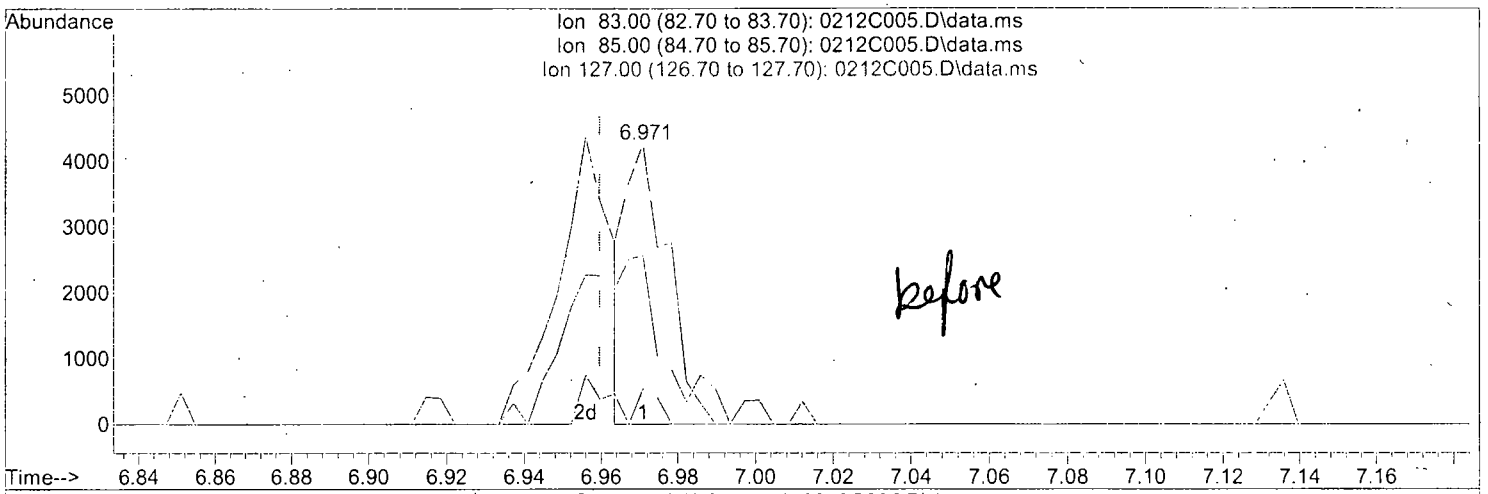
Ion	Exp%	Act%
130.00	100	100
95.00	93.20	117.68#
132.00	97.00	99.34
97.00	60.00	87.92#

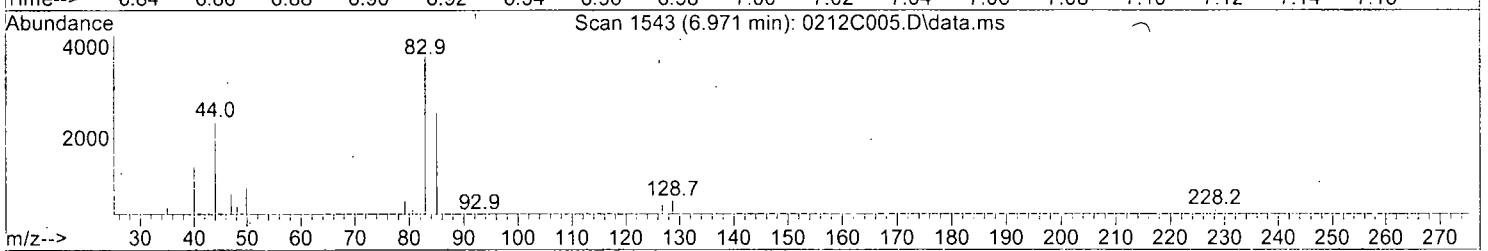
Freedom_0005792_0585

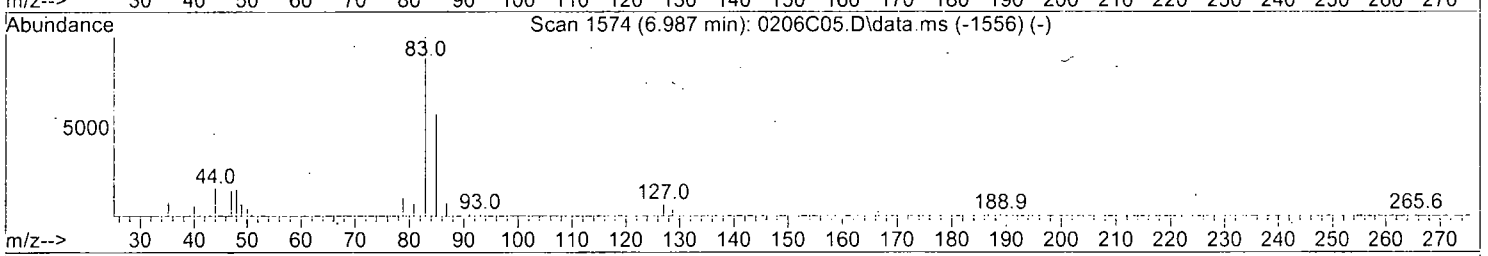
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration







TIC: 0212C005.D\data.ms

(33) BROMODICHLOROMETHANE (TMCP)

6.971min (+0.011) 0.21 ug/L

response 3227

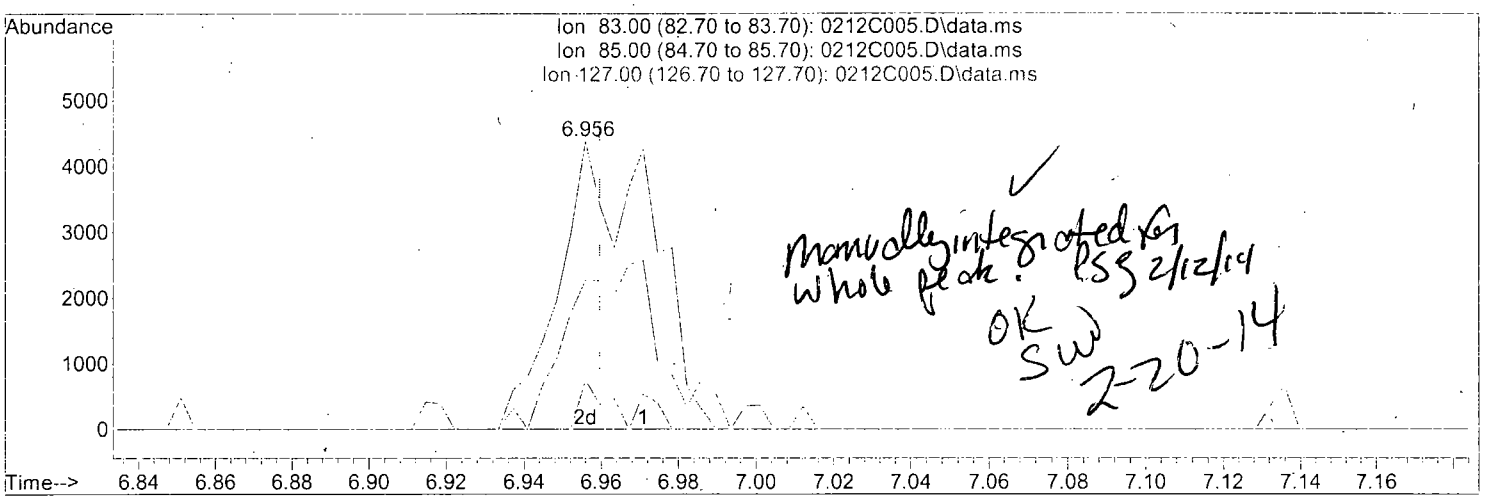
Ion	Exp%	Act%
83.00	100	100
85.00	62.60	132.14#
127.00	8.80	0.00#
0.00	0.00	0.00

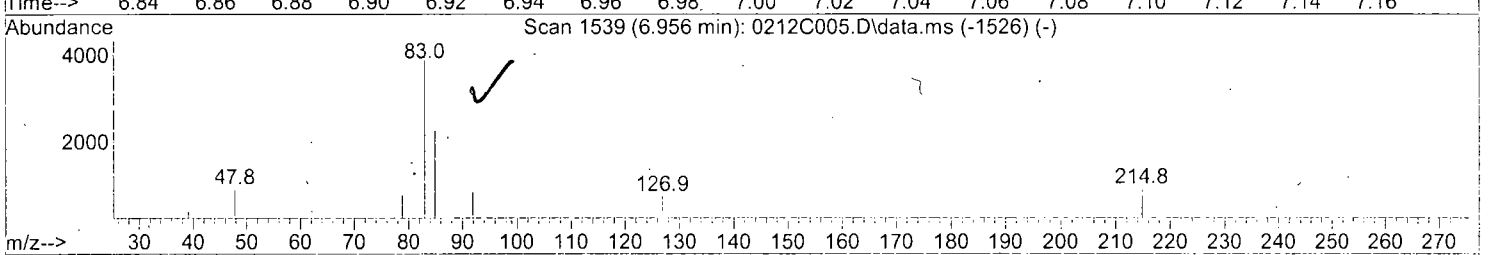
Freedom_0005792_0586

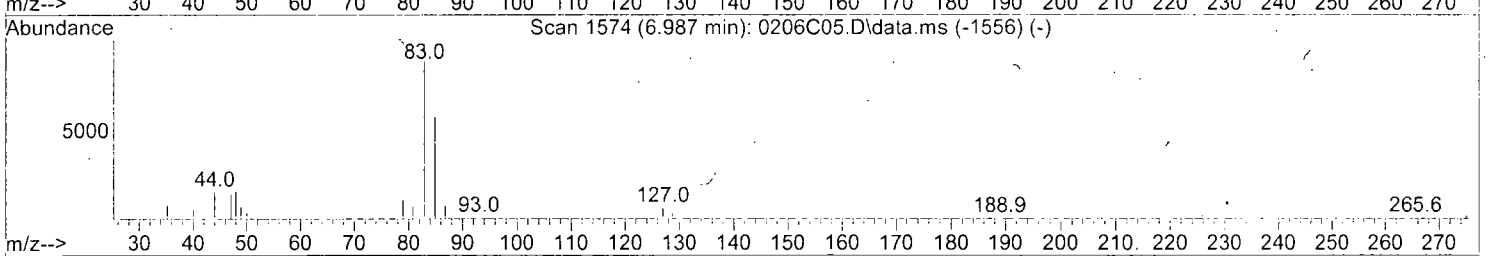
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration







TIC: 0212C005.D\data.ms

(33) BROMODICHLOROMETHANE (TMCP)

6.956min (-0.004) 0.50 ug/L m

response 7482

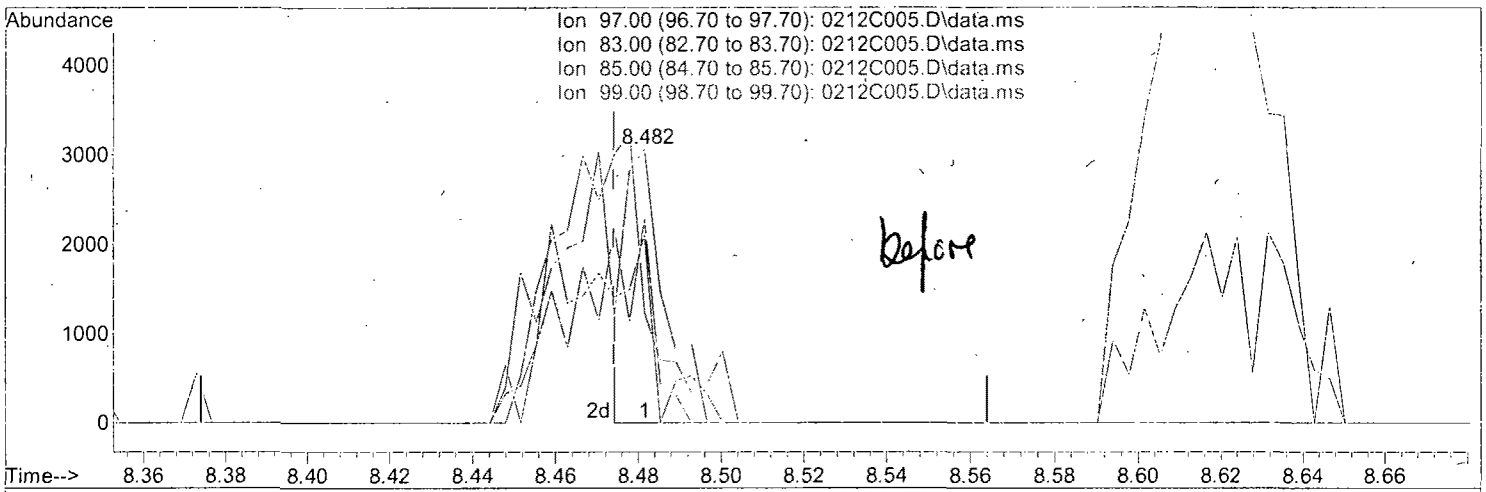
Ion	Exp%	Act%
83.00	100	100
85.00	62.60	56.99
127.00	8.80	0.00#
0.00	0.00	0.00

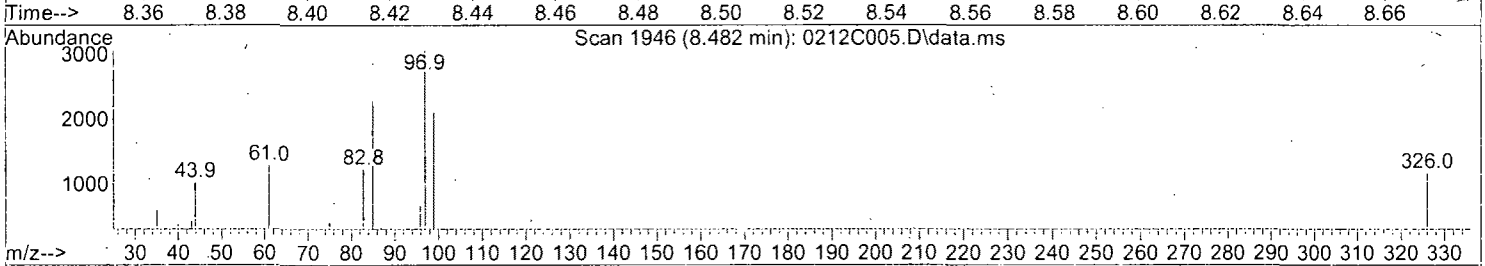
Freedom_0005792_0587

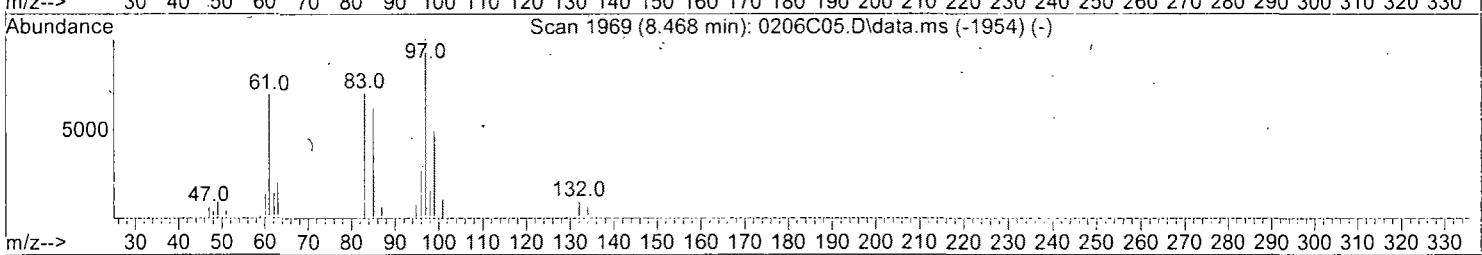
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration







TIC: 0212C005.D\data.ms

(40) 1,1,2-TRICHLOROETHANE (TMCP)

8.482min (+0.008) 0.21 ug/L

response 2044

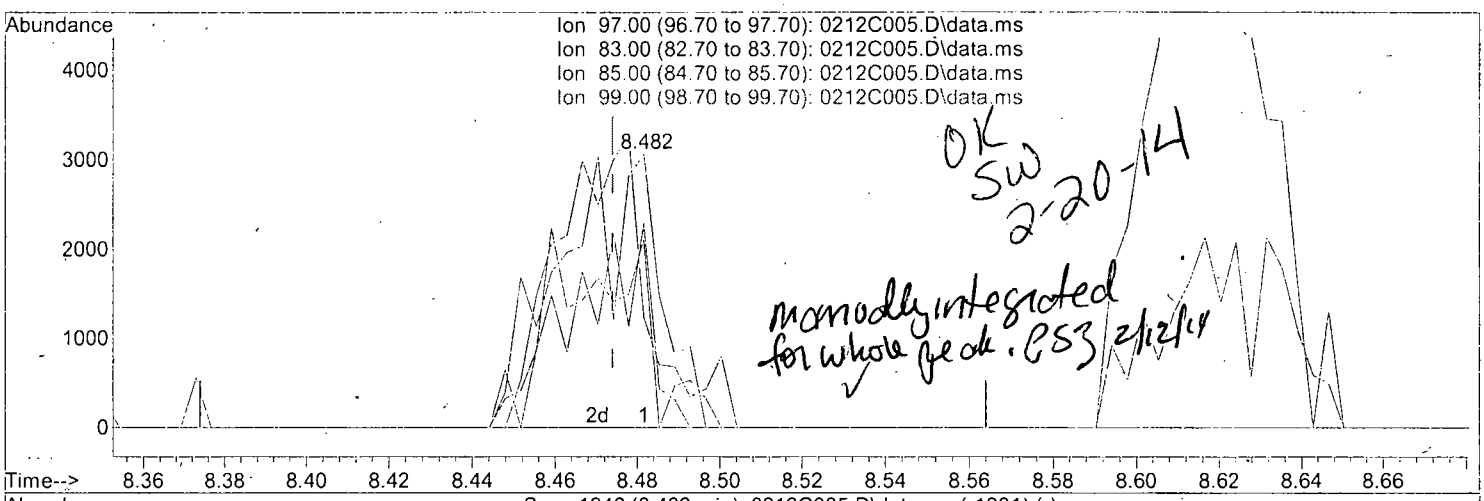
Ion	Exp%	Act%
97.00	100	100
83.00	82.80	244.03#
85.00	53.80	144.03#
99.00	61.50	0.00#

Freedom_0005792_0588

Quantitation Report (Qedit)

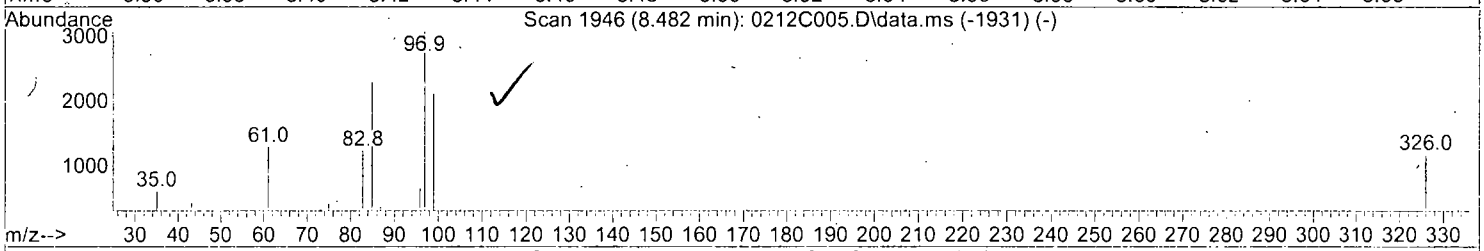
Data Path : D:\DATA\L02122014\
Data File : 0212C005.D
Acq On : 12 Feb 2014 10:25
Operator : PZ PZ1-AG5975
Sample : 0.5 ppb; 0.25uL - 100mL
Misc :
ALS Vial : 4 Sample Multiplier: 1

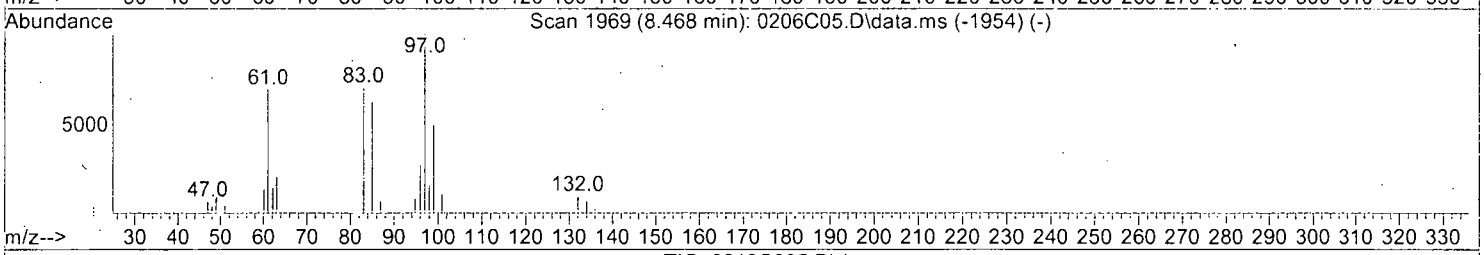
Quant Time: Feb 12 11:07:09 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Thu Feb 06 11:16:40 2014
Response via : Initial Calibration



OK SW 2-20-14

manually integrated for whole peak. CSJ 2/12/14





TIC: 0212C005.D\data.ms

(40) 1,1,2-TRICHLOROETHANE (TMCP)

8.482min (+0.008) 0.52 ug/L m

response 5017

Ion	Exp%	Act%
97.00	100	100
83.00	82.80	99.42#
85.00	53.80	58.68
99.00	61.50	0.00#

Freedom_0005792_0589

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:20:26 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-DIFLUOROBENZENE	6.525	114	129383	5.00 ug/L	0.00
37) CHLOROBENZENE-d5	10.341	117	115069	5.00 ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	69237	5.00 ug/L	0.00
System Monitoring Compounds					
23) 1,2-DICHLOROETHANE-d4	5.502	65	84385	6.23 ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 124.60%#	
41) TOLUENE-d8	8.617	98	159269	5.15 ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 103.00%	
59) 4-BROMOFLUOROBENZENE	11.649	95	68400	4.87 ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 97.40%	
Target Compounds					Qvalue
2) DICHLORODIFLUOROMETHANE	1.307	85	14134m	1.06 ug/L	
3) CHLOROMETHANE	1.419	50	24856	2.67 ug/L	99
4) VINYL CHLORIDE	1.528	62	13825	1.52 ug/L	92
5) BROMOMETHANE	1.787	94	6771	1.23 ug/L	95
6) CHLOROETHANE	1.888	64	8097	1.44 ug/L #	68
7) TRICHLOROFLUOROMETHANE	2.323	101	23131	1.10 ug/L	98
8) ACETONE	2.473	43	6232	1.93 ug/L #	65
9) 1,1-DICHLOROETHENE	2.795	96	6766m	0.99 ug/L	
10) METHYLENE CHLORIDE	2.975	84	12564	1.26 ug/L #	52
11) Freon 113	3.061	101	10770	1.00 ug/L #	81
12) CARBON DISULFIDE	3.084	76	33026	1.16 ug/L #	88
13) METHYL ACETATE	3.099	43	10966m	1.64 ug/L	
14) TRANS-1,2-DICHLOROETHENE	3.702	96	9363m	1.00 ug/L	
15) METHYL-TERT-BUTYL ETHER	3.875	73	21851	0.92 ug/L #	73
16) 1,1-DICHLOROETHANE	3.961	63	27806	1.44 ug/L #	91
17) VINYL ACETATE	4.250	43	20327m	1.41 ug/L	
18) 2-BUTANONE	4.561	43	2342	0.60 ug/L #	64
19) CIS-1,2-DICHLOROETHENE	4.621	96	10215	1.02 ug/L #	68
20) BROMOCHLOROMETHANE	4.771	128	5216m	1.05 ug/L	
21) CHLOROFORM	4.864	83	22475	1.09 ug/L	97
22) 2,2-DICHLOROPROPANE	4.928	77	13861	1.03 ug/L #	91
24) 1,2-DICHLOROETHANE	5.591	62	24352	1.38 ug/L #	95
25) 1,1,1-TRICHLOROETHANE	5.678	97	18531	1.12 ug/L #	85
26) 1,1-DICHLOROPROPENE	5.918	75	13158	0.98 ug/L	94
27) CYCLOHEXANE	5.970	56	20663	1.25 ug/L #	76
28) CARBON TETRACHLORIDE	6.075	117	15748	1.04 ug/L	96
29) BENZENE	6.150	78	42173	1.03 ug/L	99
30) DIBROMOMETHANE	6.791	93	6879	1.00 ug/L #	79
31) 1,2-DICHLOROPROPANE	6.859	63	12904m	1.23 ug/L	
32) TRICHLOROETHENE	6.911	130	12040	1.00 ug/L #	89
33) BROMODICHLOROMETHANE	6.964	83	16139m	1.08 ug/L	
34) METHYLCYCLOHEXANE	7.488	83	14841	0.87 ug/L #	66
35) 2-CHLOROETHYLVINYL ETHER	7.616	63	5754m	1.11 ug/L	
36) CIS-1,3-DICHLOROPROPENE	7.777	75	12940	0.90 ug/L	93
38) 4-METHYL-2-PENTANONE	8.006	43	10184	1.47 ug/L #	90
39) TRANS-1,3-DICHLOROPROPENE	8.328	75	11811	0.95 ug/L	90
40) 1,1,2-TRICHLOROETHANE	8.467	97	8621	0.96 ug/L #	84
42) TOLUENE	8.699	92	24160	1.01 ug/L	98

Freedom_0005792_0590

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:20:26 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 1,3-DICHLOROPROPANE	8.770	76	18082	1.06 ug/L	95
44) CHLORODIBROMOMETHANE	9.014	129	9705	1.05 ug/L #	98
45) 2-HEXANONE	9.085	43	2159	0.44 ug/L #	71
46) 1,2-DIBROMOETHANE (EDB)	9.299	107	9077	1.04 ug/L #	91
47) TETRACHLOROETHENE	9.550	164	7848	1.00 ug/L #	84
48) 1,1,1,2-TETRACHLOROETHANE	10.296	131	9505	1.13 ug/L	92
49) CHLOROBENZENE	10.375	112	26108	1.01 ug/L #	77
50) ETHYLBENZENE	10.656	91	40240	0.89 ug/L	99
51) BROMOFORM	10.866	173	5014	0.86 ug/L #	76
52) M-XYLENE/P-XYLENE	10.888	106	29138	1.73 ug/L	93
53) STYRENE	11.207	104	42434	1.55 ug/L #	92
54) O-XYLENE	11.278	106	34139	1.86 ug/L	84
55) ISOPROPYLBENZENE	11.649	105	43298	0.90 ug/L	98
57) 1,1,2,2-TETRACHLOROETHANE	11.259	83	6992	0.96 ug/L #	77
58) 1,2,3-TRICHLOROPROPANE	11.398	75	11336	1.12 ug/L #	88
60) BROMOBENZENE	11.799	156	11708	1.07 ug/L #	66
61) N-PROPYLBENZENE	12.062	91	50260	0.85 ug/L	91
62) 2-CHLOROTOLUENE	12.107	91	35472	0.98 ug/L #	84
63) 4-CHLOROTOLUENE	12.185	91	37063	0.97 ug/L	92
64) 1,3,5-TRIMETHYLBENZENE	12.358	105	30980	0.81 ug/L	96
65) TERT-BUTYLBENZENE	12.564	119	26694	0.84 ug/L	85
66) 1,2,4-TRIMETHYLBENZENE	12.684	105	31948	0.81 ug/L #	85
67) SEC-BUTYLBENZENE	12.759	105	47375	0.87 ug/L	95
68) 1,3-DICHLOROBENZENE	12.766	146	25949	1.06 ug/L	95
69) 1,4-DICHLOROBENZENE	12.826	146	26395	1.06 ug/L #	95
70) P-ISOPROPYLTOLUENE	12.935	119	34849	0.83 ug/L #	91
71) 1,2-DICHLOROBENZENE	13.111	146	22615m	1.00 ug/L	
72) N-BUTYLBENZENE	13.265	91	36041	0.80 ug/L	96
73) 1,2-DIBROMO-3-CHLOROPR...	13.494	75	1518	0.86 ug/L #	62
74) 1,2,4-TRICHLOROBENZENE	14.555	180	15105	0.92 ug/L #	90
75) NAPHTHALENE	14.727	128	20465	0.62 ug/L	95
76) HEXACHLOROBUTADIENE	14.806	225	8943	0.91 ug/L #	80
77) 1,2,3-TRICHLOROBENZENE	14.877	180	12750	0.78 ug/L #	92

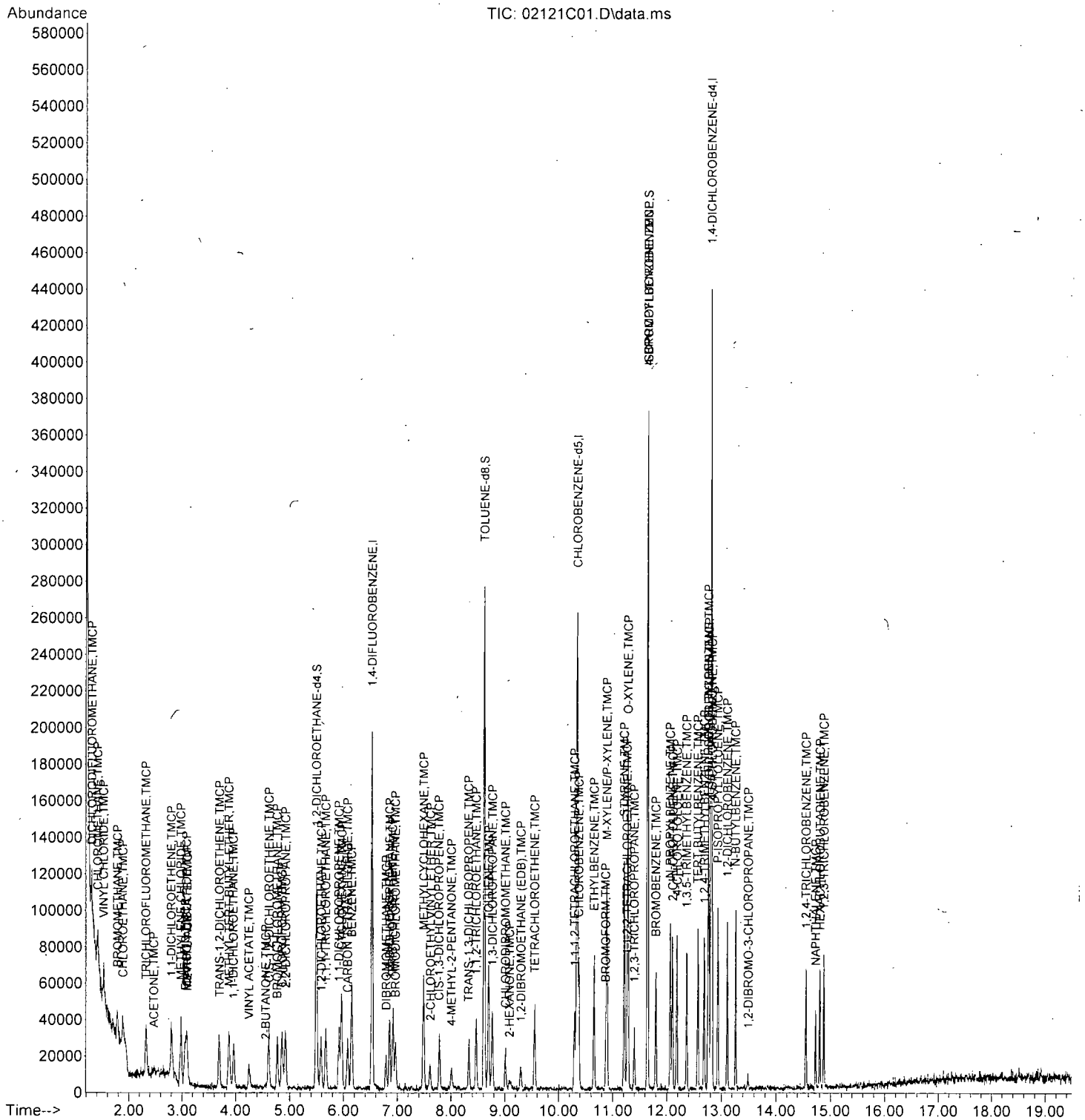
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0591

