

Data File : VW008612.D  
Acq On : 11 Feb 2019 21:48  
Operator : SY/VA  
Sample : K1459-11RE  
Misc : 5.10G/5ML/MSVOA\_W/SOIL  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
M-11-SRE

Quant Time: Feb 12 04:36:40 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W012419S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 25 11:07:41 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 274522   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 430750   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 374291   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 167104   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 147042   | 54.52 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.04% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 133990   | 53.20 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.40% |      |
| 50) Toluene-d8            | 10.32  | 98  | 508054   | 50.30 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.60% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 170993   | 44.04 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 88.08%  |      |

#### Target Compounds

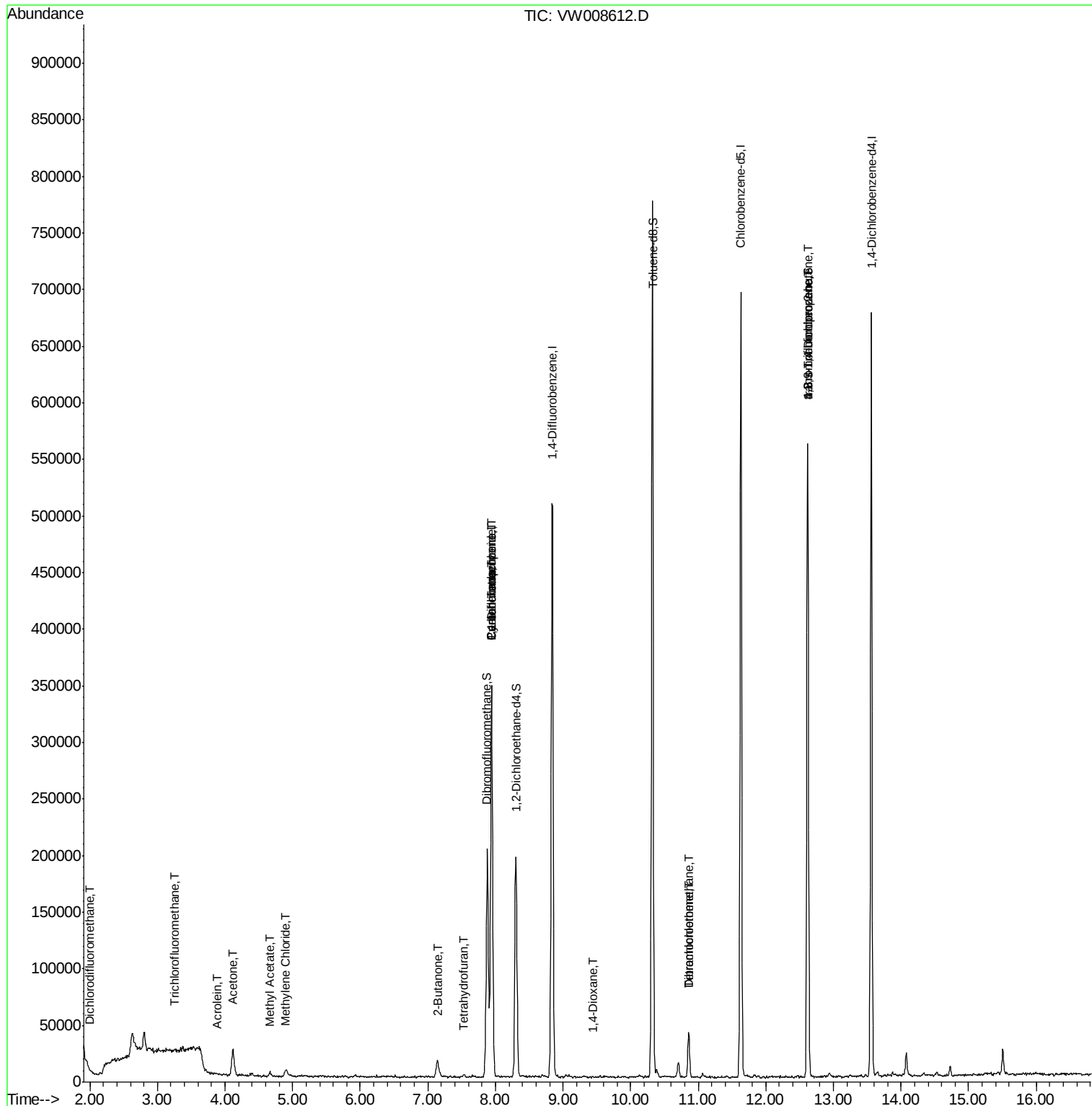
|                                |       |     |       |         |        | Qvalue |
|--------------------------------|-------|-----|-------|---------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.00  | 85  | 56    | 3.285   | ug/l # | 41     |
| 7) Trichlorofluoromethane      | 3.25  | 101 | 85    | 4.756   | ug/l # | 34     |
| 13) Acrolein                   | 3.88  | 56  | 408   | 6.279   | ug/l # | 2      |
| 16) Acetone                    | 4.12  | 43  | 36660 | 60.532  | ug/l # | 83     |
| 18) Methyl Acetate             | 4.67  | 43  | 5127  | 3.174   | ug/l # | 88     |
| 20) Methylene Chloride         | 4.90  | 84  | 3462  | 1.240   | ug/l # | 66     |
| 25) 2-Butanone                 | 7.15  | 43  | 1522  | 1.809   | ug/l # | 85     |
| 29) Tetrahydrofuran            | 7.54  | 42  | 1847  | 3.465   | ug/l # | 92     |
| 31) Cyclohexane                | 7.94  | 56  | 6627  | 1.252   | ug/l # | 28     |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 20691 | 5.085   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.94  | 117 | 26129 | 6.381   | ug/l # | 17     |
| 49) 1,4-Dioxane                | 9.45  | 88  | 25    | 1.021   | ug/l # | 1      |
| 60) Dibromochloromethane       | 10.86 | 129 | 7384  | 2.861   | ug/l # | 10     |
| 64) Tetrachloroethene          | 10.87 | 164 | 9170  | 3.619   | ug/l # | 82     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 91560 | 63.021  | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 91560 | 124.471 | ug/l # | 12     |

