

Data File : VW001876.D  
Acq On : 05 Apr 2018 13:07  
Operator : JC/SY  
Sample : VSTD2.581  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.581

Quant Time: Apr 05 15:02:23 2018  
Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040518S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Apr 05 15:01:36 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 349439   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.65 | 117  | 346043   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 157440   | 25.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |       |     |       |       |      |      |
|--------------------------------|-------|-----|-------|-------|------|------|
| 4) Vinyl Chloride-d3           | 2.36  | 65  | 18400 | 3.22  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 13643 | 3.23  | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.02  | 63  | 33068 | 2.77  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.09  | 46  | 8534  | 13.03 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 25706 | 2.30  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 17568 | 2.67  | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.28  | 84  | 54815 | 2.56  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.28  | 67  | 18250 | 2.59  | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.34 | 98  | 44591 | 2.30  | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.59 | 79  | 6980  | 2.40  | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.93 | 63  | 4980  | 4.97  | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.71 | 84  | 15454 | 2.55  | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.87 | 152 | 17006 | 2.70  | ug/L | 0.00 |

Target Compounds

|                                |       |     |       |      |        | Qvalue |
|--------------------------------|-------|-----|-------|------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.00  | 85  | 20816 | 2.69 | ug/L   | 98     |
| 3) Chloromethane               | 2.22  | 50  | 18790 | 2.39 | ug/L   | 90     |
| 5) Vinyl chloride              | 2.36  | 62  | 16657 | 2.53 | ug/L   | 87     |
| 6) Bromomethane                | 2.77  | 94  | 7578  | 2.85 | ug/L   | 99     |
| 8) Chloroethane                | 2.93  | 64  | 10331 | 2.91 | ug/L   | 89     |
| 9) Trichlorofluoromethane      | 3.27  | 101 | 24879 | 2.62 | ug/L   | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07  | 101 | 12375 | 2.16 | ug/L   | 93     |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 12124 | 2.39 | ug/L   | 97     |
| 13) Acetone                    | 4.13  | 43  | 16618 | 8.57 | ug/L   | 92     |
| 14) Carbon disulfide           | 4.38  | 76  | 44442 | 2.43 | ug/L   | 95     |
| 16) Methylene chloride         | 4.92  | 84  | 27000 | 3.75 | ug/L   | 95     |
| 18) trans-1,2-Dichloroethene   | 5.43  | 96  | 12752 | 2.40 | ug/L   | 88     |
| 19) 1,1-Dichloroethane         | 6.22  | 63  | 26749 | 2.60 | ug/L   | 98     |
| 21) 2-Butanone                 | 7.18  | 43  | 11367 | 5.04 | ug/L   | 88     |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 13339 | 2.46 | ug/L   | 92     |
| 23) Bromochloromethane         | 7.52  | 128 | 6536  | 2.75 | ug/L   | 96     |
| 25) Chloroform                 | 7.68  | 83  | 30256 | 2.80 | ug/L   | 98     |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 18975 | 2.49 | ug/L   | 95     |
| 31) 1,1,1-Trichloroethane      | 7.88  | 97  | 23343 | 2.56 | ug/L   | 98     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 21682 | 2.62 | ug/L   | 98     |
| 34) Benzene                    | 8.33  | 78  | 50541 | 2.26 | ug/L   | 100    |
| 35) Trichloroethene            | 9.10  | 95  | 14778 | 2.46 | ug/L   | 99     |
| 36) Methylcyclohexane          | 9.34  | 83  | 18900 | 2.01 | ug/L   | 93     |
| 40) 1,2-Dichloropropane        | 9.38  | 63  | 15129 | 2.45 | ug/L   | 100    |
| 41) Bromodichloromethane       | 9.65  | 83  | 17496 | 2.27 | ug/L # | 92     |
| 42) cis-1,3-Dichloropropene    | 10.09 | 75  | 17696 | 2.13 | ug/L   | 94     |
| 43) 4-Methyl-2-pentanone       | 10.22 | 43  | 15701 | 3.68 | ug/L   | 96     |
| 44) Toluene                    | 10.40 | 91  | 48708 | 2.10 | ug/L   | 95     |
| 45) trans-1,3-Dichloropropene  | 10.62 | 75  | 15548 | 2.09 | ug/L   | 97     |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97  | 11085 | 2.42 | ug/L   | 95     |

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Quant Title : VOC Analysis  
QLast Update : Thu Apr 05 15:01:36 2018  
Response via : Initial Calibration

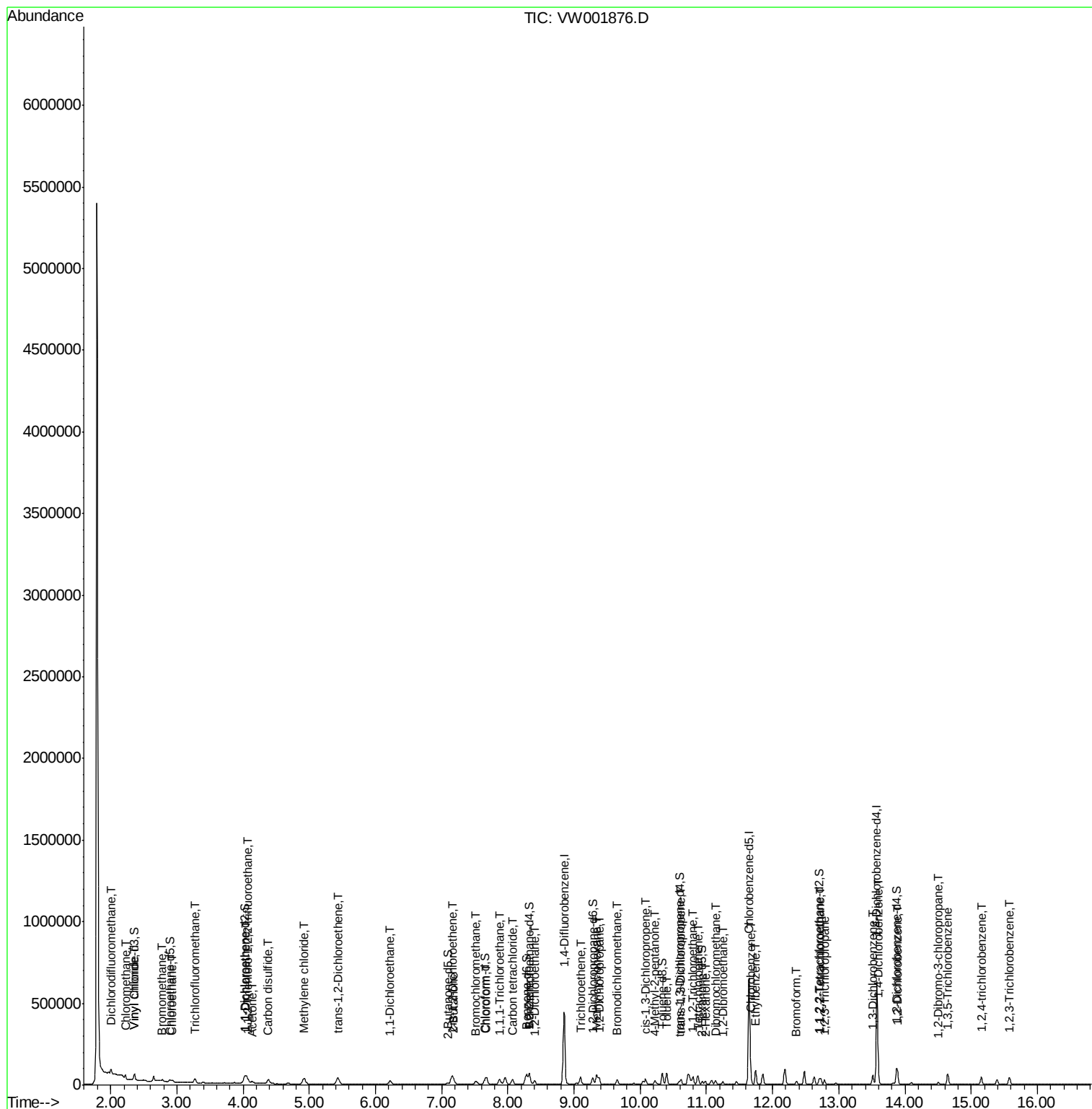
| Internal Standards             | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 47) Tetrachloroethene          | 10.87 | 164  | 11345    | 2.44 | ug/L  | 96       |
| 49) 2-Hexanone                 | 10.98 | 43   | 11128    | 3.59 | ug/L  | 95       |
| 50) Dibromochloromethane       | 11.14 | 129  | 11512    | 2.17 | ug/L  | 98       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 9149     | 2.23 | ug/L  | 98       |
| 52) Chlorobenzene              | 11.67 | 112  | 35367    | 2.33 | ug/L  | 94       |
| 53) Ethylbenzene               | 11.74 | 91   | 51863    | 2.04 | ug/L  | 98       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 13236    | 2.25 | ug/L  | 96       |
| 59) 1,2,3-Trichloropropane     | 12.78 | 75   | 10221    | 2.24 | ug/L  | 97       |
| 62) Bromoform                  | 12.37 | 173  | 7367     | 2.54 | ug/L  | 96       |
| 63) 1,3-Dichlorobenzene        | 13.51 | 146  | 23517    | 2.34 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 13.60 | 146  | 27134    | 2.47 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 13.89 | 146  | 24584    | 2.47 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 14.51 | 75   | 2997     | 3.02 | ug/L  | 88       |
| 67) 1,3,5-Trichlorobenzene     | 14.65 | 180  | 18853    | 2.42 | ug/L  | 97       |
| 68) 1,2,4-trichlorobenzene     | 15.15 | 180  | 13686    | 2.25 | ug/L  | 97       |
| 70) 1,2,3-Trichlorobenzene     | 15.58 | 180  | 13098    | 2.24 | ug/L  | 96       |

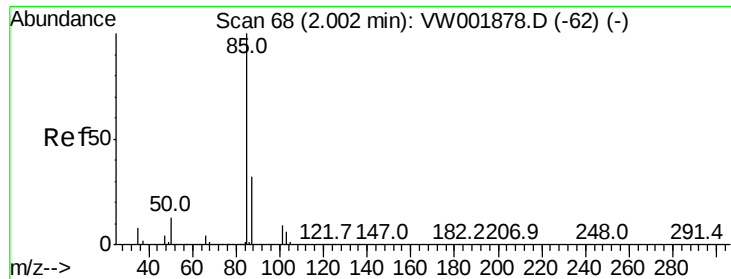
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.69 ug/L

RT: 2.00 min Scan# 68

Delta R.T. -0.00 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

Instrument :

MSVOA\_W

ClientSampleId :

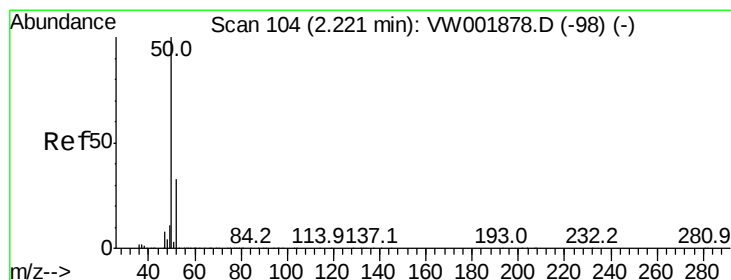
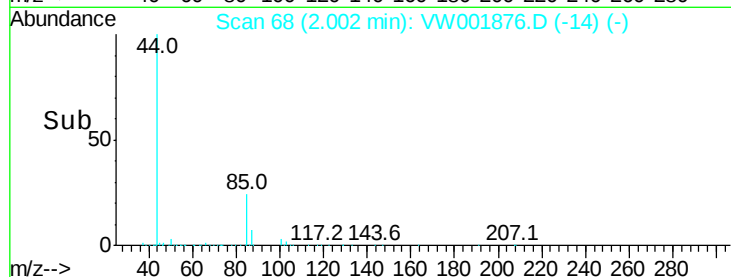
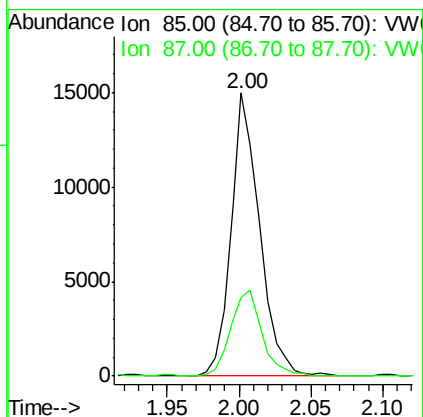
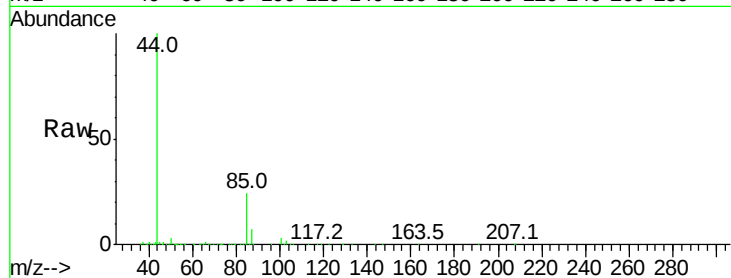
VSTD2.581

Tgt Ion: 85 Resp: 20816

Ion Ratio Lower Upper

85 100

87 33.2 22.3 41.5



#3

Chloromethane

Concen: 2.39 ug/L

RT: 2.22 min Scan# 104

Delta R.T. -0.00 min

Lab File: VW001876.D

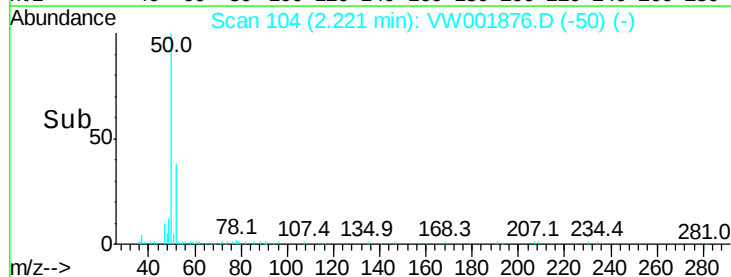
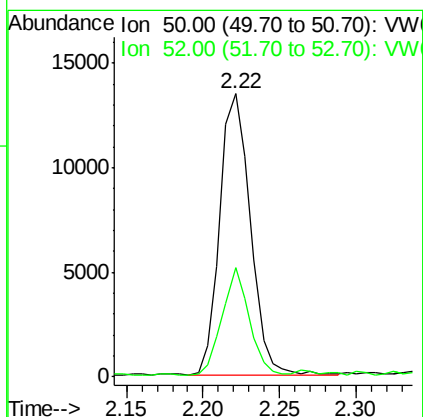
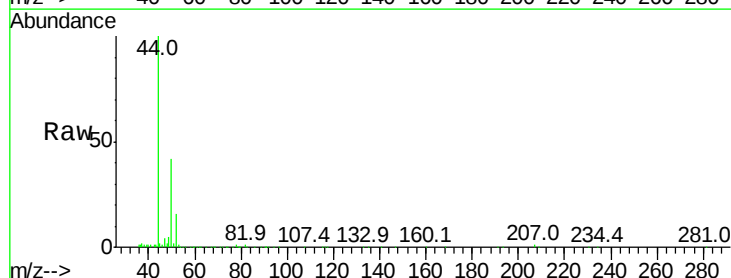
Acq: 05 Apr 2018 13:07

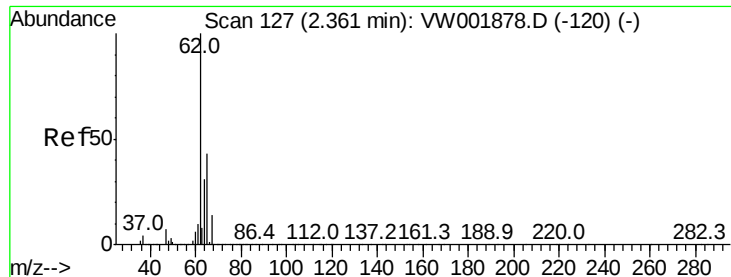
Tgt Ion: 50 Resp: 18790

Ion Ratio Lower Upper

50 100

52 38.6 23.2 43.0





#5

Vinyl chloride

Concen: 2.53 ug/L

RT: 2.36 min Scan# 127

Delta R.T. -0.00 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

Instrument :

MSVOA\_W

ClientSampleId :