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:20:26 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration

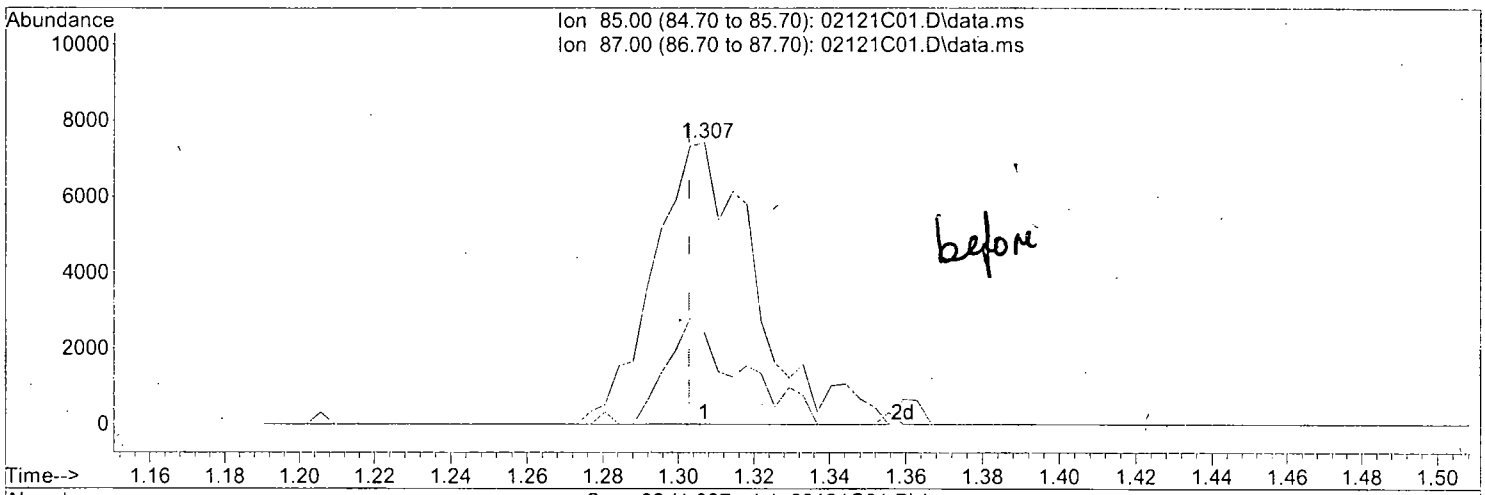


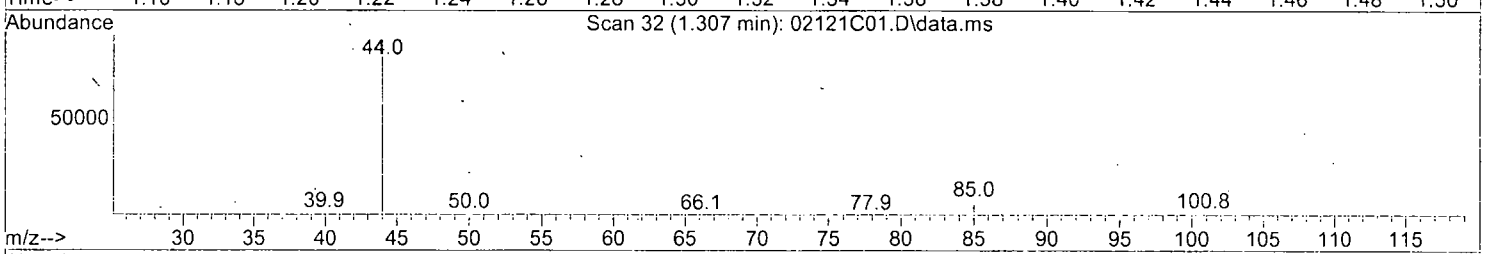
Freedom_0005792_0592

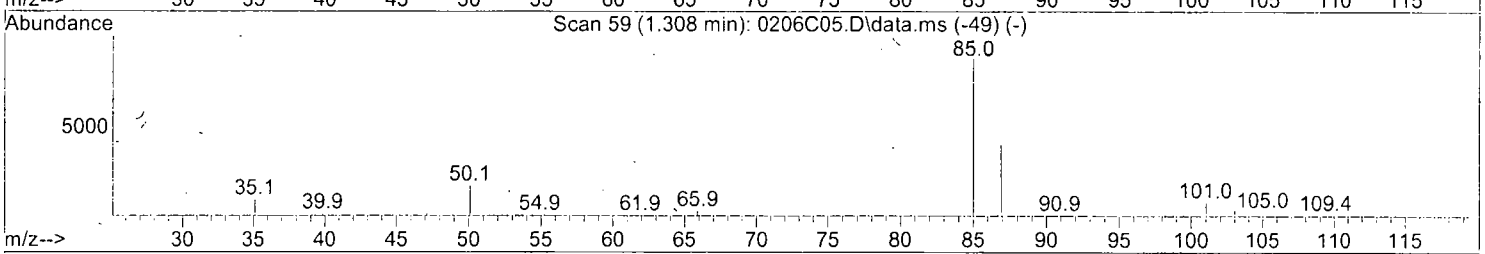
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration







TIC: 02121C01.D\data.ms

(2) DICHLORODIFLUOROMETHANE (TMCP)

1.307min (+0.004) 1.04 ug/L

response 13843

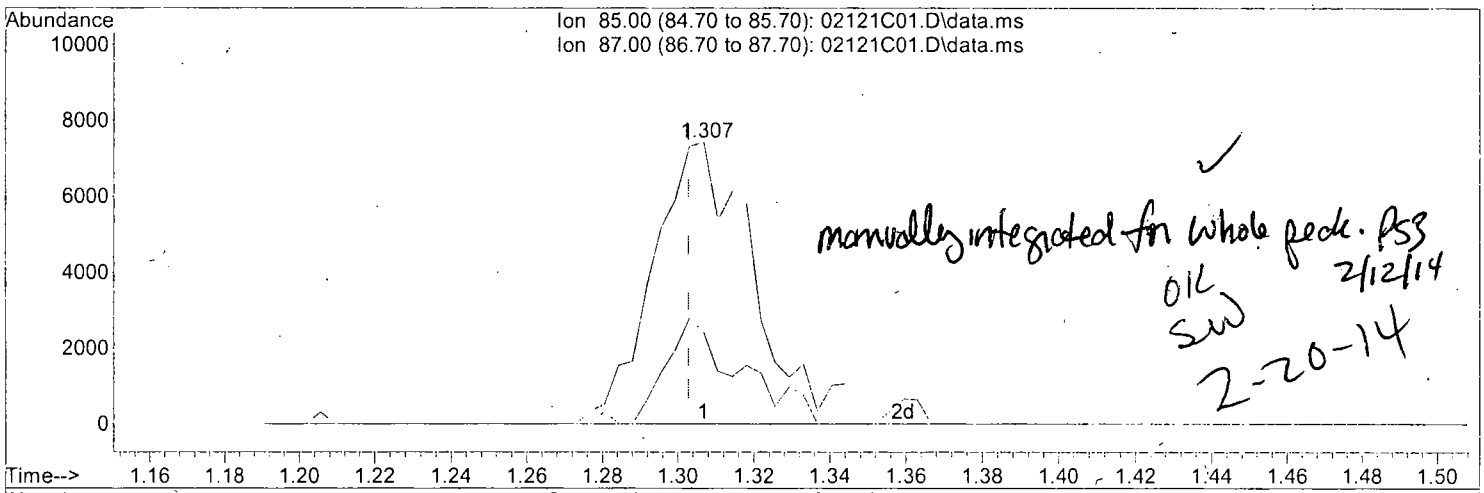
Ion	Exp%	Act%
85.00	100	100
87.00	32.50	27.39
0.00	0.00	0.00
0.00	0.00	0.00

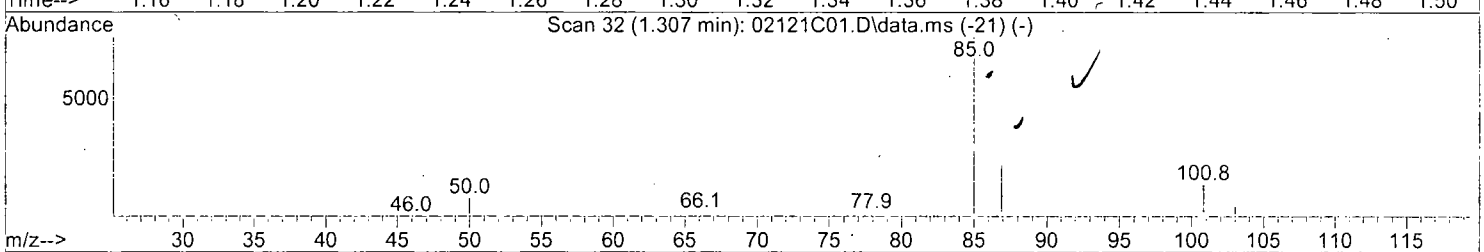
Freedom_0005792_0593

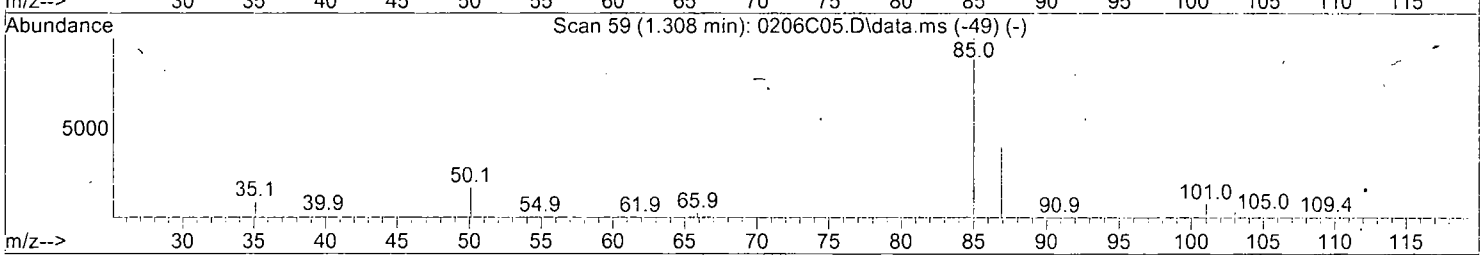
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration







TIC: 02121C01.D\data.ms

(2) DICHLORODIFLUOROMETHANE (TMCP)

1.307min (+0.004) 1.06 ug/L m

response 14134

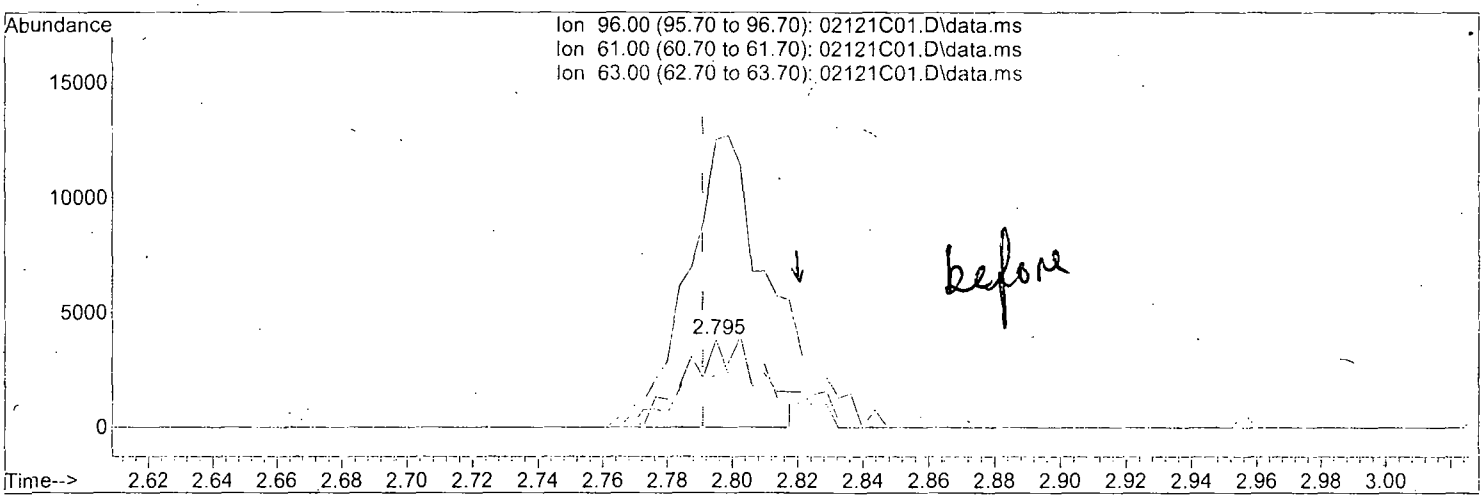
Ion	Exp%	Act%
85.00	100	100
87.00	32.50	26.82
0.00	0.00	0.00
0.00	0.00	0.00

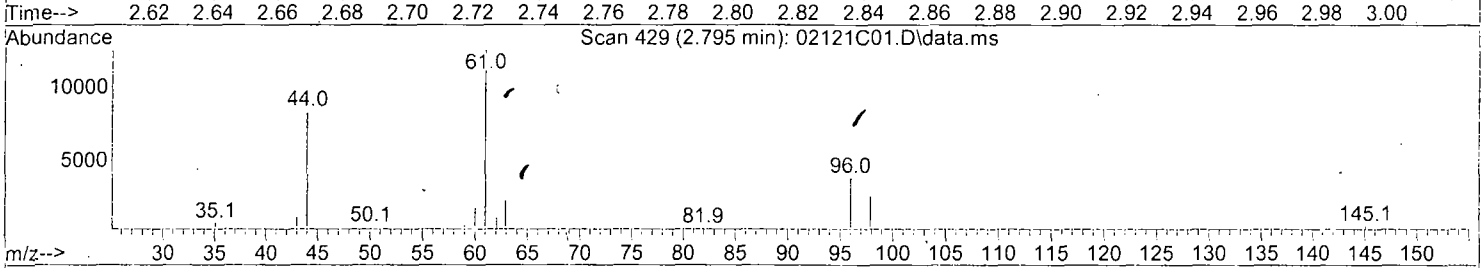
Freedom_0005792_0594

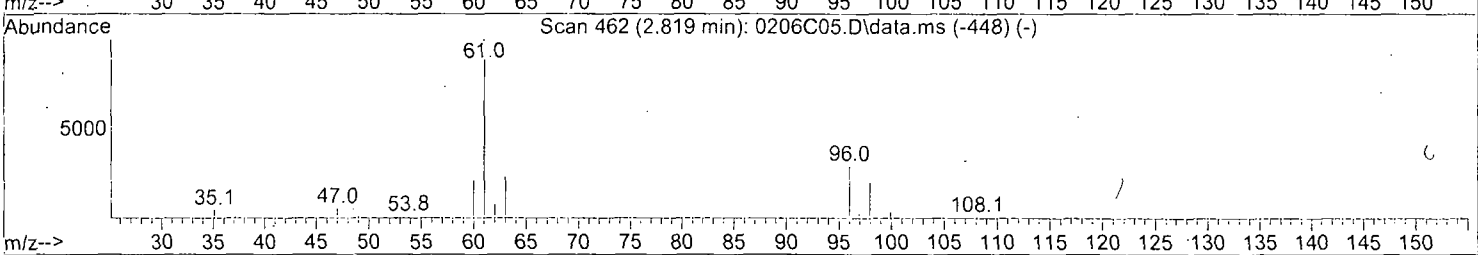
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration







TIC: 02121C01.D\data.ms

(9) 1,1-DICHLOROETHENE (TMCP)

2.795min (+0.004) 0.84 ug/L

response 5773

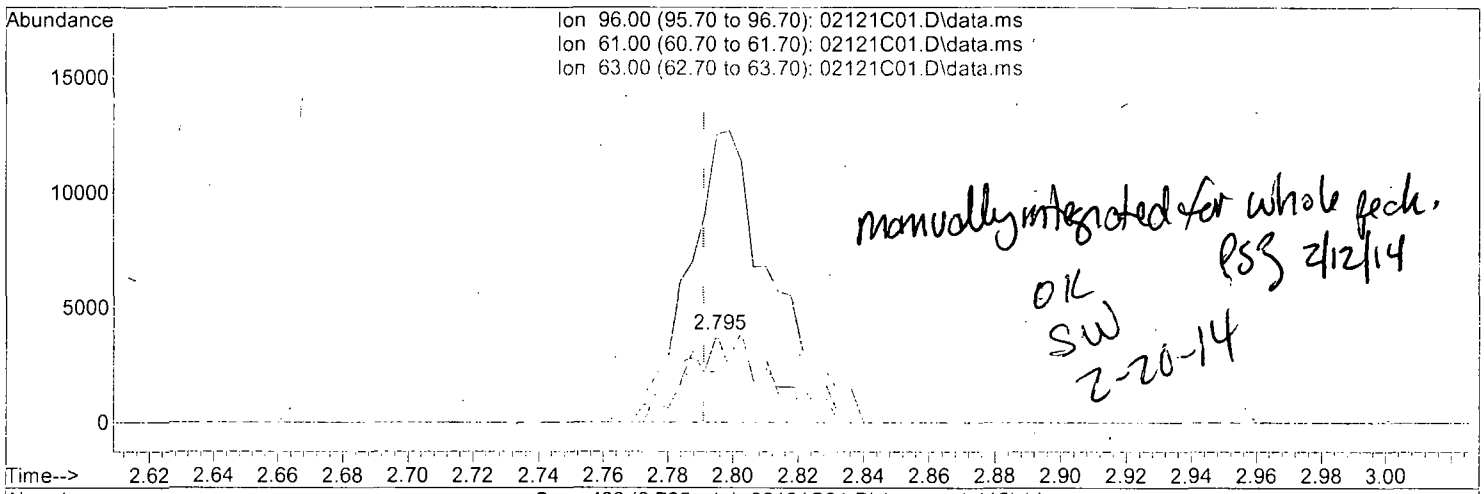
Ion	Exp%	Act%
96.00	100	100
61.00	173.00	399.81#
63.00	55.30	67.52#
0.00	0.00	0.00

Freedom_0005792_0595

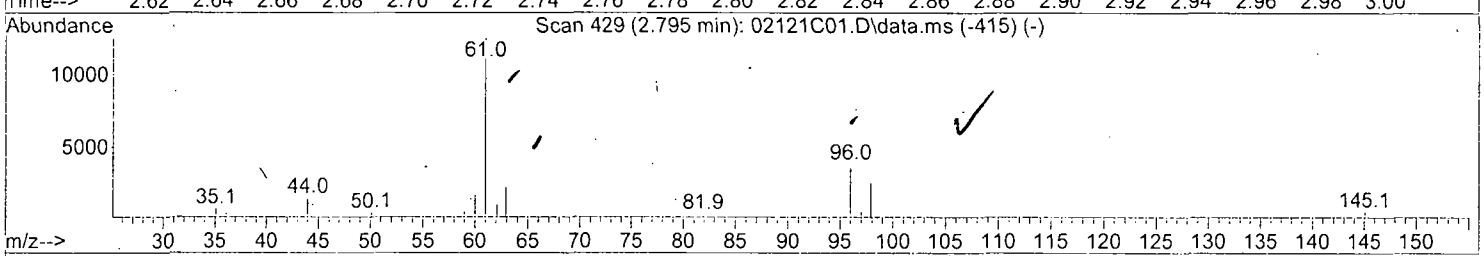
Quantitation Report (Qedit)

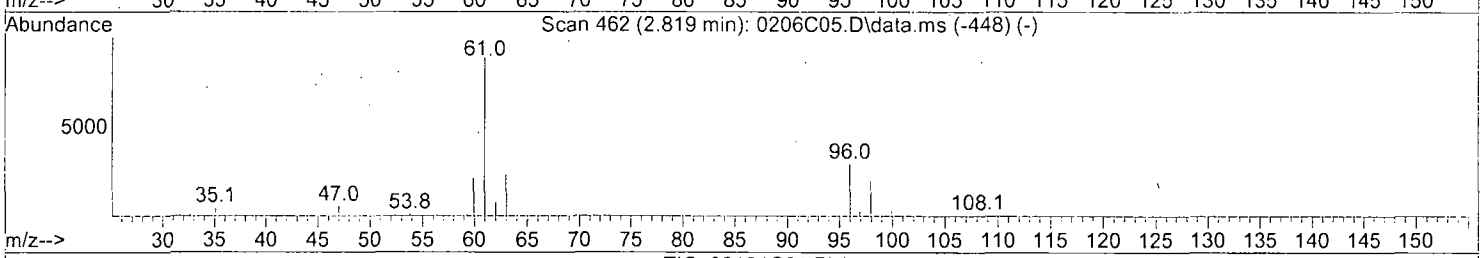
Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration



manually integrated for whole peak. PSS 2/12/14
OK SW 2-20-14





TIC: 02121C01.D\data.ms

(9) 1,1-DICHLOROETHENE (TMCP)

2.795min (+0.004) 0.99 ug/L m

response 6766

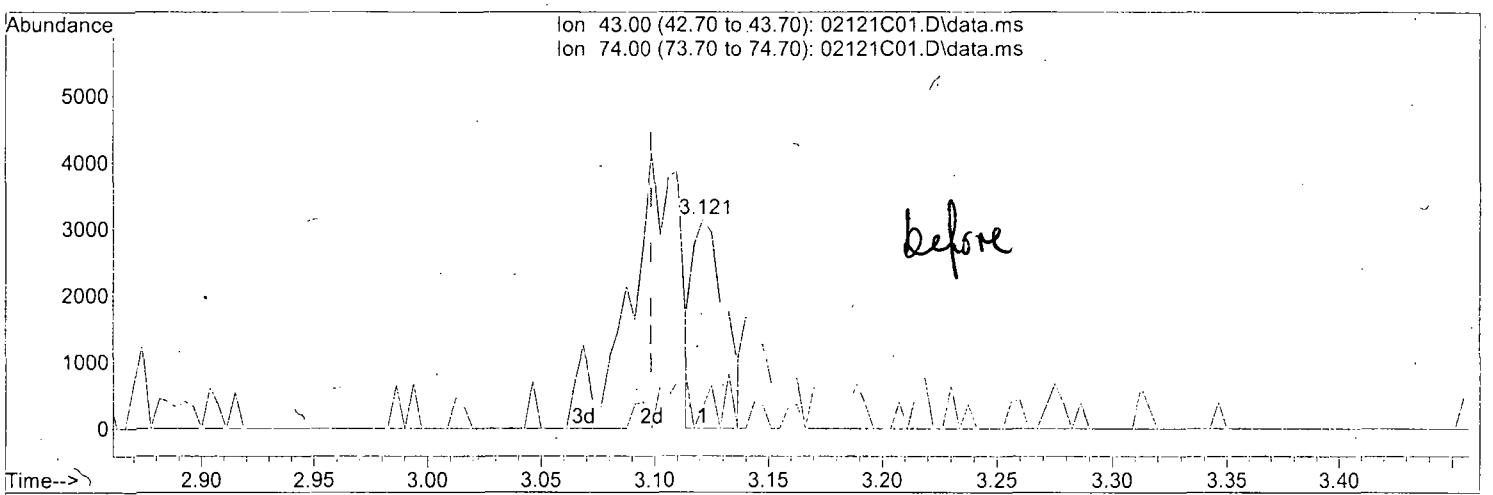
Ion	Exp%	Act%
96.00	100	100
61.00	173.00	341.13#
63.00	55.30	57.61
0.00	0.00	0.00

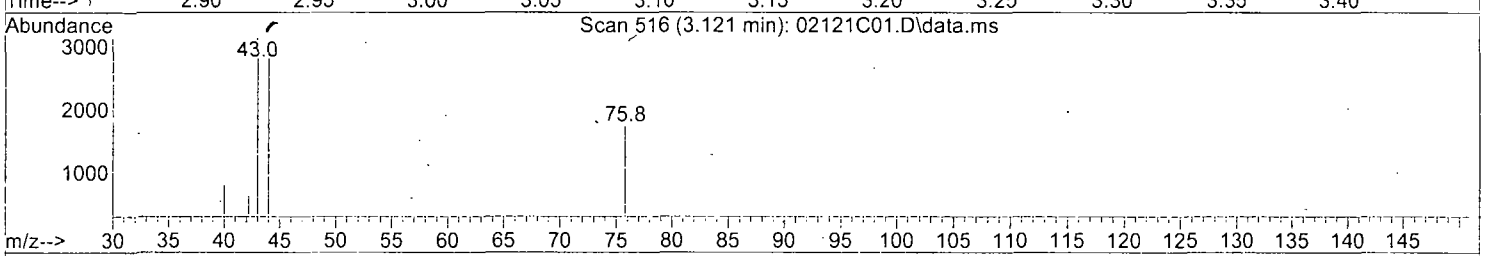
Freedom_0005792_0596

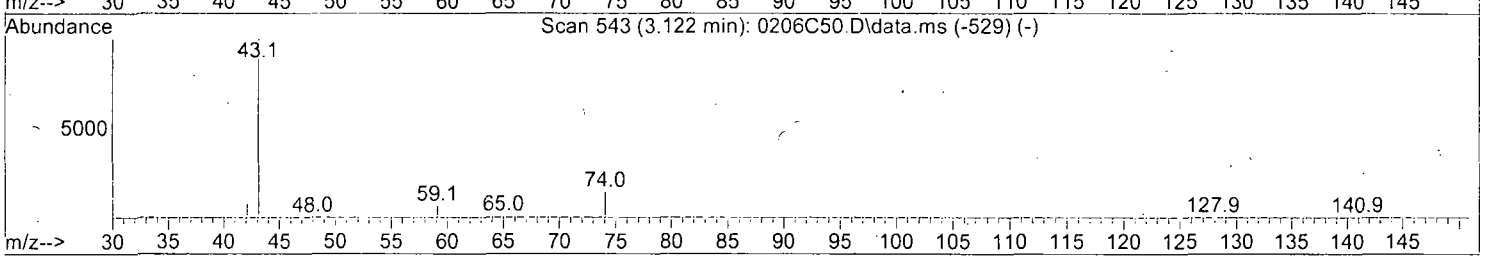
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration







TIC: 02121C01.D\data.ms

(13) METHYL ACETATE (TMCP)

3.121min (+0.023) 0.45 ug/L

response 3042

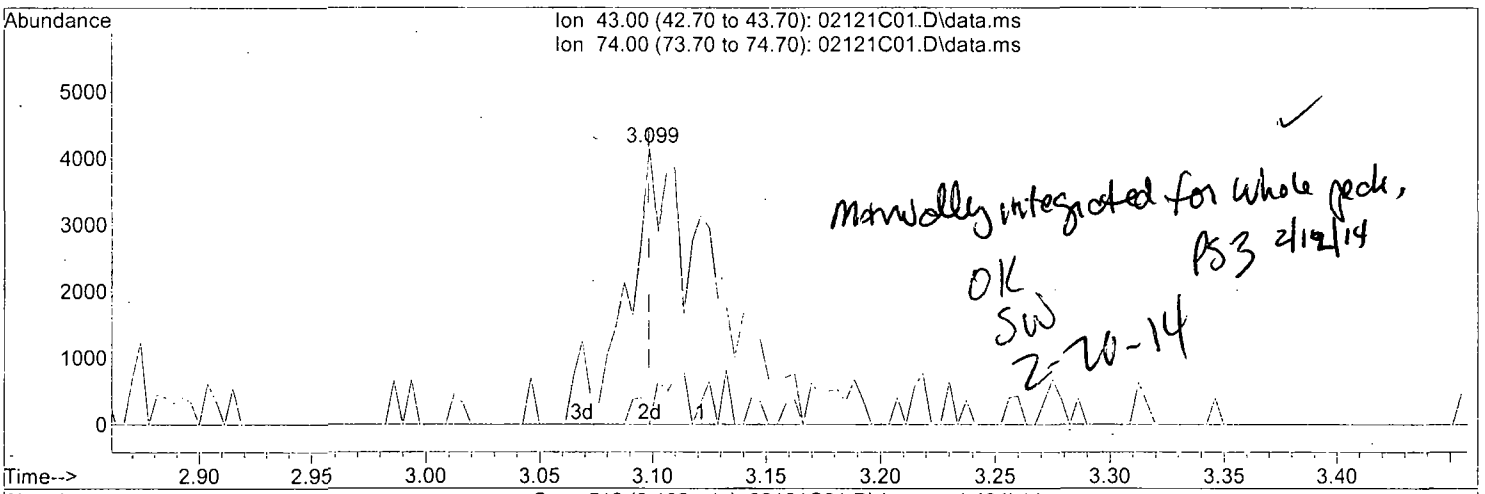
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	19.66
0.00	0.00	0.00
0.00	0.00	0.00

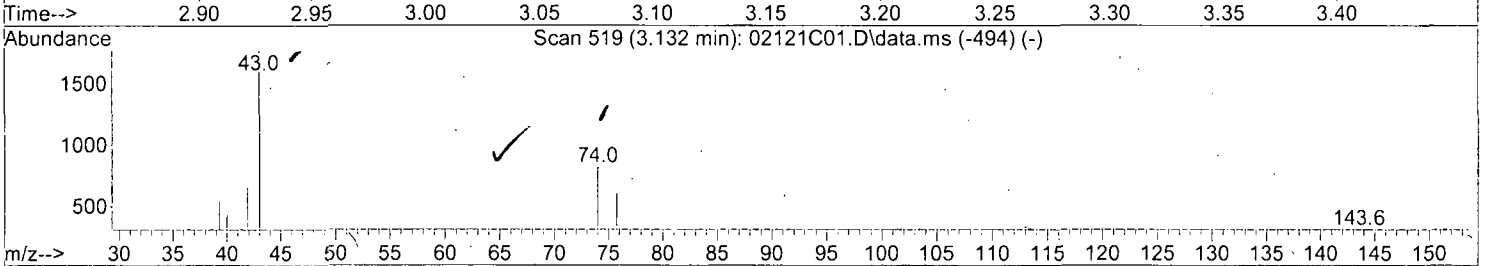
Freedom_0005792_0597

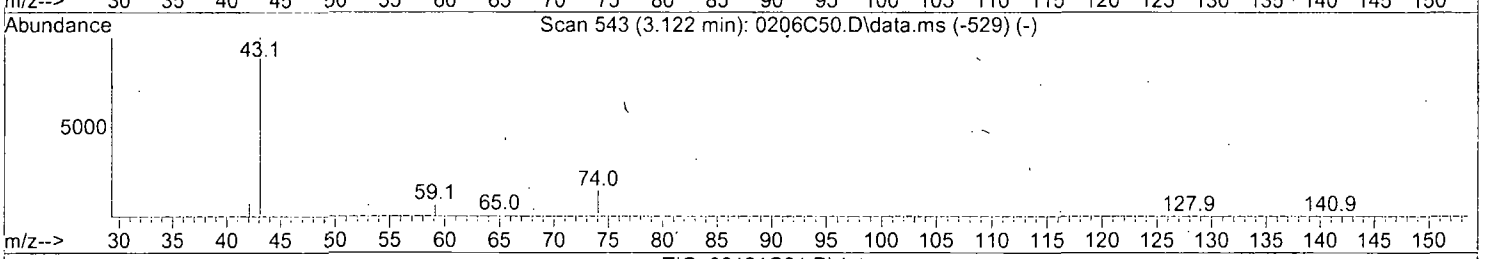
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration