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008612.D

Acq: 11 Feb 2019 21:48

Instrument :

MSVOA\_W

ClientSampleId :

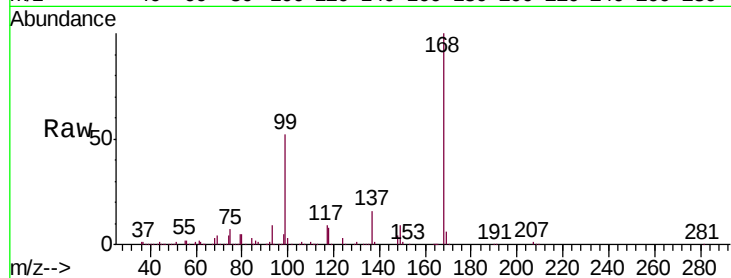
M-11-SRE

Tgt Ion: 168 Resp: 274522

Ion Ratio Lower Upper

168 100

99 51.8 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

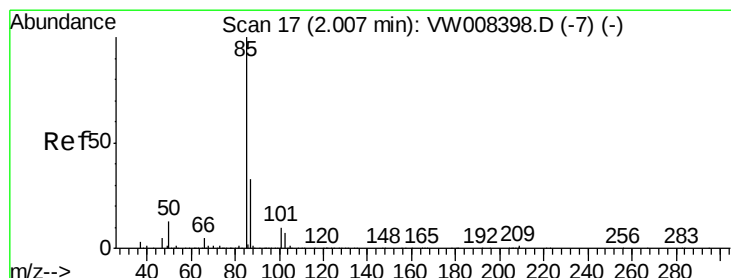
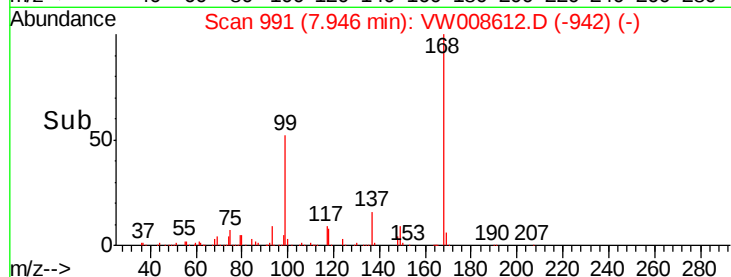
100000