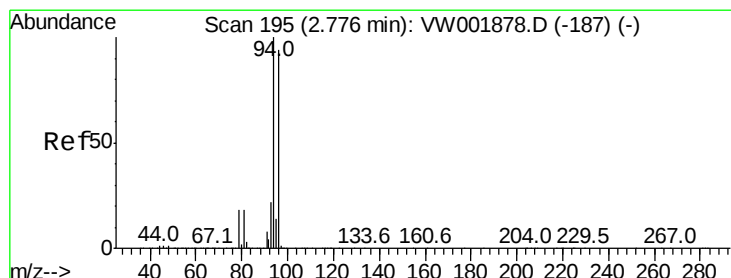
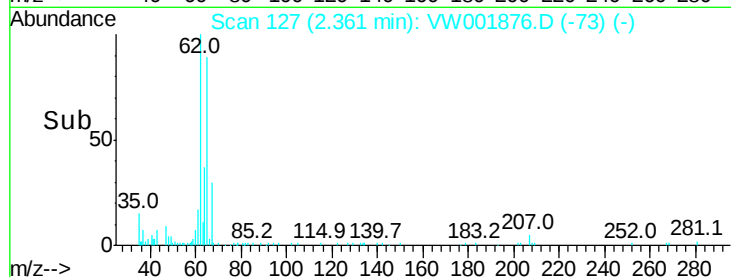
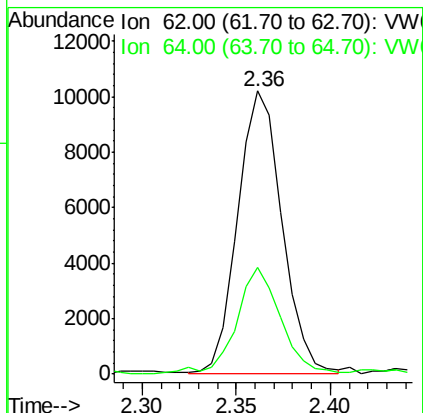
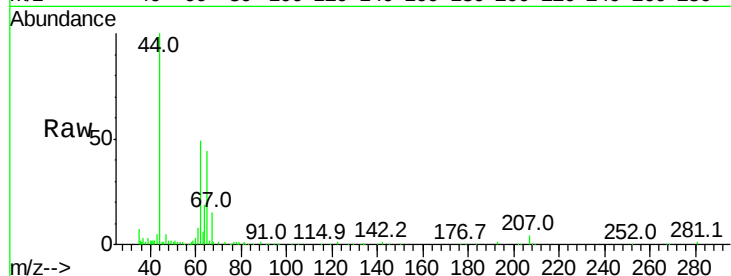
VSTD2.581

Tgt Ion: 62 Resp: 16657

Ion Ratio Lower Upper

62 100

64 37.5 21.4 39.8



#6

Bromomethane

Concen: 2.85 ug/L

RT: 2.77 min Scan# 194

Delta R.T. -0.01 min

Lab File: VW001876.D

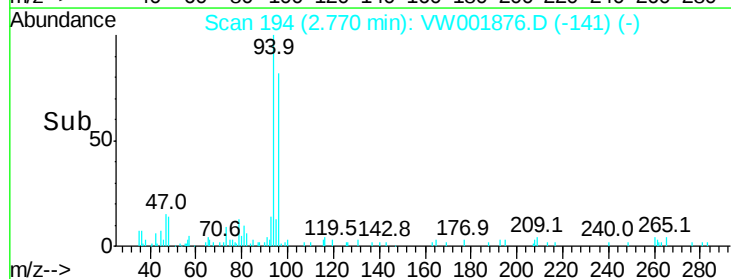
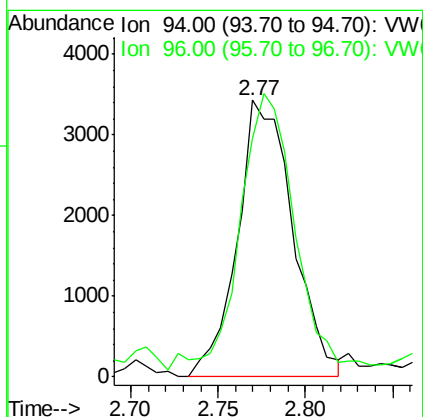
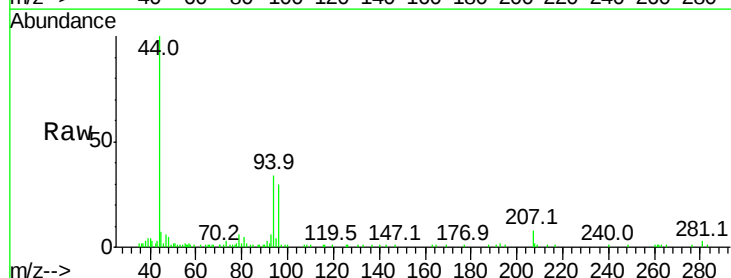
Acq: 05 Apr 2018 13:07

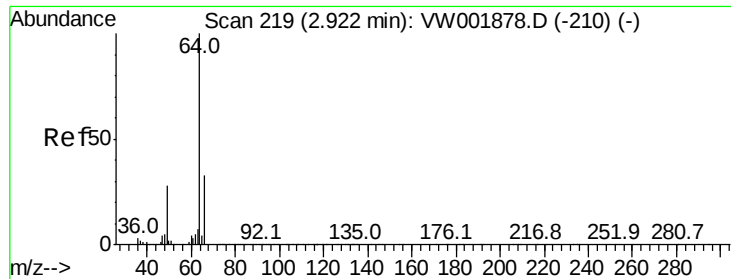
Tgt Ion: 94 Resp: 7578

Ion Ratio Lower Upper

94 100

96 95.3 9.5 179.7

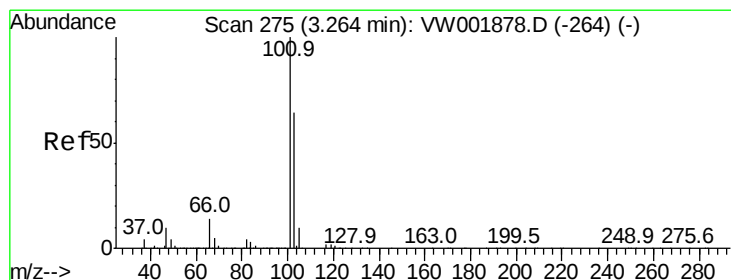
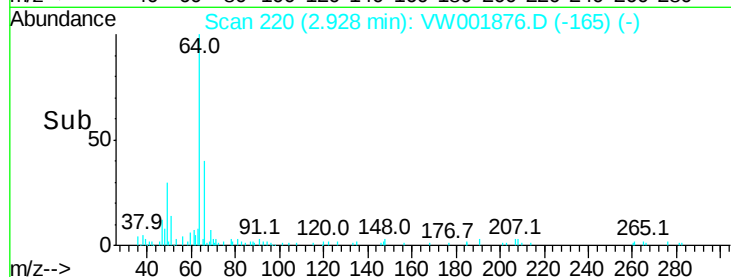
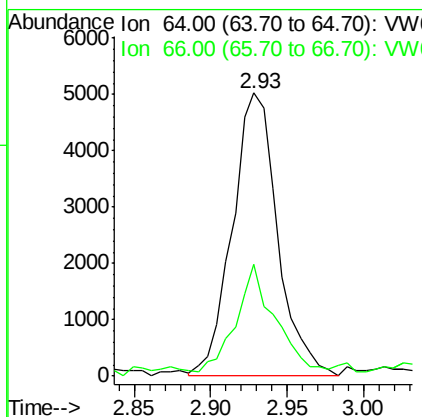
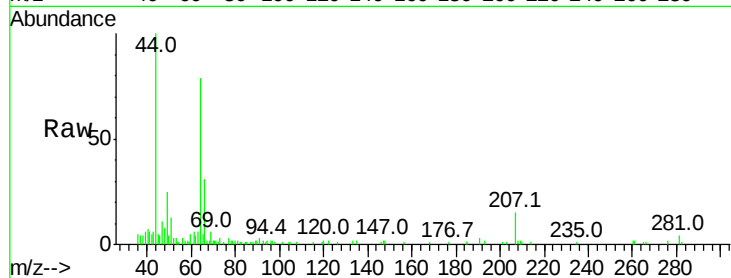




#8  
Chloroethane  
Concen: 2.91 ug/L  
RT: 2.93 min Scan# 220  
Delta R.T. 0.01 min  
Lab File: VW001876.D  
Acq: 05 Apr 2018 13:07

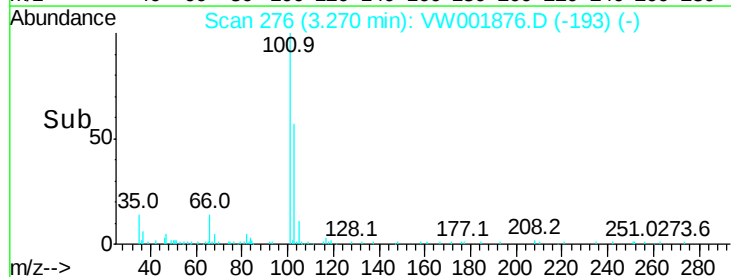
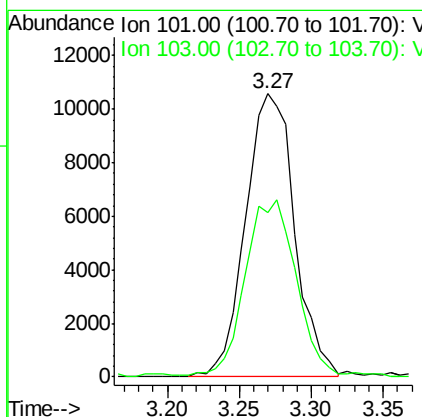
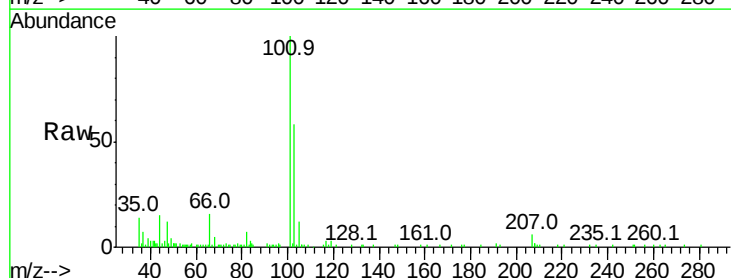
Instrument :  
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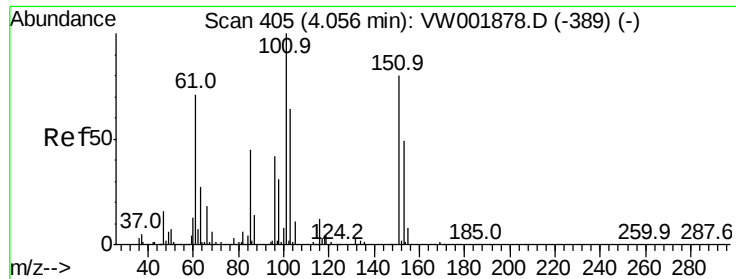
Tgt Ion: 64 Resp: 10331  
Ion Ratio Lower Upper  
64 100  
66 39.7 23.4 43.4



#9  
Trichlorofluoromethane  
Concen: 2.62 ug/L  
RT: 3.27 min Scan# 276  
Delta R.T. 0.01 min  
Lab File: VW001876.D  
Acq: 05 Apr 2018 13:07

Tgt Ion: 101 Resp: 24879  
Ion Ratio Lower Upper  
101 100  
103 64.0 45.2 84.0





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 2.16 ug/L

RT: 4.07 min Scan# 408

Delta R.T. 0.02 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.581

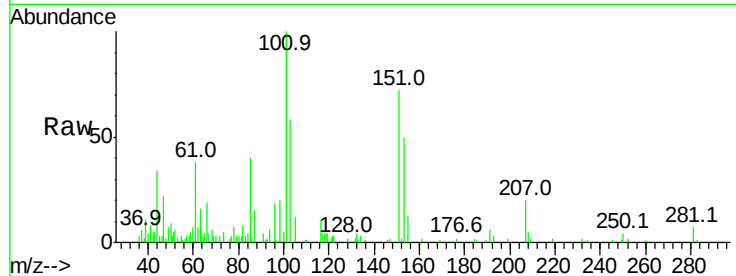
Tgt Ion: 101 Resp: 12375

Ion Ratio Lower Upper

101 100

85 49.7 35.8 53.8

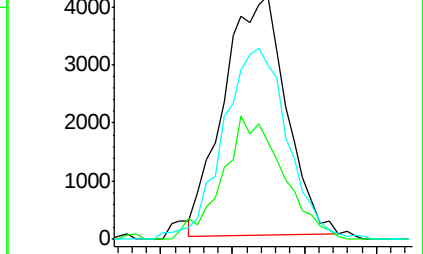
151 82.0 61.5 92.3



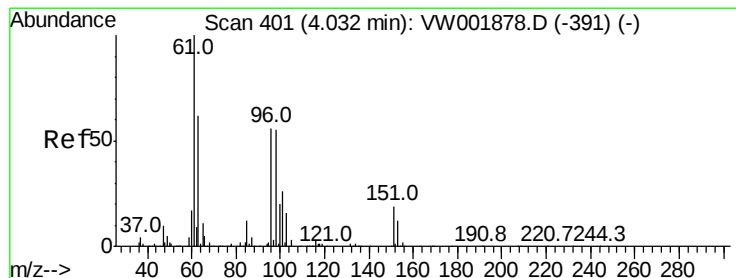
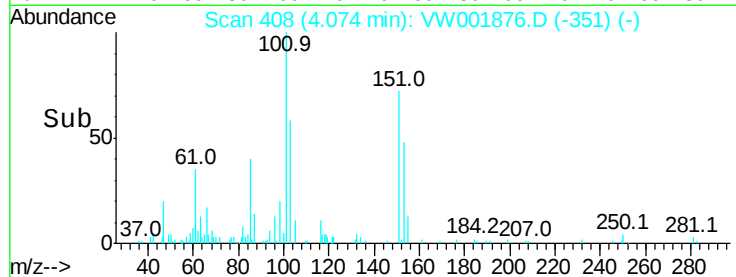
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



Time-->



#12

1,1-Dichloroethene

Concen: 2.39 ug/L

RT: 4.04 min Scan# 403

Delta R.T. 0.01 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

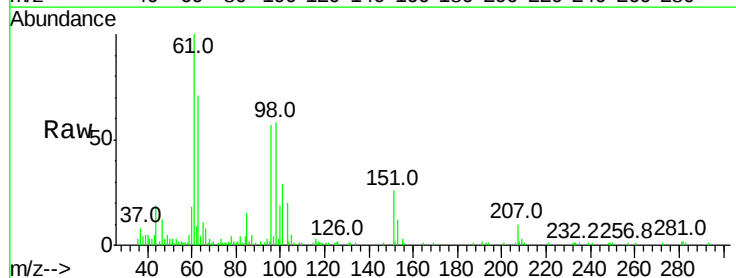
Tgt Ion: 96 Resp: 12124

Ion Ratio Lower Upper

96 100

61 176.6 127.1 236.1

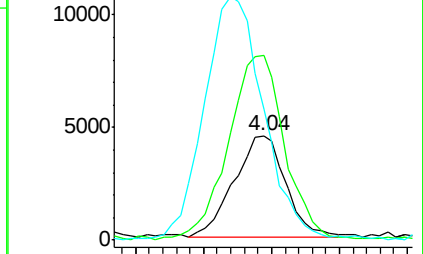
63 124.9 86.5 160.7



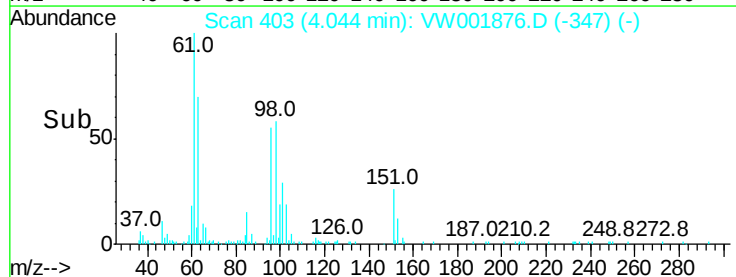
Abundance Ion 96.00 (95.70 to 96.70): VW

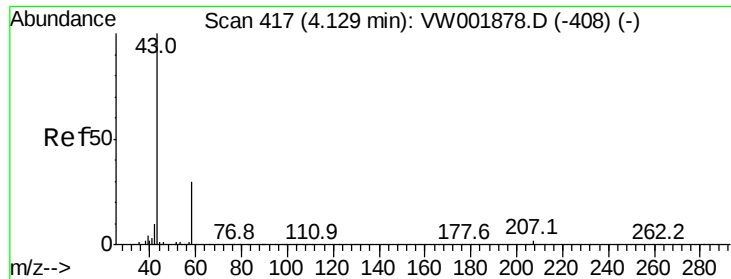
Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW



Time-->





#13

Acetone

Concen: 8.57 ug/L

RT: 4.13 min Scan# 417

Delta R.T. -0.00 min

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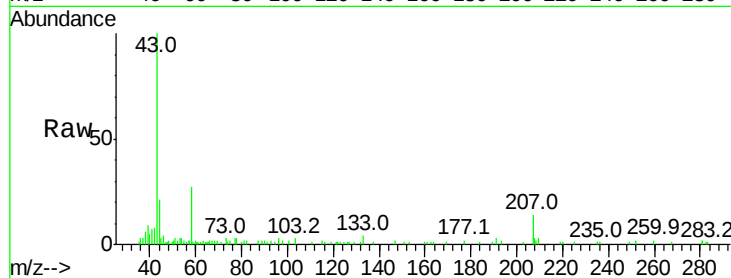
VSTD2.581