TIC: 02121C01.D\data.ms

(13) METHYL ACETATE (TMCP)

3.099min (+0.000) 1.64 ug/L m

response 10966

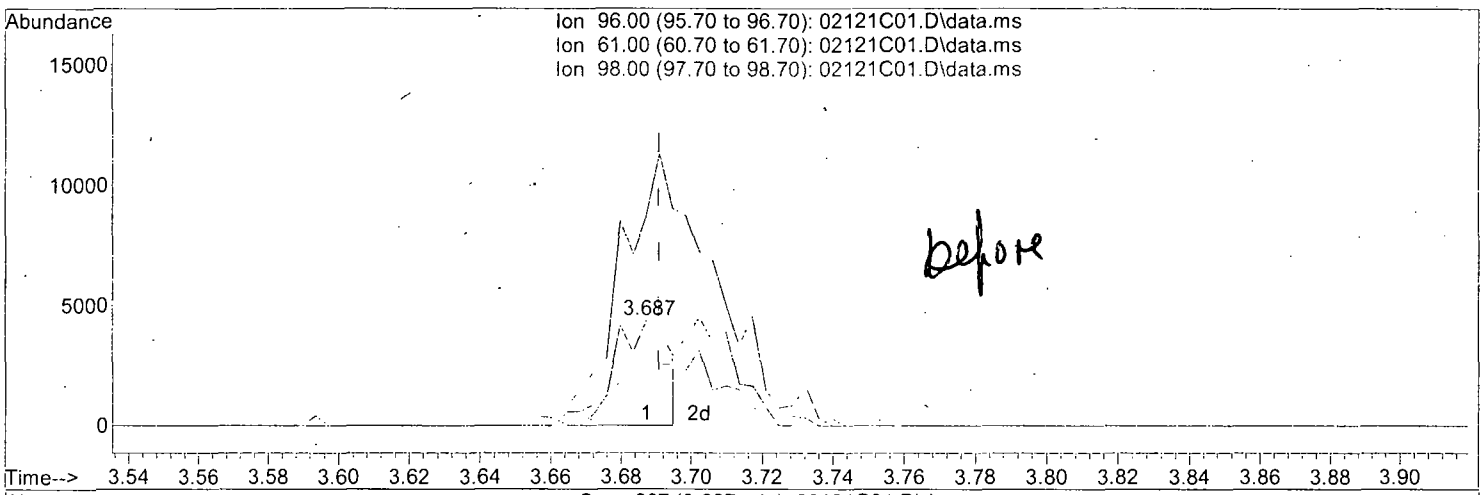
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	5.45#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0598

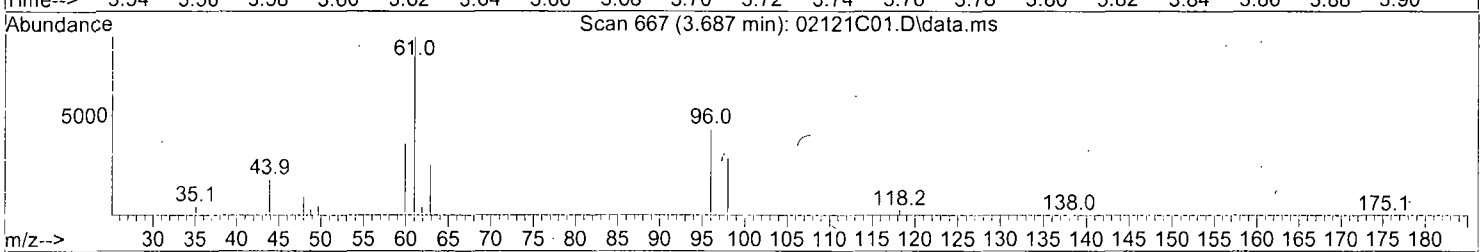
Quantitation Report (Qedit)

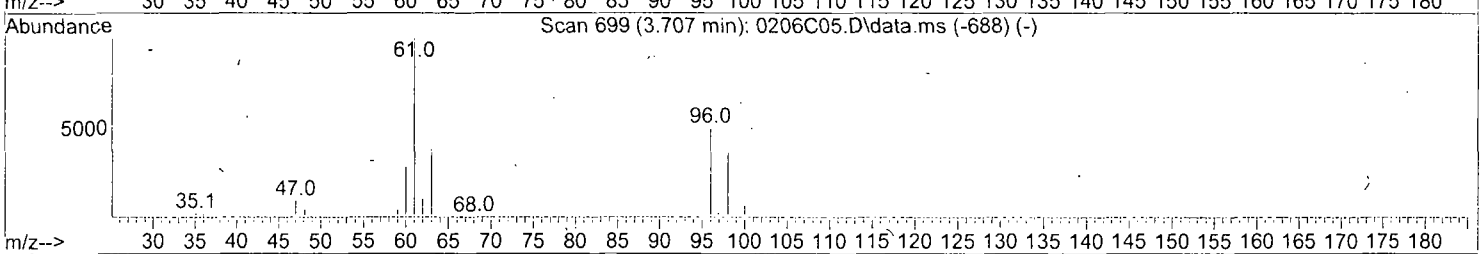
Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration



before





TIC: 02121C01.D\data.ms

(14) TRANS-1,2-DICHLOROETHENE (TMCP)

3.687min (-0.004) 0.48 ug/L

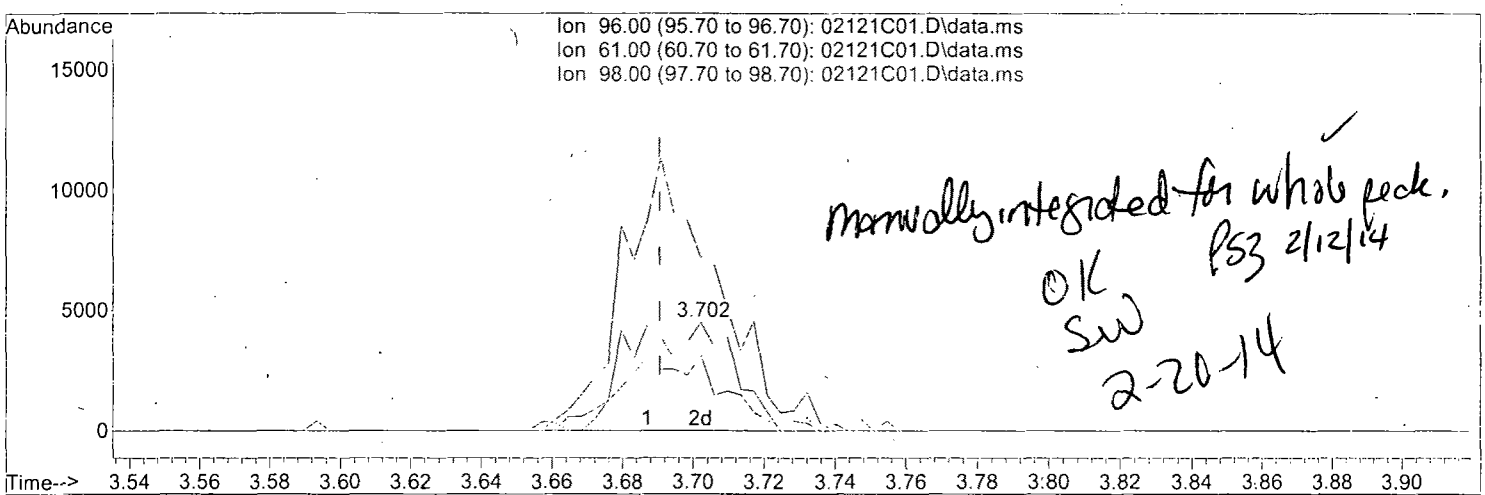
response 4548

Ion	Exp%	Act%
96.00	100	100
61.00	148.60	461.26#
98.00	63.30	0.00#
0.00	0.00	0.00

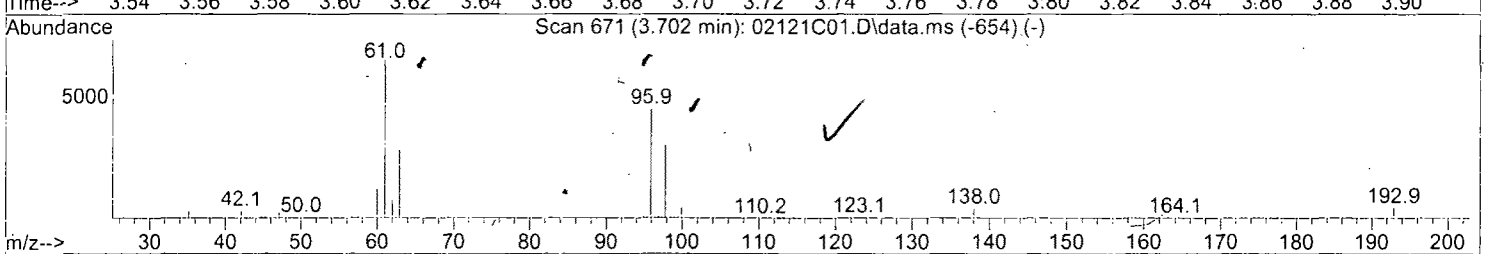
Quantitation Report (Qedit)

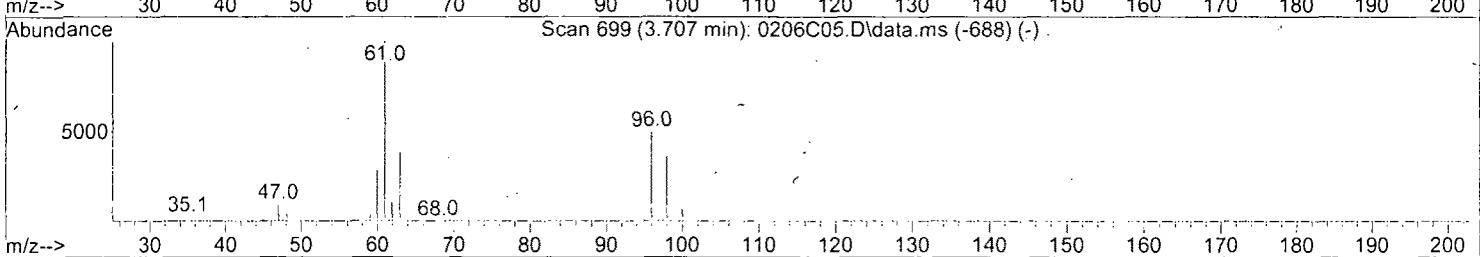
Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration



manually integrated for whole peak. PSJ 2/12/14
OK SW 2-20-14





TIC: 02121C01.D\data.ms

(14) TRANS-1,2-DICHLOROETHENE (TMCP)

3.702min (+0.011) 1.00 ug/L m

response 9363

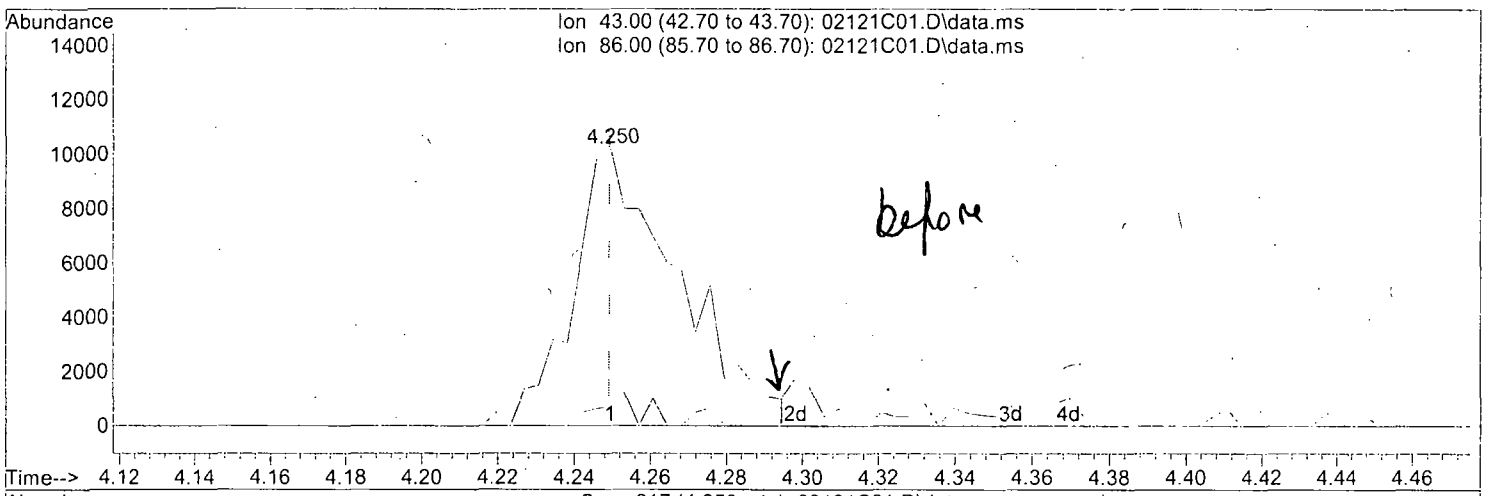
Ion	Exp%	Act%
96.00	100	100
61.00	148.60	224.05#
98.00	63.30	0.00#
0.00	0.00	0.00

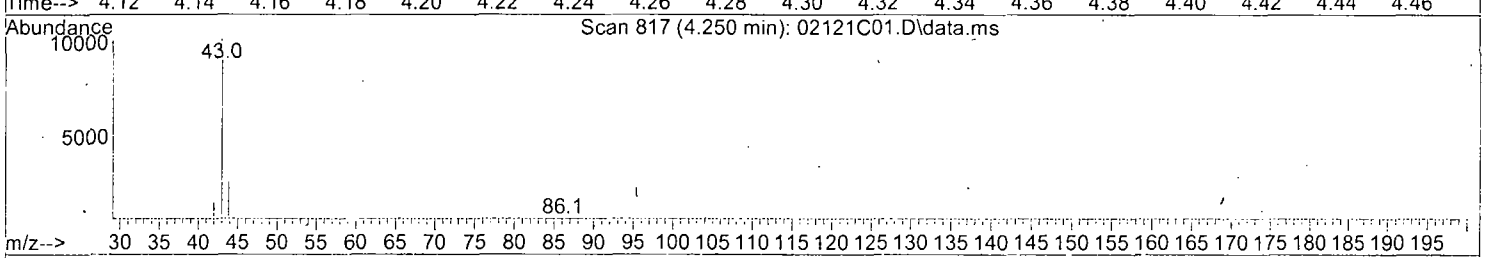
Freedom_0005792_0600

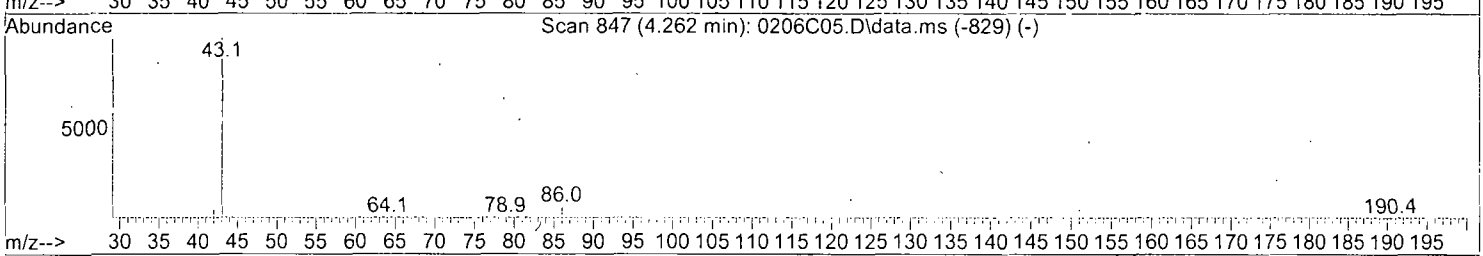
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration







TIC: 02121C01.D\data.ms

(17) VINYL ACETATE (TMCP)

4.250min (+0.000) 1.35 ug/L

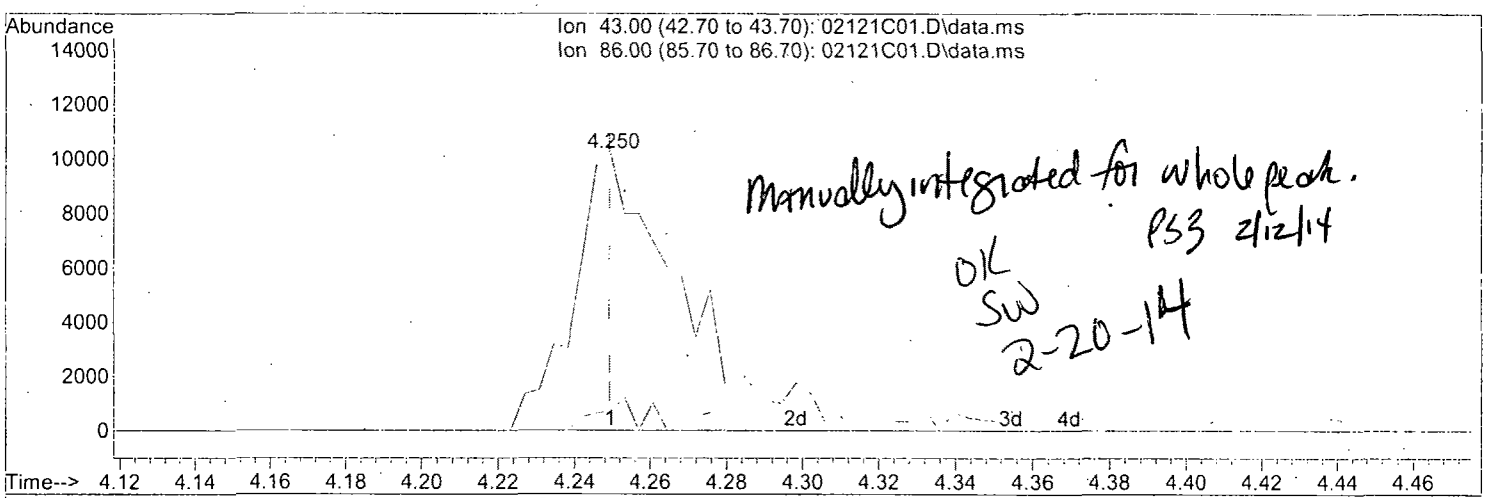
response 19508

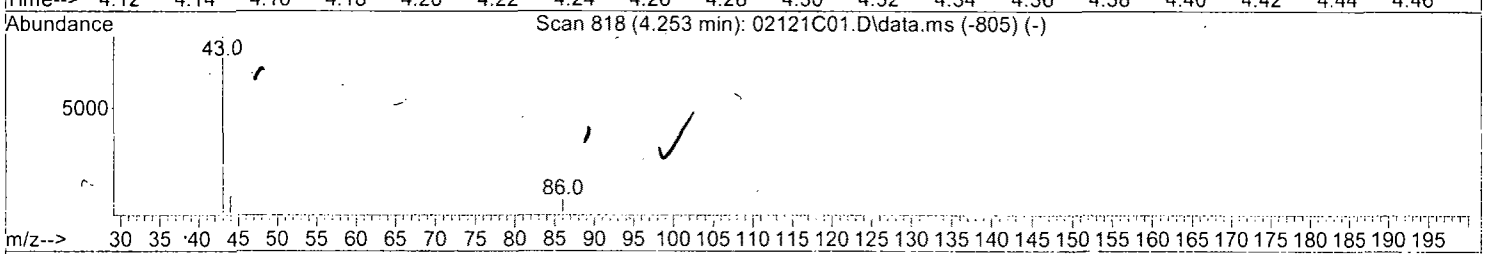
Ion	Exp%	Act%
43.00	100	100
86.00	8.90	4.65#
0.00	0.00	0.00
0.00	0.00	0.00

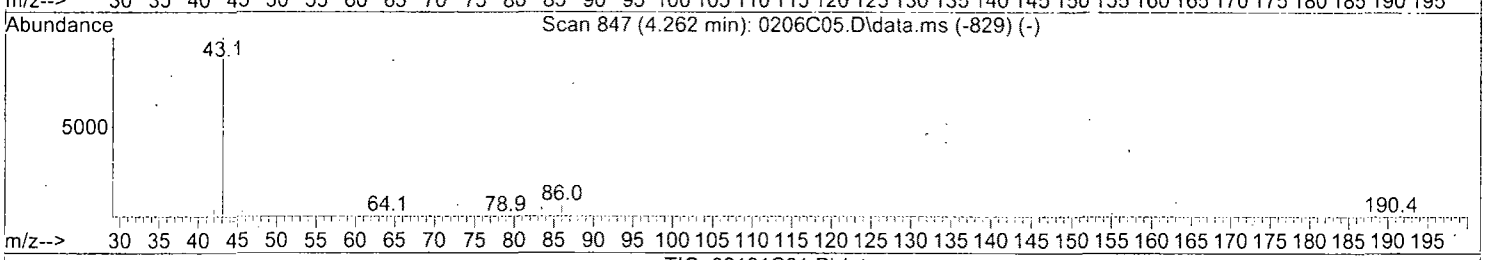
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration







TIC: 02121C01.D\data.ms

(17) VINYL ACETATE (TMCP)

4.250min (+0.000) 1.41 ug/L m

response 20327

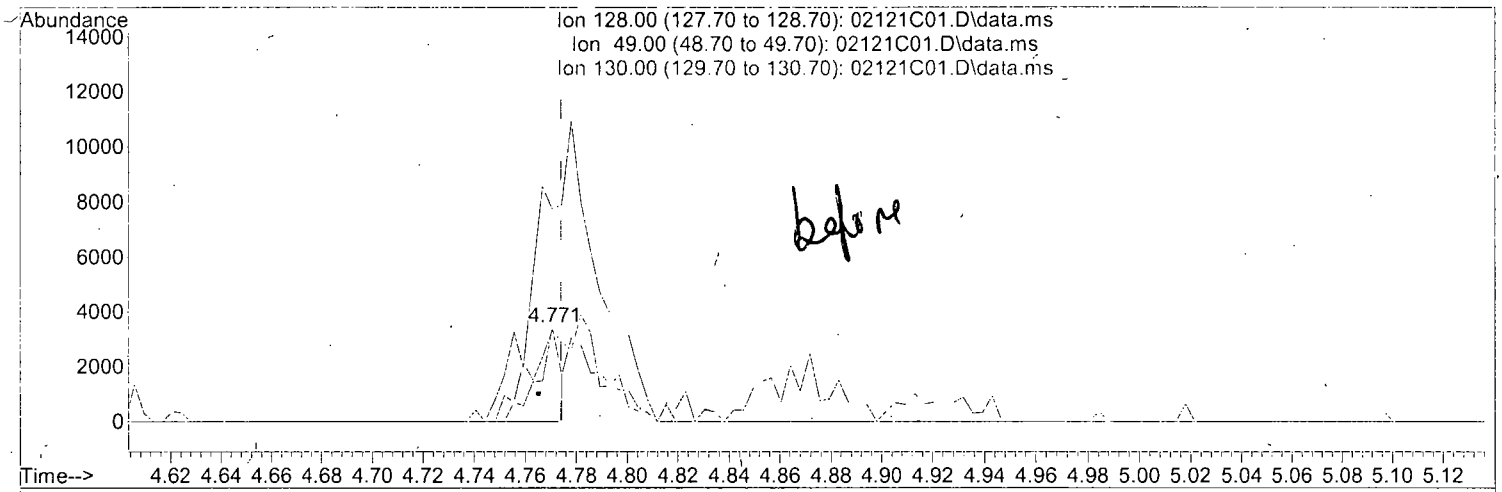
Ion	Exp%	Act%
43.00	100	100
86.00	8.90	4.47#
0.00	0.00	0.00
0.00	0.00	0.00

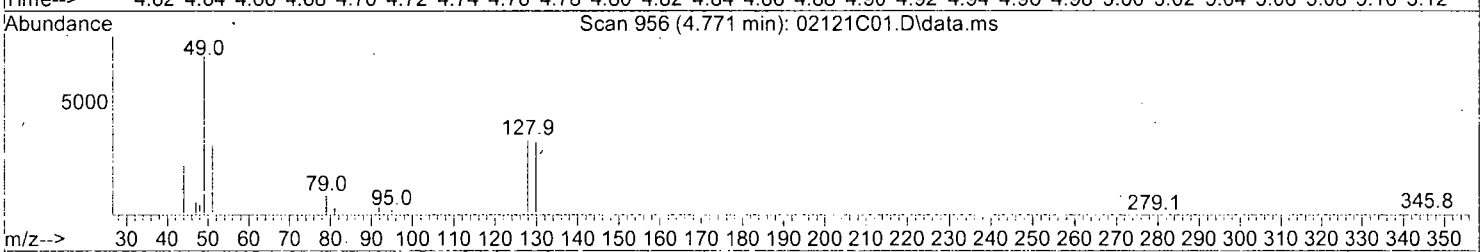
Freedom_0005792_0602

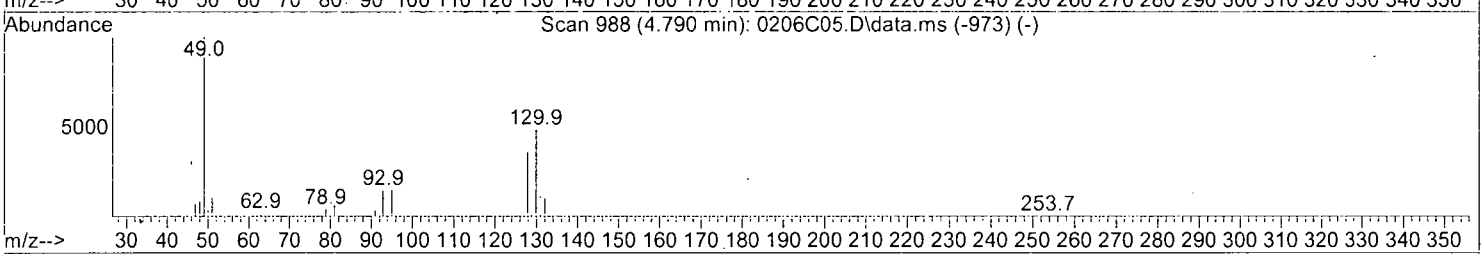
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration







TIC: 02121C01.D\data.ms

(20) BROMOCHLOROMETHANE (TMCP)

4.771min (-0.004) 0.42 ug/L

response 2091

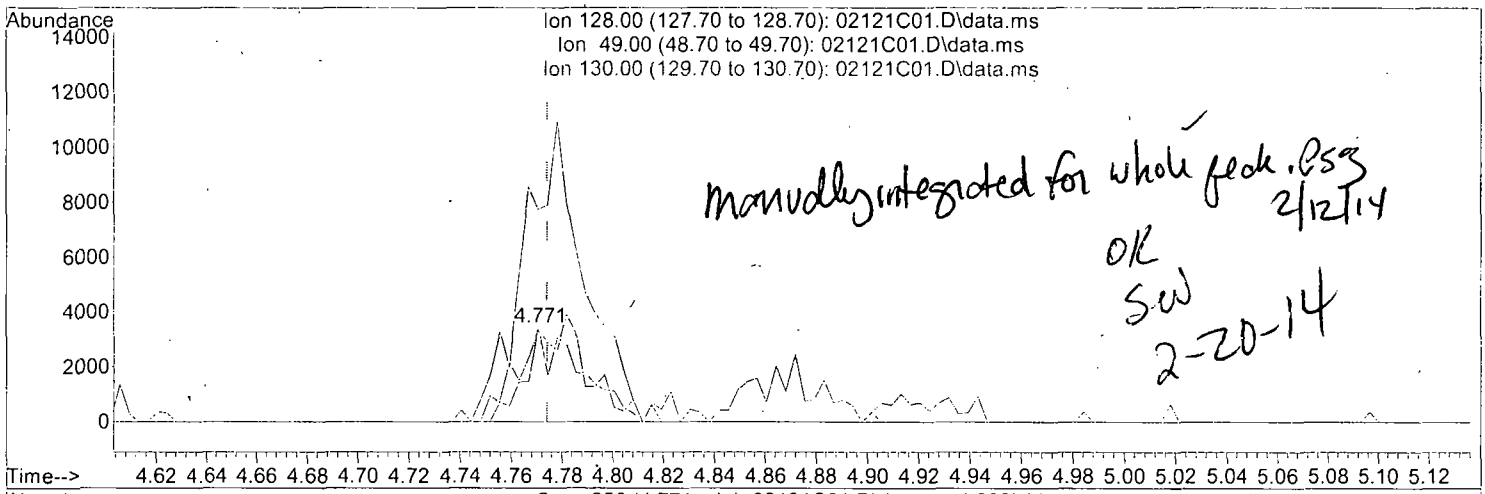
Ion	Exp%	Act%
128.00	100	100
49.00	154.70	869.97#
130.00	132.80	324.44#
0.00	0.00	0.00

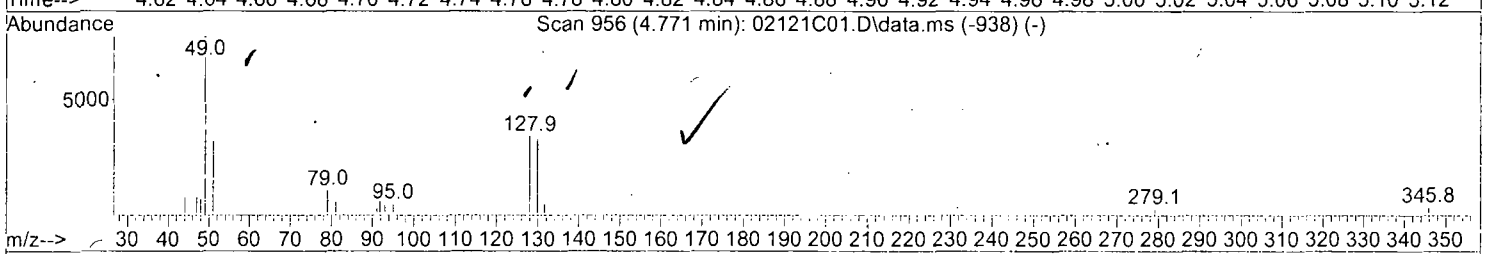
Freedom_0005792_0603

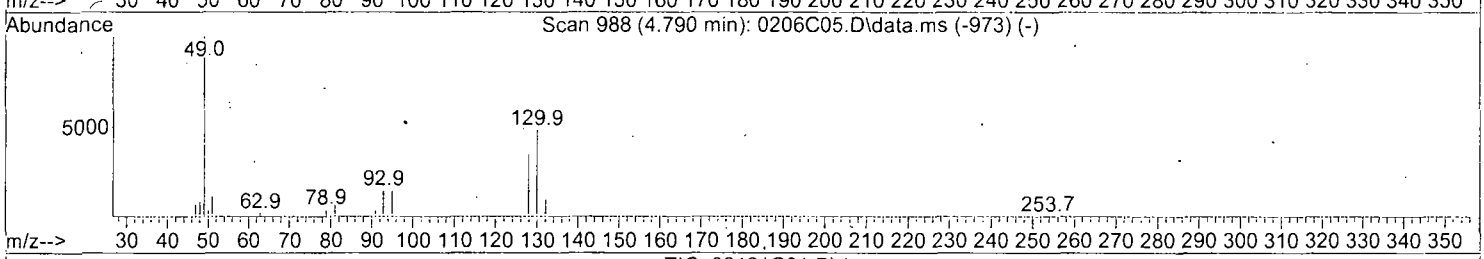
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration







TIC: 02121C01.D\data.ms

(20) BROMOCHLOROMETHANE (TMCP)