50000

0

Time-->

7.90 8.00



#2

Dichlorodifluoromethane

Concen: 3.285 ug/l

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW008612.D

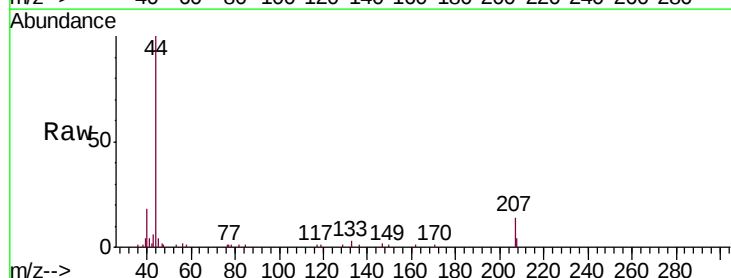
Acq: 11 Feb 2019 21:48

Tgt Ion: 85 Resp: 56

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

80

60

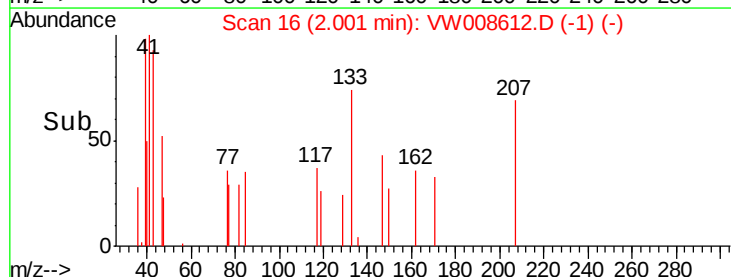
40

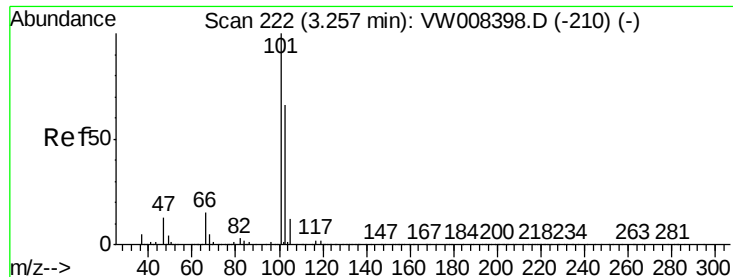
20

0

Time-->

1.98 2.00 2.02



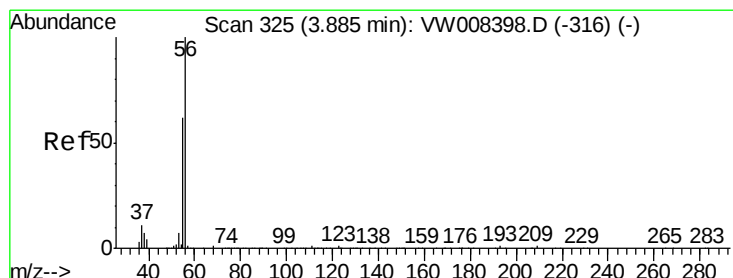
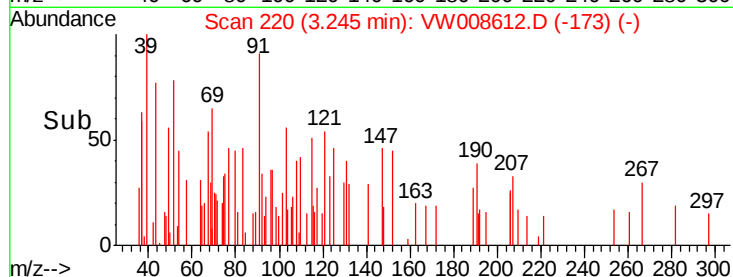
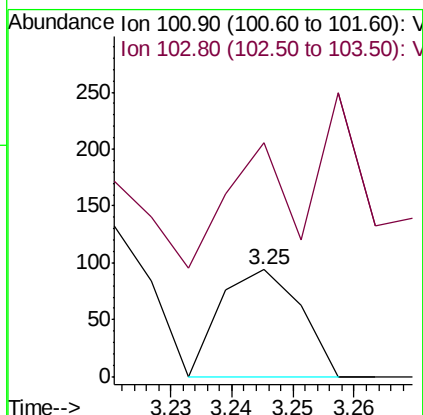
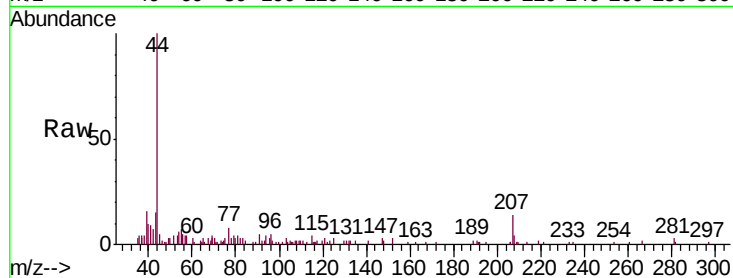


#7

Trichlorofluoromethane  
Concen: 4.756 ug/l  
RT: 3.25 min Scan# 220  
Delta R.T. -0.01 min  
Lab File: VW008612.D  
Acq: 11 Feb 2019 21:48

Instrument :  
MSVOA\_W  
ClientSampleId :  
M-11-SRE

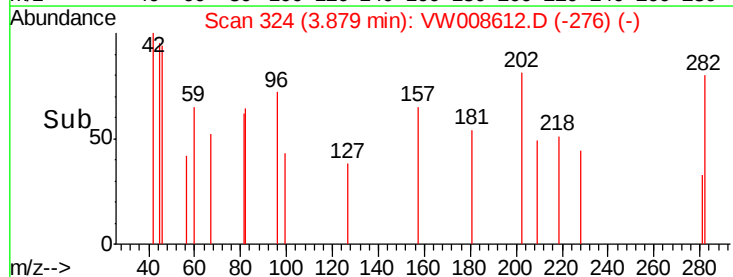
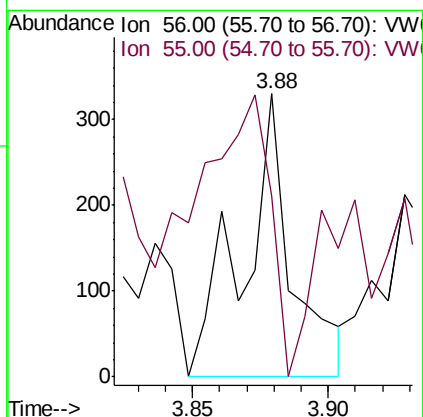
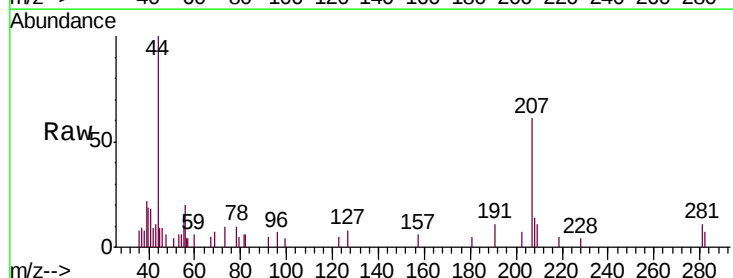
Tgt Ion: 101 Resp: 85  
Ion Ratio Lower Upper  
101 100  
103 118.1 52.5 78.7#

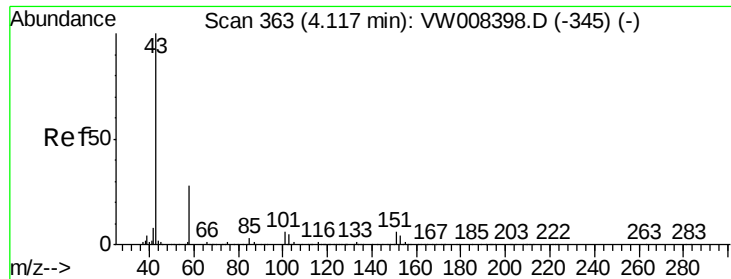


#13

Acrolein  
Concen: 6.279 ug/l  
RT: 3.88 min Scan# 324  
Delta R.T. -0.01 min  
Lab File: VW008612.D  
Acq: 11 Feb 2019 21:48