Tgt Ion: 43 Resp: 16618

Ion Ratio Lower Upper

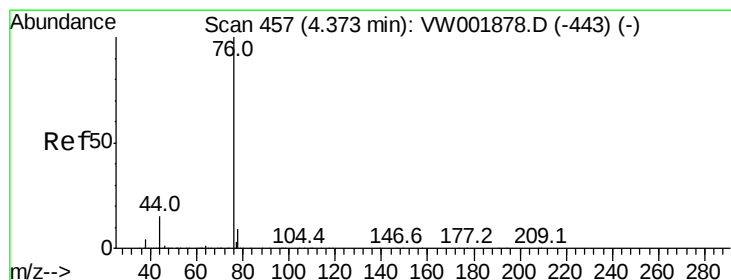
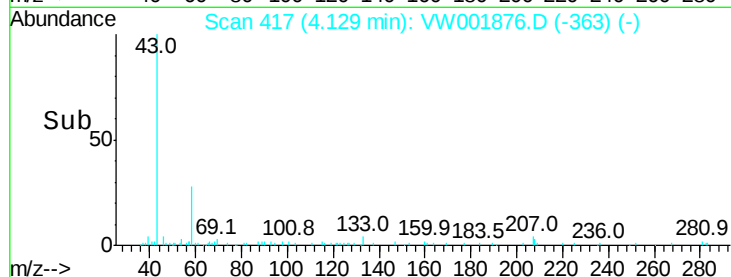
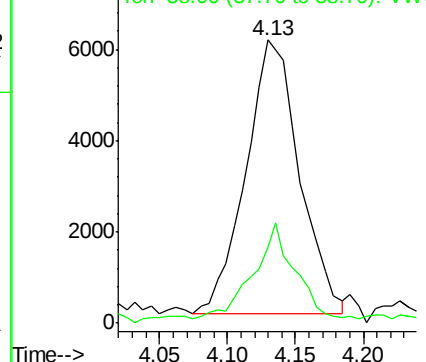
43 100

58 25.2 0.0 59.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 2.43 ug/L

RT: 4.38 min Scan# 458

Delta R.T. 0.01 min

Lab File: VW001876.D

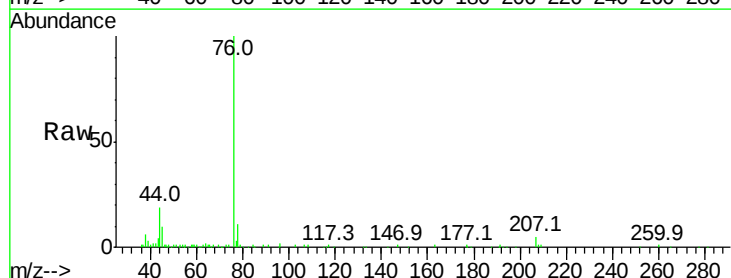
Acq: 05 Apr 2018 13:07

Tgt Ion: 76 Resp: 44442

Ion Ratio Lower Upper

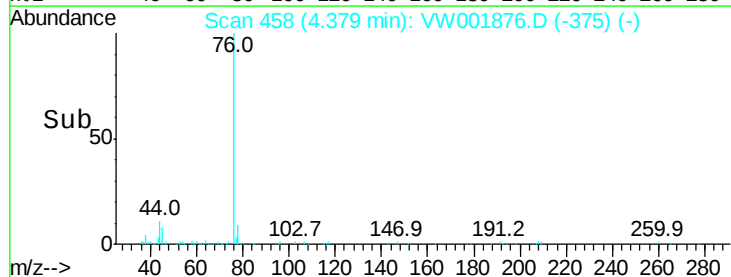
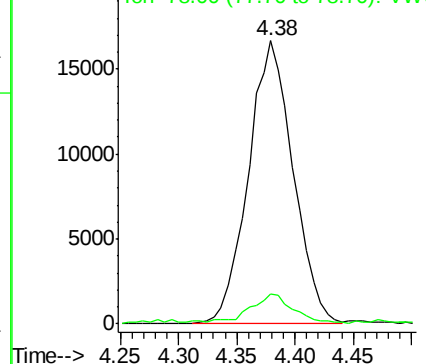
76 100

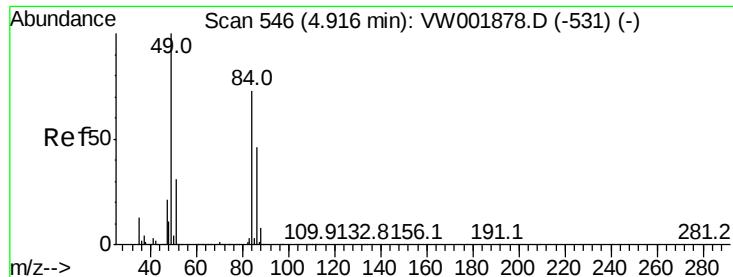
78 10.8 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

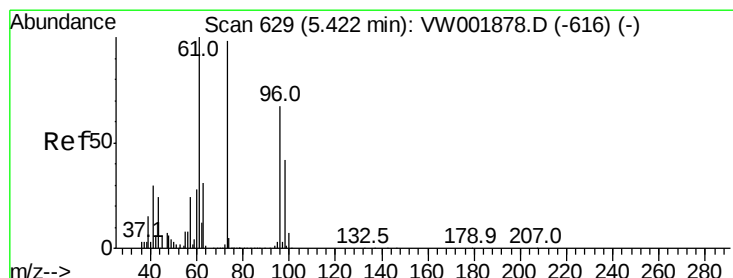
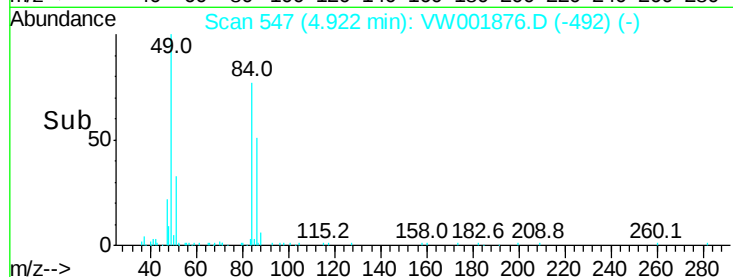
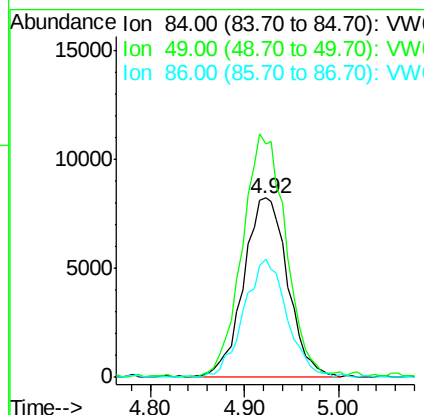
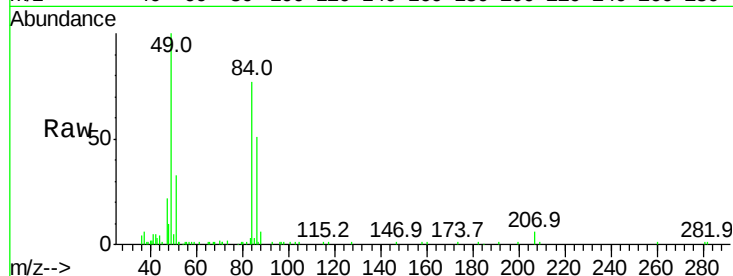




#16  
Methylene chloride  
Concen: 3.75 ug/L  
RT: 4.92 min Scan# 547  
Delta R.T. 0.01 min  
Lab File: VW001876.D  
Acq: 05 Apr 2018 13:07

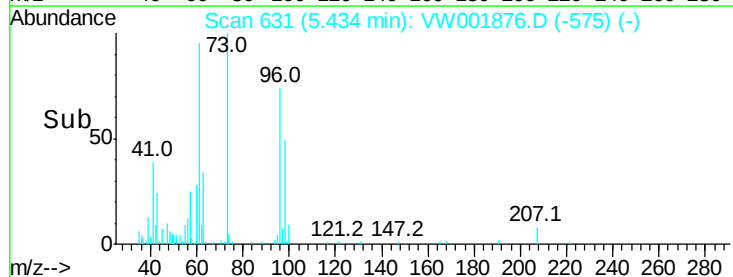
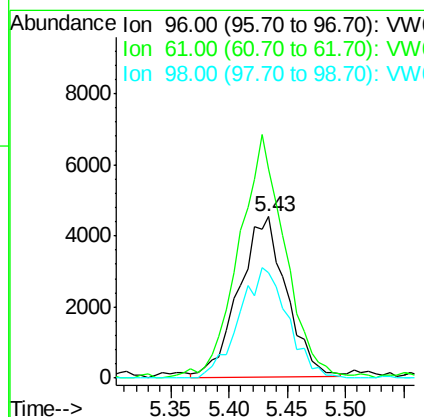
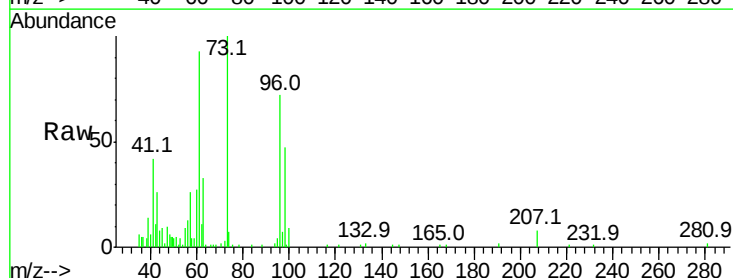
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.581

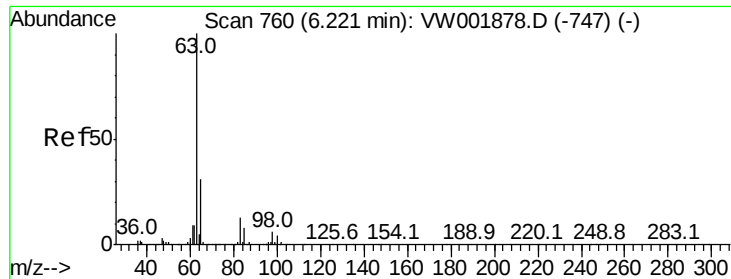
Tgt Ion: 84 Resp: 27000  
Ion Ratio Lower Upper  
84 100  
49 130.2 96.2 178.6  
86 65.9 44.1 81.9



#18  
trans-1,2-Dichloroethene  
Concen: 2.40 ug/L  
RT: 5.43 min Scan# 631  
Delta R.T. 0.01 min  
Lab File: VW001876.D  
Acq: 05 Apr 2018 13:07

Tgt Ion: 96 Resp: 12752  
Ion Ratio Lower Upper  
96 100  
61 129.1 104.3 193.7  
98 65.3 44.2 82.0

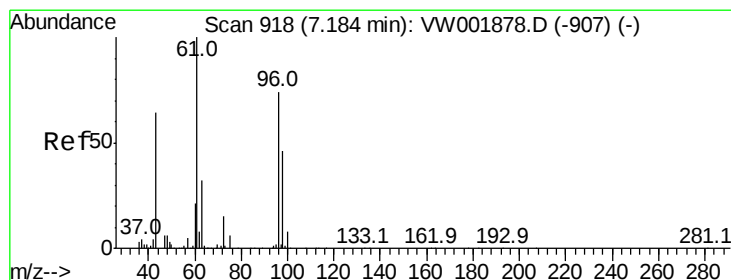
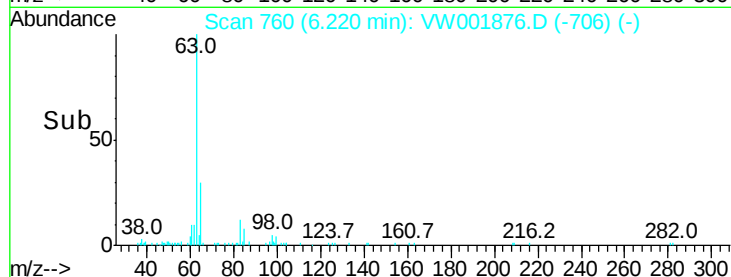
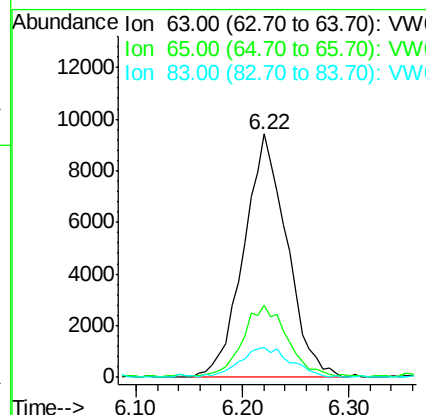
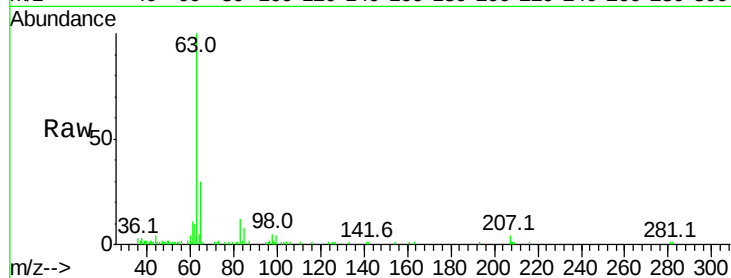




#19  
 1,1-Dichloroethane  
 Concen: 2.60 ug/L  
 RT: 6.22 min Scan# 760  
 Delta R.T. -0.00 min  
 Lab File: VW001876.D  
 Acq: 05 Apr 2018 13:07

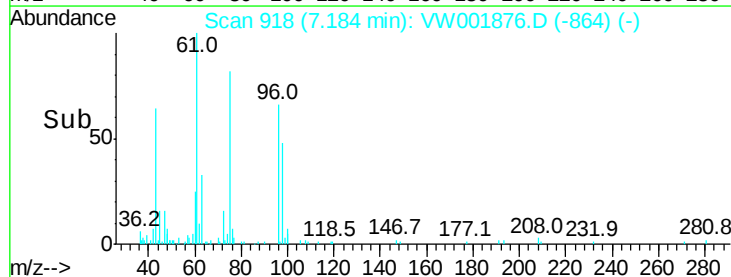
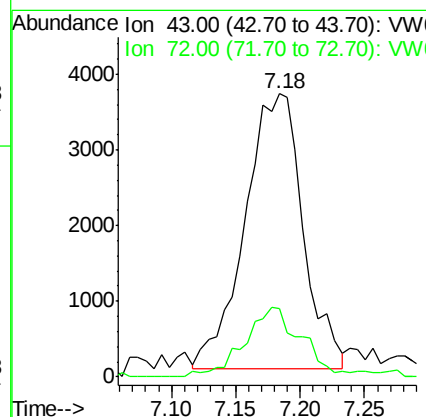
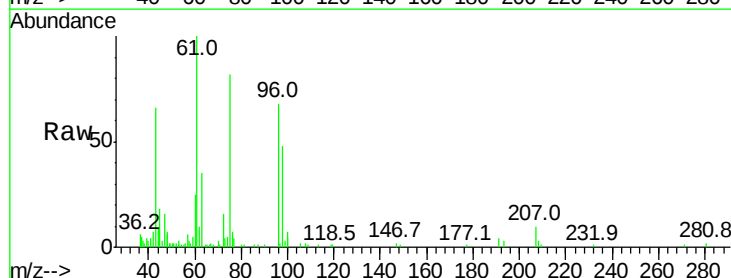
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD2.581

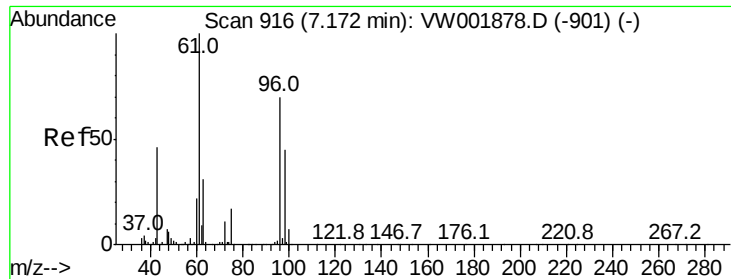
Tgt Ion: 63 Resp: 26749  
 Ion Ratio Lower Upper  
 63 100  
 65 29.7 21.7 40.3  
 83 12.2 8.8 16.4



#21  
 2-Butanone  
 Concen: 5.04 ug/L  
 RT: 7.18 min Scan# 918  
 Delta R.T. -0.00 min  
 Lab File: VW001876.D  
 Acq: 05 Apr 2018 13:07

Tgt Ion: 43 Resp: 11367  
 Ion Ratio Lower Upper  
 43 100  
 72 18.7 12.2 36.6



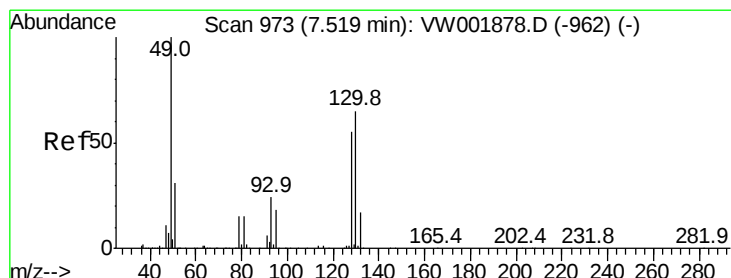
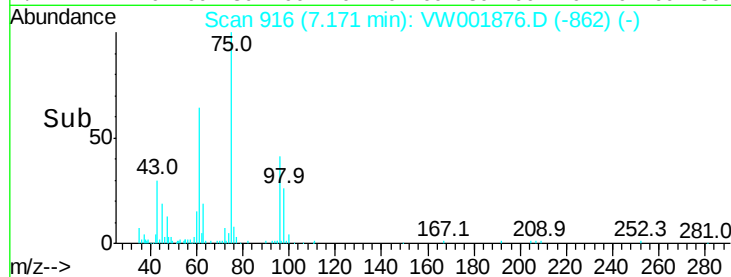
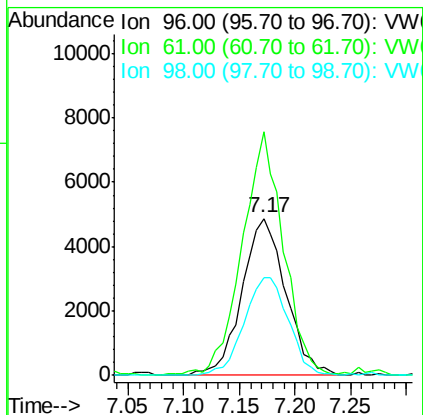
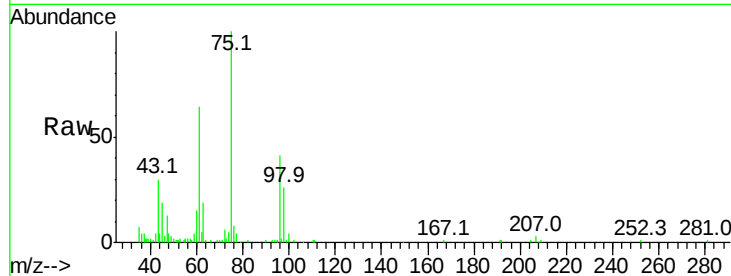