4.771min (-0.004) 1.05 ug/L m

response 5216

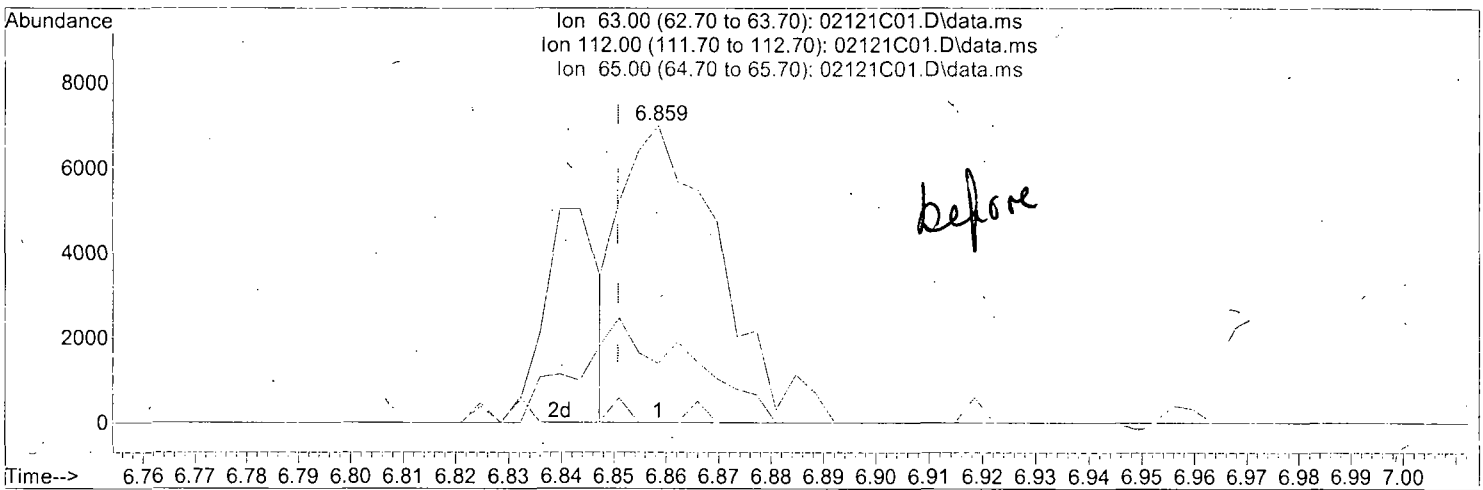
Ion	Exp%	Act%
128.00	100	100
49.00	154.70	348.75#
130.00	132.80	130.06
0.00	0.00	0.00

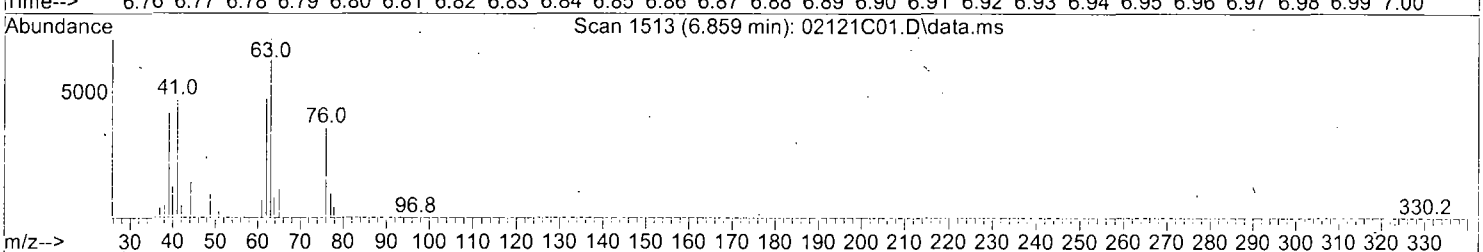
Freedom_0005792_0604

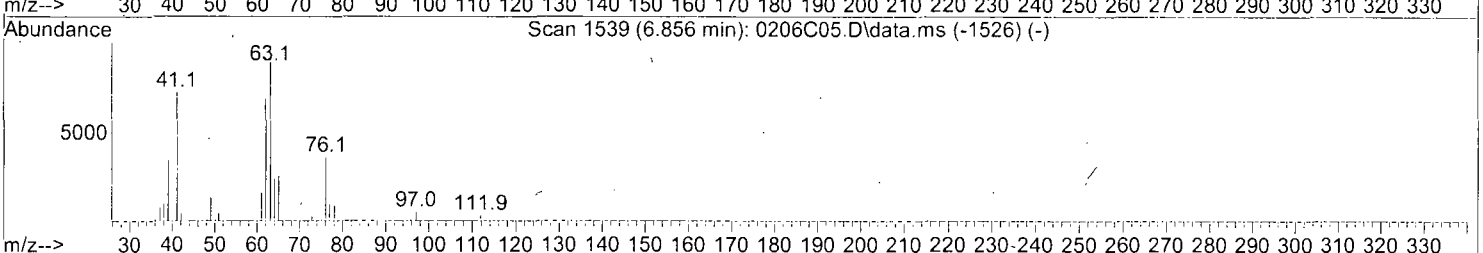
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration







TIC: 02121C01.D\data.ms

(31) 1,2-DICHLOROPROPANE (TMCP)

6.859min (+0.008) 0.88 ug/L

response 9175

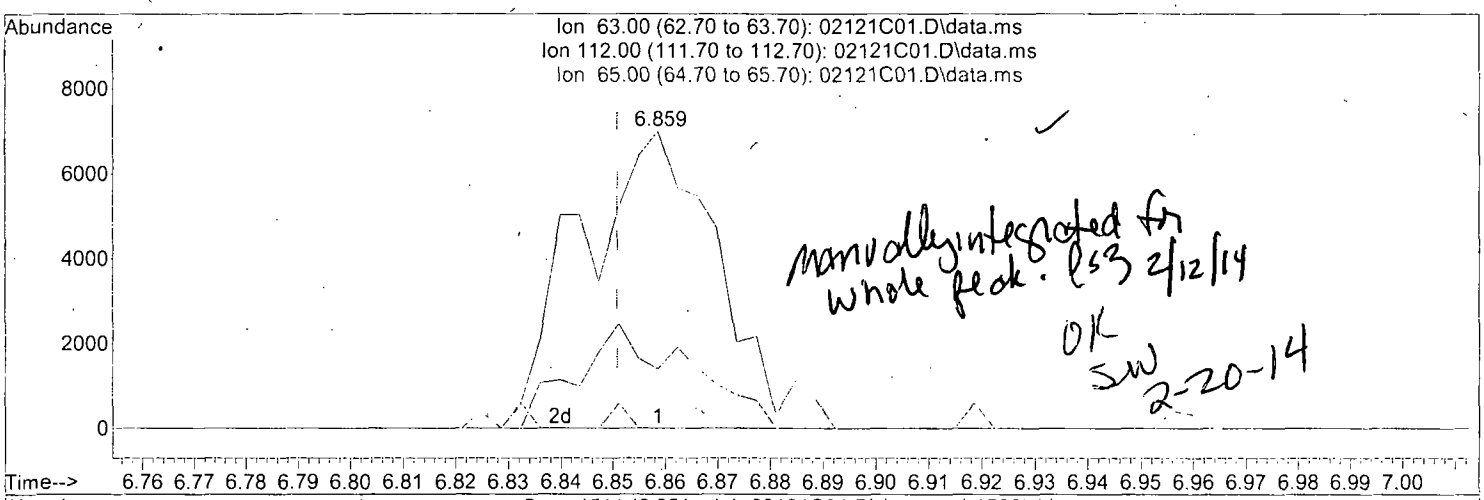
Ion	Exp%	Act%
63.00	100	100
112.00	4.40	0.00#
65.00	30.50	39.92#
0.00	0.00	0.00

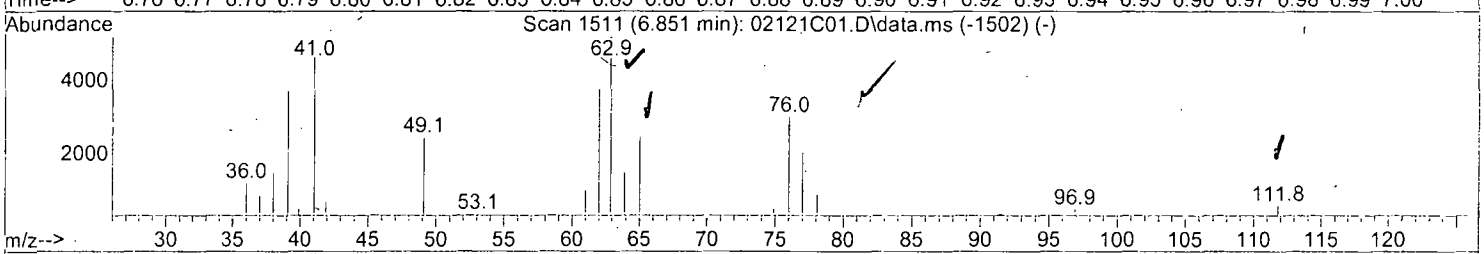
Freedom_0005792_0605

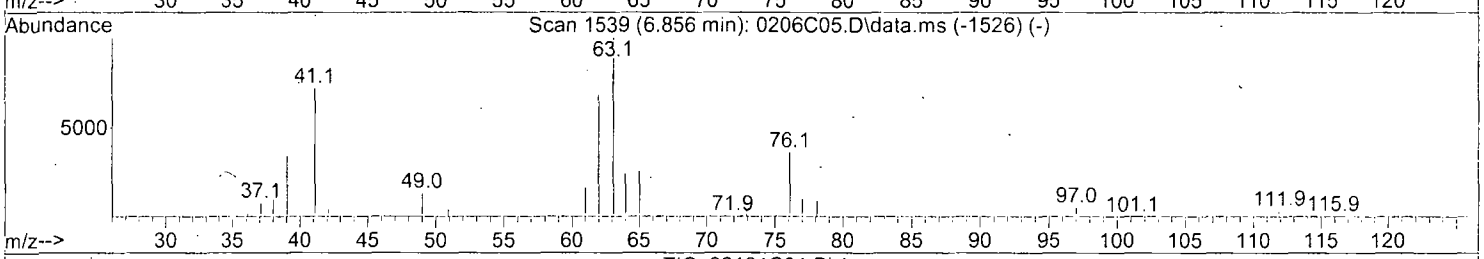
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration







TIC: 02121C01.D\data.ms

(31) 1,2-DICHLOROPROPANE (TMCP)

6.859min (+0.008) 1.23 ug/L m

response 12904

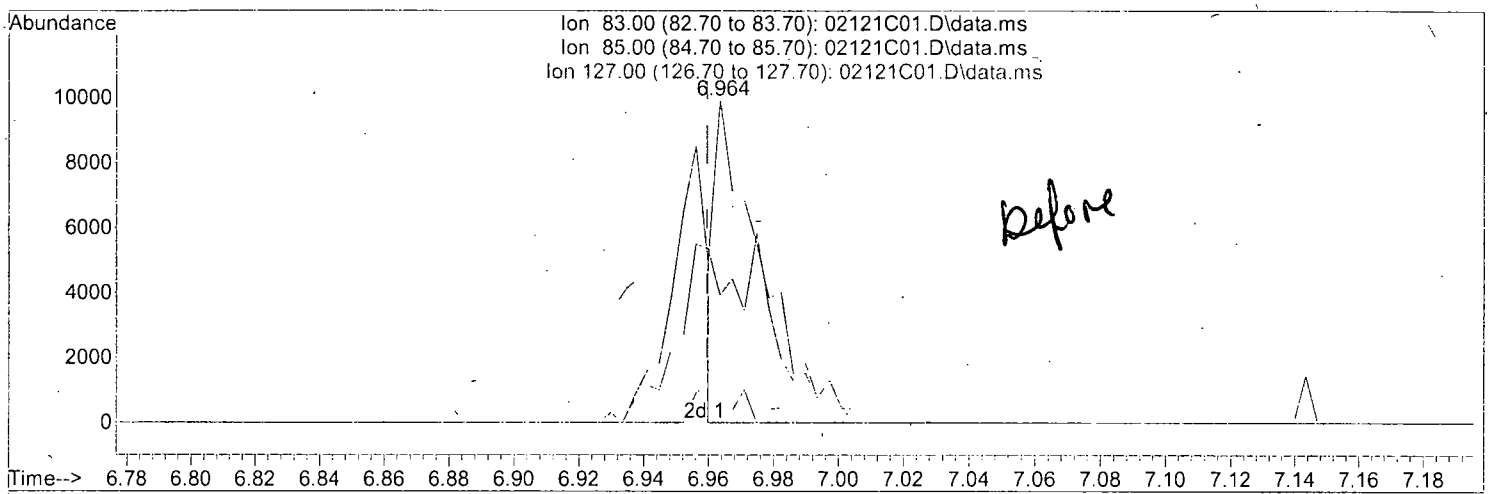
Ion	Exp%	Act%
63.00	100	100
112.00	4.40	0.00#
65.00	30.50	28.39
0.00	0.00	0.00

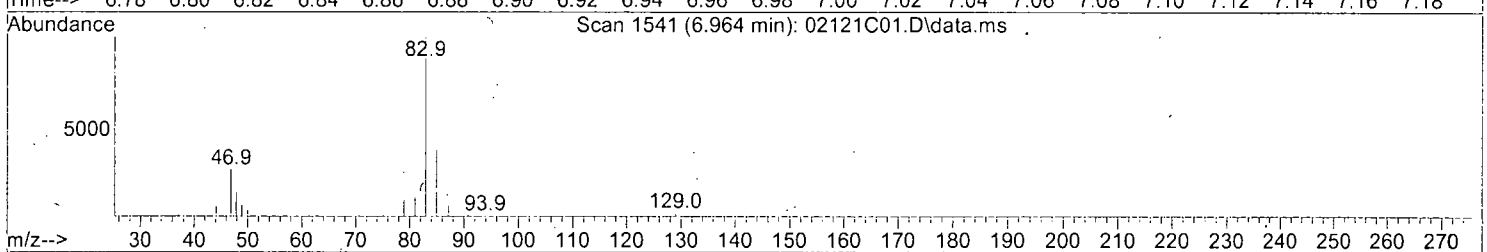
Freedom_0005792_0606

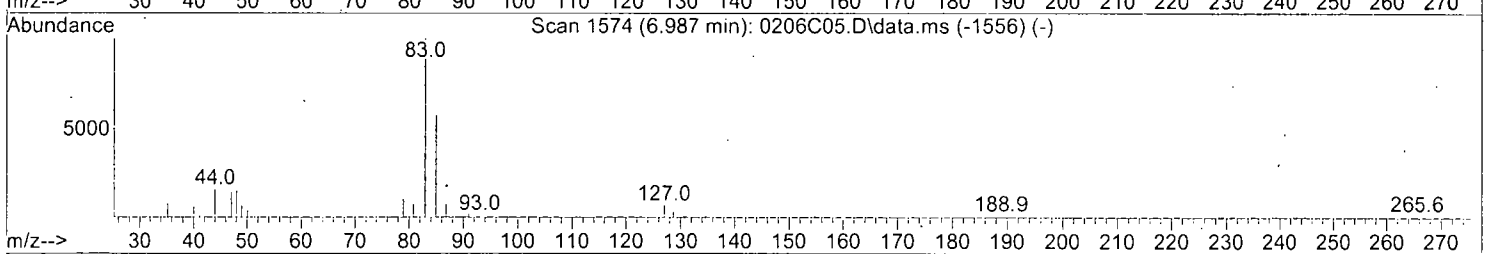
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration







TIC: 02121C01.D\data.ms

(33) BROMODICHLOROMETHANE (TMCP)

6.964min (+0.004) 0.66 ug/L

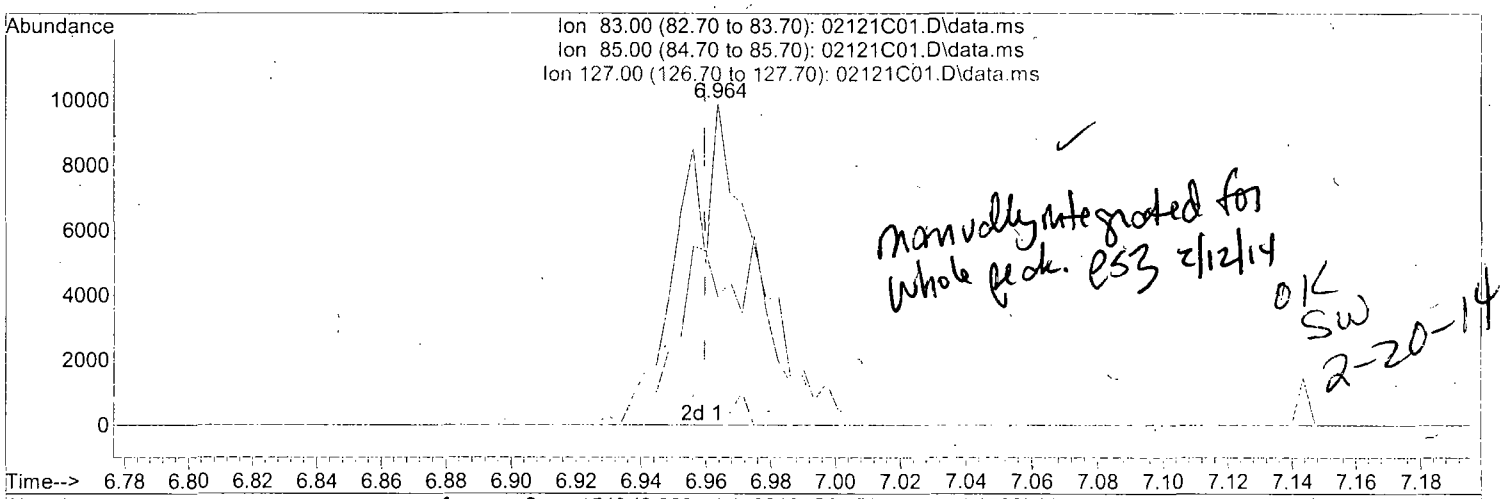
response 9800

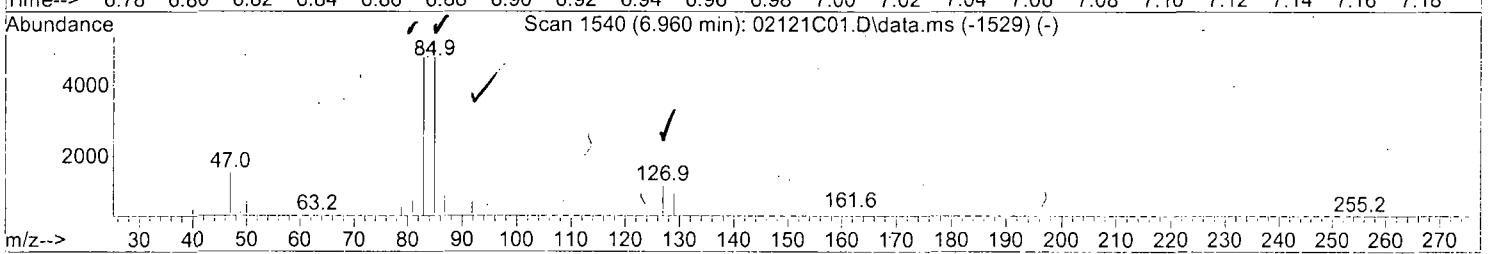
Ion	Exp%	Act%
83.00	100	100
85.00	62.60	106.95#
127.00	8.80	11.65#
0.00	0.00	0.00

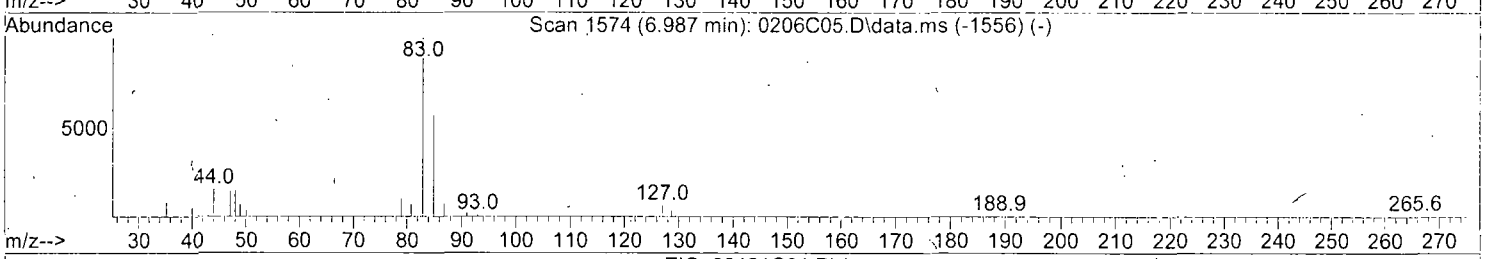
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration







TIC: 02121C01.D\data.ms

(33) BROMODICHLOROMETHANE (TMCP)

6.964min (+0.004) 1.08 ug/L m

response 16139

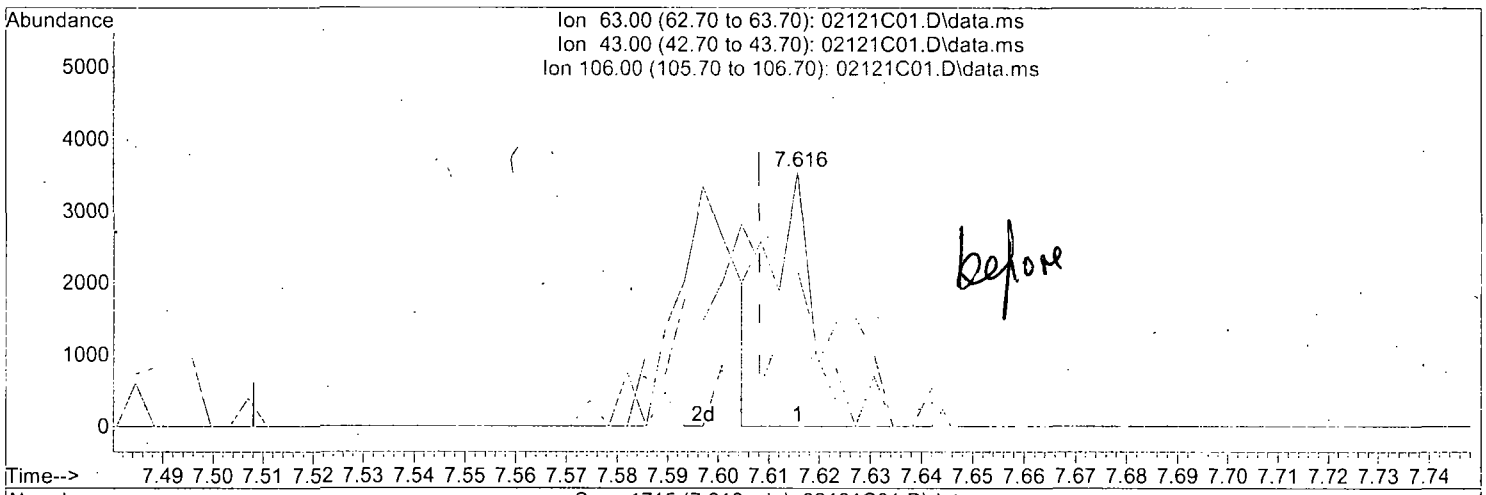
Ion	Exp%	Act%
83.00	100	100
85.00	62.60	64.94
127.00	8.80	7.08
0.00	0.00	0.00

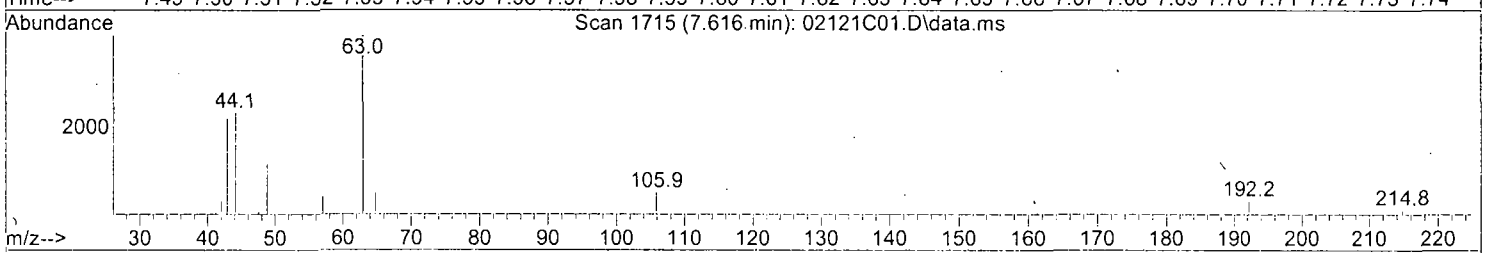
Freedom_0005792_0608

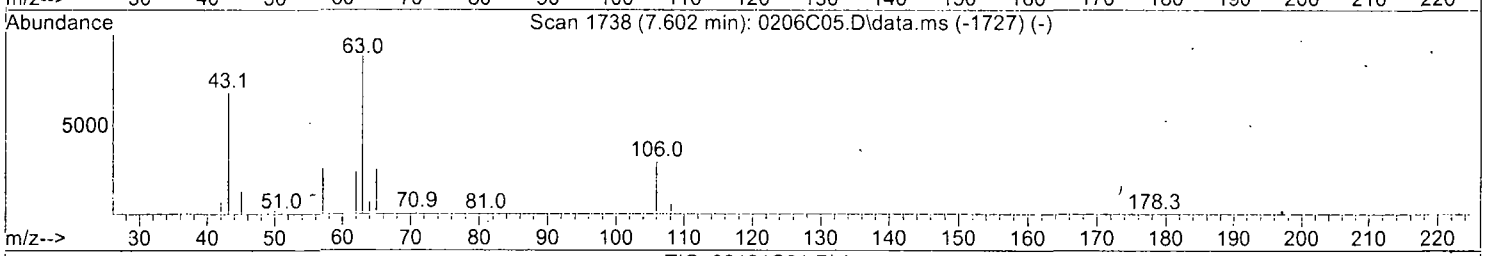
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration







TIC: 02121C01.D\data.ms

(35) 2-CHLOROETHYLVINYL ETHER (TMCP)

7.616min (+0.008) 0.55 ug/L

response 2880

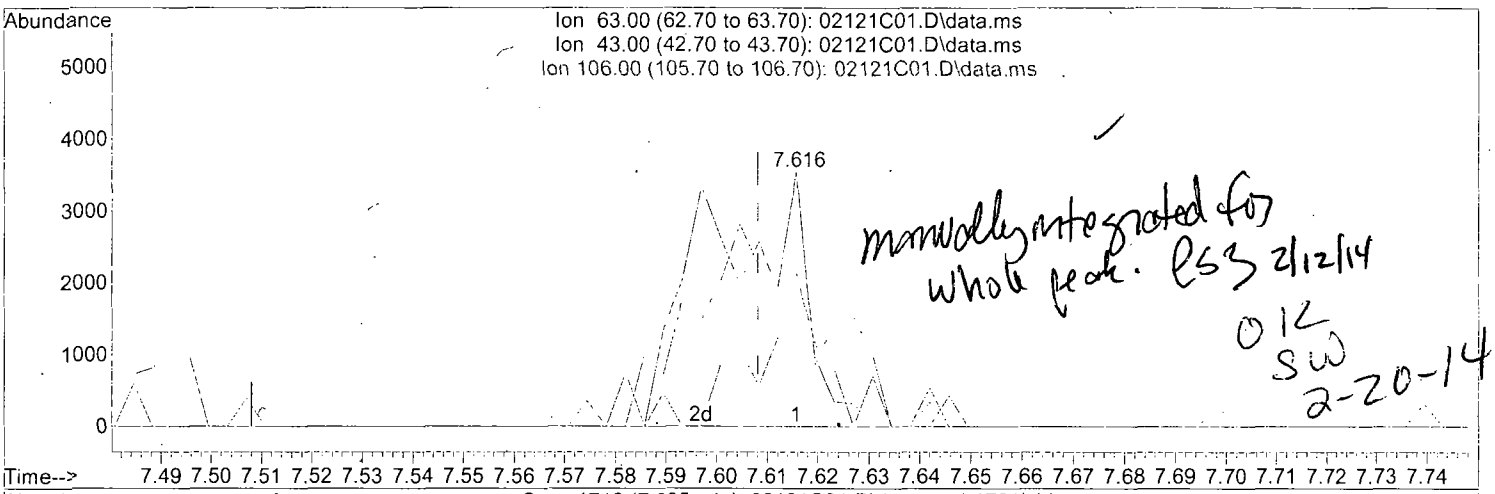
Ion	Exp%	Act%
63.00	100	100
43.00	73.00	0.00#
106.00	30.00	29.34
0.00	0.00	0.00

Freedom_0005792_0609

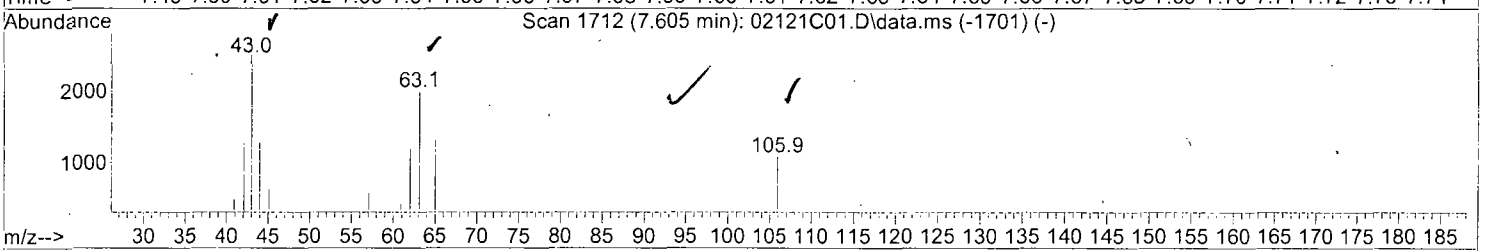
Quantitation Report (Qedit)

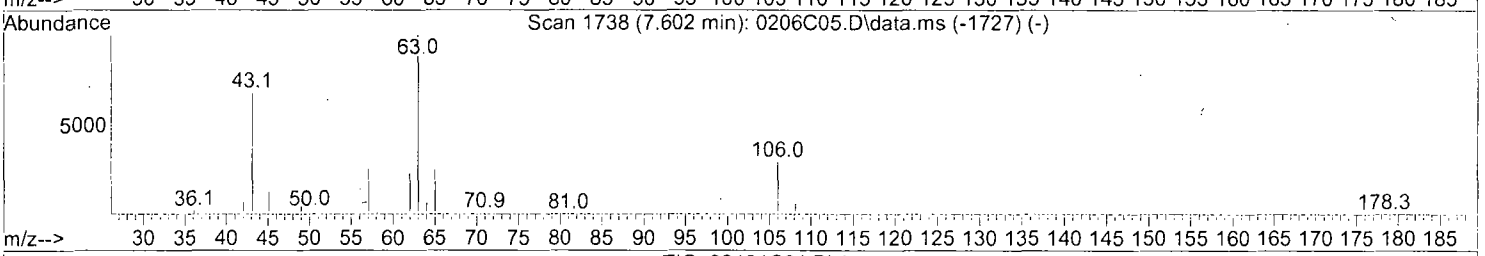
Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:14:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration



manually integrated for whole peak. LSS 2/12/14
OK SW 2-20-14





TIC: 02121C01.D\data.ms

(35) 2-CHLOROETHYLVINYL ETHER (TMCP)