Tgt Ion: 56 Resp: 408  
Ion Ratio Lower Upper  
56 100  
55 152.2 56.7 85.1#

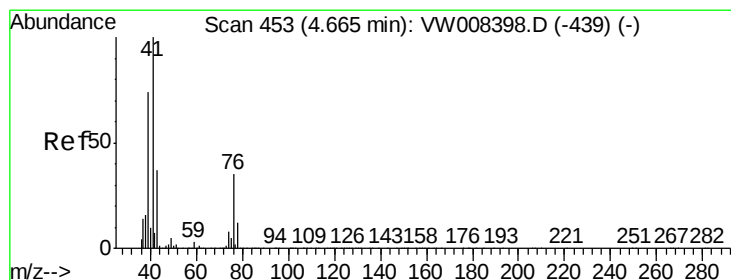
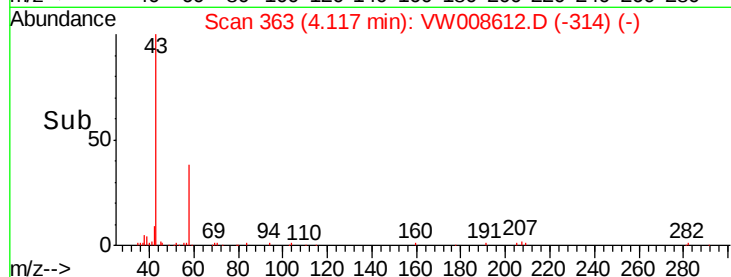
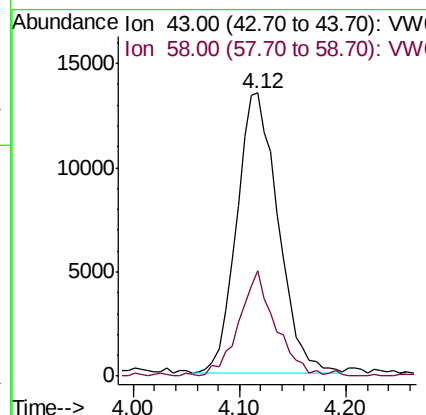
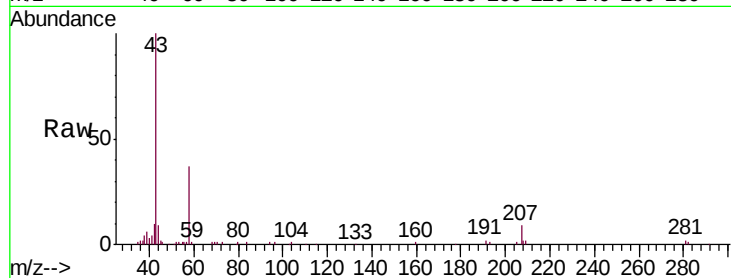




#16  
Acetone  
Concen: 60.532 ug/l  
RT: 4.12 min Scan# 363  
Delta R.T. 0.00 min  
Lab File: VW008612.D  
Acq: 11 Feb 2019 21:48

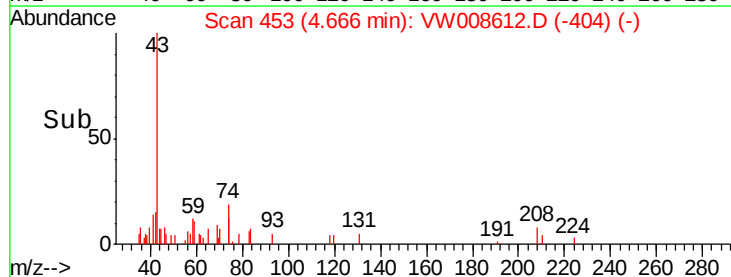
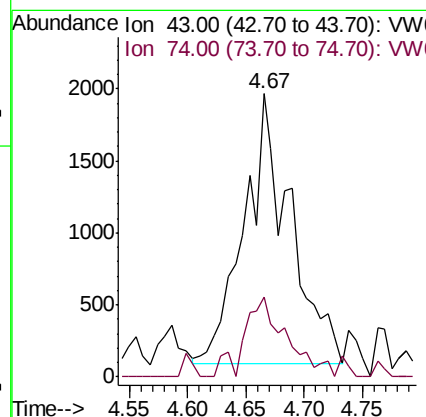
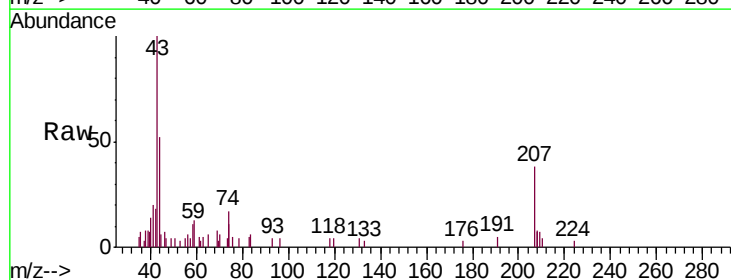
Instrument :  
MSVOA\_W  
ClientSampleId :  
M-11-SRE

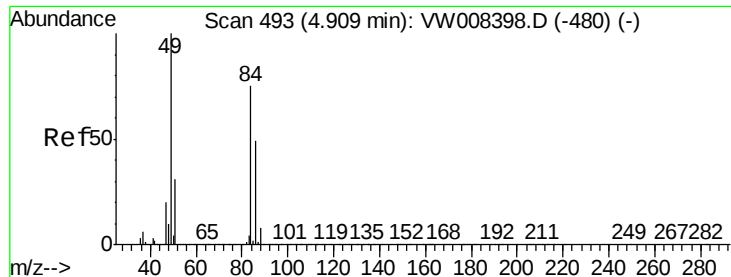
Tgt Ion: 43 Resp: 36660  
Ion Ratio Lower Upper  
43 100  
58 37.1 22.6 34.0#