#22

cis-1,2-Dichloroethene  
Concen: 2.46 ug/L  
RT: 7.17 min Scan# 916  
Delta R.T. -0.00 min  
Lab File: VW001876.D  
Acq: 05 Apr 2018 13:07

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.581

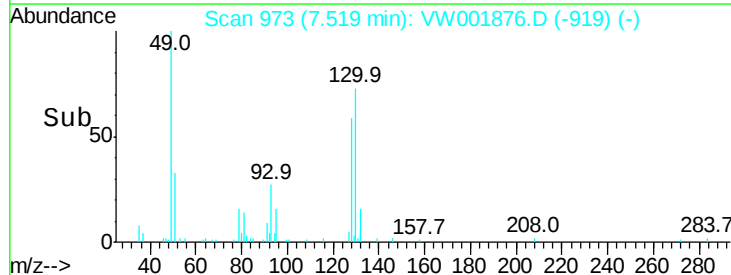
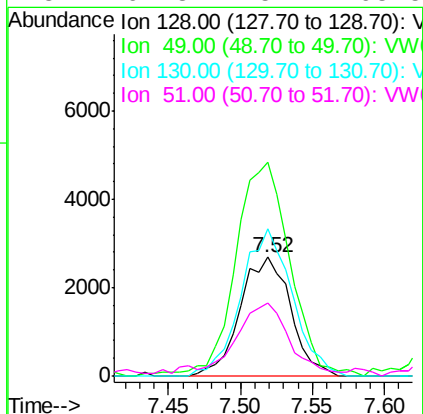
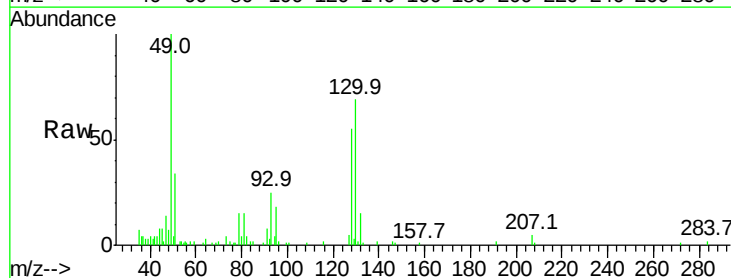
Tgt Ion: 96 Resp: 13339  
Ion Ratio Lower Upper  
96 100  
61 155.5 99.5 184.9  
98 62.3 45.2 84.0

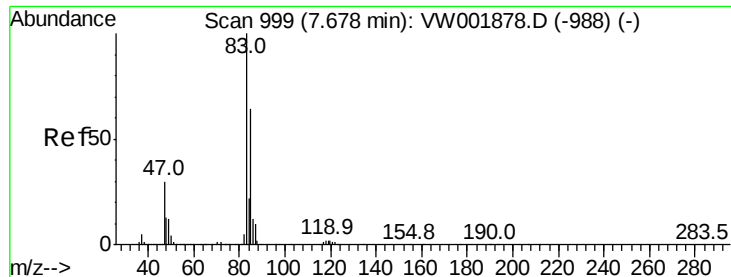


#23

Bromochloromethane  
Concen: 2.75 ug/L  
RT: 7.52 min Scan# 973  
Delta R.T. -0.00 min  
Lab File: VW001876.D  
Acq: 05 Apr 2018 13:07

Tgt Ion: 128 Resp: 6536  
Ion Ratio Lower Upper  
128 100  
49 180.4 127.9 237.5  
130 124.8 82.9 153.9  
51 61.8 45.7 68.5





#25

Chloroform

Concen: 2.80 ug/L

RT: 7.68 min Scan# 999

Delta R.T. -0.00 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

Instrument :

MSVOA\_W

ClientSampleId :

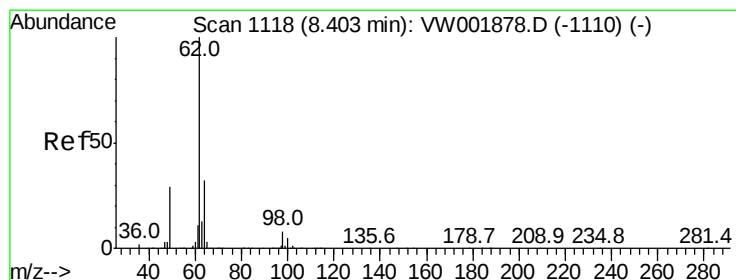
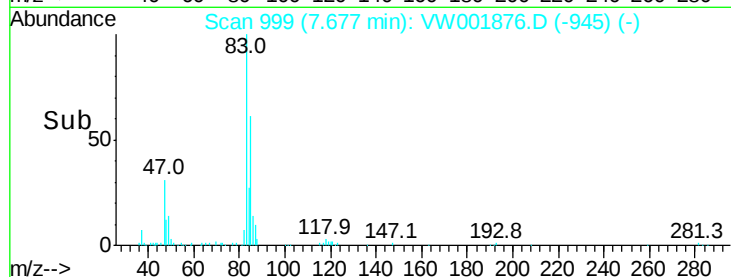
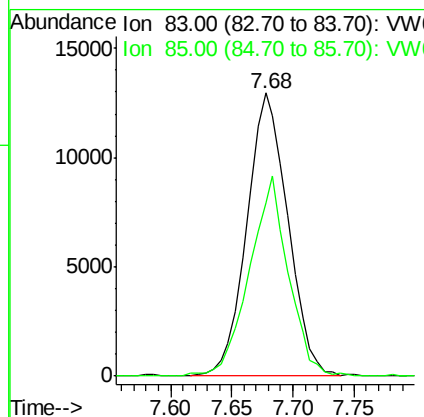
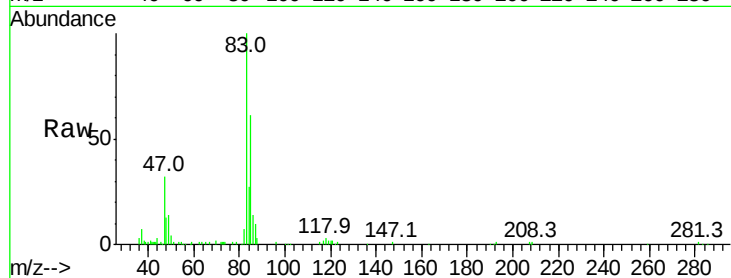
VSTD2.581

Tgt Ion: 83 Resp: 30256

Ion Ratio Lower Upper

83 100

85 66.5 45.6 84.6



#27

1,2-Dichloroethane

Concen: 2.49 ug/L

RT: 8.40 min Scan# 1118

Delta R.T. -0.00 min

Lab File: VW001876.D

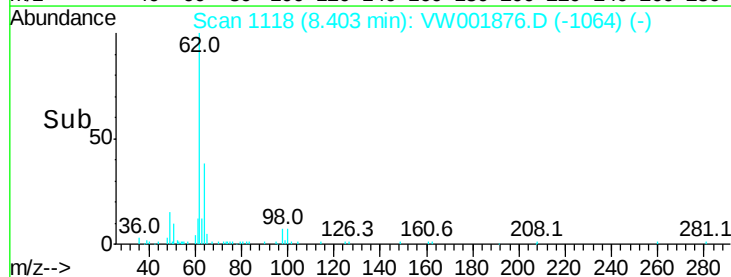
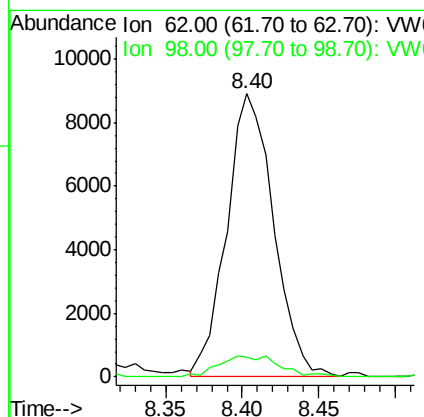
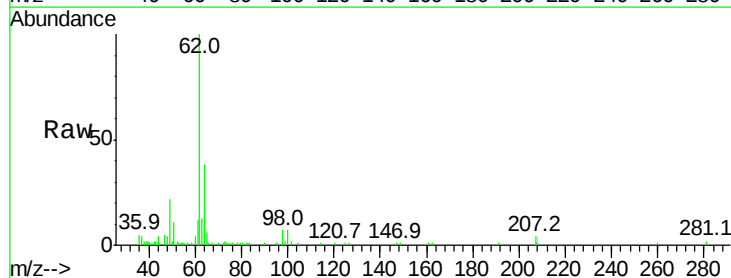
Acq: 05 Apr 2018 13:07

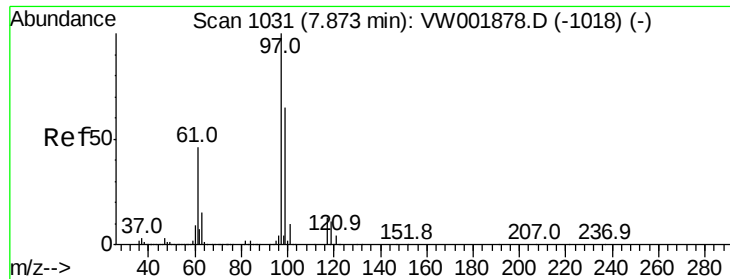
Tgt Ion: 62 Resp: 18975

Ion Ratio Lower Upper

62 100

98 6.8 6.7 10.1





#31

1,1,1-Trichloroethane

Concen: 2.56 ug/L

RT: 7.88 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.581

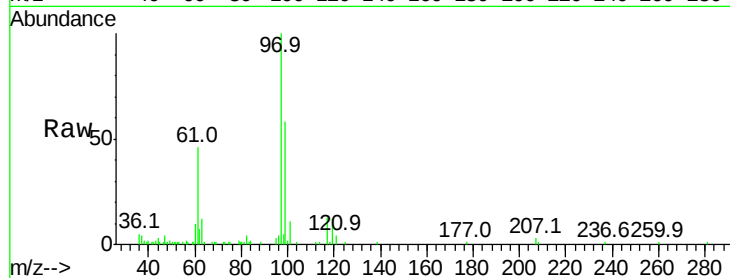
Tgt Ion: 97 Resp: 23343

Ion Ratio Lower Upper

97 100

99 64.3 52.0 78.0

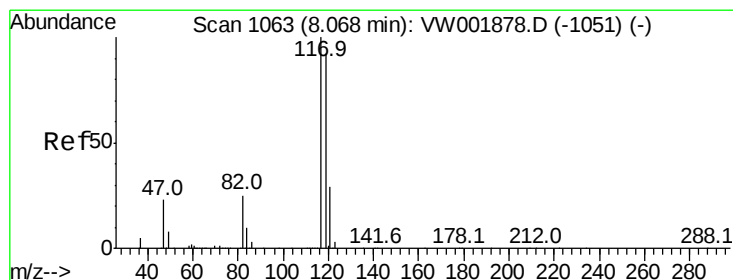
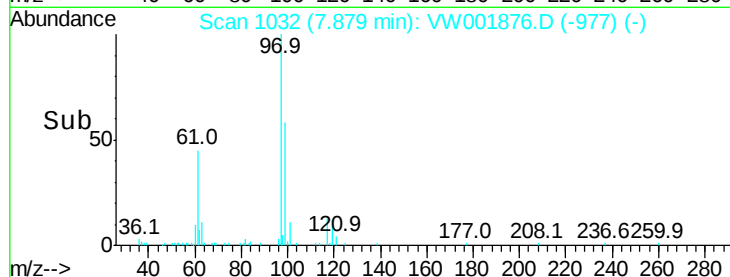
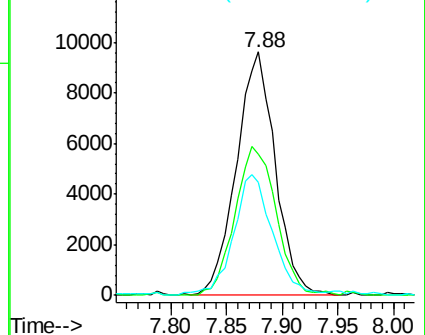
61 50.1 38.0 57.0



Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 61.00 (60.70 to 61.70): VW



#32

Carbon tetrachloride

Concen: 2.62 ug/L

RT: 8.07 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VW001876.D

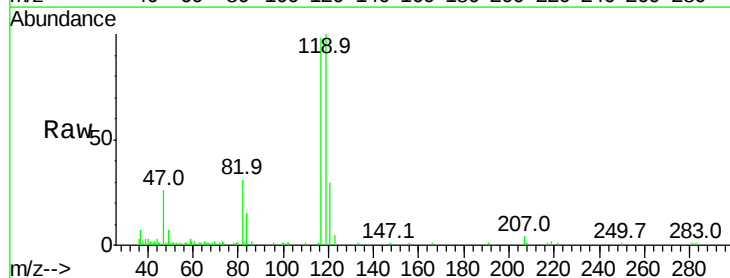
Acq: 05 Apr 2018 13:07

Tgt Ion: 117 Resp: 21682

Ion Ratio Lower Upper

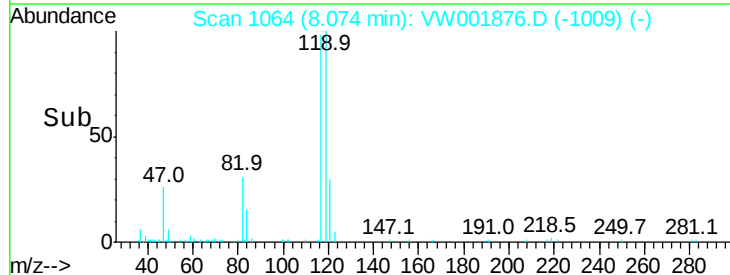
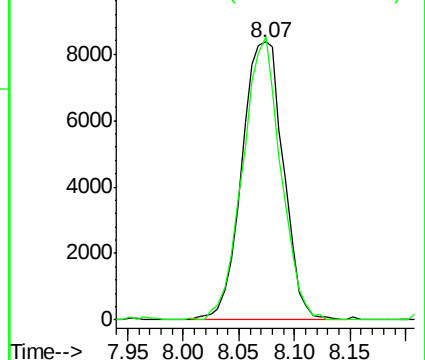
117 100

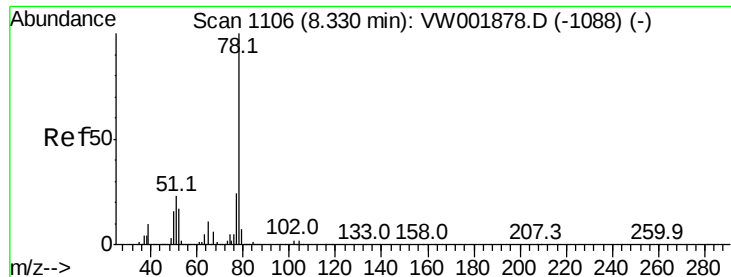
119 93.1 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 2.26 ug/L

RT: 8.33 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

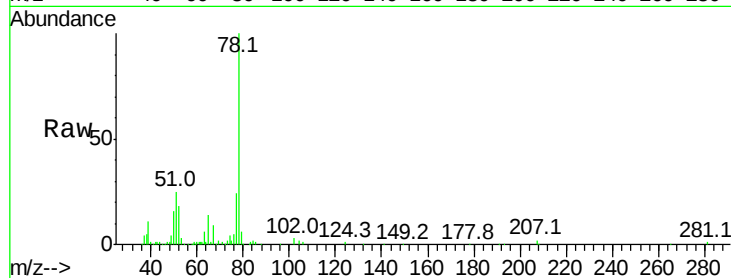
Instrument :

MSVOA\_W

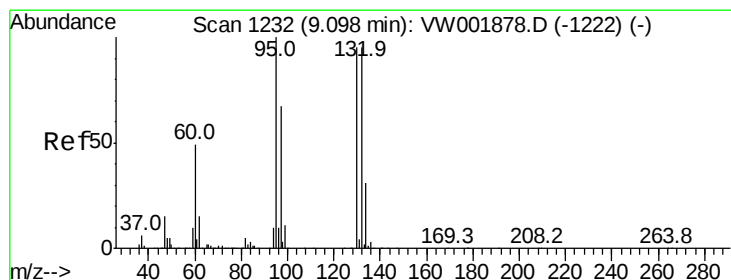
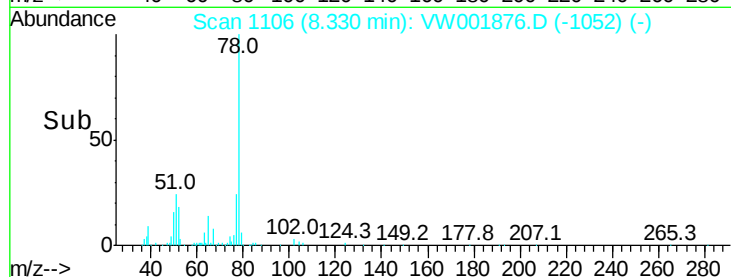
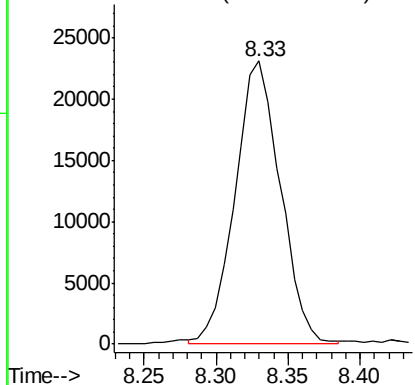
ClientSampleId :