7.616min (+0.008) 1.11 ug/L m

response 5754

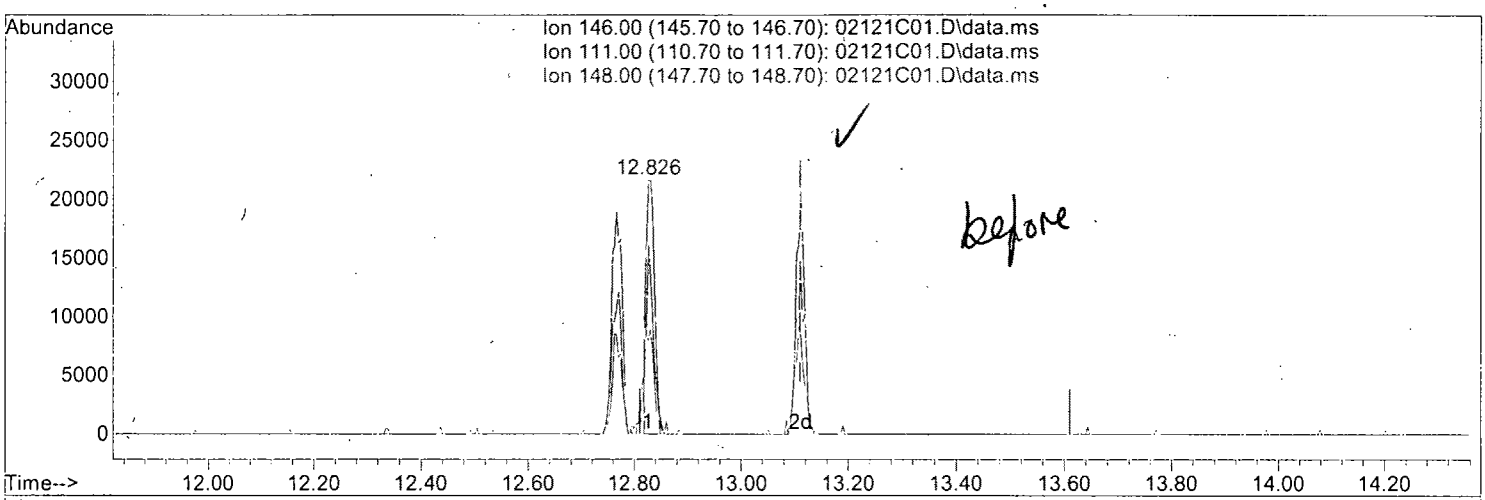
Ion	Exp%	Act%
63.00	100	100
43.00	73.00	0.00#
106.00	30.00	14.69#
0.00	0.00	0.00

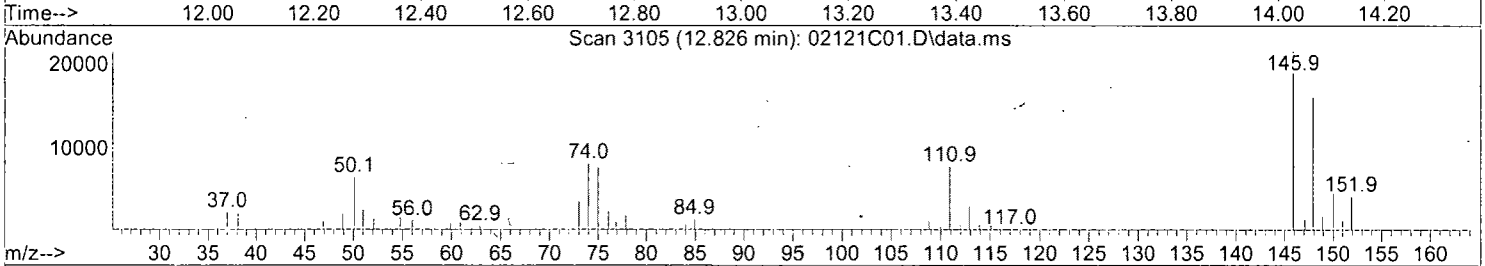
Freedom_0005792_0610

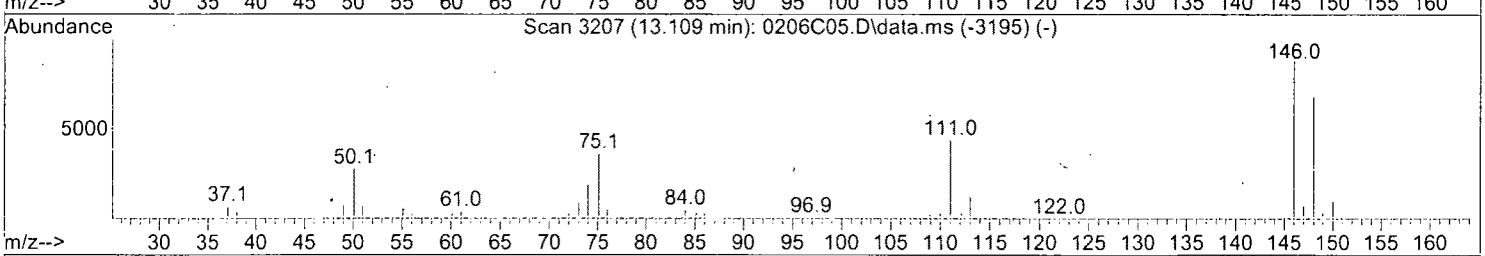
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 12 11:19:12 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration







TIC: 02121C01.D\data.ms

(71) 1,2-DICHLOROBENZENE (TMCP)

12.826min (-0.285) 1.02 ug/L

response 22932

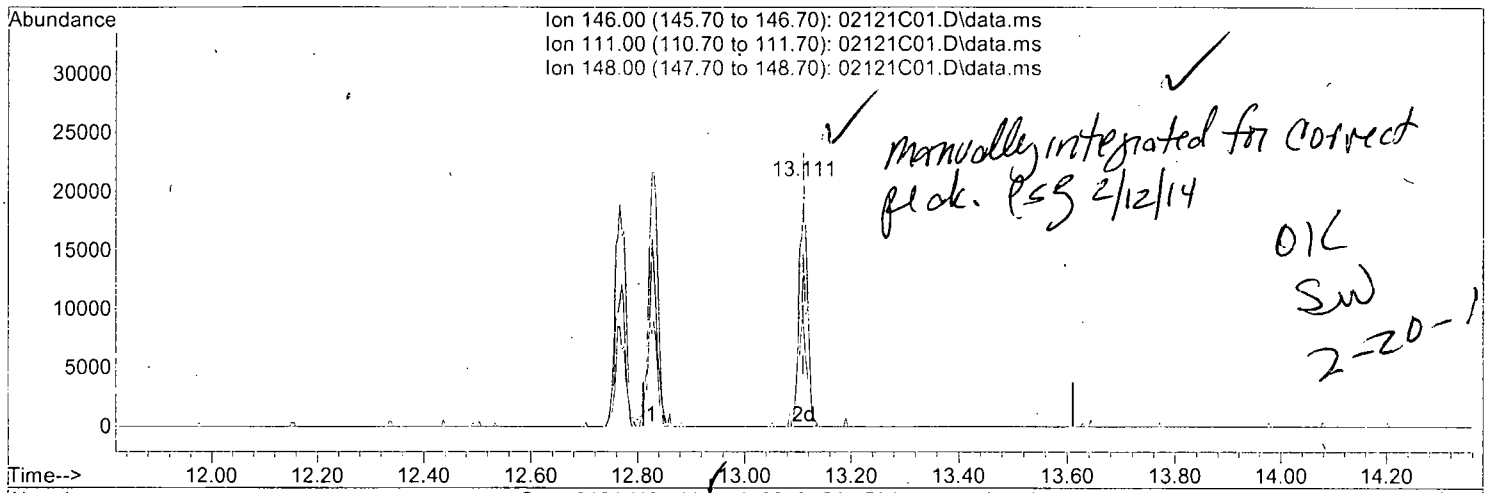
Ion	Exp%	Act%
146.00	100	100
111.00	39.20	40.50
148.00	63.70	61.82
0.00	0.00	0.00

Freedom_0005792_0611

Quantitation Report (Qedit)

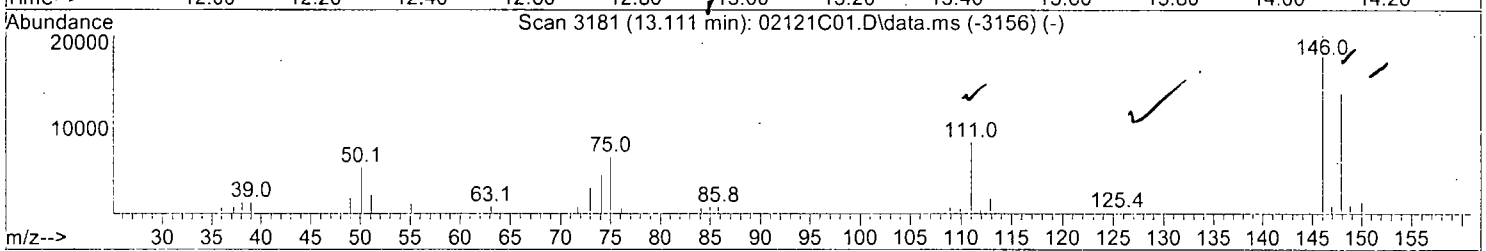
Data Path : D:\DATA\L02122014\
Data File : 02121C01.D
Acq On : 12 Feb 2014 10:53
Operator : PZ PZ1-AG5975
Sample : 1 ppb; 0.5uL - 100mL
Misc :
ALS Vial : 5 Sample Multiplier: 1

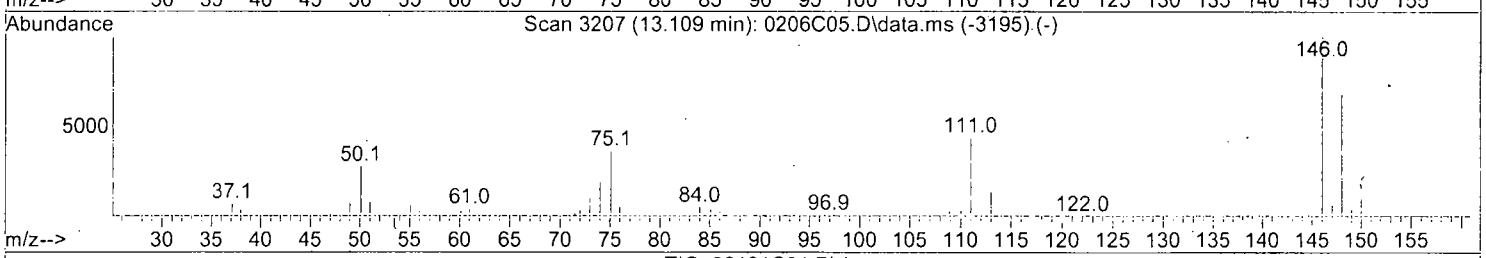
Quant Time: Feb 12 11:19:12 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:14:17 2014
Response via : Initial Calibration



manually integrated for correct peak. PSG 2/12/14

OK SW 2-20-14





TIC: 02121C01.D\data.ms

(71) 1,2-DICHLOROBENZENE (TMCP)

13.111min (+0.000) 1.00 ug/L m

response 22615

Ion	Exp%	Act%
146.00	100	100
111.00	39.20	41.07
148.00	63.70	62.68
0.00	0.00	0.00

Freedom_0005792_0612

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212C05.D
Acq On : 12 Feb 2014 11:21
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 12 12:44:40 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:20:53 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.525	114	132982	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	124290	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.807	152	76637	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.498	65	87411	6.05	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery	= 121.00%#		
41) TOLUENE-d8	8.616	98	167457	4.95	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery	= 99.00%		
59) 4-BROMOFLUOROBENZENE	11.645	95	77779	4.95	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery	= 99.00%		
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.303	85	56256	4.16	ug/L	99
3) CHLOROMETHANE	1.415	50	84620	6.77	ug/L	96
4) VINYL CHLORIDE	1.528	62	59293	5.90	ug/L	94
5) BROMOMETHANE	1.786	94	24821m	4.26	ug/L	
6) CHLOROETHANE	1.888	64	32730	5.32	ug/L	95
7) TRICHLOROFLUOROMETHANE	2.322	101	98073	4.56	ug/L	100
8) ACETONE	2.465	43	30879m	9.33	ug/L	
9) 1,1-DICHLOROETHENE	2.799	96	28534	4.17	ug/L #	18
10) METHYLENE CHLORIDE	2.971	84	46656	4.43	ug/L #	47
11) Freon 113	3.054	101	46176	4.24	ug/L #	81
12) CARBON DISULFIDE	3.083	76	132699	4.44	ug/L	99
13) METHYL ACETATE	3.102	43	51740	6.58	ug/L #	85
14) TRANS-1,2-DICHLOROETHENE	3.691	96	40512	4.28	ug/L #	72
15) METHYL-TERT-BUTYL ETHER	3.874	73	102020	4.24	ug/L #	80
16) 1,1-DICHLOROETHANE	3.964	63	102588	4.83	ug/L #	95
17) VINYL ACETATE	4.242	43	98292	6.02	ug/L #	91
18) 2-BUTANONE	4.549	43	27541m	6.82	ug/L	
19) CIS-1,2-DICHLOROETHENE	4.609	96	41705	4.08	ug/L #	64
20) BROMOCHLOROMETHANE	4.785	128	20954	4.14	ug/L #	22
21) CHLOROFORM	4.864	83	89338	4.21	ug/L	97
22) 2,2-DICHLOROPROPANE	4.924	77	61471	4.38	ug/L	94
24) 1,2-DICHLOROETHANE	5.584	62	101211	5.26	ug/L #	96
25) 1,1,1-TRICHLOROETHANE	5.674	97	74320	4.35	ug/L #	88
26) 1,1-DICHLOROPROPENE	5.914	75	53824	3.86	ug/L	91
27) CYCLOHEXANE	5.970	56	105396	5.84	ug/L #	73
28) CARBON TETRACHLORIDE	6.082	117	66644	4.25	ug/L	95
29) BENZENE	6.146	78	175502	4.15	ug/L	93
30) DIBROMOMETHANE	6.783	93	30789	4.46	ug/L #	72
31) 1,2-DICHLOROPROPANE	6.847	63	54433	4.88	ug/L #	96
32) TRICHLOROETHENE	6.915	130	46416	3.82	ug/L #	80
33) BROMODICHLOROMETHANE	6.963	83	66811	4.32	ug/L	99
34) METHYLCYCLOHEXANE	7.488	83	68810	3.99	ug/L #	63
35) 2-CHLOROETHYLVINYL ETHER	7.601	63	27026	4.88	ug/L #	73
36) CIS-1,3-DICHLOROPROPENE	7.784	75	66080	4.49	ug/L	100
38) 4-METHYL-2-PENTANONE	8.005	43	50666	6.79	ug/L #	89
39) TRANS-1,3-DICHLOROPROPENE	8.335	75	58150	4.30	ug/L	99
40) 1,1,2-TRICHLOROETHANE	8.467	97	38346	3.97	ug/L	97
42) TOLUENE	8.699	92	106195	4.11	ug/L	99

Freedom_0005792_0613

Data Path : D:\DATA\L02122014\
Data File : 0212C05.D
Acq On : 12 Feb 2014 11:21
Operator : PZ PZ1-AG5975
Sample : 5 ppb, 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 12 12:44:40 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:20:53 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 1,3-DICHLOROPROPANE	8.770	76	78102	4.14 ug/L	100
44) CHLORODIBROMOMETHANE	9.006	129	38185	3.79 ug/L #	17
45) 2-HEXANONE	9.078	43	30391	5.76 ug/L #	87
46) 1,2-DIBROMOETHANE (EDB)	9.295	107	37029	3.91 ug/L	98
47) TETRACHLOROETHENE	9.561	164	34502	4.17 ug/L #	91
48) 1,1,1,2-TETRACHLOROETHANE	10.292	131	38648	4.13 ug/L	98
49) CHLOROBENZENE	10.375	112	119875	4.30 ug/L	96
50) ETHYLBENZENE	10.656	91	195786	3.99 ug/L	93
51) BROMOFORM	10.877	173	24542	3.86 ug/L #	96
52) M-XYLENE/P-XYLENE	10.888	106	152145	8.32 ug/L	84
53) STYRENE	11.211	104	253908	8.62 ug/L	94
54) O-XYLENE	11.278	106	185790	9.41 ug/L	91
55) ISOPROPYLBENZENE	11.649	105	214485	4.14 ug/L	96
57) 1,1,2,2-TETRACHLOROETHANE	11.259	83	32051	4.02 ug/L #	95
58) 1,2,3-TRICHLOROPROPANE	11.398	75	44669	3.87 ug/L	99
60) BROMOBENZENE	11.795	156	50730	4.10 ug/L #	74
61) N-PROPYLBENZENE	12.065	91	273548	4.18 ug/L	92
62) 2-CHLOROTOLUENE	12.103	91	178492	4.44 ug/L #	86
63) 4-CHLOROTOLUENE	12.181	91	181761	4.23 ug/L	90
64) 1,3,5-TRIMETHYLBENZENE	12.361	105	182295	4.29 ug/L	94
65) TERT-BUTYLBENZENE	12.568	119	157014	4.42 ug/L	86
66) 1,2,4-TRIMETHYLBENZENE	12.684	105	192343	4.36 ug/L	94
67) SEC-BUTYLBENZENE	12.755	105	268057	4.46 ug/L	96
68) 1,3-DICHLOROBENZENE	12.766	146	115056	4.19 ug/L	95
69) 1,4-DICHLOROBENZENE	12.826	146	115397	4.12 ug/L	96
70) P-ISOPROPYLTOLUENE	12.935	119	200016	4.25 ug/L #	94
71) 1,2-DICHLOROBENZENE	13.111	146	105145	4.18 ug/L	96
72) N-BUTYLBENZENE	13.265	91	215081	4.26 ug/L	97
73) 1,2-DIBROMO-3-CHLOROPR...	13.486	75	7801	3.93 ug/L #	58
74) 1,2,4-TRICHLOROBENZENE	14.551	180	70315	3.82 ug/L #	95
75) NAPHTHALENE	14.730	128	120671	3.35 ug/L	100
76) HEXACHLOROBUTADIENE	14.805	225	40124	3.65 ug/L #	75
77) 1,2,3-TRICHLOROBENZENE	14.880	180	73214	4.07 ug/L #	91

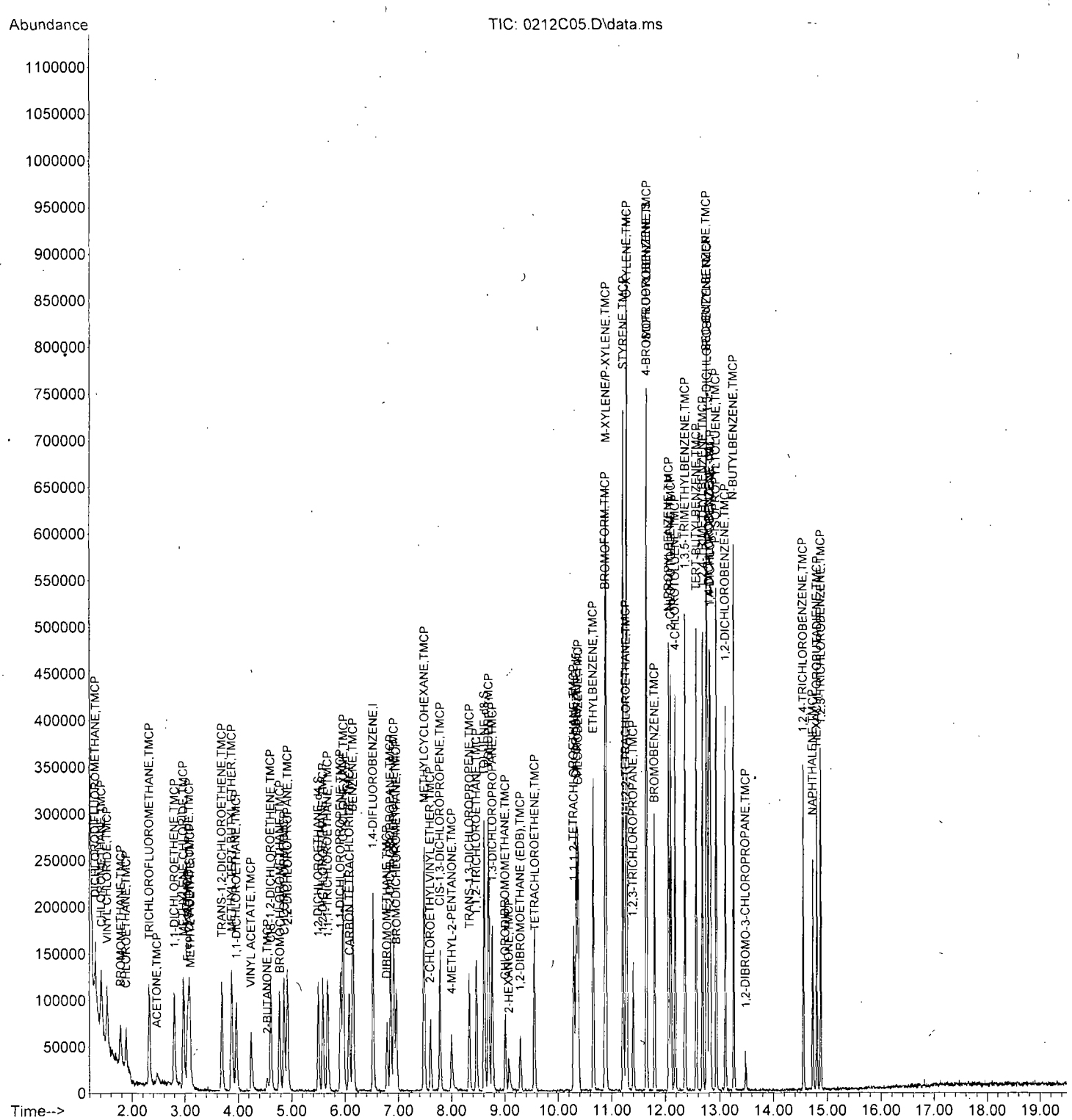
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0614

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212C05.D
Acq On : 12 Feb 2014 11:21
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 12 12:44:40 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:20:53 2014
Response via : Initial Calibration

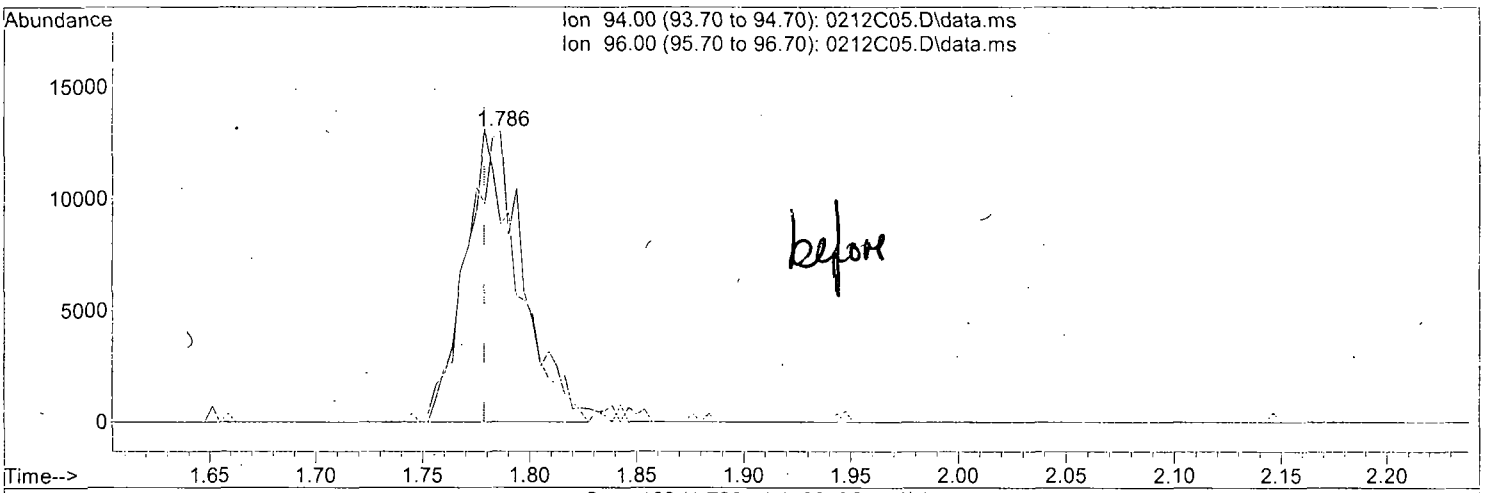


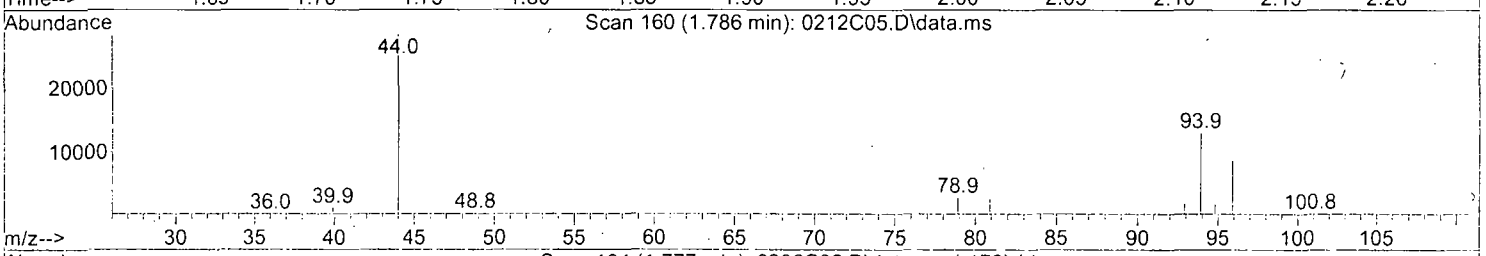
Freedom_0005792_0615

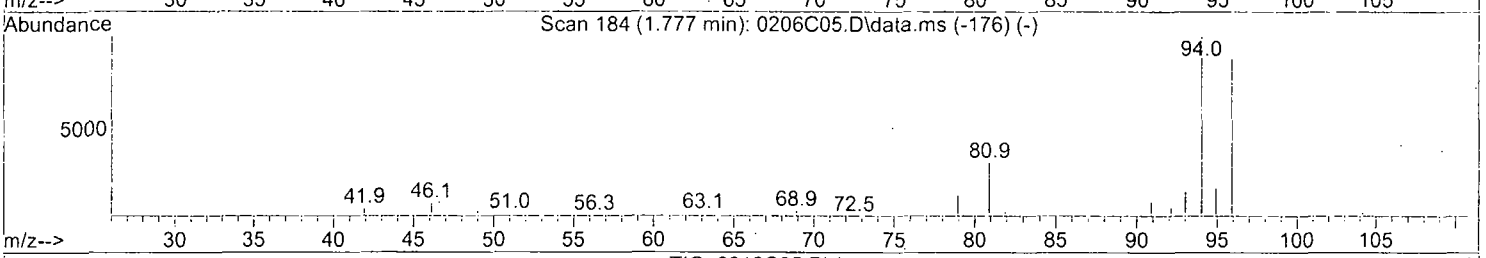
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C05.D
Acq On : 12 Feb 2014 11:21
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 12 12:29:43 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:20:53 2014
Response via : Initial Calibration







TIC: 0212C05.D\data.ms

(5) BROMOMETHANE (TMCP)

1.786min (+0.007) 4.12 ug/L

response 24005

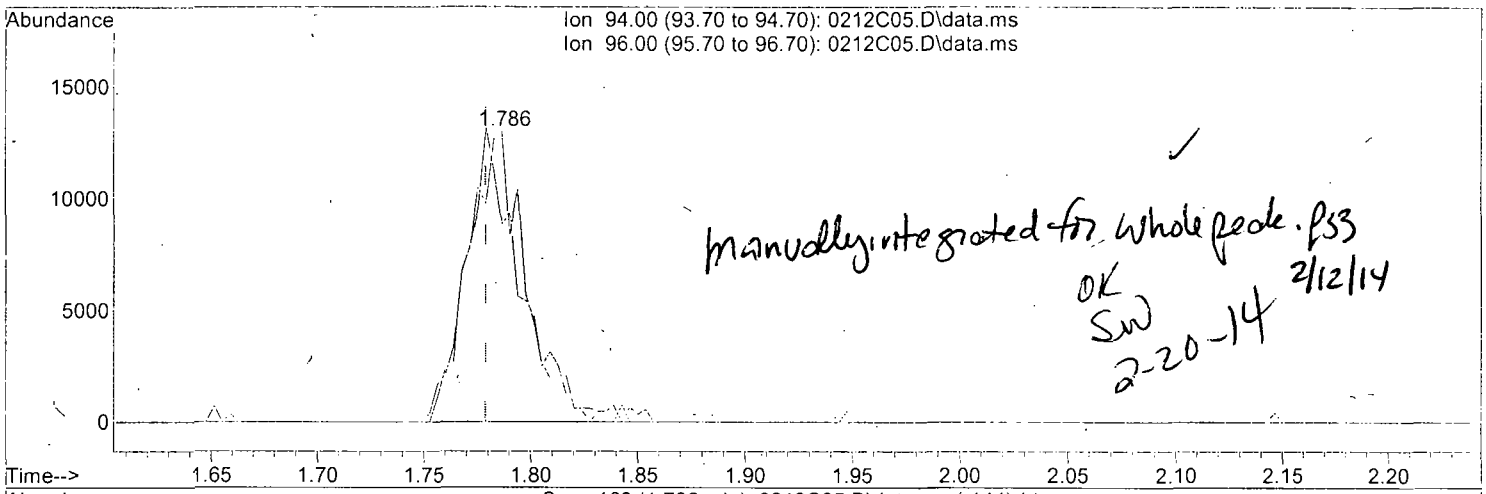
Ion	Exp%	Act%
94.00	100	100
96.00	93.10	94.83
0.00	0.00	0.00
0.00	0.00	0.00

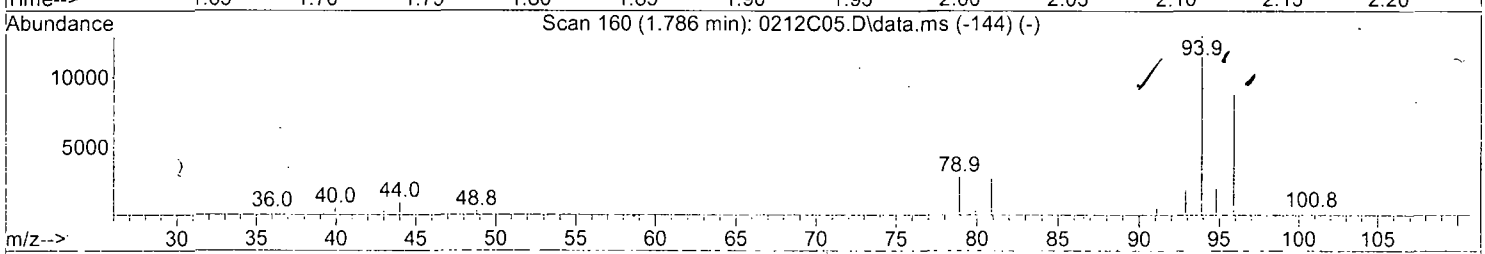
Freedom_0005792_0616

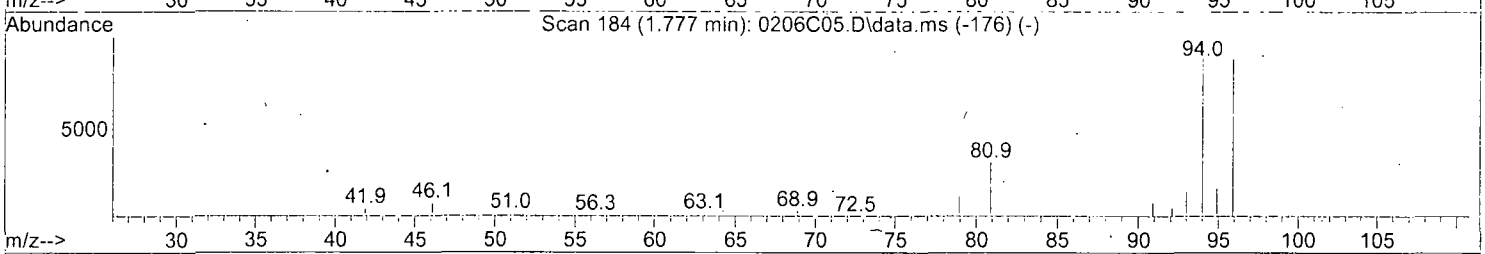
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C05.D
Acq On : 12 Feb 2014 11:21
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 12 12:29:43 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:20:53 2014
Response via : Initial Calibration