#18  
Methyl Acetate  
Concen: 3.174 ug/l  
RT: 4.67 min Scan# 453  
Delta R.T. 0.00 min  
Lab File: VW008612.D  
Acq: 11 Feb 2019 21:48

Tgt Ion: 43 Resp: 5127  
Ion Ratio Lower Upper  
43 100  
74 27.5 17.5 26.3#





#20

Methylene Chloride

Concen: 1.240 ug/l

RT: 4.90 min Scan# 491

Delta R.T. -0.01 min

Lab File: VW008612.D

Acq: 11 Feb 2019 21:48

Instrument :

MSVOA\_W

ClientSampled :

M-11-SRE

Tgt Ion: 84 Resp: 3462

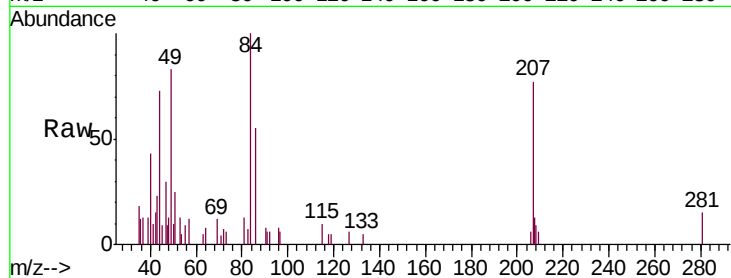
Ion Ratio Lower Upper

84 100

49 78.3 106.8 160.2#

51 24.9 32.9 49.3#

86 54.9 52.2 78.2



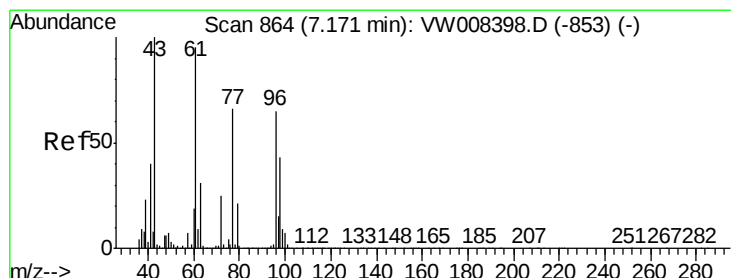
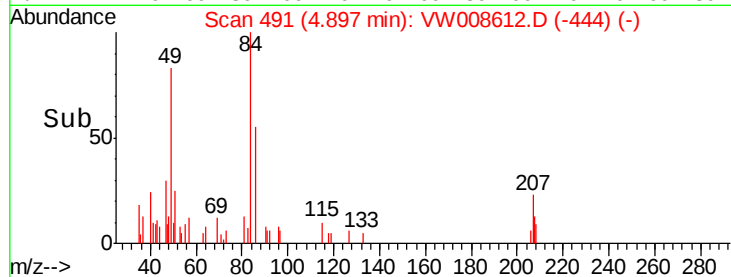
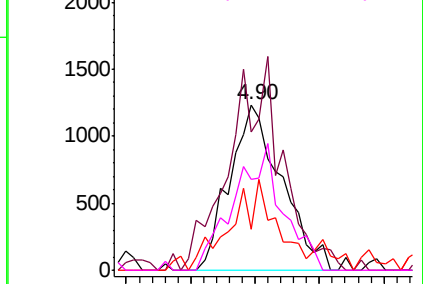
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#25

2-Butanone

Concen: 1.809 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.02 min

Lab File: VW008612.D

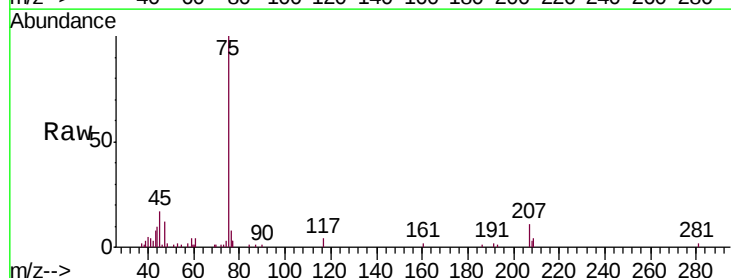
Acq: 11 Feb 2019 21:48

Tgt Ion: 43 Resp: 1522

Ion Ratio Lower Upper

43 100

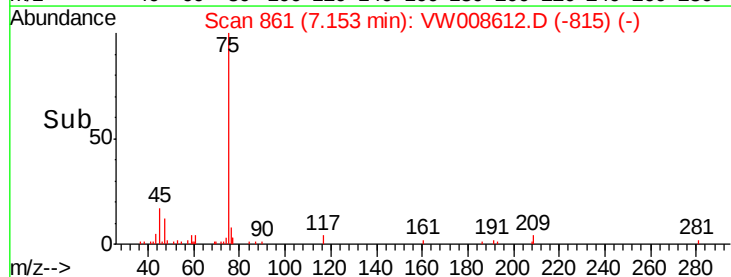
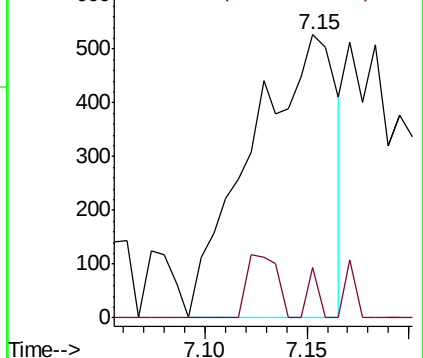
72 17.6 20.1 30.1#