VSTD2.581

Tgt Ion: 78 Resp: 50541



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 2.46 ug/L

RT: 9.10 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

Tgt Ion: 95 Resp: 14778

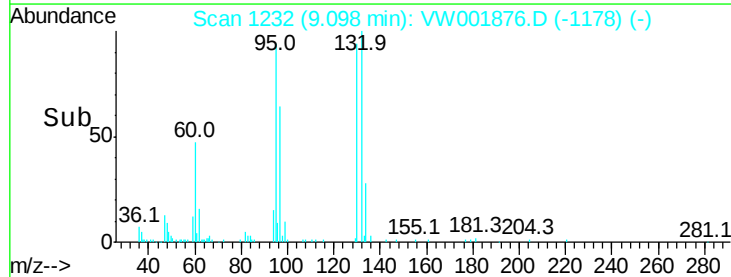
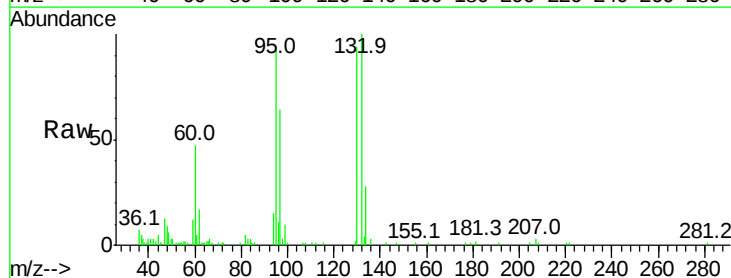
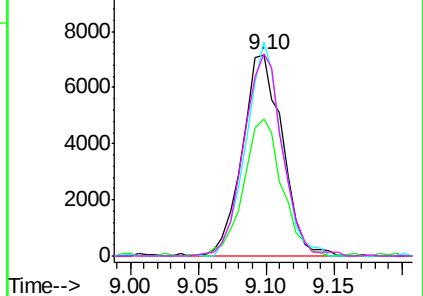
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.2  | 44.9  | 83.3  |
| 132 | 94.3  | 66.2  | 123.0 |
| 130 | 96.5  | 68.5  | 127.1 |

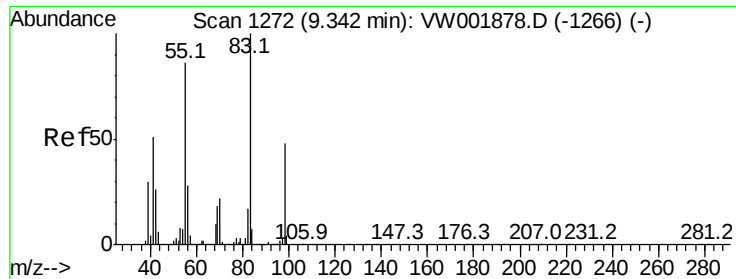
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

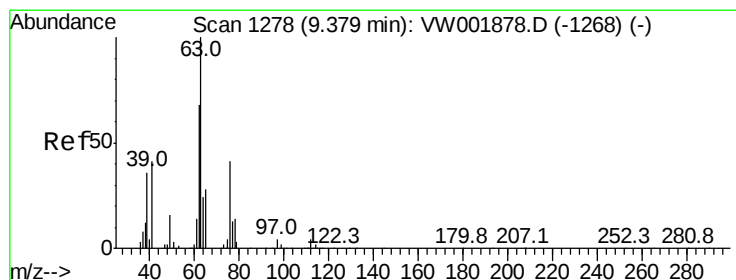
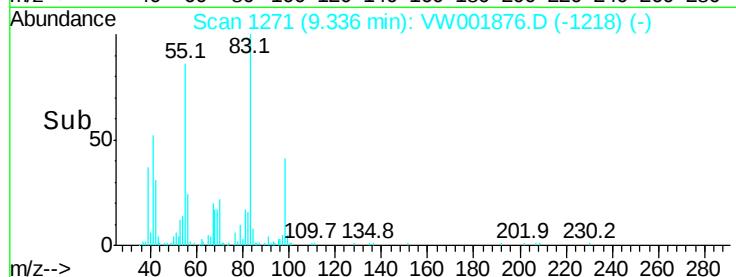
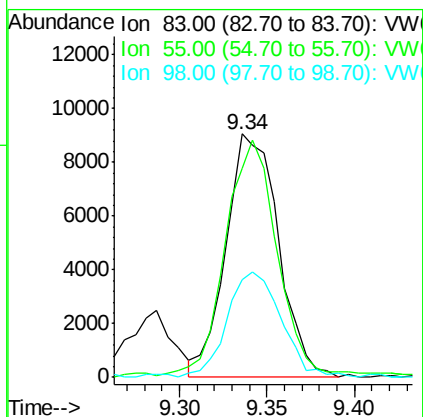
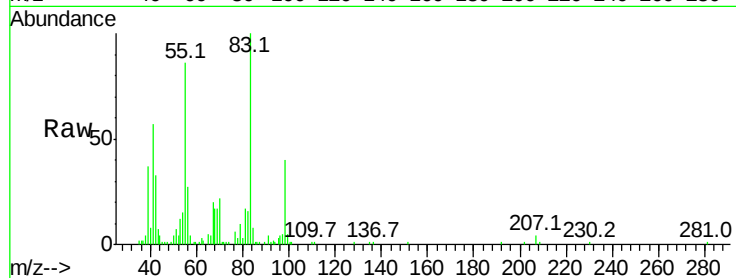




#36  
Methylcyclohexane  
Concen: 2.01 ug/L  
RT: 9.34 min Scan# 1271  
Delta R.T. -0.01 min  
Lab File: VW001876.D  
Acq: 05 Apr 2018 13:07

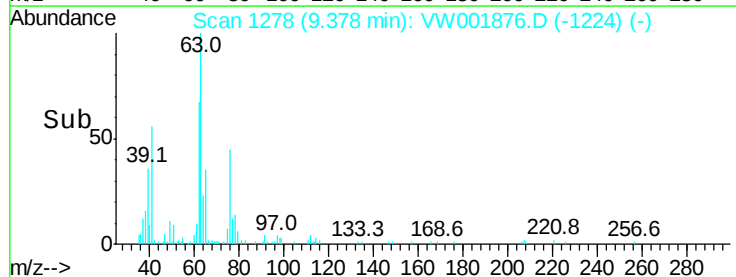
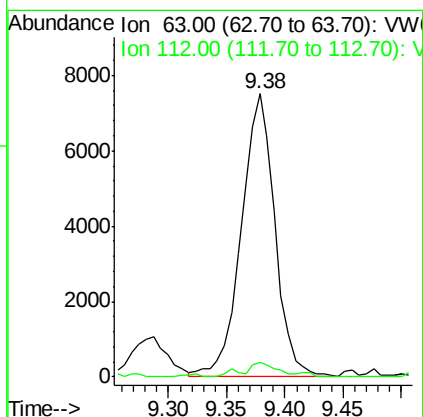
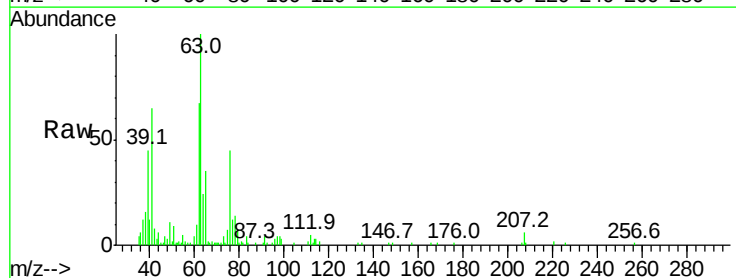
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.581

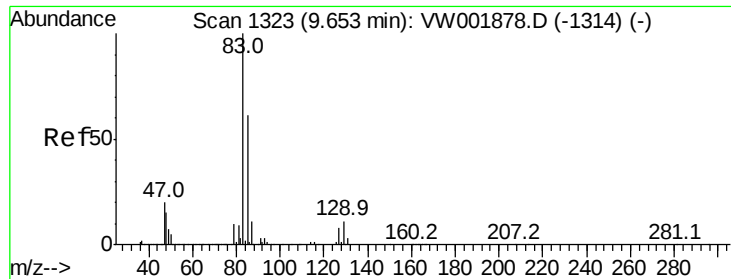
Tgt Ion: 83 Resp: 18900  
Ion Ratio Lower Upper  
83 100  
55 93.3 67.0 100.4  
98 44.7 35.9 53.9



#40  
1,2-Dichloropropane  
Concen: 2.45 ug/L  
RT: 9.38 min Scan# 1278  
Delta R.T. -0.00 min  
Lab File: VW001876.D  
Acq: 05 Apr 2018 13:07

Tgt Ion: 63 Resp: 15129  
Ion Ratio Lower Upper  
63 100  
112 3.6 2.9 4.3





#41

Bromodichloromethane

Concen: 2.27 ug/L

RT: 9.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.581

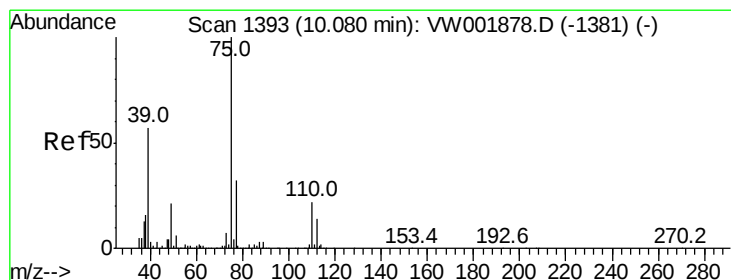
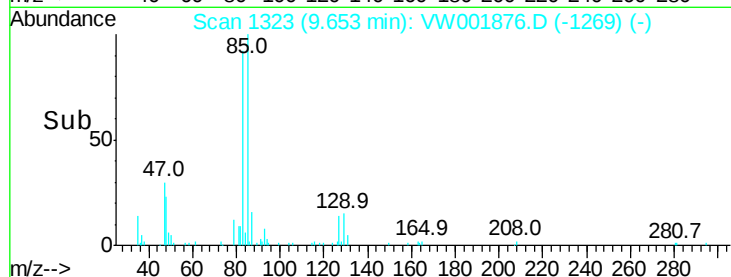
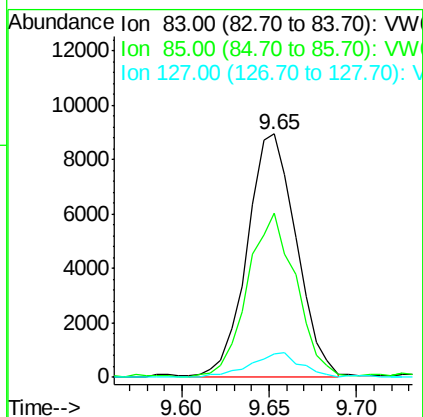
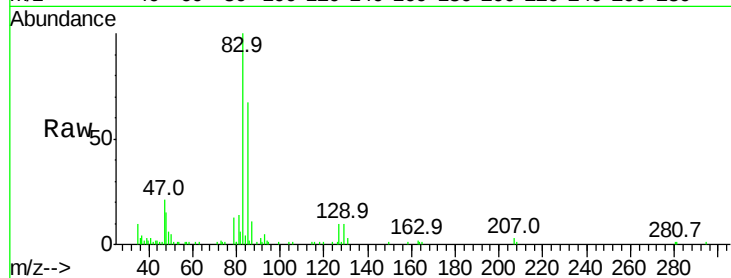
Tgt Ion: 83 Resp: 17496

Ion Ratio Lower Upper

83 100

85 67.3 42.7 79.3

127 11.1 6.5 9.7#



#42

cis-1,3-Dichloropropene

Concen: 2.13 ug/L

RT: 10.09 min Scan# 1394

Delta R.T. 0.01 min

Lab File: VW001876.D

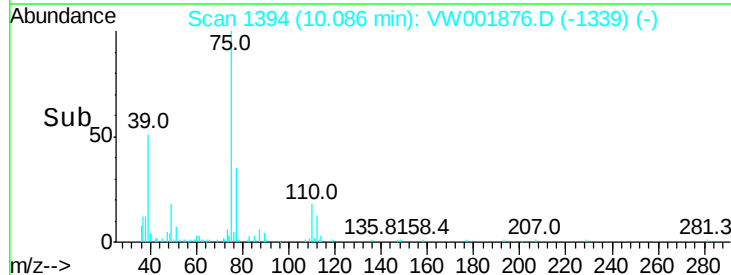
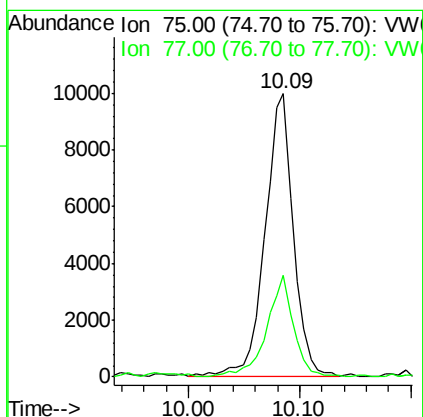
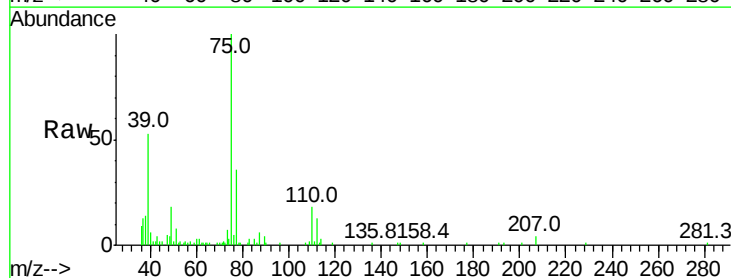
Acq: 05 Apr 2018 13:07

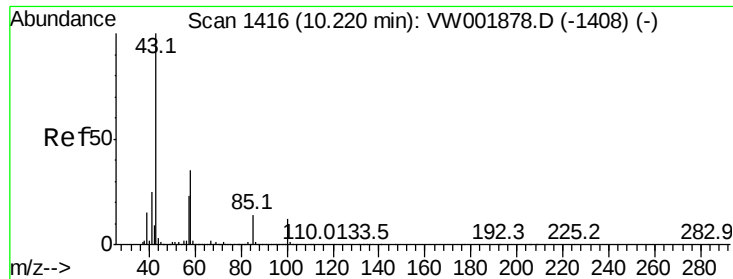
Tgt Ion: 75 Resp: 17696

Ion Ratio Lower Upper

75 100

77 35.7 22.7 42.1

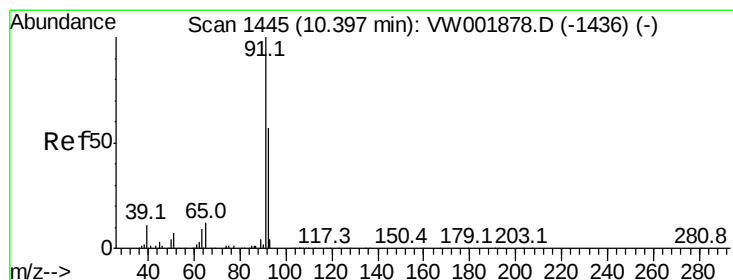
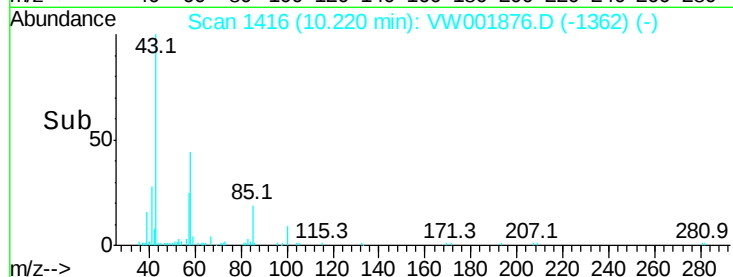
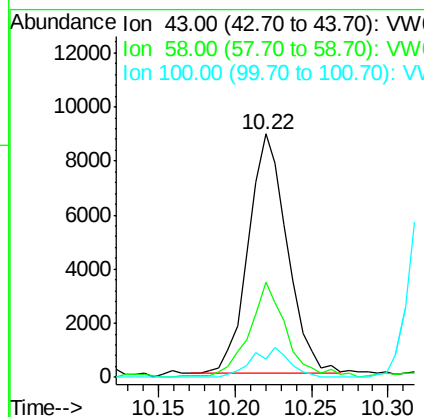
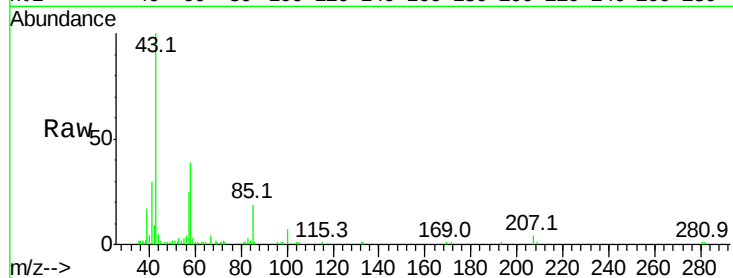