TIC: 0212C05.D\data.ms

(5) BROMOMETHANE (TMCP)

1.786min (+0.007) 4.26 ug/L m

response 24821

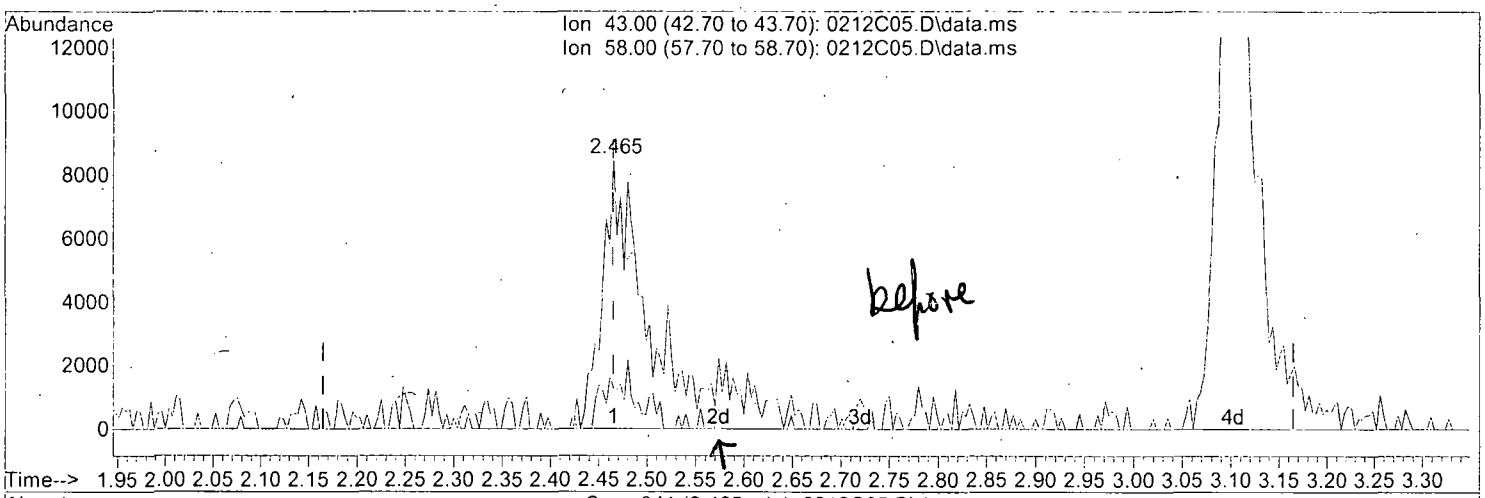
Ion	Exp%	Act%
94.00	100	100
96.00	93.10	91.71
0.00	0.00	0.00
0.00	0.00	0.00

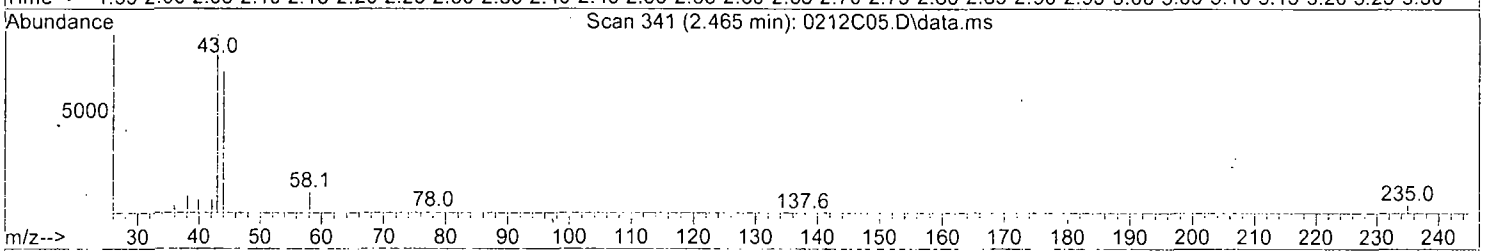
Freedom_0005792_0617

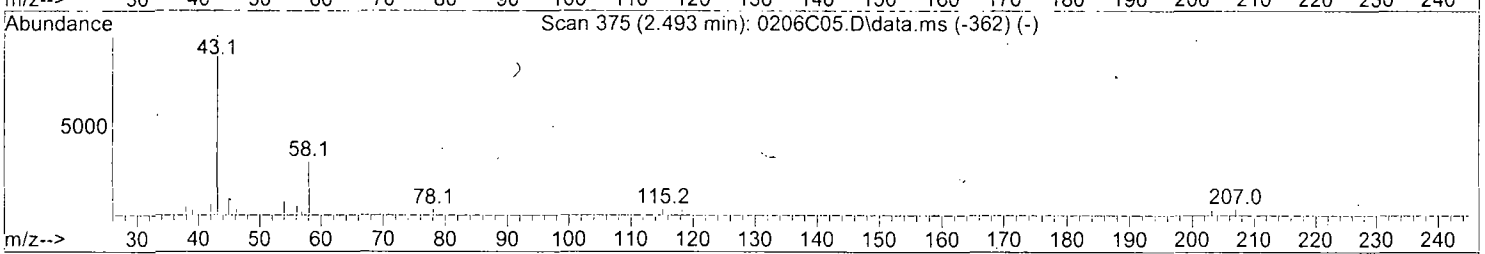
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C05.D
Acq On : 12 Feb 2014 11:21
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 12 12:29:43 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:20:53 2014
Response via : Initial Calibration







TIC: 0212C05.D\data.ms

(8) ACETONE (TMCP)

2.465min (-0.000) 8.03 ug/L

response 26596

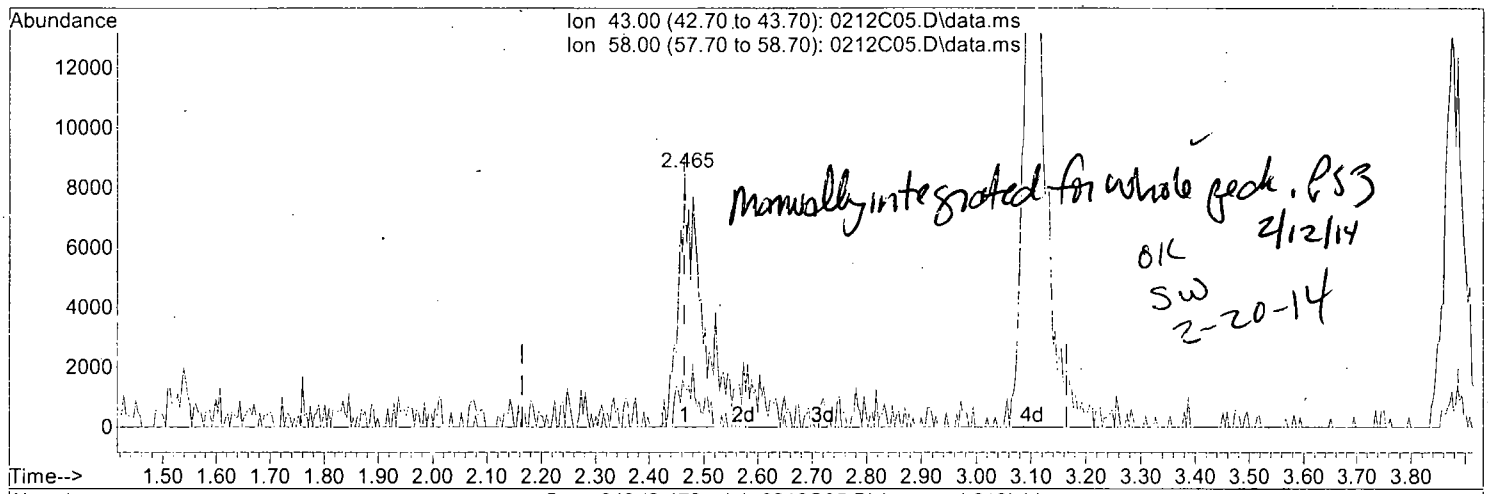
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	3.59#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0618

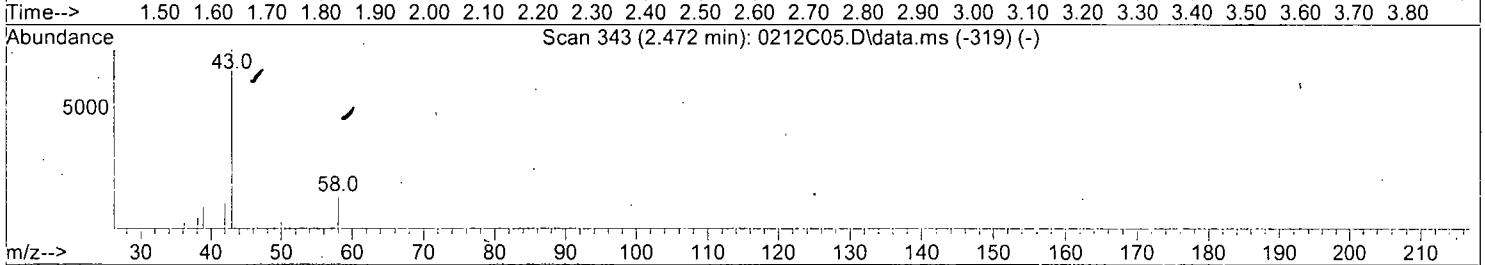
Quantitation Report (Qedit)

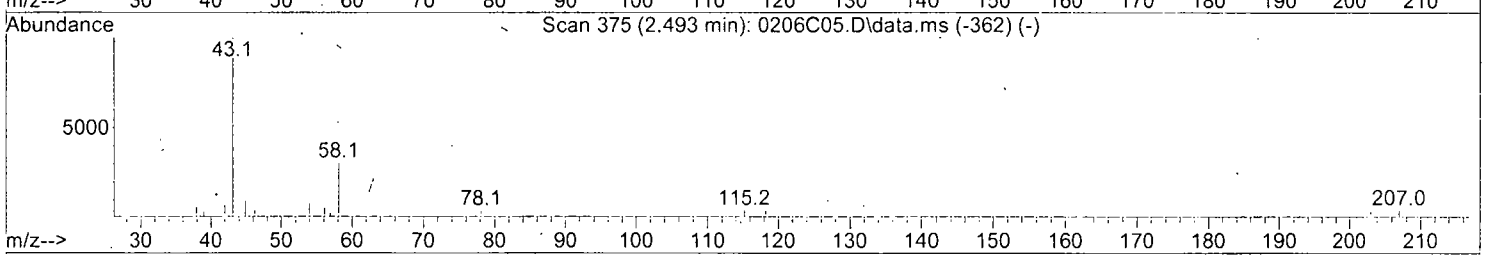
Data Path : D:\DATA\L02122014\
Data File : 0212C05.D
Acq On : 12 Feb 2014 11:21
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 12 12:32:18 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:20:53 2014
Response via : Initial Calibration



Manually integrated for whole peak. PSS 2/12/14
OK SW 2-20-14





TIC: 0212C05.D\data.ms

(8) ACETONE (TMCP)

2.465min (-0.000) 9.33 ug/L m

response 30879

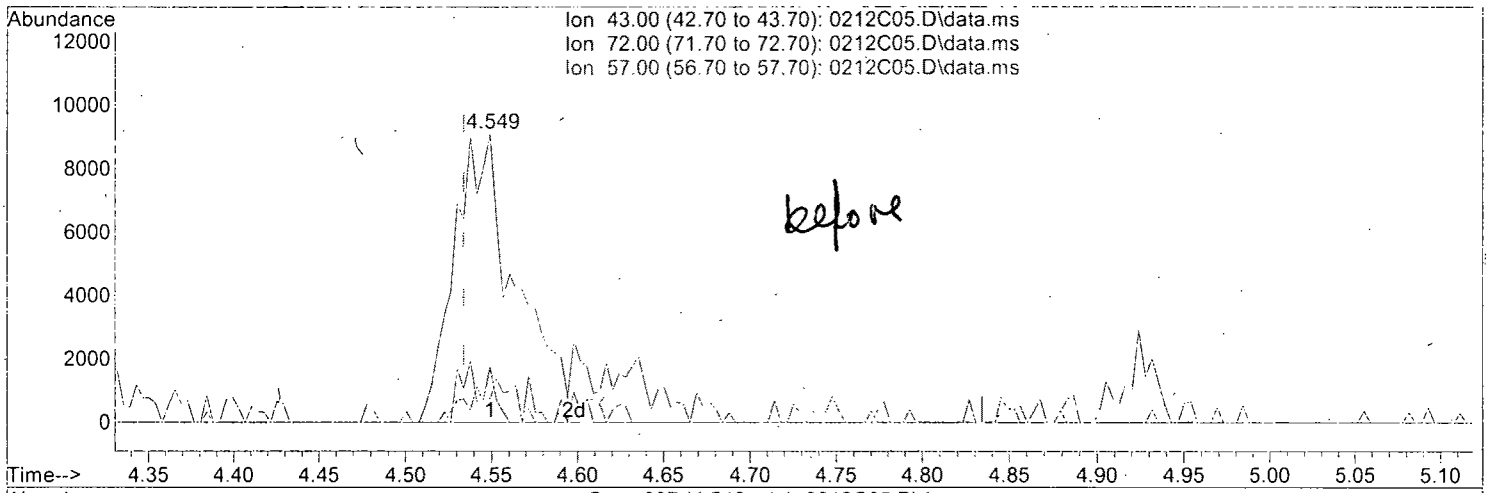
Ion	Exp%	Act%
43.00	100	100
58.00	28.10	3.09#
0.00	0.00	0.00
0.00	0.00	0.00

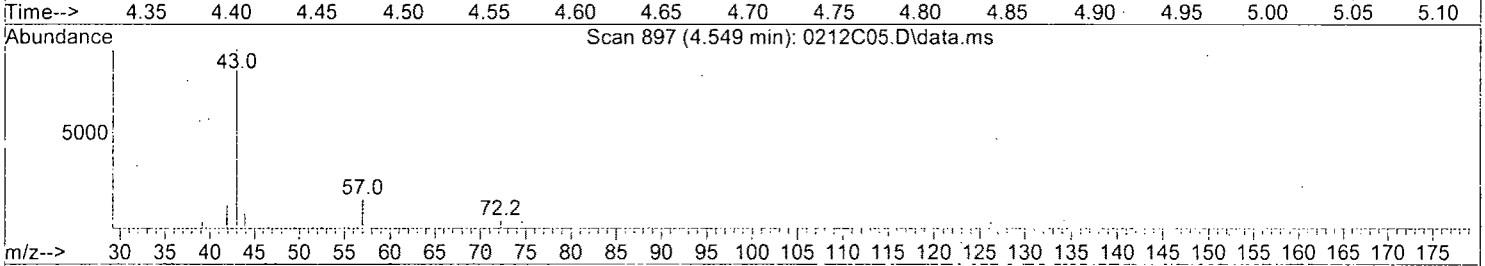
Freedom_0005792_0619

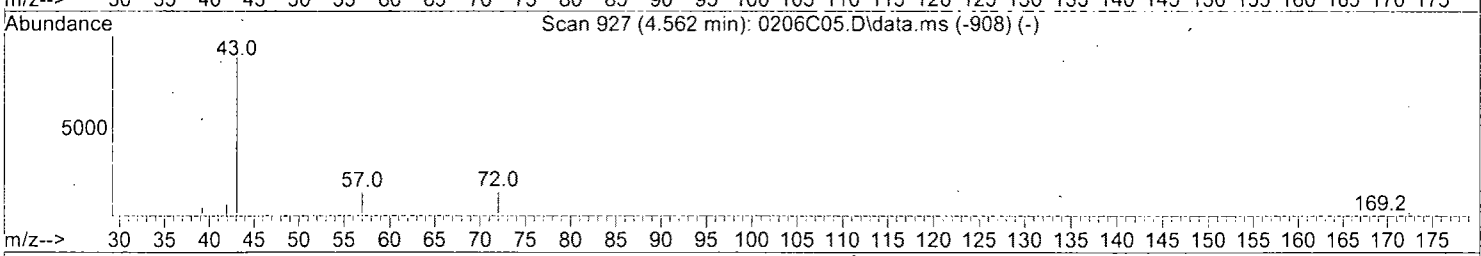
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C05.D
Acq On : 12 Feb 2014 11:21
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 12 12:29:43 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:20:53 2014
Response via : Initial Calibration







TIC: 0212C05.D\data.ms

(18) 2-BUTANONE (TMCP)

4.549min (+0.015) 5.52 ug/L

response 22302

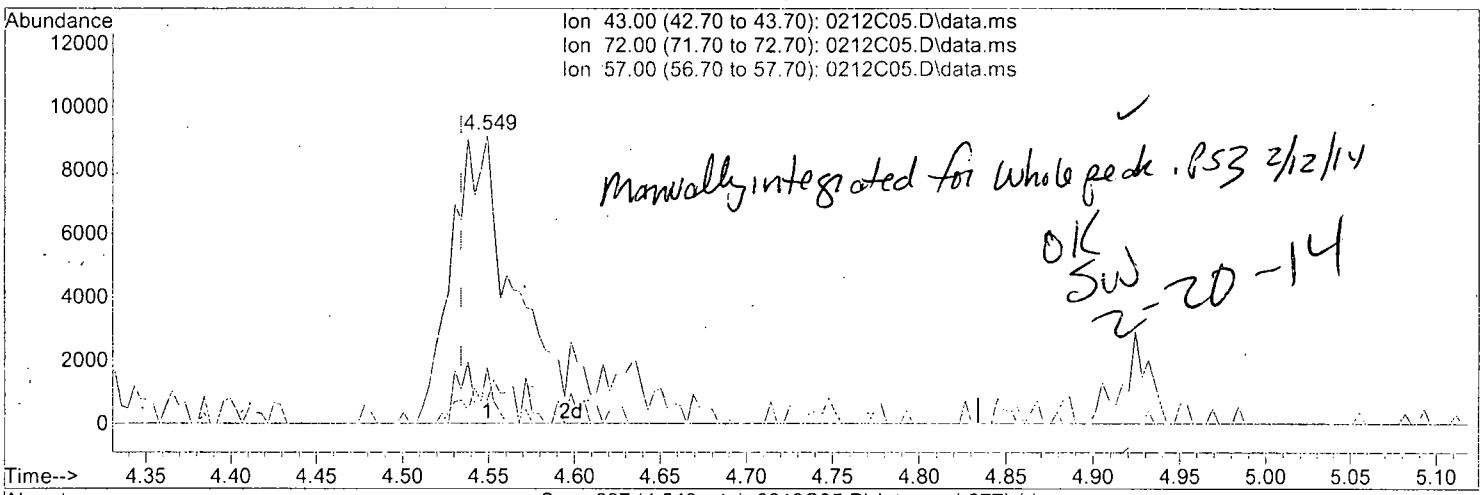
Ion	Exp%	Act%
43.00	100	100
72.00	18.60	12.00#
57.00	7.60	6.85
0.00	0.00	0.00

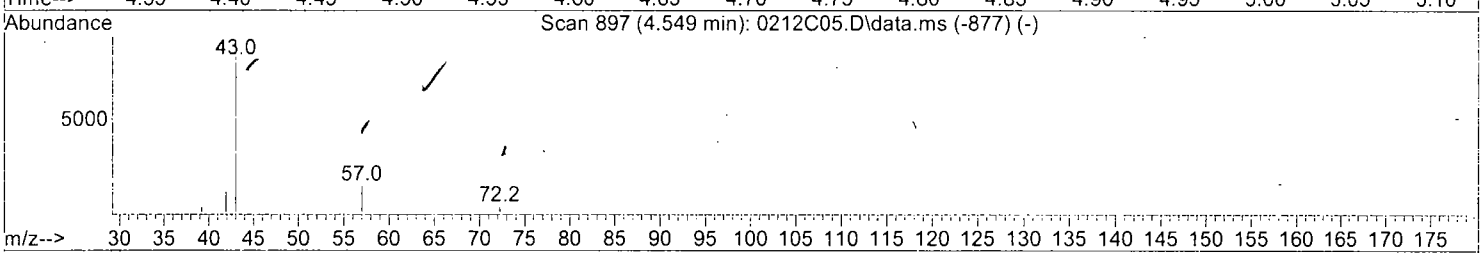
Freedom_0005792_0620

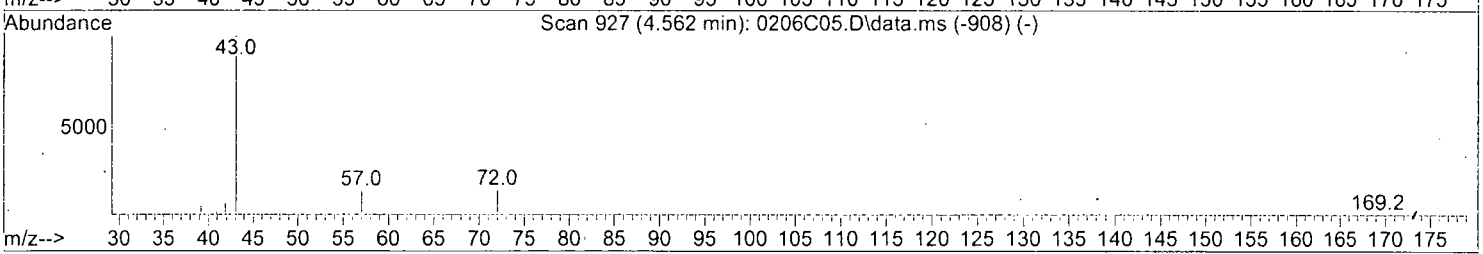
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C05.D
Acq On : 12 Feb 2014 11:21
Operator : PZ PZ1-AG5975
Sample : 5 ppb; 2.5uL - 100mL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 12 12:29:43 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:20:53 2014
Response via : Initial Calibration







TIC: 0212C05.D\data.ms

(18) 2-BUTANONE (TMCP)

4.549min (+0.015) 6.82 ug/L m

response 27541

Ion	Exp%	Act%
43.00	100	100
72.00	18.60	9.72#
57.00	7.60	5.54#
0.00	0.00	0.00

Freedom_0005792_0621

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212C10.D
Acq On : 12 Feb 2014 11:49
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 12 12:29:50 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:20:53 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.521	114	146039	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	123460	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.807	152	82568	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.494	65	89742	5.66	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery = 113.20%			
41) TOLUENE-d8	8.613	98	184948	5.50	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery = 110.00%#			
59) 4-BROMOFLUOROBENZENE	11.645	95	87354	5.16	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery = 103.20%			
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.303	85	141527	9.53	ug/L	96
3) CHLOROMETHANE	1.415	50	220283	16.06	ug/L	98
4) VINYL CHLORIDE	1.528	62	141378	12.82	ug/L	92
5) BROMOMETHANE	1.783	94	60737	9.50	ug/L	97
6) CHLOROETHANE	1.888	64	80776	11.96	ug/L	96
7) TRICHLOROFLUOROMETHANE	2.323	101	232365	9.84	ug/L	100
8) ACETONE	2.461	43	54640	15.03	ug/L #	74
9) 1,1-DICHLOROETHENE	2.802	96	65148	8.67	ug/L #	26
10) METHYLENE CHLORIDE	2.975	84	104139	9.00	ug/L #	47
11) Freon 113	3.057	101	102334	8.55	ug/L #	82
12) CARBON DISULFIDE	3.087	76	328830	10.01	ug/L	99
13) METHYL ACETATE	3.102	43	115264	13.35	ug/L #	87
14) TRANS-1,2-DICHLOROETHENE	3.691	96	93830	9.03	ug/L #	72
15) METHYL-TERT-BUTYL ETHER	3.874	73	239262	9.06	ug/L #	81
16) 1,1-DICHLOROETHANE	3.961	63	226970	9.74	ug/L	97
17) VINYL ACETATE	4.246	43	268846	14.99	ug/L #	90
18) 2-BUTANONE	4.534	43	67126	15.13	ug/L #	92
19) CIS-1,2-DICHLOROETHENE	4.609	96	105304	9.39	ug/L #	70
20) BROMOCHLOROMETHANE	4.778	128	48381	8.71	ug/L #	22
21) CHLOROFORM	4.864	83	206722	8.86	ug/L	97
22) 2,2-DICHLOROPROPANE	4.920	77	147405	9.57	ug/L	95
24) 1,2-DICHLOROETHANE	5.584	62	229817	10.88	ug/L #	94
25) 1,1,1-TRICHLOROETHANE	5.674	97	171576	9.15	ug/L #	87
26) 1,1-DICHLOROPROPENE	5.917	75	132512	8.66	ug/L	94
27) CYCLOHEXANE	5.962	56	261088	13.17	ug/L #	74
28) CARBON TETRACHLORIDE	6.071	117	152872	8.87	ug/L	98
29) BENZENE	6.146	78	428182	9.21	ug/L	97
30) DIBROMOMETHANE	6.787	93	68958	9.10	ug/L #	76
31) 1,2-DICHLOROPROPANE	6.851	63	129676	10.59	ug/L #	94
32) TRICHLOROETHENE	6.918	130	115528	8.65	ug/L #	86
33) BROMODICHLOROMETHANE	6.960	83	151960	8.95	ug/L	97
34) METHYLCYCLOHEXANE	7.484	83	179732	9.50	ug/L #	69
35) 2-CHLOROETHYLVINYL ETHER	7.608	63	74038	12.17	ug/L #	73
36) CIS-1,3-DICHLOROPROPENE	7.781	75	154046	9.54	ug/L	100
38) 4-METHYL-2-PENTANONE	7.994	43	132847	17.93	ug/L #	91
39) TRANS-1,3-DICHLOROPROPENE	8.332	75	137654	10.24	ug/L	98
40) 1,1,2-TRICHLOROETHANE	8.470	97	87955	9.17	ug/L	94
42) TOLUENE	8.699	92	252278	9.83	ug/L	98

Freedom_0005792_0622

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212C10.D
Acq On : 12 Feb 2014 11:49
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 12 12:29:50 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:20:53 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 1,3-DICHLOROPROPANE	8.766	76	179929	9.61 ug/L	99
44) CHLORODIBROMOMETHANE	9.010	129	96909	9.67 ug/L	97
45) 2-HEXANONE	9.078	43	86934	16.58 ug/L #	90
46) 1,2-DIBROMOETHANE (EDB)	9.295	107	88253	9.37 ug/L	100
47) TETRACHLOROETHENE	9.554	164	81918	9.96 ug/L	94
48) 1,1,1,2-TETRACHLOROETHANE	10.292	131	97252	10.45 ug/L	93
49) CHLOROBENZENE	10.371	112	279349	10.08 ug/L	94
50) ETHYLBENZENE	10.656	91	499018	10.25 ug/L	96
51) BROMOFORM	10.869	173	59047	9.34 ug/L	94
52) M-XYLENE/P-XYLENE	10.884	106	379969	20.92 ug/L	83
53) STYRENE	11.207	104	676139	23.10 ug/L	94
54) O-XYLENE	11.278	106	449009	22.89 ug/L	91
55) ISOPROPYLBENZENE	11.649	105	528829	10.27 ug/L	95
57) 1,1,2,2-TETRACHLOROETHANE	11.259	83	72428	8.44 ug/L	96
58) 1,2,3-TRICHLOROPROPANE	11.398	75	96971	7.81 ug/L	99
60) BROMOBENZENE	11.799	156	119905	9.00 ug/L #	76
61) N-PROPYLBENZENE	12.062	91	698112	9.89 ug/L	95
62) 2-CHLOROTOLUENE	12.103	91	417124	9.62 ug/L	91
63) 4-CHLOROTOLUENE	12.181	91	447044	9.65 ug/L	89
64) 1,3,5-TRIMETHYLBENZENE	12.361	105	459486	10.03 ug/L	94
65) TERT-BUTYLBENZENE	12.568	119	388423	10.15 ug/L	86
66) 1,2,4-TRIMETHYLBENZENE	12.680	105	485984	10.23 ug/L	96
67) SEC-BUTYLBENZENE	12.755	105	661987	10.21 ug/L	96
68) 1,3-DICHLOROBENZENE	12.766	146	269915	9.12 ug/L	96
69) 1,4-DICHLOROBENZENE	12.830	146	273240	9.06 ug/L	95
70) P-ISOPROPYLTOLUENE	12.935	119	516952	10.20 ug/L	95
71) 1,2-DICHLOROBENZENE	13.111	146	253905	9.37 ug/L	95
72) N-BUTYLBENZENE	13.265	91	563907	10.37 ug/L	97
73) 1,2-DIBROMO-3-CHLOROPR...	13.493	75	18508	8.65 ug/L #	70
74) 1,2,4-TRICHLOROBENZENE	14.554	180	184699	9.31 ug/L #	92
75) NAPHTHALENE	14.731	128	362105	9.33 ug/L	99
76) HEXACHLOROBUTADIENE	14.806	225	106285	8.97 ug/L #	79
77) 1,2,3-TRICHLOROBENZENE	14.880	180	187337	9.66 ug/L #	93

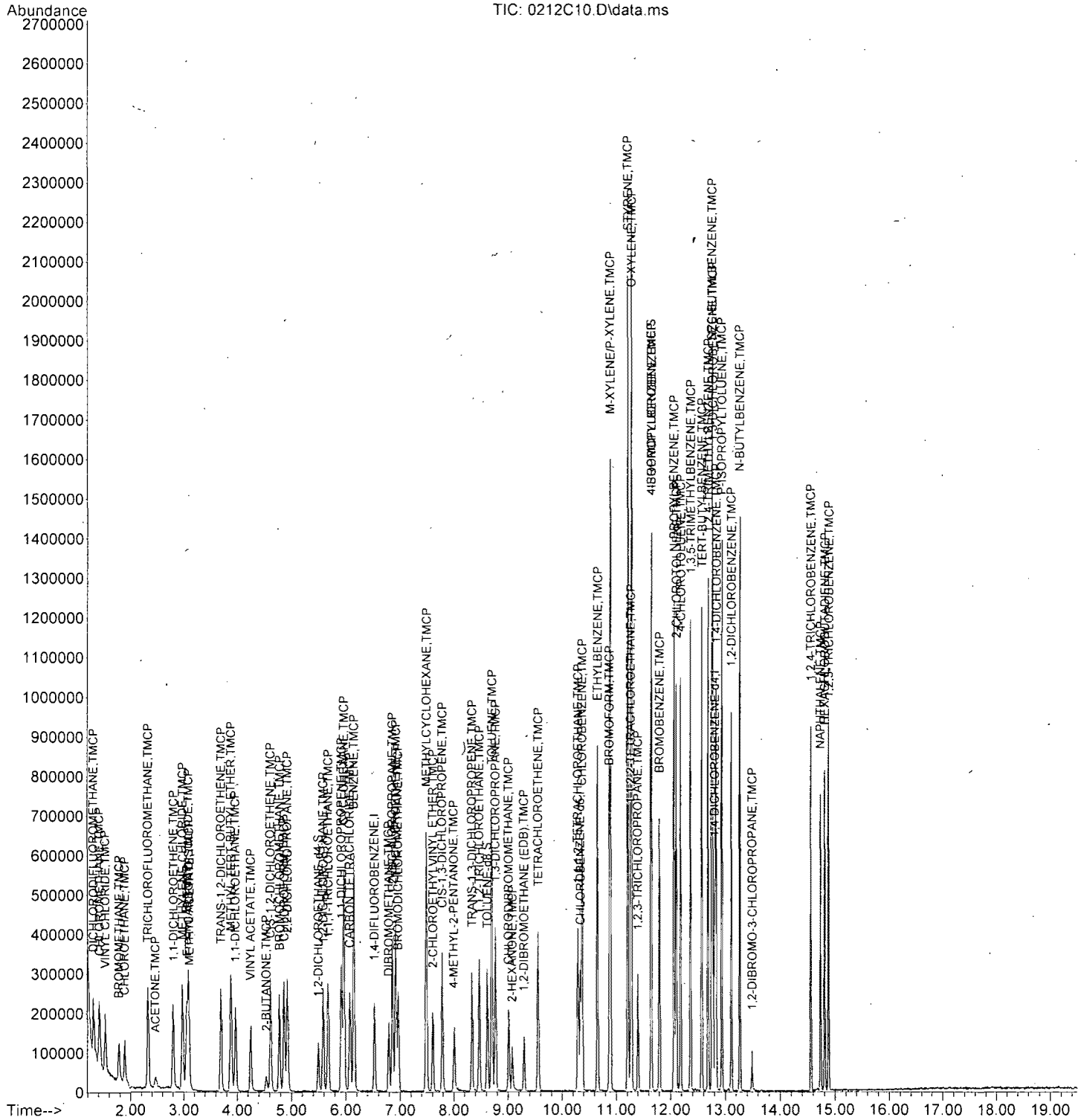
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0623