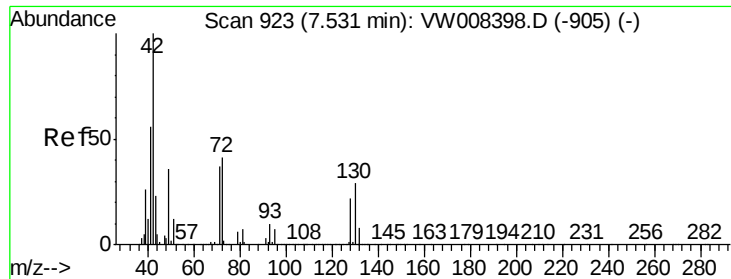


Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

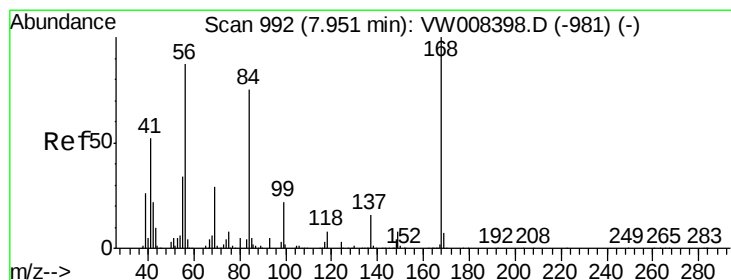
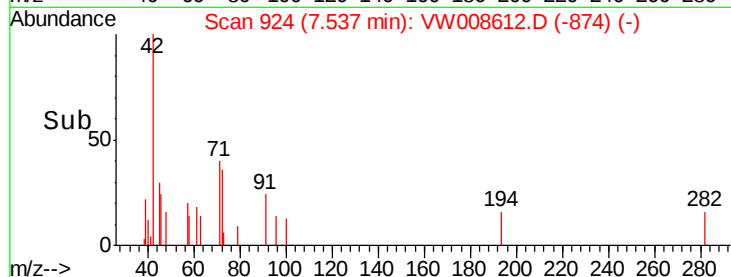
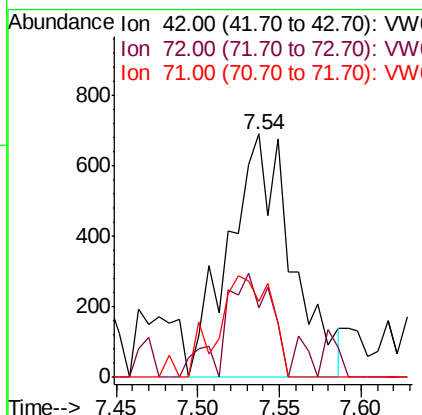
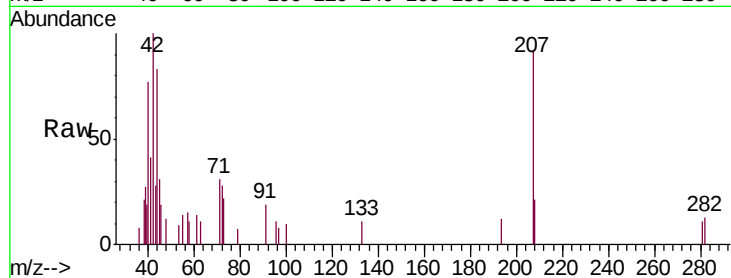




#29  
Tetrahydrofuran  
Concen: 3.465 ug/l  
RT: 7.54 min Scan# 924  
Delta R.T. 0.01 min  
Lab File: VW008612.D  
Acq: 11 Feb 2019 21:48

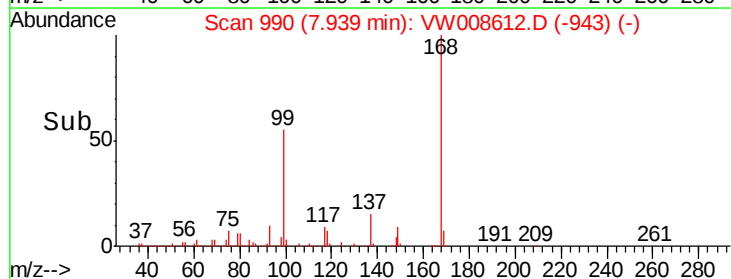
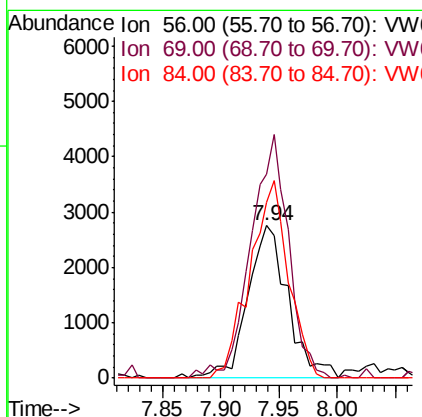
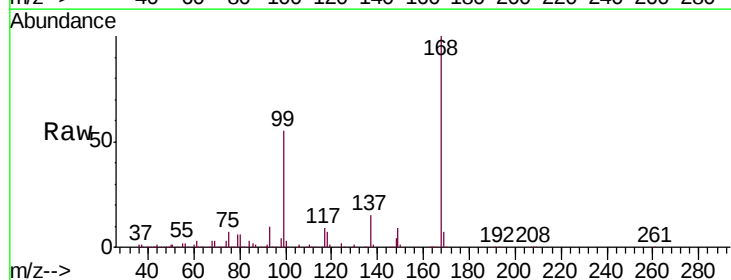
Instrument :  
MSVOA\_W  
ClientSampled :  
M-11-SRE