#43  
 4-Methyl-2-pentanone  
 Concen: 3.68 ug/L  
 RT: 10.22 min Scan# 1416  
 Delta R.T. -0.00 min  
 Lab File: VW001876.D  
 Acq: 05 Apr 2018 13:07

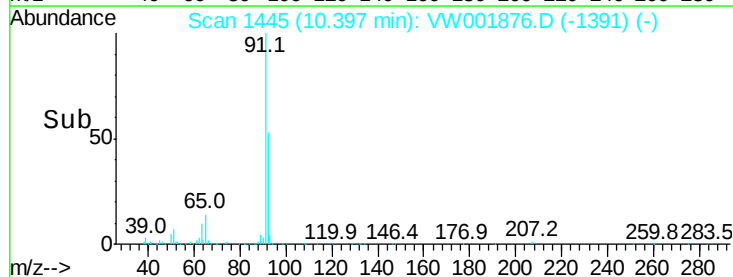
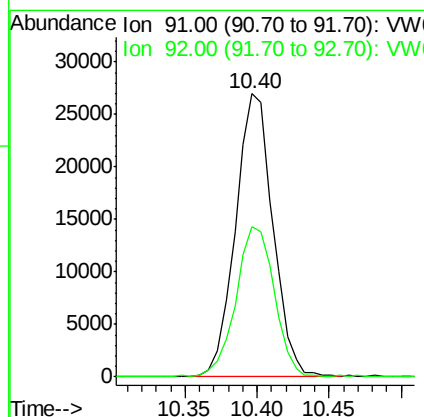
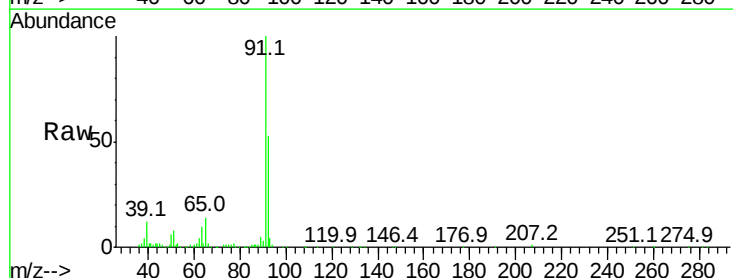
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD2.581

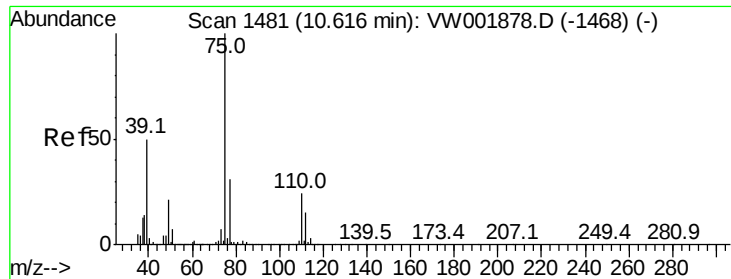
Tgt Ion: 43 Resp: 15701  
 Ion Ratio Lower Upper  
 43 100  
 58 37.9 28.1 42.1  
 100 11.8 9.6 14.4



#44  
 Toluene  
 Concen: 2.10 ug/L  
 RT: 10.40 min Scan# 1445  
 Delta R.T. -0.00 min  
 Lab File: VW001876.D  
 Acq: 05 Apr 2018 13:07

Tgt Ion: 91 Resp: 48708  
 Ion Ratio Lower Upper  
 91 100  
 92 53.3 40.0 74.2





#45

trans-1,3-Dichloropropene

Concen: 2.09 ug/L

RT: 10.62 min Scan# 1481

Delta R.T. -0.00 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

Instrument :

MSVOA\_W

ClientSampleId :

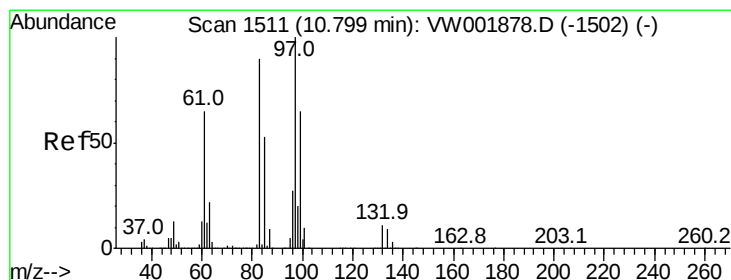
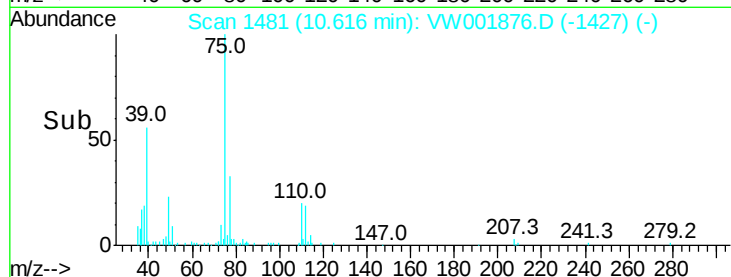
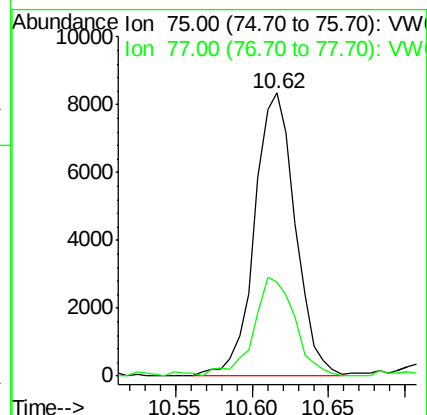
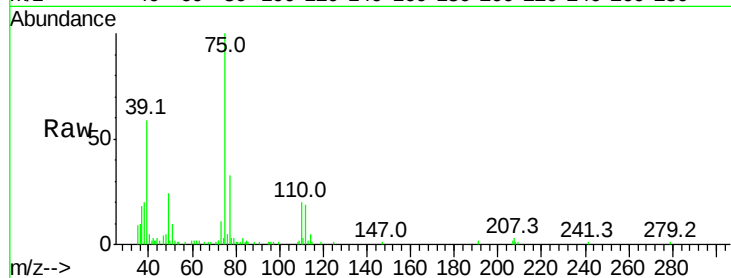
VSTD2.581

Tgt Ion: 75 Resp: 15548

Ion Ratio Lower Upper

75 100

77 33.1 21.8 40.6



#46

1,1,2-Trichloroethane

Concen: 2.42 ug/L

RT: 10.79 min Scan# 1510

Delta R.T. -0.01 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

Tgt Ion: 97 Resp: 11085

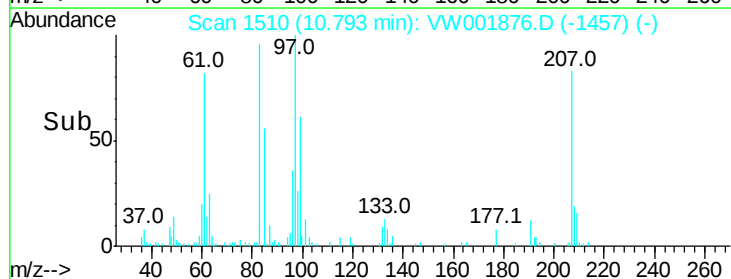
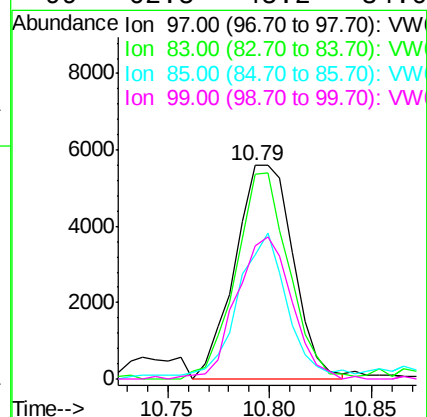
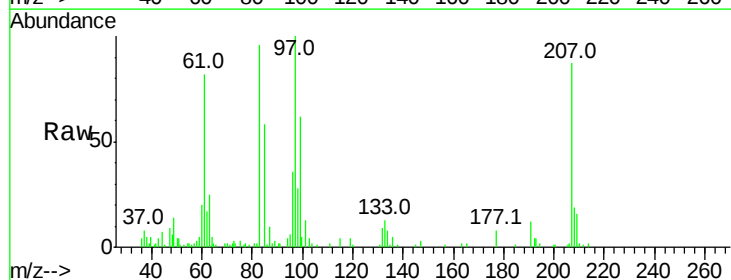
Ion Ratio Lower Upper

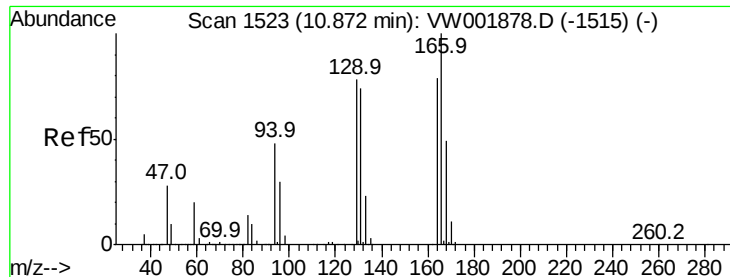
97 100

83 95.9 62.6 116.3

85 58.0 37.2 69.2

99 62.5 45.2 84.0





#47

Tetrachloroethene

Concen: 2.44 ug/L

RT: 10.87 min Scan# 1522

Delta R.T. -0.01 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.581

Tgt Ion:164 Resp: 11345

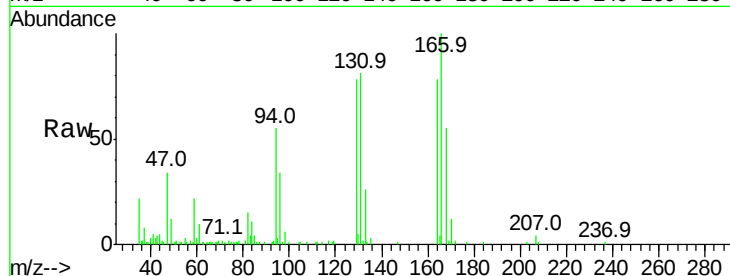
Ion Ratio Lower Upper

164 100

129 99.4 68.7 127.7

131 103.3 65.7 122.1

166 127.7 88.7 164.7

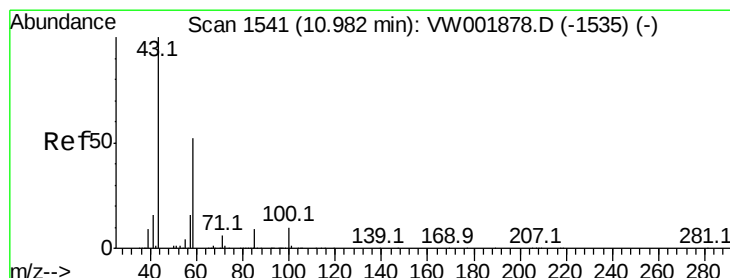
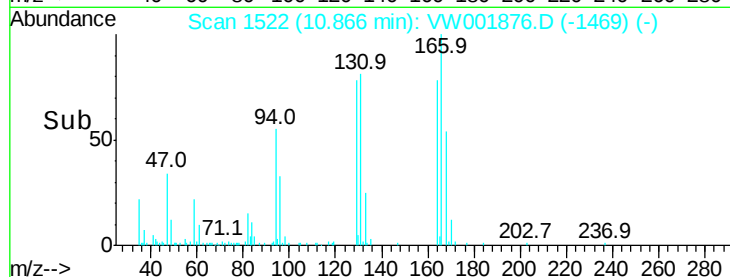
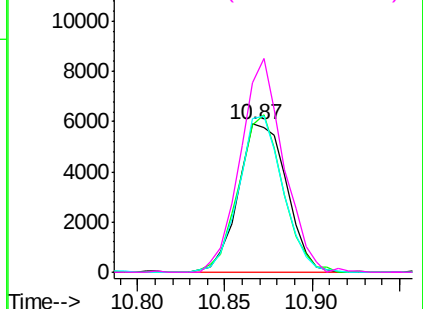


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#49

2-Hexanone

Concen: 3.59 ug/L

RT: 10.98 min Scan# 1541

Delta R.T. -0.00 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

Tgt Ion: 43 Resp: 11128

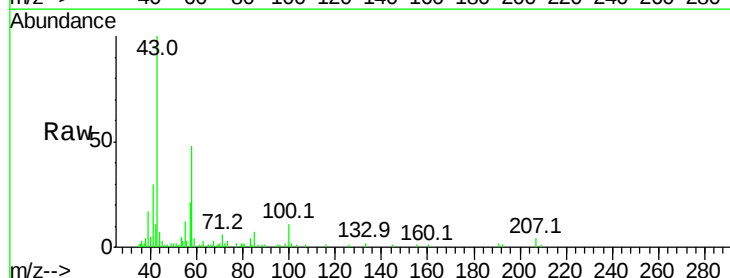
Ion Ratio Lower Upper

43 100

58 46.3 40.5 60.7

57 19.0 13.8 20.6

100 10.4 7.5 11.3

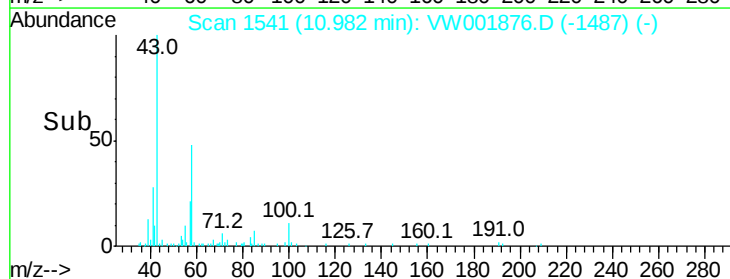
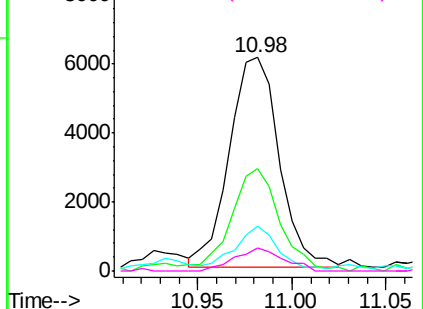


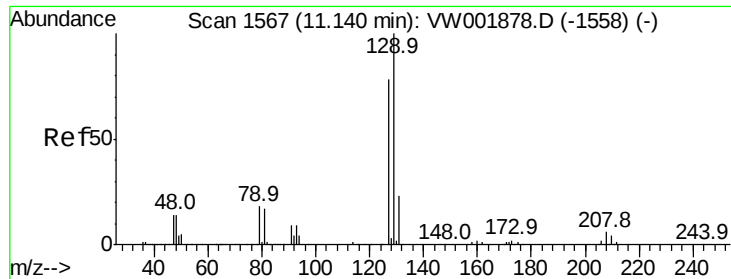
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 58.00 (57.70 to 58.70): VV

Ion 57.00 (56.70 to 57.70): VV

Ion 100.00 (99.70 to 100.70): VV





#50

Dibromochloromethane

Concen: 2.17 ug/L

RT: 11.14 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

Instrument :

MSVOA\_W

ClientSampleId :

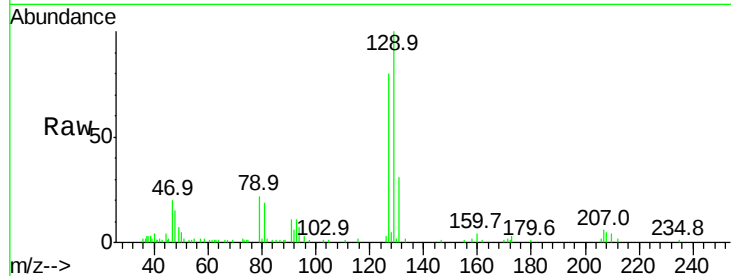
VSTD2.581

Tgt Ion:129 Resp: 11512

Ion Ratio Lower Upper

129 100

127 80.1 54.8 101.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

11.14

6000

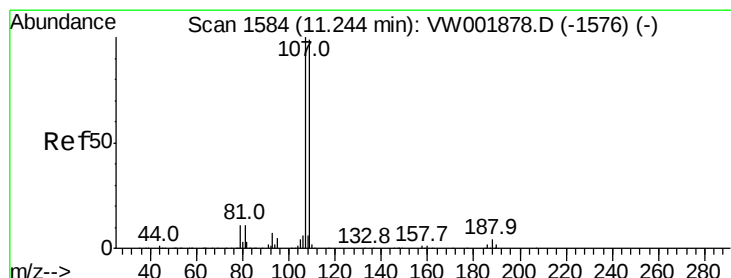
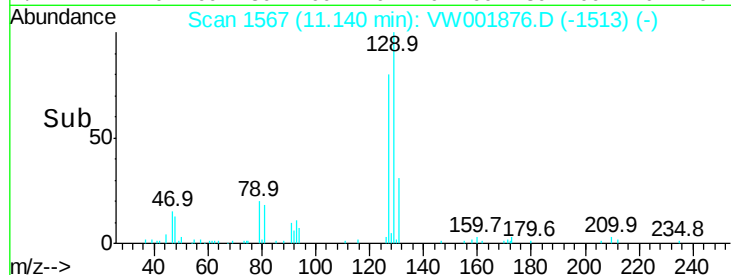
4000