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212C10.D
Acq On : 12 Feb 2014 11:49
Operator : PZ PZ1-AG5975
Sample : 10 ppb; 5uL - 100mL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 12 12:29:50 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 11:20:53 2014
Response via : Initial Calibration



Freedom_0005792_0624

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212C20.D
Acq On : 12 Feb 2014 12:17
Operator : PZ PZ1-AG5975
Sample : 20 ppb; 10uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 12 12:42:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 12:34:12 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.521	114	151575	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	133199	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.808	152	93597	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.498	65	89610	4.99	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery = 99.80%			
41) TOLUENE-d8	8.617	98	194372	5.29	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery = 105.80%			
59) 4-BROMOFLUOROBENZENE	11.646	95	90848	4.72	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery = 94.40%			
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.307	85	264897	17.43	ug/L	99
3) CHLOROMETHANE	1.419	50	420298	22.30	ug/L	100
4) VINYL CHLORIDE	1.528	62	265405	20.19	ug/L	93
5) BROMOMETHANE	1.783	94	117724	17.87	ug/L	97
6) CHLOROETHANE	1.888	64	149430	19.14	ug/L	95
7) TRICHLOROFLUOROMETHANE	2.323	101	438351	17.79	ug/L	98
8) ACETONE	2.473	43	98623	18.88	ug/L #	85
9) 1,1-DICHLOROETHENE	2.803	96	142369	18.99	ug/L #	27
10) METHYLENE CHLORIDE	2.975	84	217197	18.52	ug/L #	47
11) Freon 113	3.057	101	219315	18.53	ug/L #	83
12) CARBON DISULFIDE	3.091	76	642460	18.54	ug/L	99
13) METHYL ACETATE	3.106	43	248228m	23.34	ug/L	
14) TRANS-1,2-DICHLOROETHENE	3.691	96	205966	19.73	ug/L #	70
15) METHYL-TERT-BUTYL ETHER	3.875	73	535102	20.23	ug/L #	82
16) 1,1-DICHLOROETHANE	3.965	63	517733	20.63	ug/L #	95
17) VINYL ACETATE	4.246	43	560741	24.93	ug/L #	92
18) 2-BUTANONE	4.534	43	133414	23.92	ug/L	93
19) CIS-1,2-DICHLOROETHENE	4.613	96	229621	20.55	ug/L #	72
20) BROMOCHLOROMETHANE	4.782	128	105326	18.96	ug/L #	27
21) CHLOROFORM	4.861	83	450358	19.29	ug/L	99
22) 2,2-DICHLOROPROPANE	4.928	77	318108	19.95	ug/L	95
24) 1,2-DICHLOROETHANE	5.584	62	488467	20.91	ug/L #	96
25) 1,1,1-TRICHLOROETHANE	5.678	97	374138	19.71	ug/L #	87
26) 1,1-DICHLOROPROPENE	5.918	75	306259	20.32	ug/L #	93
27) CYCLOHEXANE	5.966	56	615569	26.46	ug/L #	73
28) CARBON TETRACHLORIDE	6.075	117	337132	19.35	ug/L	97
29) BENZENE	6.146	78	911447	19.93	ug/L	97
30) DIBROMOMETHANE	6.787	93	144354	18.94	ug/L #	80
31) 1,2-DICHLOROPROPANE	6.855	63	279665	21.18	ug/L #	96
32) TRICHLOROETHENE	6.915	130	254095	19.49	ug/L #	85
33) BROMODICHLOROMETHANE	6.964	83	334937	19.50	ug/L	98
34) METHYLCYCLOHEXANE	7.485	83	412594	21.86	ug/L #	66
35) 2-CHLOROETHYLVINYL ETHER	7.605	63	160521	23.83	ug/L #	77
36) CIS-1,3-DICHLOROPROPENE	7.784	75	355859	21.60	ug/L	100
38) 4-METHYL-2-PENTANONE	7.998	43	275029	25.85	ug/L #	91
39) TRANS-1,3-DICHLOROPROPENE	8.332	75	326783	22.60	ug/L	99
40) 1,1,2-TRICHLOROETHANE	8.467	97	193945	19.84	ug/L	96
42) TOLUENE	8.699	92	555204	20.64	ug/L	100

Freedom_0005792_0625

Data Path : D:\DATA\L02122014\
Data File : 0212C20.D
Acq On : 12 Feb 2014 12:17
Operator : PZ PZ1-AG5975
Sample : 20 ppb; 10uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 12 12:42:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 12:34:12 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 1,3-DICHLOROPROPANE	8.767	76	388703	19.80 ug/L	99
44) CHLORODIBROMOMETHANE	9.014	129	216097	20.69 ug/L	96
45) 2-HEXANONE	9.078	43	189134	26.31 ug/L #	89
46) 1,2-DIBROMOETHANE (EDB)	9.299	107	195621	20.21 ug/L #	99
47) TETRACHLOROETHENE	9.554	164	179592	20.95 ug/L	93
48) 1,1,1,2-TETRACHLOROETHANE	10.292	131	206119	20.72 ug/L	97
49) CHLOROBENZENE	10.371	112	610792	20.93 ug/L	93
50) ETHYLBENZENE	10.656	91	1136540	22.47 ug/L	96
51) BROMOFORM	10.873	173	136697	20.95 ug/L	97
52) M-XYLENE/P-XYLENE	10.888	106	872080	46.85 ug/L	88
53) STYRENE	11.211	104	1453483	47.05 ug/L	95
54) O-XYLENE	11.274	106	906306	42.87 ug/L	87
55) ISOPROPYLBENZENE	11.649	105	1221207	22.81 ug/L	95
57) 1,1,2,2-TETRACHLOROETHANE	11.263	83	139927	15.15 ug/L	99
58) 1,2,3-TRICHLOROPROPANE	11.402	75	216006	16.29 ug/L	97
60) BROMOBENZENE	11.799	156	268136	18.44 ug/L #	75
61) N-PROPYLBENZENE	12.062	91	1607665	20.90 ug/L	94
62) 2-CHLOROTOLUENE	12.103	91	921684	19.42 ug/L	89
63) 4-CHLOROTOLUENE	12.182	91	995477	19.65 ug/L	90
64) 1,3,5-TRIMETHYLBENZENE	12.362	105	1066178	21.39 ug/L	95
65) TERT-BUTYLBENZENE	12.564	119	898719	21.46 ug/L	87
66) 1,2,4-TRIMETHYLBENZENE	12.684	105	1125707	21.83 ug/L	93
67) SEC-BUTYLBENZENE	12.755	105	1504127	21.15 ug/L	96
68) 1,3-DICHLOROBENZENE	12.766	146	596333	18.40 ug/L	96
69) 1,4-DICHLOROBENZENE	12.830	146	606395	18.33 ug/L	95
70) P-ISOPROPYLTOLUENE	12.935	119	1188685	21.63 ug/L	95
71) 1,2-DICHLOROBENZENE	13.111	146	559612	19.06 ug/L	95
72) N-BUTYLBENZENE	13.265	91	1327636	22.39 ug/L	96
73) 1,2-DIBROMO-3-CHLOROPR...	13.490	75	43533	18.32 ug/L #	74
74) 1,2,4-TRICHLOROBENZENE	14.555	180	437747	20.40 ug/L #	95
75) NAPHTHALENE	14.731	128	908508	22.47 ug/L	100
76) HEXACHLOROBUTADIENE	14.806	225	263265	20.49 ug/L #	83
77) 1,2,3-TRICHLOROBENZENE	14.877	180	440831	21.10 ug/L #	94

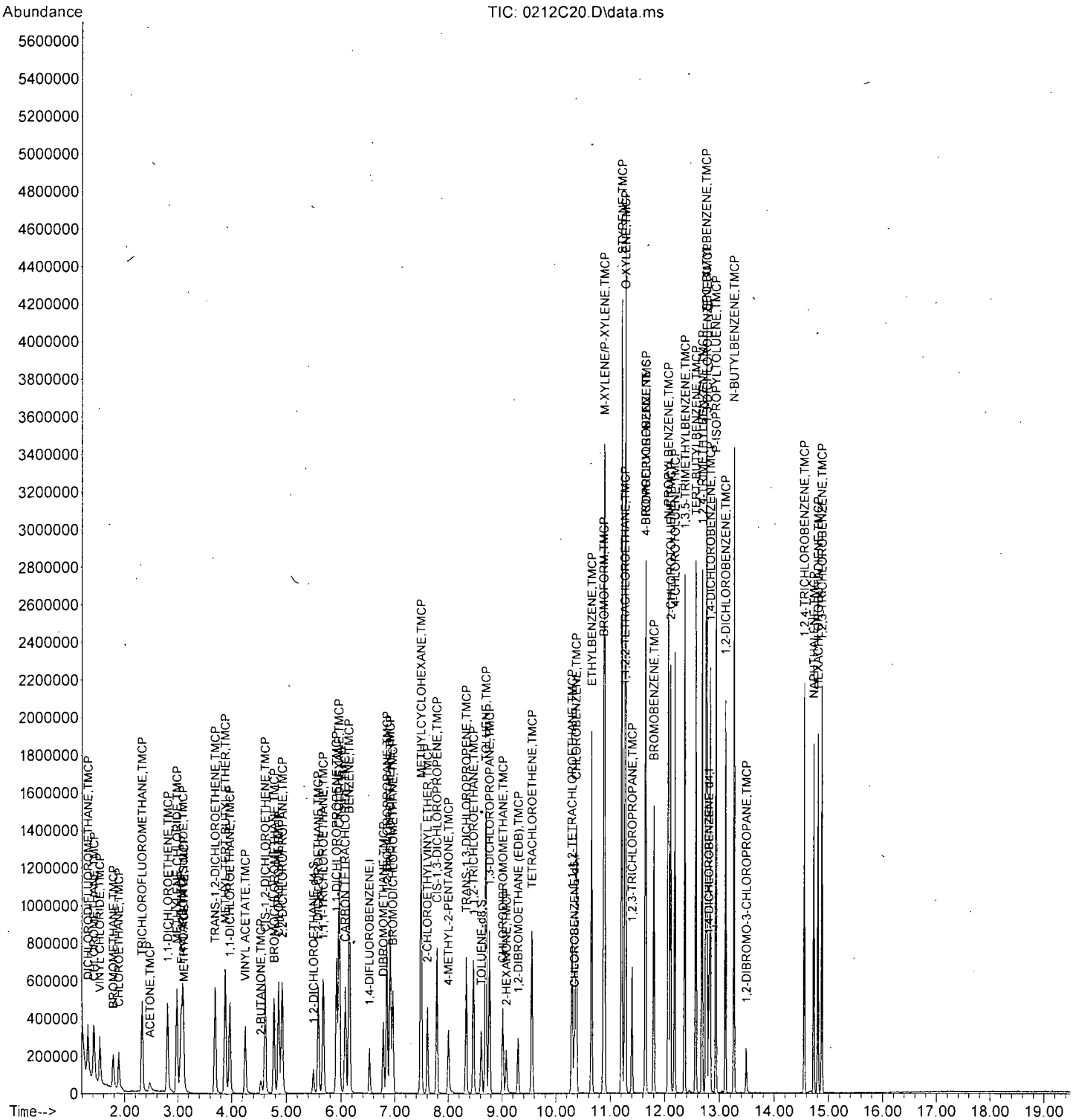
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0626

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212C20.D
Acq On : 12 Feb 2014 12:17
Operator : PZ PZ1-AG5975
Sample : 20 ppb; 10uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 12 12:42:38 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 12:34:12 2014
Response via : Initial Calibration

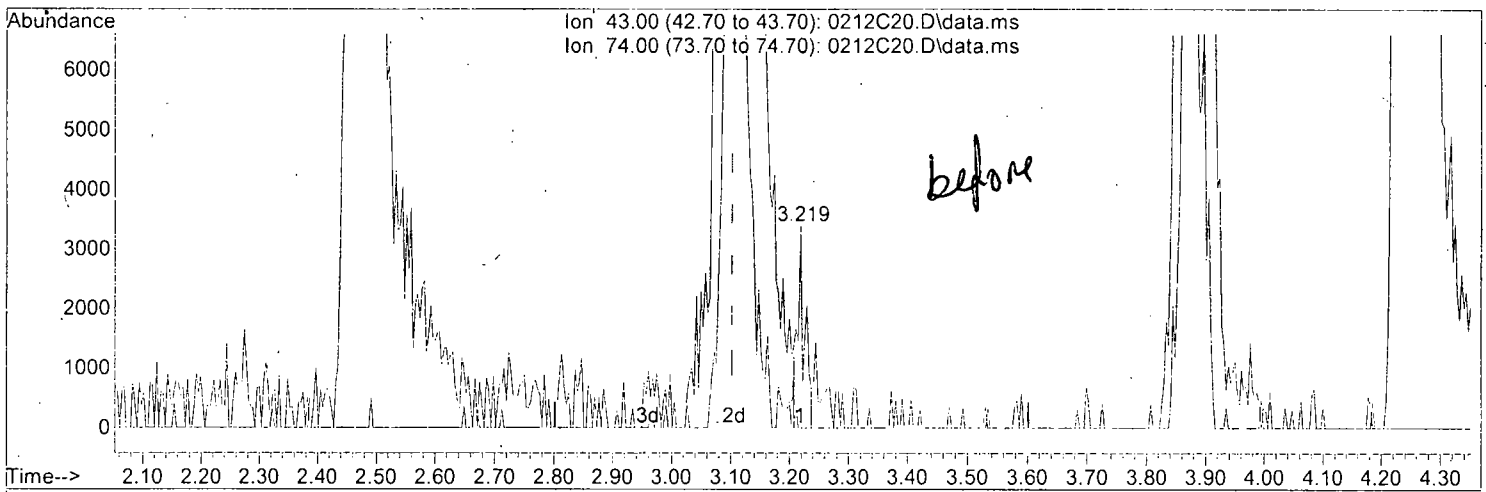


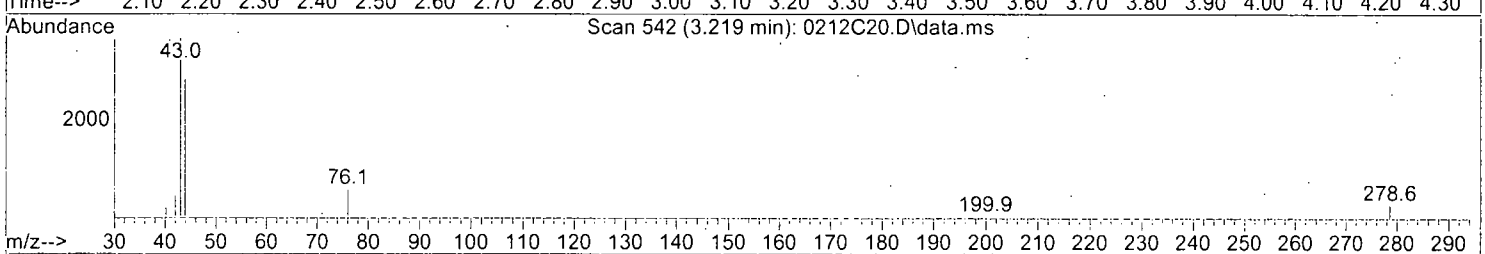
Freedom_0005792_0627

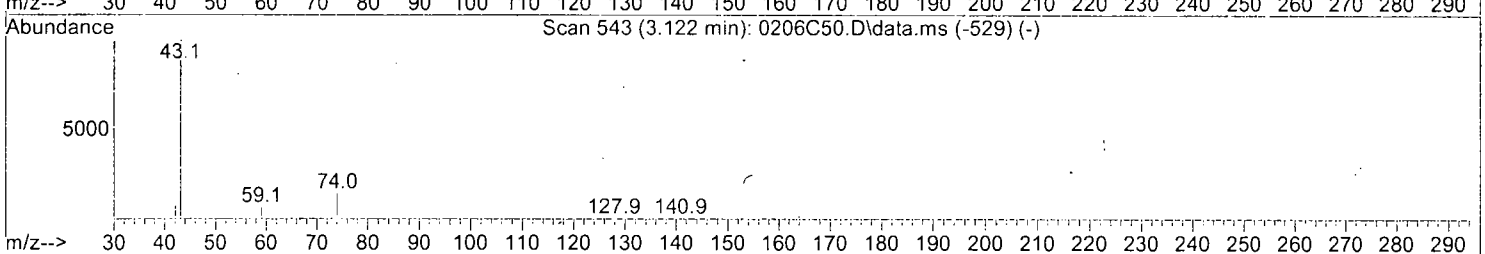
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C20.D
Acq On : 12 Feb 2014 12:17
Operator : PZ PZ1-AG5975
Sample : 20 ppb; 10uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 12 12:42:05 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 12:34:12 2014
Response via : Initial Calibration







TIC: 0212C20.D\data.ms

(13) METHYL ACETATE (TMCP)

3.219min (+0.116) 0.26 ug/L

response 2791

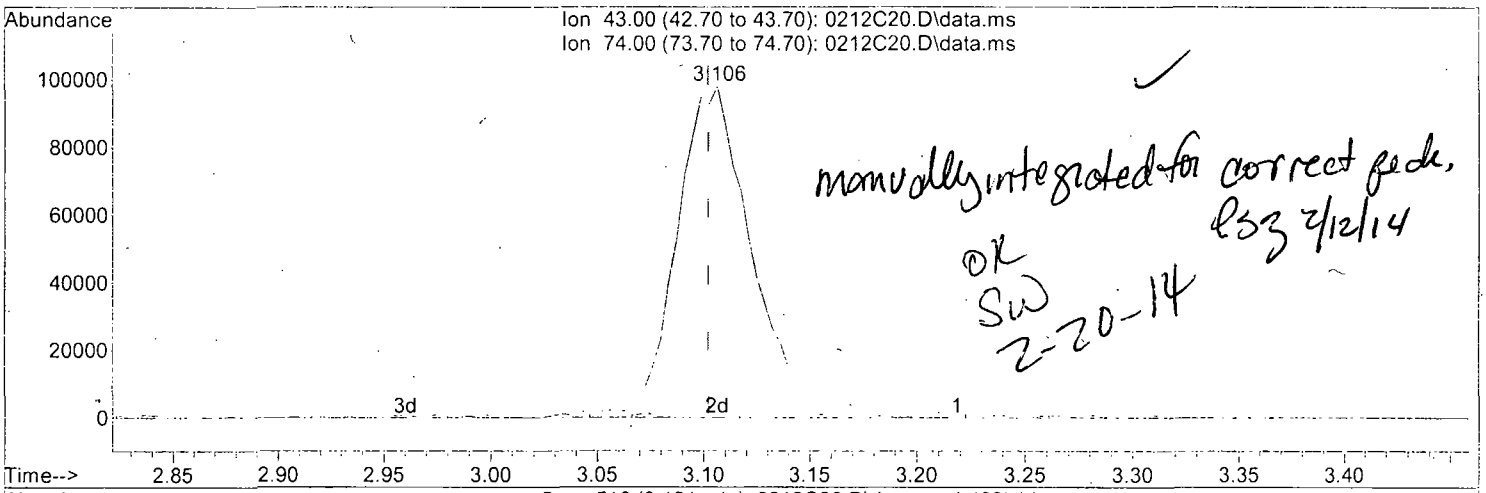
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	20.96
0.00	0.00	0.00
0.00	0.00	0.00

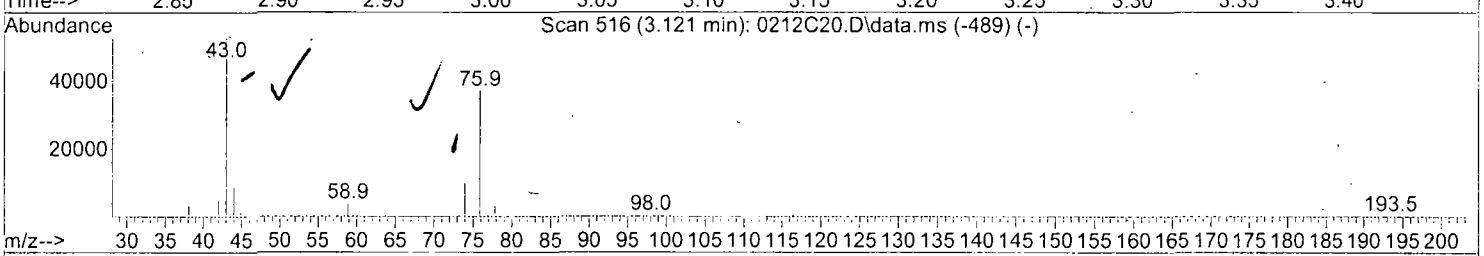
Freedom_0005792_0628

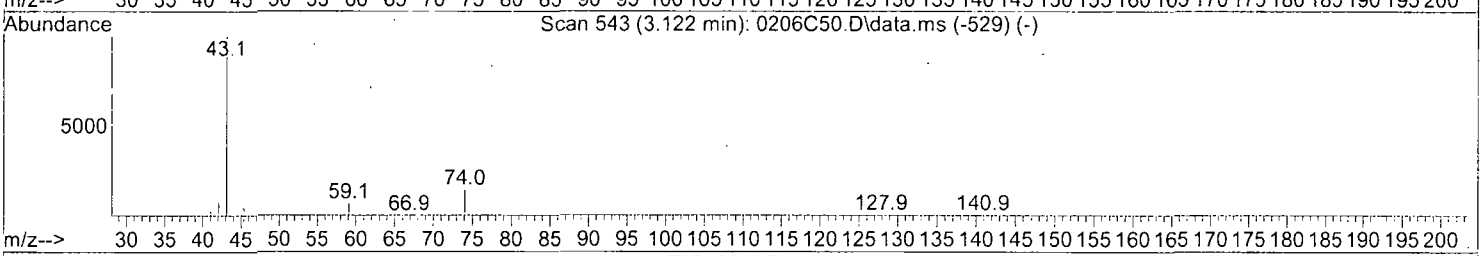
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C20.D
Acq On : 12 Feb 2014 12:17
Operator : PZ PZ1-AG5975
Sample : 20 ppb; 10uL - 100mL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 12 12:42:05 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 12:34:12 2014
Response via : Initial Calibration







TIC: 0212C20.D\data.ms

(13) METHYL ACETATE (TMCP)

3.106min (+0.004) 23.34 ug/L m

response 248228

Ion	Exp%	Act%
43.00	100	100
74.00	18.50	0.24#
0.00	0.00	0.00
0.00	0.00	0.00

Freedom_0005792_0629

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212C50.D
Acq On : 12 Feb 2014 12:44
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 12 13:22:28 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 12:45:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	6.525	114	169184	5.00	ug/L	0.00
37) CHLOROBENZENE-d5	10.337	117	155606	5.00	ug/L	0.00
56) 1,4-DICHLOROBENZENE-d4	12.807	152	96482	5.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-DICHLOROETHANE-d4	5.501	65	95579m	4.63	ug/L	0.00
Spiked Amount 5.000	Range 76 - 114		Recovery = 92.60%			
41) TOLUENE-d8	8.616	98	211532	4.85	ug/L	0.00
Spiked Amount 5.000	Range 88 - 110		Recovery = 97.00%			
59) 4-BROMOFLUOROBENZENE	11.645	95	102899	5.24	ug/L	0.00
Spiked Amount 5.000	Range 86 - 115		Recovery = 104.80%			
Target Compounds						Qvalue
2) DICHLORODIFLUOROMETHANE	1.303	85	776551	47.23	ug/L	100
3) CHLOROMETHANE	1.419	50	1204343	51.31	ug/L	100
4) VINYL CHLORIDE	1.528	62	779082	50.77	ug/L	93
5) BROMOMETHANE	1.783	94	325476	44.70	ug/L	98
6) CHLOROETHANE	1.891	64	425606	47.39	ug/L	91
7) TRICHLOROFLUOROMETHANE	2.326	101	1229890	45.22	ug/L	100
8) ACETONE	2.465	43	285267	48.01	ug/L #	79
9) 1,1-DICHLOROETHENE	2.799	96	399571	47.53	ug/L #	29
10) METHYLENE CHLORIDE	2.971	84	589249	45.12	ug/L #	43
11) Freon 113	3.053	101	605873	45.99	ug/L #	82
12) CARBON DISULFIDE	3.087	76	1823899	47.65	ug/L	99
13) METHYL ACETATE	3.098	43	705015m	53.79	ug/L	
14) TRANS-1,2-DICHLOROETHENE	3.695	96	570371	48.75	ug/L #	67
15) METHYL-TERT-BUTYL ETHER	3.878	73	1536252	52.18	ug/L #	83
16) 1,1-DICHLOROETHANE	3.964	63	1425997	48.81	ug/L #	96
17) VINYL ACETATE	4.246	43	1693541	62.00	ug/L #	92
18) 2-BUTANONE	4.530	43	414677	60.78	ug/L #	86
19) CIS-1,2-DICHLOROETHENE	4.609	96	638592	51.17	ug/L #	70
20) BROMOCHLOROMETHANE	4.774	128	290925	47.05	ug/L #	29
21) CHLOROFORM	4.857	83	1230862	47.06	ug/L	100
22) 2,2-DICHLOROPROPANE	4.924	77	925650	51.55	ug/L	95
24) 1,2-DICHLOROETHANE	5.584	62	1307270	47.76	ug/L #	97
25) 1,1,1-TRICHLOROETHANE	5.674	97	1072914	50.42	ug/L #	87
26) 1,1-DICHLOROPROPENE	5.914	75	906108	53.78	ug/L	94
27) CYCLOHEXANE	5.962	56	1752854	61.65	ug/L #	72
28) CARBON TETRACHLORIDE	6.075	117	977232	49.92	ug/L	97
29) BENZENE	6.146	78	2544975	49.75	ug/L	99
30) DIBROMOMETHANE	6.787	93	401081	47.32	ug/L #	79
31) 1,2-DICHLOROPROPANE	6.851	63	796027	51.76	ug/L #	95
32) TRICHLOROETHENE	6.915	130	757533	52.48	ug/L	89
33) BROMODICHLOROMETHANE	6.963	83	961586	50.04	ug/L	99
34) METHYLCYCLOHEXANE	7.484	83	1223441	57.91	ug/L #	68
36) CIS-1,3-DICHLOROPROPENE	7.781	75	1036747	55.97	ug/L	99
38) 4-METHYL-2-PENTANONE	7.998	43	854443	61.00	ug/L #	92
39) TRANS-1,3-DICHLOROPROPENE	8.332	75	1001896	58.13	ug/L	99
40) 1,1,2-TRICHLOROETHANE	8.470	97	544756	47.44	ug/L	97
42) TOLUENE	8.699	92	1568052	49.29	ug/L	99
43) 1,3-DICHLOROPROPANE	8.766	76	1089320	47.03	ug/L	99

Freedom_0005792_0630

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212C50.D
Acq On : 12 Feb 2014 12:44
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 12 13:22:28 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 12:45:04 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	CHLORODIBROMOMETHANE	9.010	129	629334	51.22	ug/L	95
45)	2-HEXANONE	9.078	43	609352	64.78	ug/L #	92
46)	1,2-DIBROMOETHANE (EDB)	9.295	107	548604	48.43	ug/L	97
47)	TETRACHLOROETHENE	9.554	164	507567	50.18	ug/L	92
48)	1,1,1,2-TETRACHLOROETHANE	10.296	131	610195	51.66	ug/L	98
49)	CHLOROBENZENE	10.375	112	1732382	50.14	ug/L	94
50)	ETHYLBENZENE	10.656	91	3380789	56.59	ug/L	95
51)	BROMOFORM	10.873	173	440585	57.71	ug/L	94
52)	M-XYLENE/P-XYLENE	10.888	106	2429684	110.15	ug/L	84
53)	STYRENE	11.211	104	4156632	114.42	ug/L	95
54)	O-XYLENE	11.278	106	2522625	101.70	ug/L	84
55)	ISOPROPYLBENZENE	11.649	105	3552563	56.06	ug/L	94
57)	1,1,2,2-TETRACHLOROETHANE	11.263	83	356499	38.44	ug/L	99
58)	1,2,3-TRICHLOROPROPANE	11.402	75	616404	46.09	ug/L	97
60)	BROMOBENZENE	11.803	156	760732	51.24	ug/L #	75
61)	N-PROPYLBENZENE	12.061	91	4638925	58.84	ug/L	95
62)	2-CHLOROTOLUENE	12.103	91	2608137	53.57	ug/L	90
63)	4-CHLOROTOLUENE	12.181	91	2883813	55.54	ug/L	89
64)	1,3,5-TRIMETHYLBENZENE	12.361	105	3179264	62.21	ug/L	94
65)	TERT-BUTYLBENZENE	12.568	119	2654447	61.99	ug/L	87
66)	1,2,4-TRIMETHYLBENZENE	12.684	105	3311610	62.52	ug/L	94
67)	SEC-BUTYLBENZENE	12.755	105	4325376	59.34	ug/L	95
68)	1,3-DICHLOROBENZENE	12.766	146	1677526	50.46	ug/L	97
69)	1,4-DICHLOROBENZENE	12.830	146	1725992	50.73	ug/L	97
70)	P-ISOPROPYLTOLUENE	12.935	119	3584641	63.78	ug/L	96
71)	1,2-DICHLOROBENZENE	13.111	146	1623515	53.94	ug/L	96
72)	N-BUTYLBENZENE	13.265	91	3966556	65.35	ug/L	96
73)	1,2-DIBROMO-3-CHLOROPR...	13.490	75	147745	61.74	ug/L #	79
74)	1,2,4-TRICHLOROBENZENE	14.554	180	1341417	61.42	ug/L #	96
75)	NAPHTHALENE	14.730	128	2854950	70.58	ug/L	99
76)	HEXACHLOROBUTADIENE	14.809	225	831502	63.49	ug/L #	86
77)	1,2,3-TRICHLOROBENZENE	14.877	180	1312401	61.55	ug/L #	95