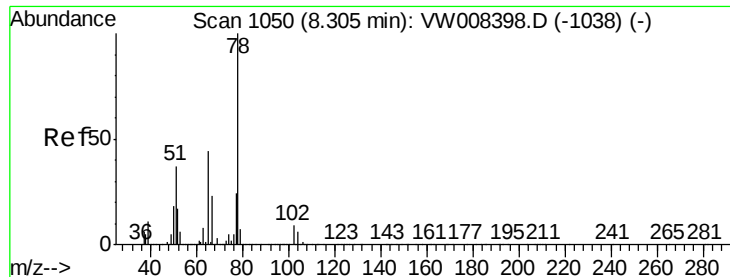
Tgt Ion: 42 Resp: 1847  
Ion Ratio Lower Upper  
42 100  
72 31.8 31.9 47.9#  
71 36.1 29.9 44.9



#31  
Cyclohexane  
Concen: 1.252 ug/l  
RT: 7.94 min Scan# 990  
Delta R.T. -0.01 min  
Lab File: VW008612.D  
Acq: 11 Feb 2019 21:48

Tgt Ion: 56 Resp: 6627  
Ion Ratio Lower Upper  
56 100  
69 134.0 26.4 39.6#  
84 115.4 69.1 103.7#





#33

1,2-Dichloroethane-d4

Concen: 54.522 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008612.D

Acq: 11 Feb 2019 21:48

Instrument :

MSVOA\_W

ClientSampleId :

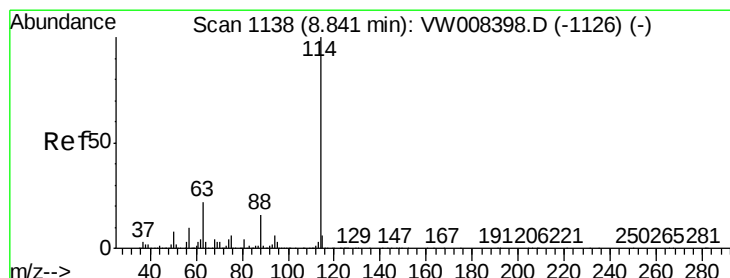
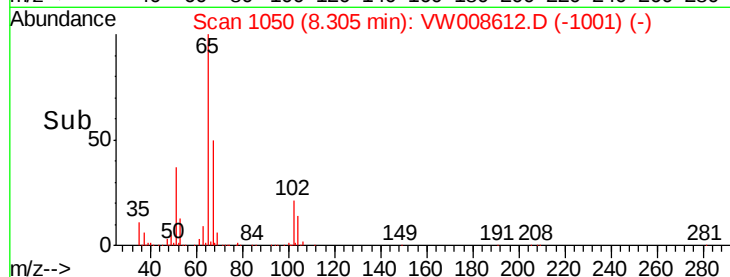
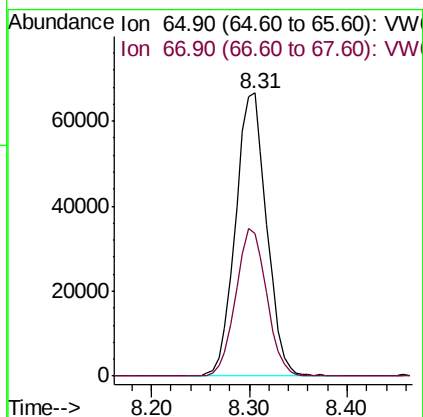
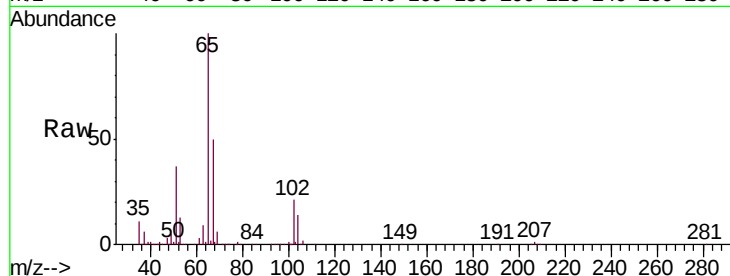
M-11-SRE

Tgt Ion: 65 Resp: 147042

Ion Ratio Lower Upper

65 100

67 51.8 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008612.D

Acq: 11 Feb 2019 21:48

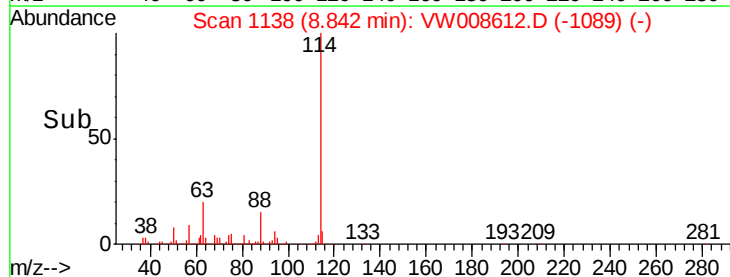
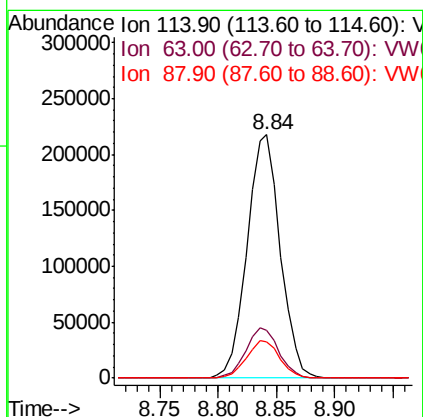
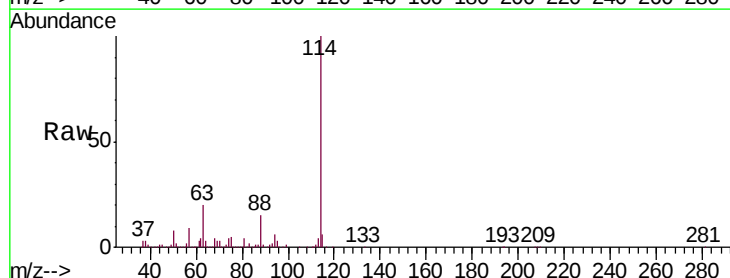
Tgt Ion: 114 Resp: 430750