2000

0

Time-->

11.10 11.15 11.20



#51

1,2-Dibromoethane

Concen: 2.23 ug/L

RT: 11.24 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

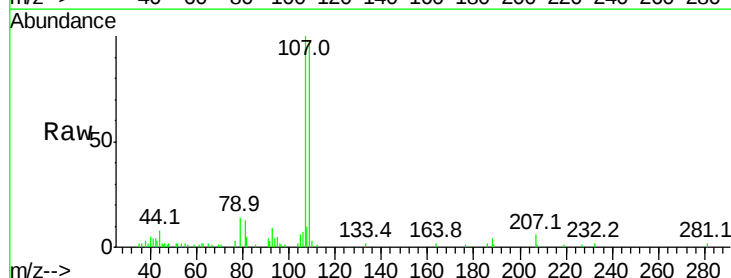
Tgt Ion:107 Resp: 9149

Ion Ratio Lower Upper

107 100

109 96.6 69.0 128.2

188 3.8 3.0 4.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

11.24

6000

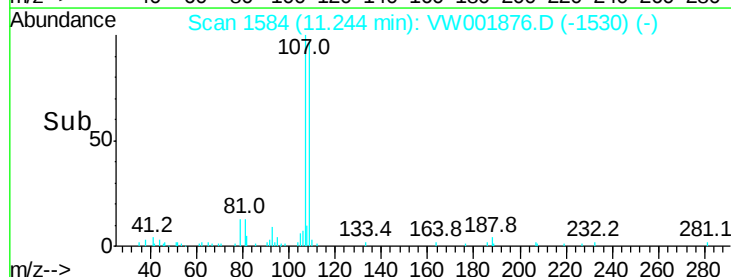
4000

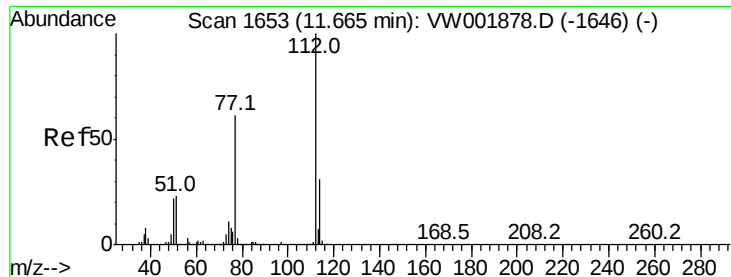
2000

0

Time-->

11.15 11.20 11.25 11.30





#52

Chlorobenzene

Concen: 2.33 ug/L

RT: 11.67 min Scan# 1654

Delta R.T. 0.01 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.581

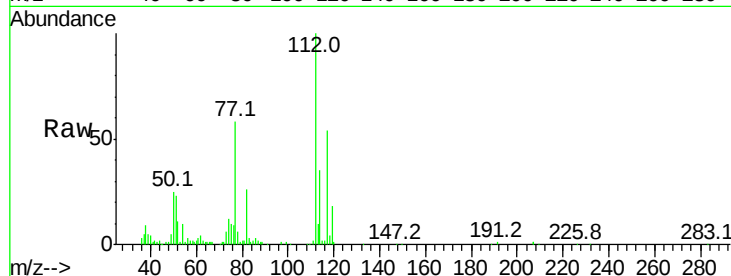
Tgt Ion: 112 Resp: 35367

Ion Ratio Lower Upper

112 100

77 57.6 49.4 74.0

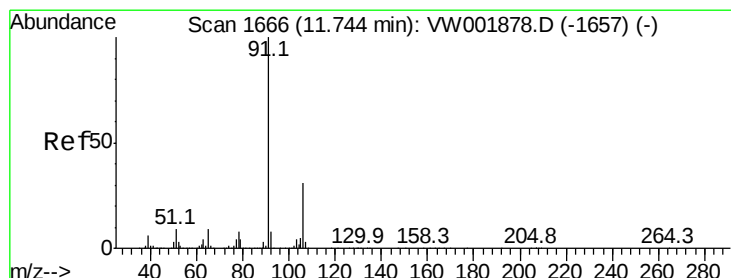
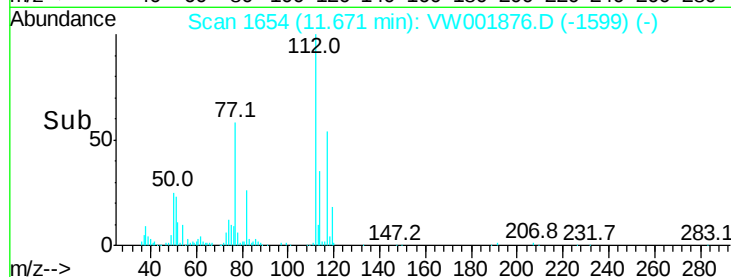
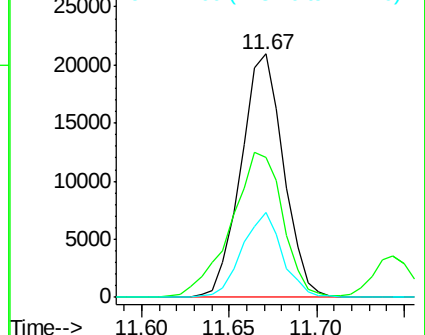
114 35.0 21.8 40.6



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 2.04 ug/L

RT: 11.74 min Scan# 1666

Delta R.T. -0.00 min

Lab File: VW001876.D

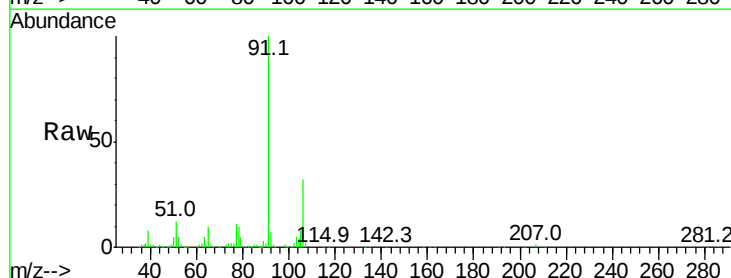
Acq: 05 Apr 2018 13:07

Tgt Ion: 91 Resp: 51863

Ion Ratio Lower Upper

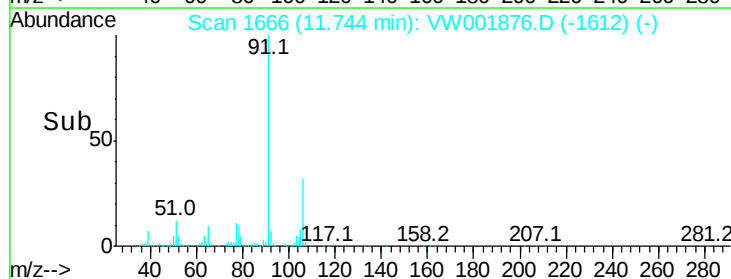
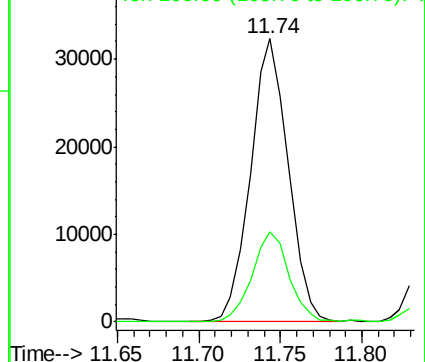
91 100

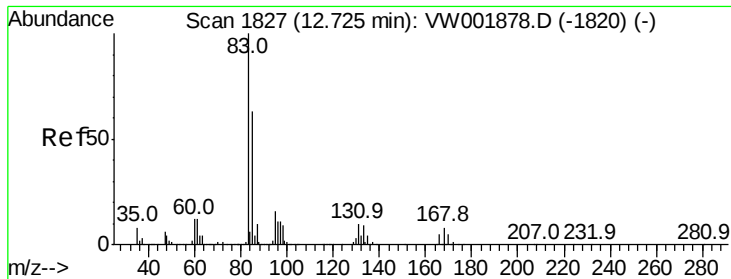
106 32.1 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#58

1,1,2,2-Tetrachloroethane

Concen: 2.25 ug/L

RT: 12.73 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.581

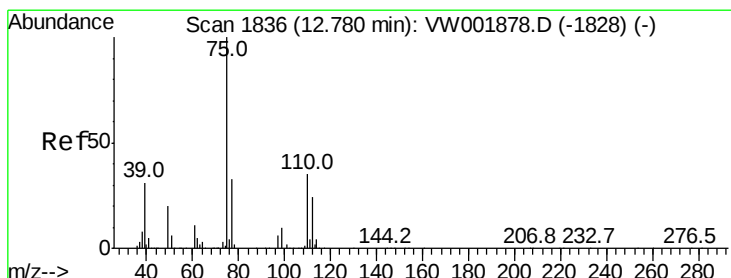
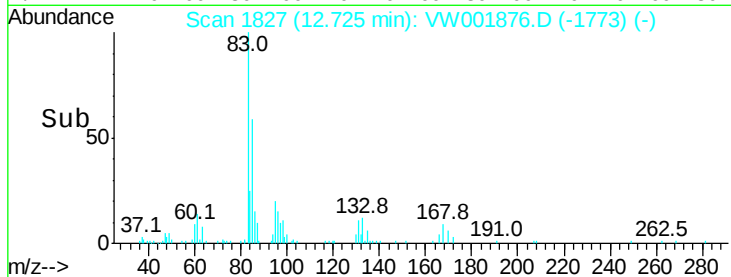
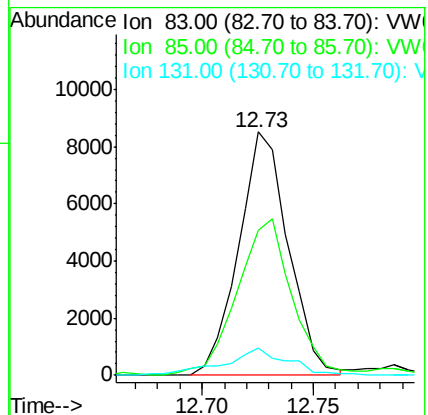
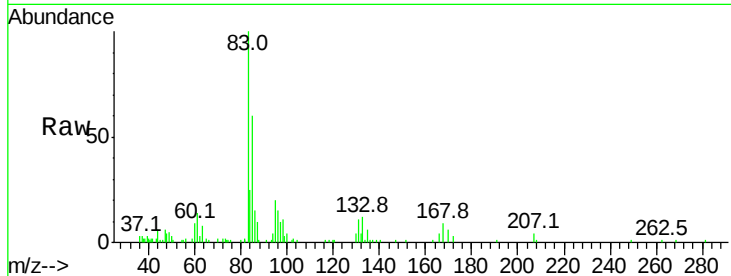
Tgt Ion: 83 Resp: 13236

Ion Ratio Lower Upper

83 100

85 59.7 44.0 81.6

131 11.0 8.0 12.0



#59

1,2,3-Trichloropropane

Concen: 2.24 ug/L

RT: 12.78 min Scan# 1836

Delta R.T. -0.00 min

Lab File: VW001876.D

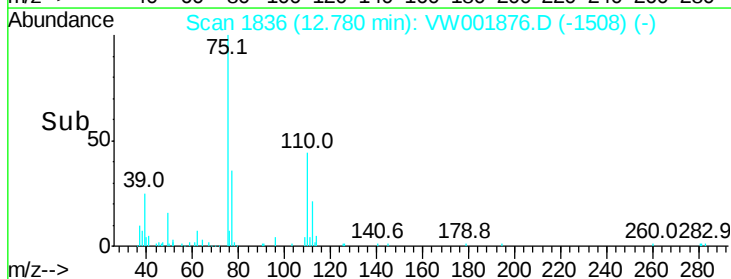
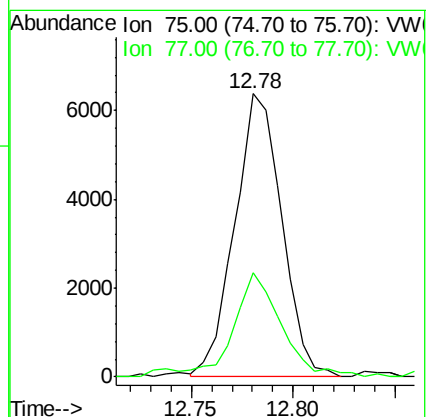
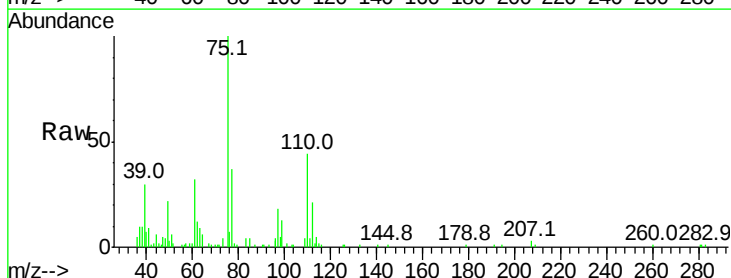
Acq: 05 Apr 2018 13:07

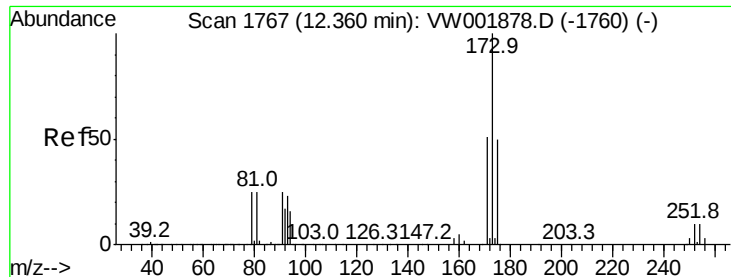
Tgt Ion: 75 Resp: 10221

Ion Ratio Lower Upper

75 100

77 35.1 26.5 39.7





#62

Bromoform

Concen: 2.54 ug/L

RT: 12.37 min Scan# 1768

Delta R.T. 0.01 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.581

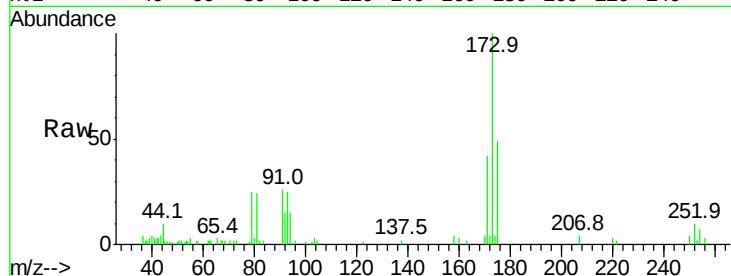
Tgt Ion:173 Resp: 7367

Ion Ratio Lower Upper

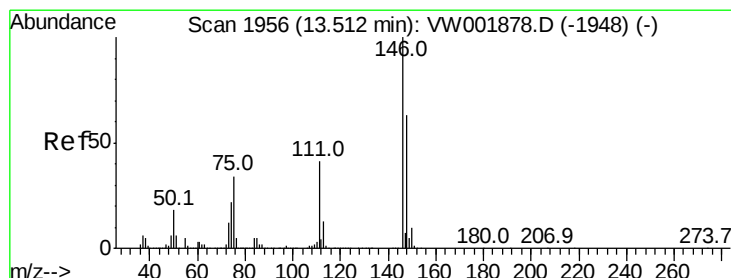
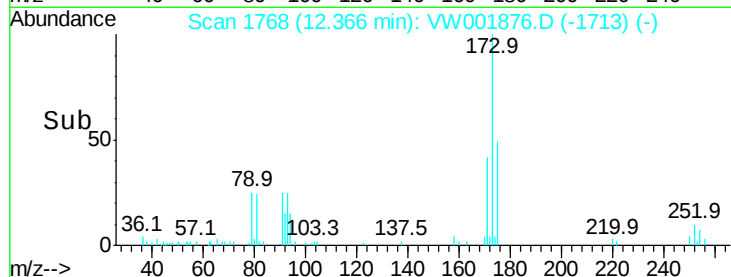
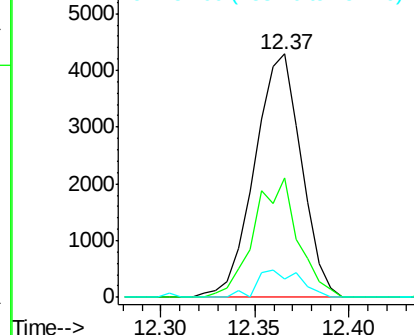
173 100

175 46.5 39.6 59.4

254 9.7 8.1 12.1



Abundance Ion 173.00 (172.70 to 173.70): V  
Ion 175.00 (174.70 to 175.70): V  
Ion 254.00 (253.70 to 254.70): V