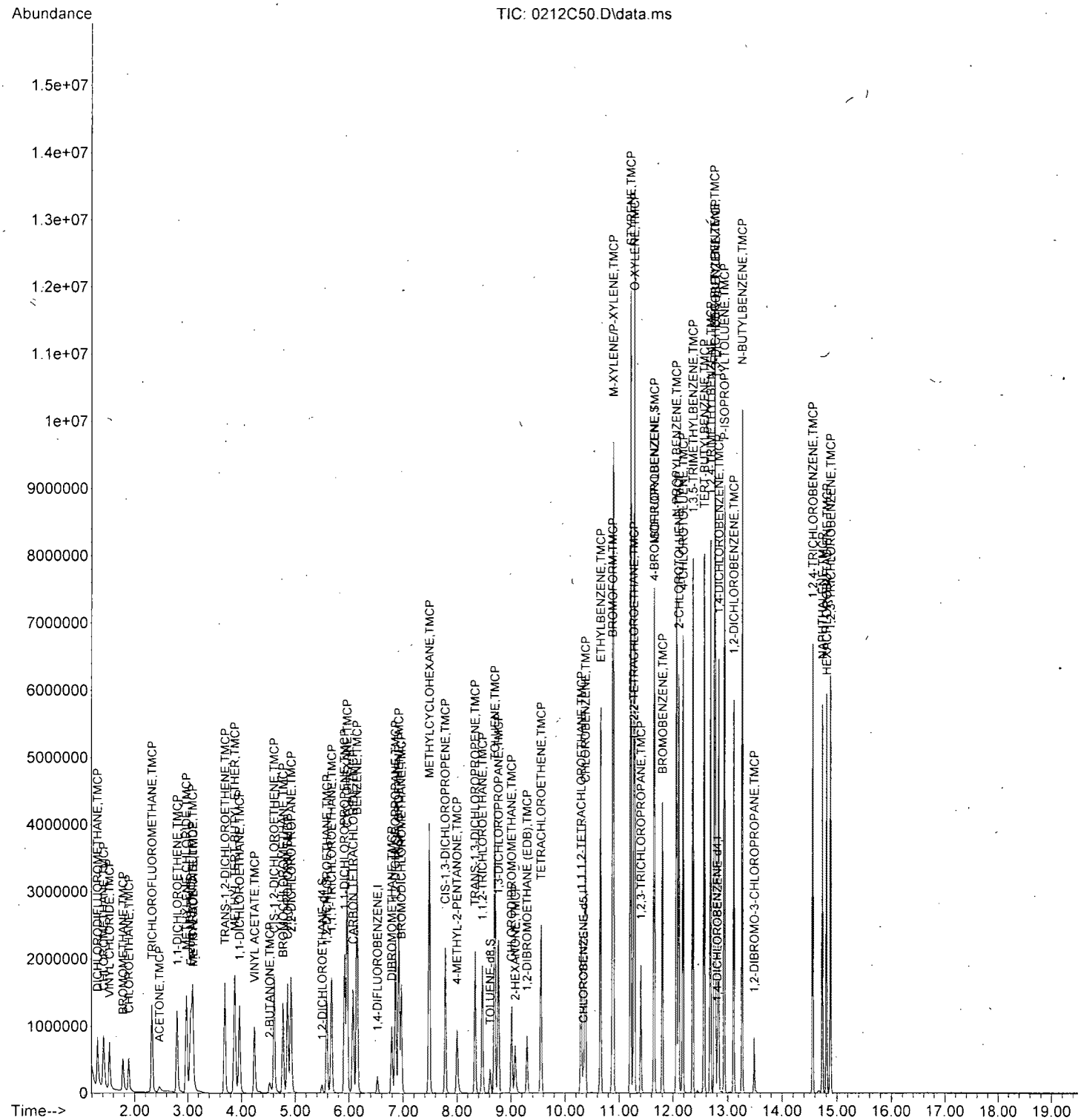
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Freedom_0005792_0631

Quantitation Report (QT Reviewed)

Data Path : D:\DATA\L02122014\
Data File : 0212C50.D
Acq On : 12 Feb 2014 12:44
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 12 13:22:28 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 12:45:04 2014
Response via : Initial Calibration

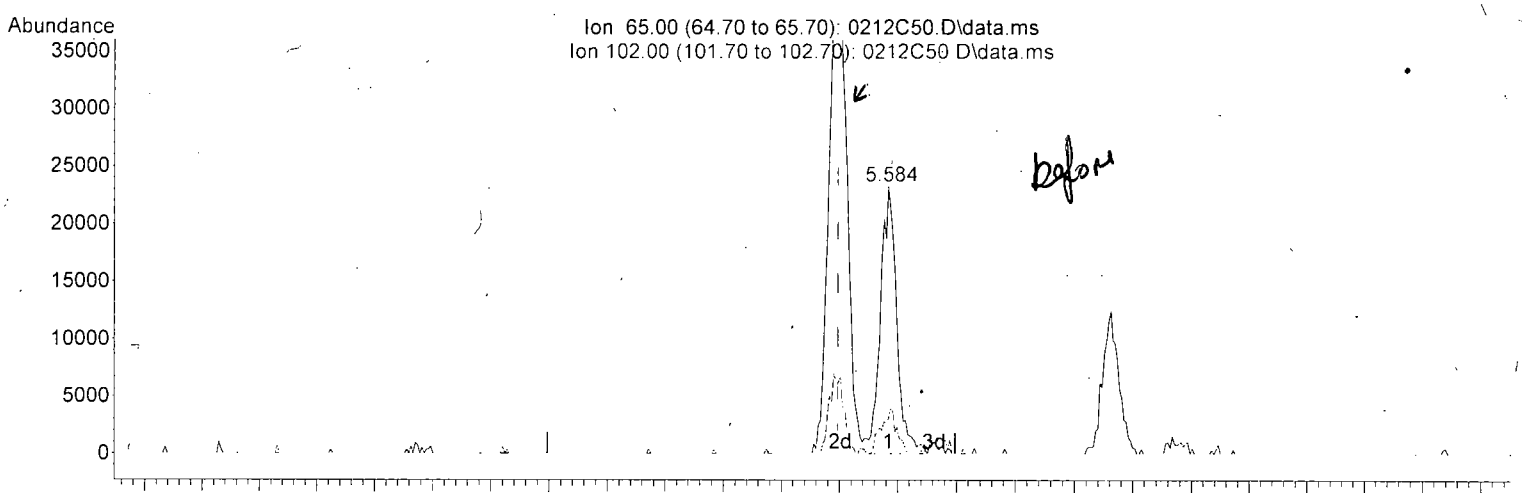


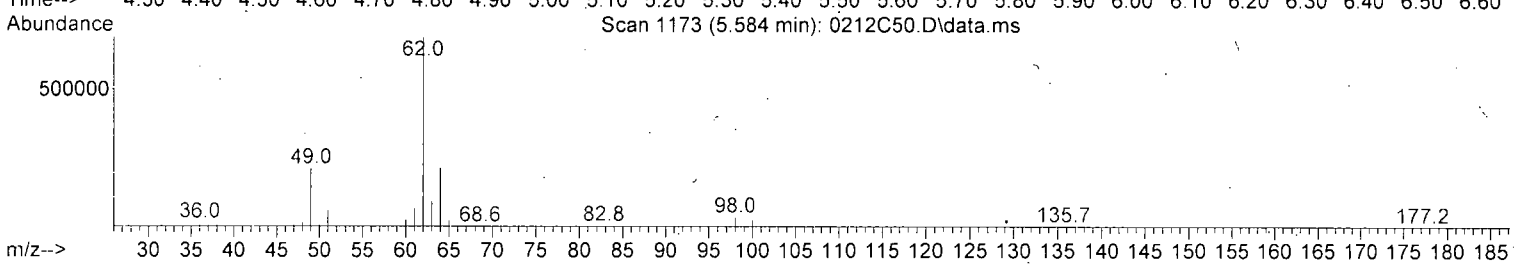
Freedom_0005792_0632

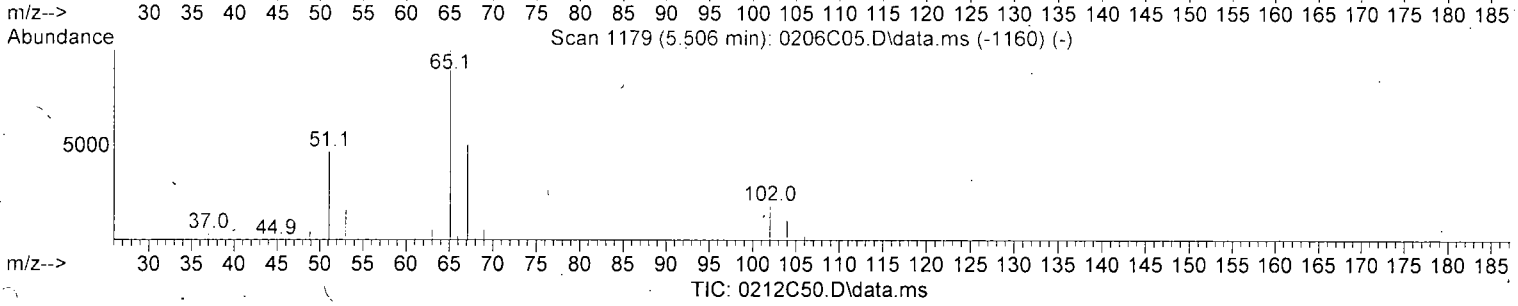
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C50.D
Acq On : 12 Feb 2014 12:44
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 12 13:21:11 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 12:45:04 2014
Response via : Initial Calibration







TIC: 0212C50.D\data.ms

(23) 1,2-DICHLOROETHANE-d4 (S)

5.584min (+0.086) 2.21 ug/L

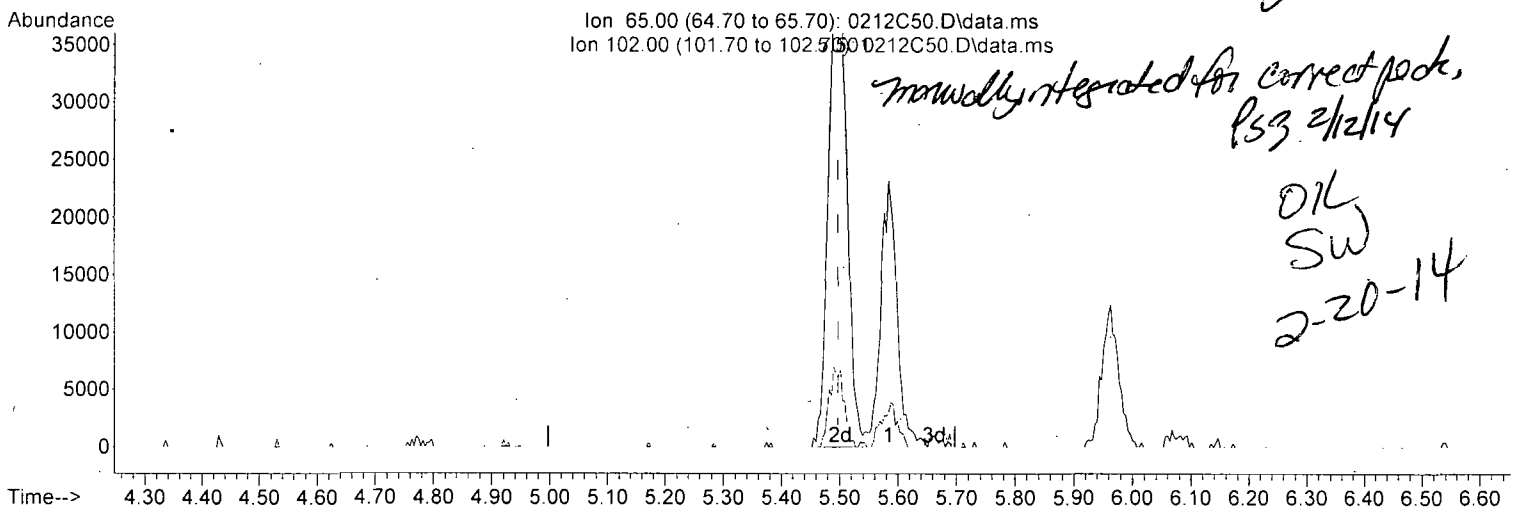
response 45628

Ion	Exp%	Act%
65.00	100	100
102.00	17.50	15.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

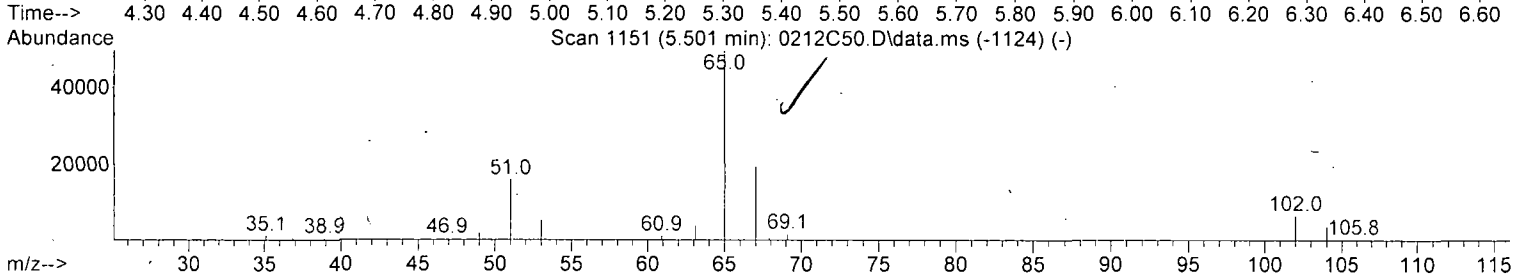
Data Path : D:\DATA\L02122014\
Data File : 0212C50.D
Acq On : 12 Feb 2014 12:44
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

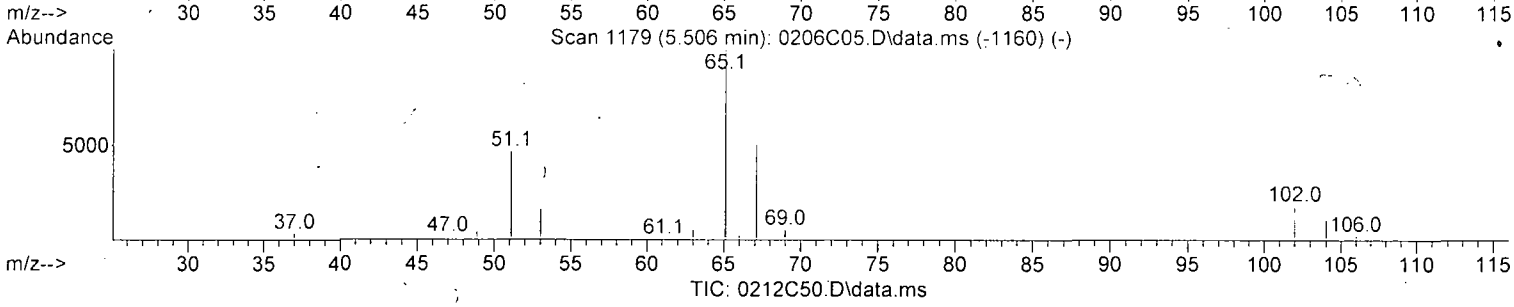
Quant Time: Feb 12 13:21:11 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 12:45:04 2014
Response via : Initial Calibration



manually integrated for correct peak, PSZ 2/12/14

OK SW 2-20-14





(23) 1,2-DICHLOROETHANE-d4 (S)

5.501min (+0.004) 4.63 ug/L m

response 95579

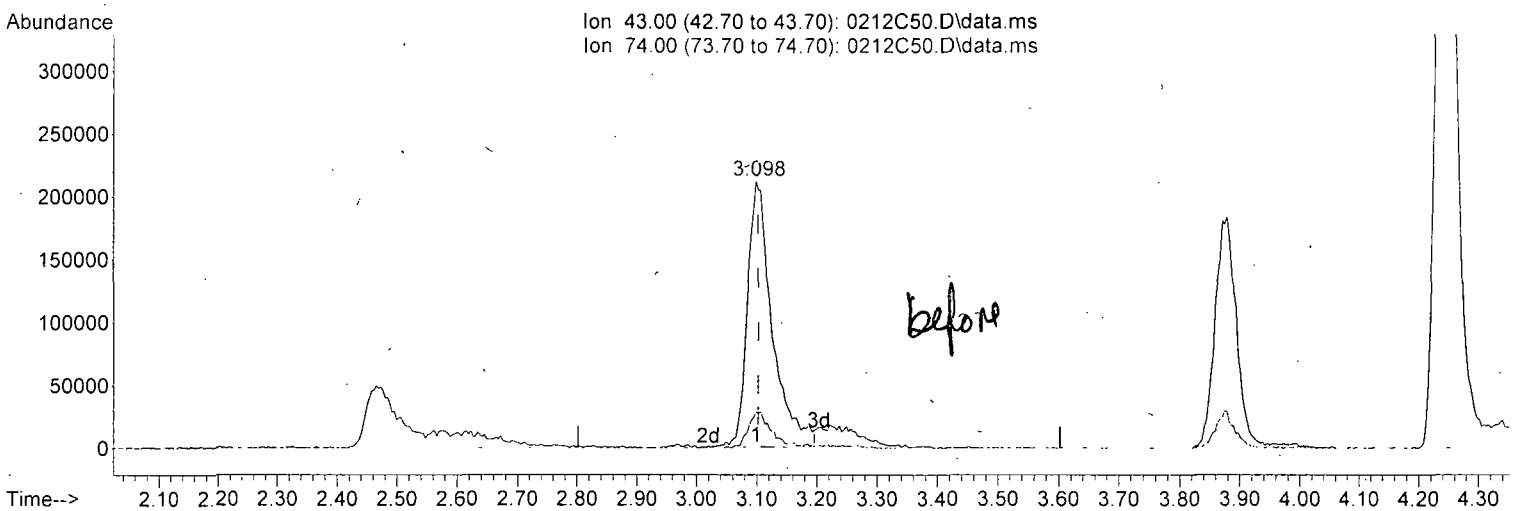
Ion	Exp%	Act%
65.00	100	100
102.00	17.50	7.63#
0.00	0.00	0.00
0.00	0.00	0.00

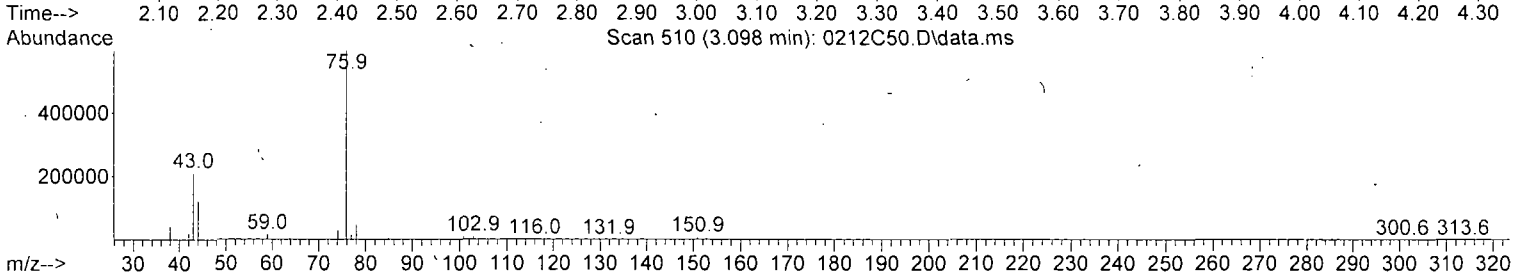
Freedom_0005792_0634

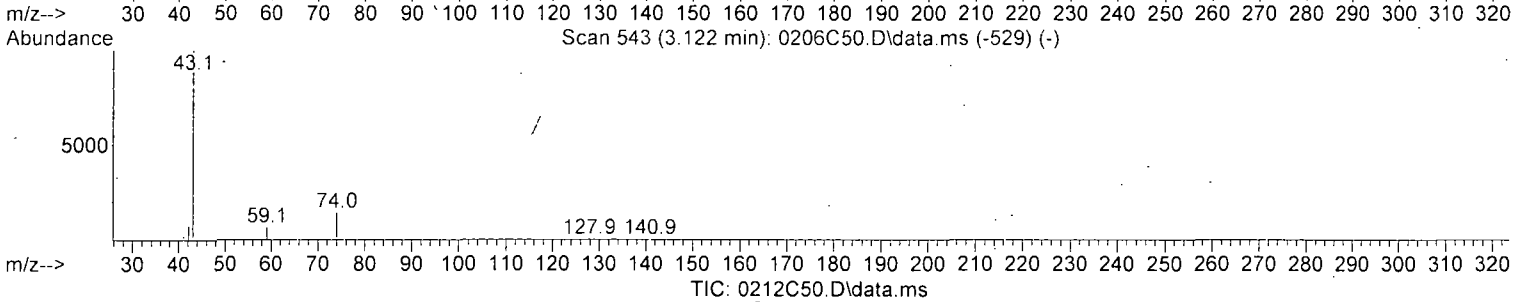
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C50.D
Acq On : 12 Feb 2014 12:44
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 12 13:21:11 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 12:45:04 2014
Response via : Initial Calibration







TIC: 0212C50.D\data.ms

(13) METHYL ACETATE (TMCP)

3.098min (-0.004) 46.50 ug/L

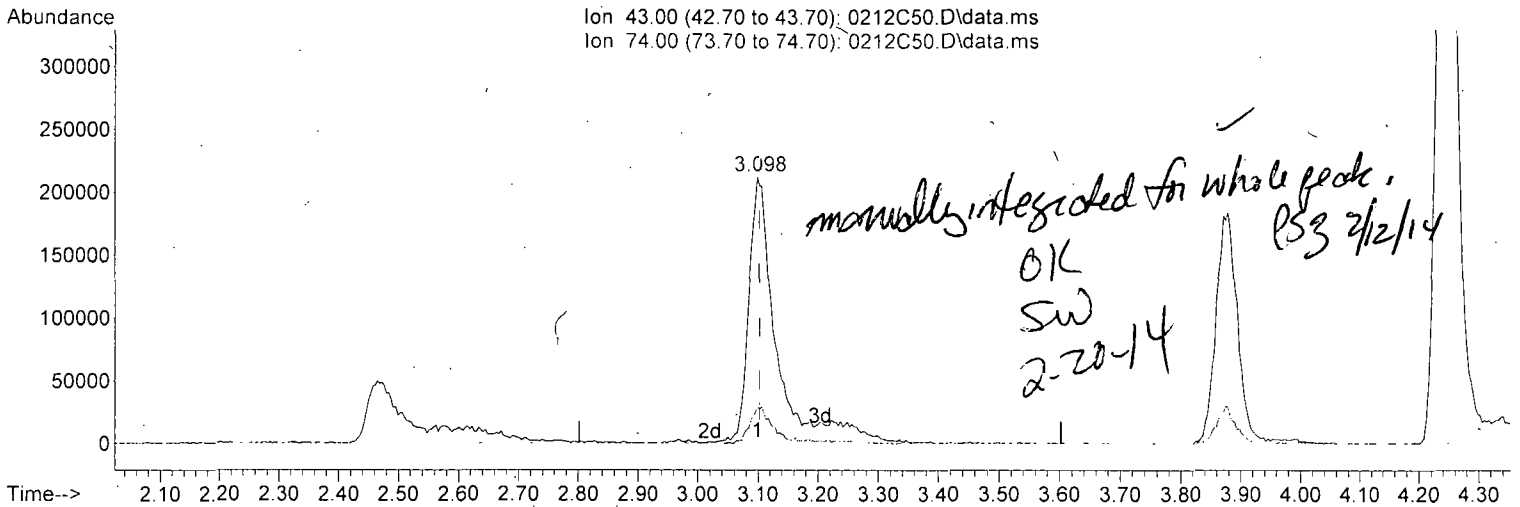
response 609411

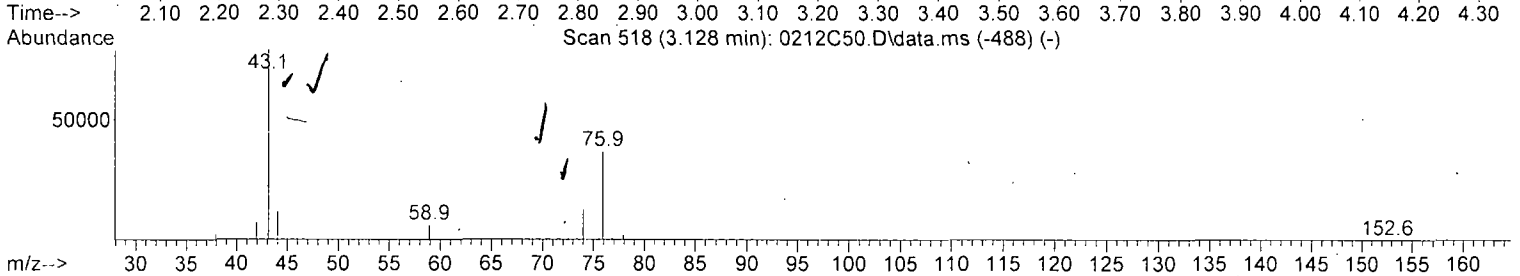
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	12.97#
0.00	0.00	0.00
0.00	0.00	0.00

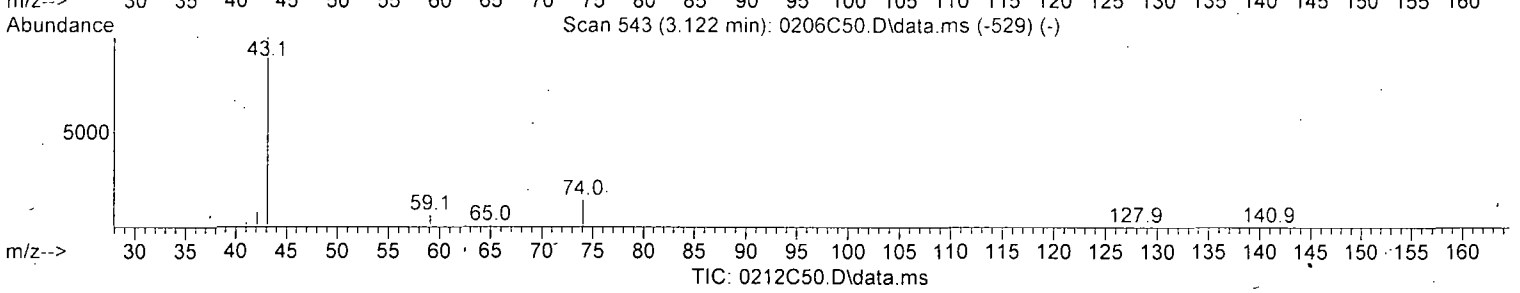
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C50.D
Acq On : 12 Feb 2014 12:44
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 12 13:21:11 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 12:45:04 2014
Response via : Initial Calibration







(13) METHYL ACETATE (TMCP)

3.098min (-0.004) 53.79 ug/L m

response 705015

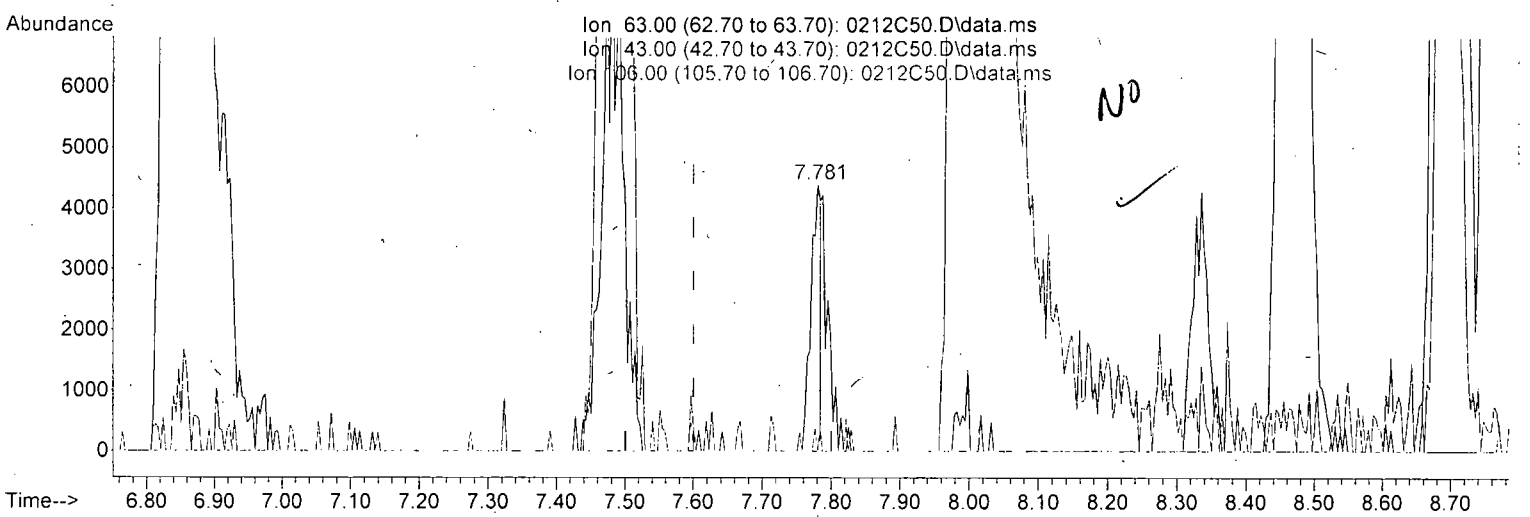
Ion	Exp%	Act%
43.00	100	100
74.00	18.50	11.21#
0.00	0.00	0.00
0.00	0.00	0.00

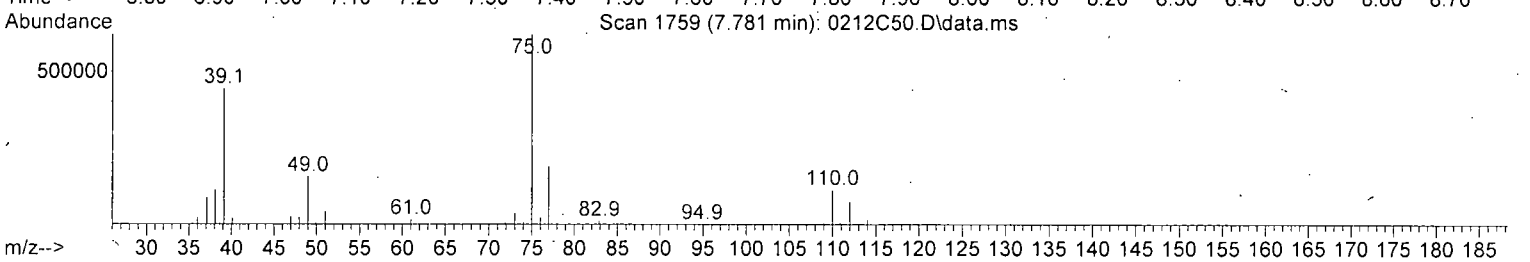
Freedom_0005792_0636

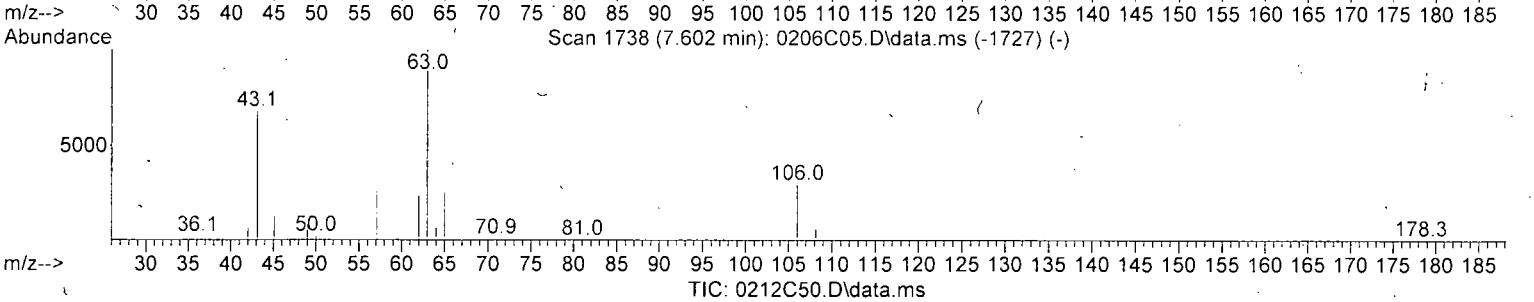
Quantitation Report (Qedit)

Data Path : D:\DATA\L02122014\
Data File : 0212C50.D
Acq On : 12 Feb 2014 12:44
Operator : PZ PZ1-AG5975
Sample : 50 ppb; 25uL - 100mL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 12 13:21:11 2014
Quant Method : D:\METHODS\L02122014.M
Quant Title : VOA Purge and Trap LOW LEVEL Aqueous Method
QLast Update : Wed Feb 12 12:45:04 2014
Response via : Initial Calibration







(35) 2-CHLOROETHYLVINYL ETHER (TMCP)

7.781min (+0.180) 0.55 ug/L

response 4359

Ion	Exp%	Act%
63.00	100	100
43.00	73.00	0.00#
106.00	30.00	0.00#
0.00	0.00	0.00

Freedom_0005792_0637