#63

1,3-Dichlorobenzene

Concen: 2.34 ug/L

RT: 13.51 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW001876.D

Acq: 05 Apr 2018 13:07

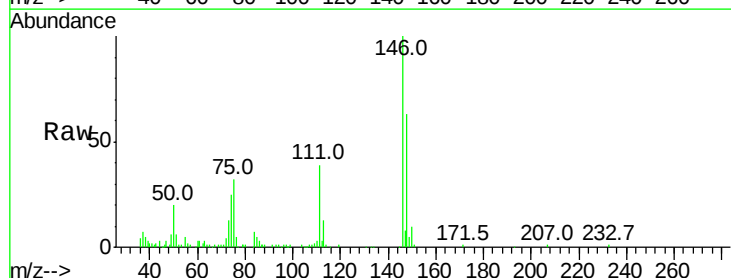
Tgt Ion:146 Resp: 23517

Ion Ratio Lower Upper

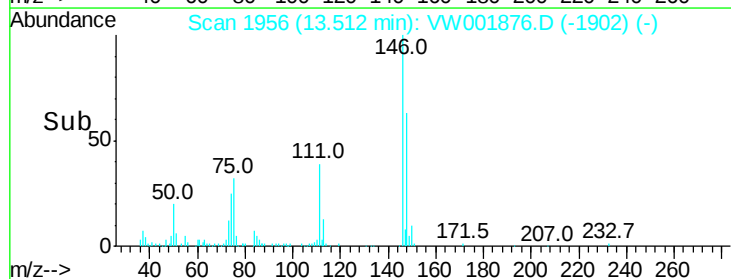
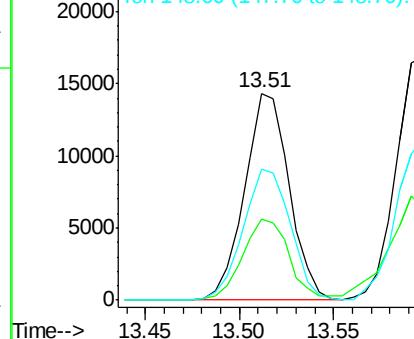
146 100

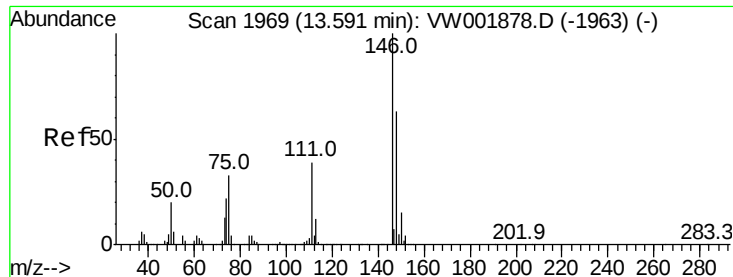
111 39.1 28.8 53.4

148 63.1 44.4 82.4



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V

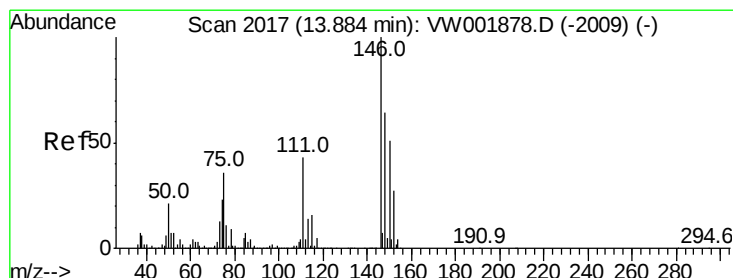
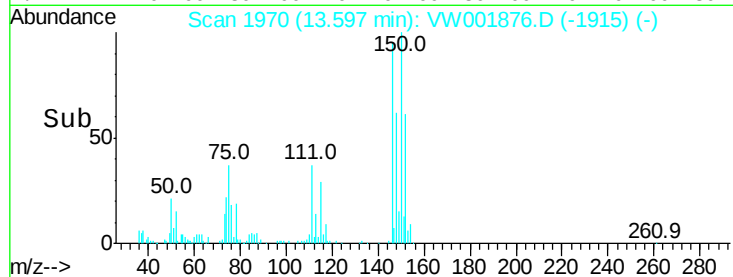
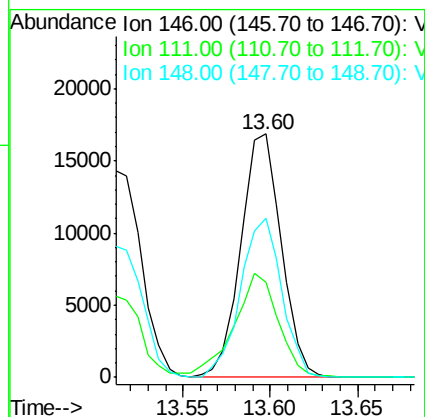
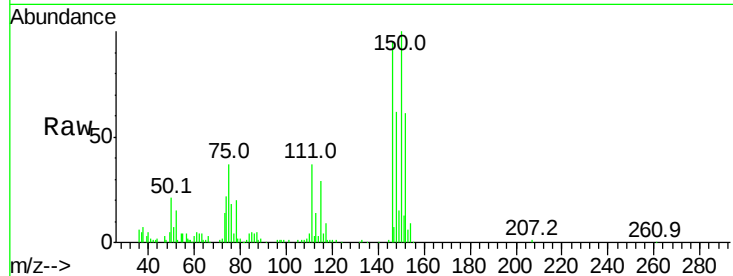




#64  
 1,4-Dichlorobenzene  
 Concen: 2.47 ug/L  
 RT: 13.60 min Scan# 1970  
 Delta R.T. 0.01 min  
 Lab File: VW001876.D  
 Acq: 05 Apr 2018 13:07

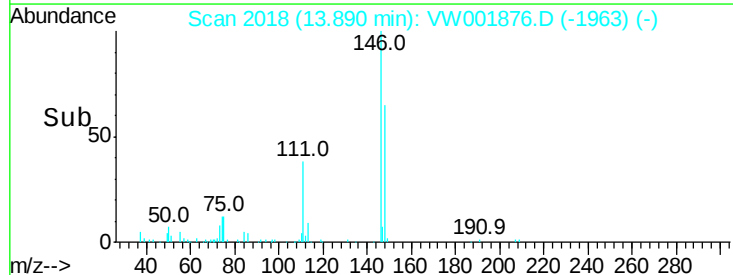
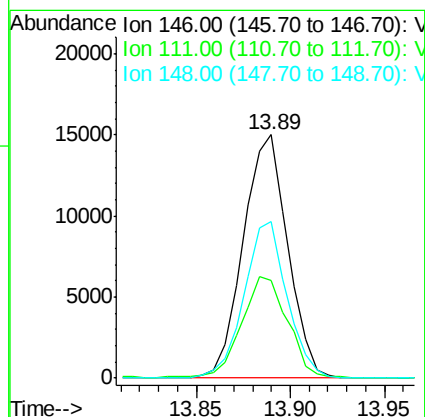
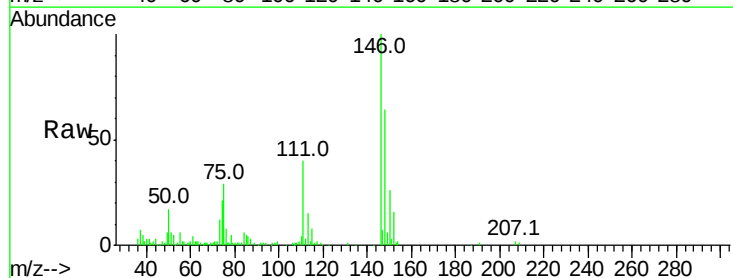
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD2.581

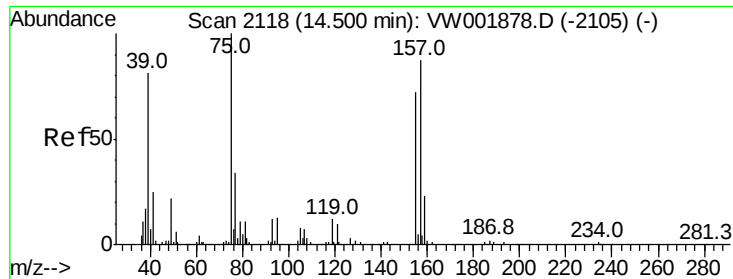
Tgt Ion:146 Resp: 27134  
 Ion Ratio Lower Upper  
 146 100  
 111 39.0 27.6 51.2  
 148 65.4 44.3 82.3



#65  
 1,2-Dichlorobenzene  
 Concen: 2.47 ug/L  
 RT: 13.89 min Scan# 2018  
 Delta R.T. 0.01 min  
 Lab File: VW001876.D  
 Acq: 05 Apr 2018 13:07

Tgt Ion:146 Resp: 24584  
 Ion Ratio Lower Upper  
 146 100  
 111 40.1 34.4 51.6  
 148 64.4 51.2 76.8

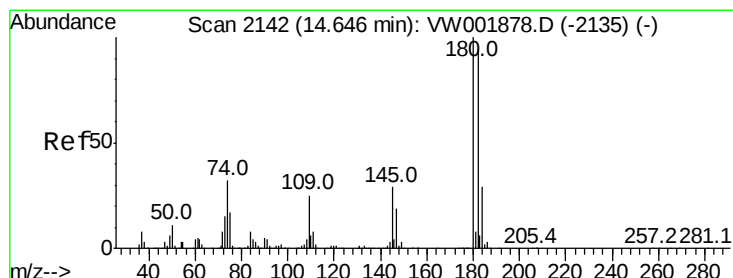
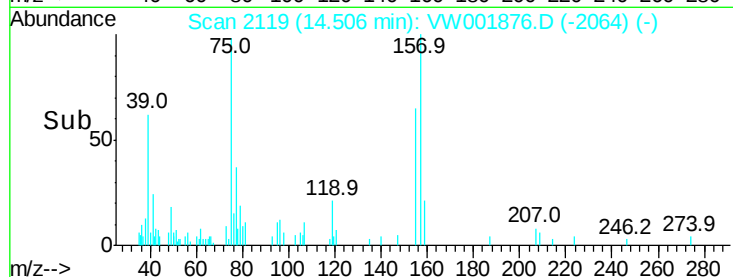
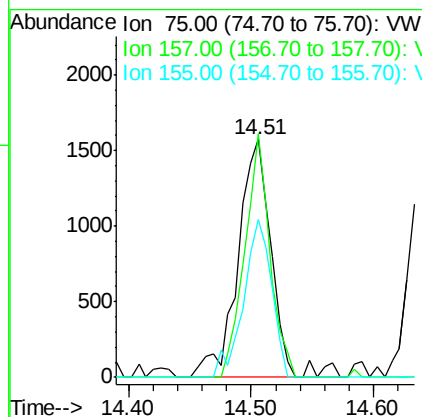
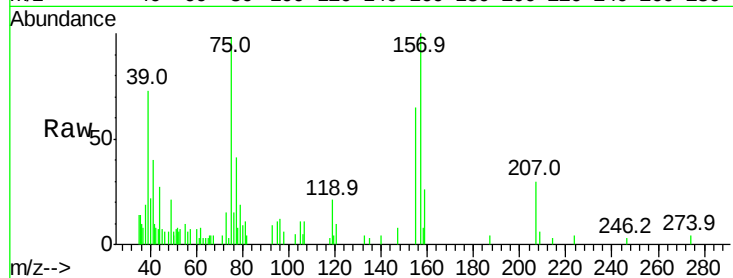




#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 3.02 ug/L  
 RT: 14.51 min Scan# 2119  
 Delta R.T. 0.01 min  
 Lab File: VW001876.D  
 Acq: 05 Apr 2018 13:07

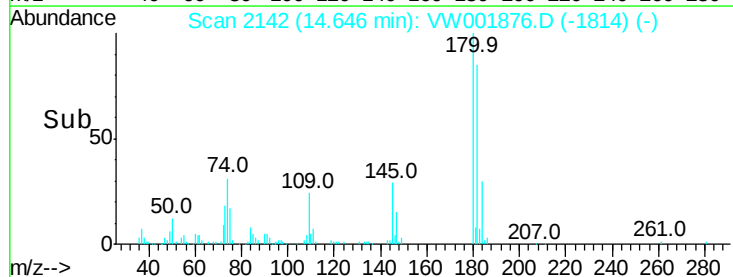
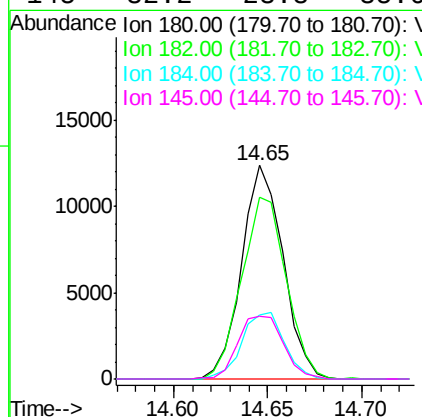
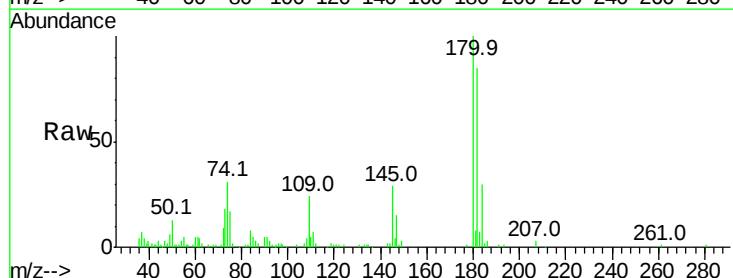
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD2.581

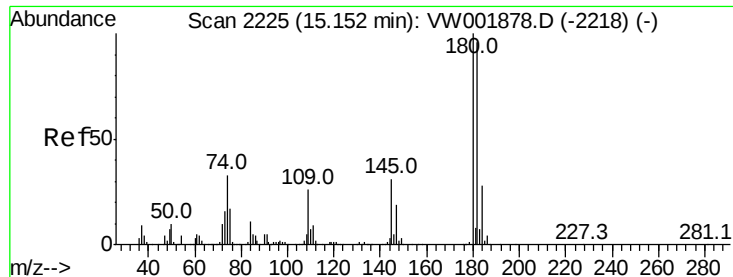
Tgt Ion: 75 Resp: 2997  
 Ion Ratio Lower Upper  
 75 100  
 157 102.2 69.5 104.3  
 155 66.3 57.4 86.0



#67  
 1,3,5-Trichlorobenzene  
 Concen: 2.42 ug/L  
 RT: 14.65 min Scan# 2142  
 Delta R.T. -0.00 min  
 Lab File: VW001876.D  
 Acq: 05 Apr 2018 13:07

Tgt Ion: 180 Resp: 18853  
 Ion Ratio Lower Upper  
 180 100  
 182 91.9 75.9 113.9  
 184 32.0 24.1 36.1  
 145 32.2 23.8 35.6

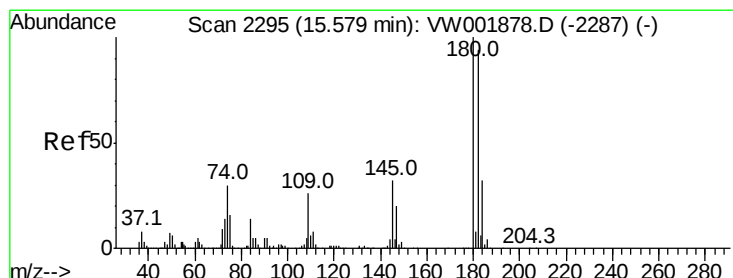
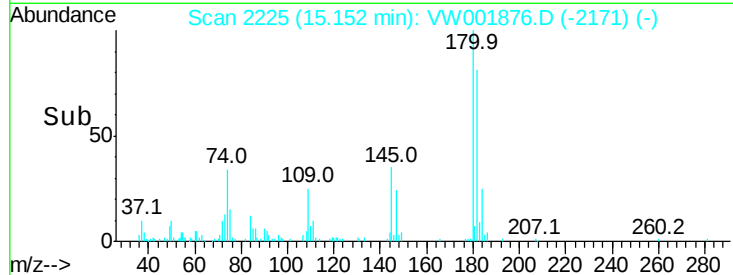
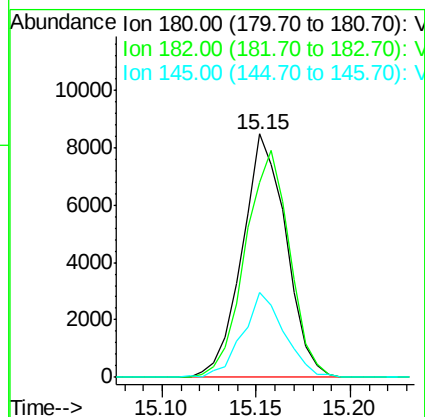
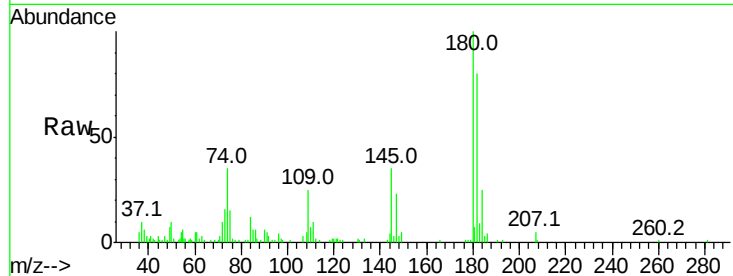




#68  
 1,2,4-trichlorobenzene  
 Concen: 2.25 ug/L  
 RT: 15.15 min Scan# 2225  
 Delta R.T. -0.00 min  
 Lab File: VW001876.D  
 Acq: 05 Apr 2018 13:07

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD2.581

Tgt Ion:180 Resp: 13686  
 Ion Ratio Lower Upper  
 180 100  
 182 94.2 77.1 115.7  
 145 32.9 24.6 36.8



#70  
 1,2,3-Trichlorobenzene  
 Concen: 2.24 ug/L  
 RT: 15.58 min Scan# 2295  
 Delta R.T. -0.00 min  
 Lab File: VW001876.D  
 Acq: 05 Apr 2018 13:07

Tgt Ion:180 Resp: 13098  
 Ion Ratio Lower Upper  
 180 100  
 182 90.2 75.8 113.8  
 145 32.8 25.9 38.9