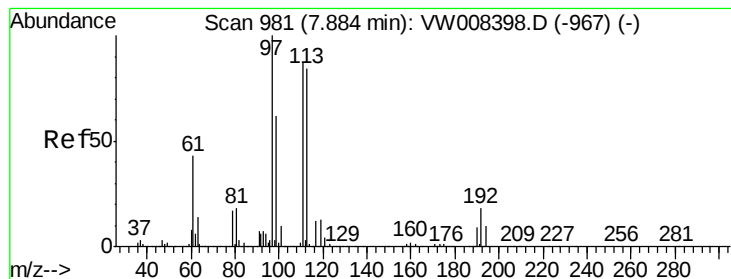
Ion Ratio Lower Upper

114 100

63 19.7 0.0 43.6

88 14.8 0.0 31.8





#35

Dibromofluoromethane

Concen: 53.197 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW008612.D

Acq: 11 Feb 2019 21:48

Instrument :

MSVOA\_W

ClientSampleId :

M-11-SRE

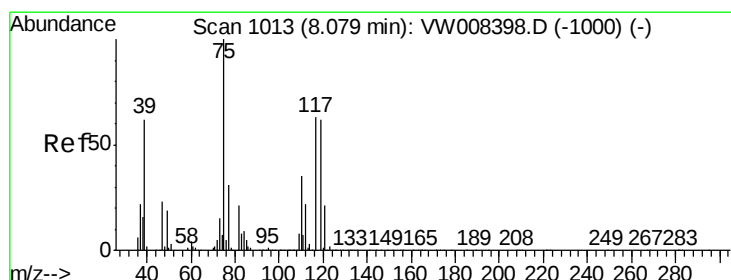
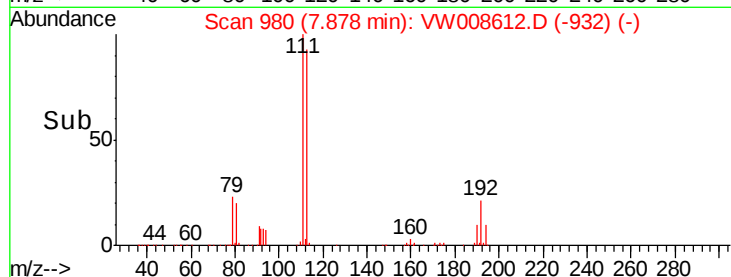
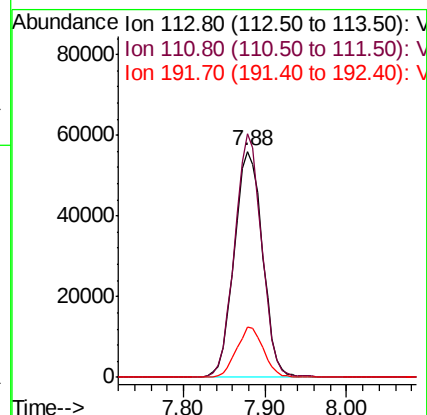
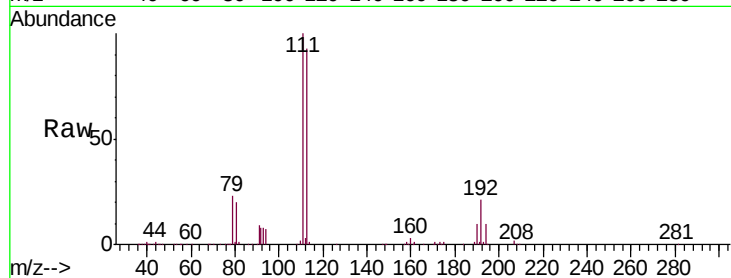
Tgt Ion:113 Resp: 133990

Ion Ratio Lower Upper

113 100

111 102.6 81.0 121.4

192 21.3 16.8 25.2



#36

1,1-Dichloropropene

Concen: 5.085 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW008612.D

Acq: 11 Feb 2019 21:48

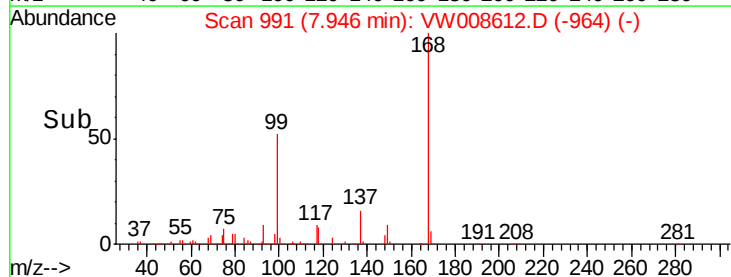
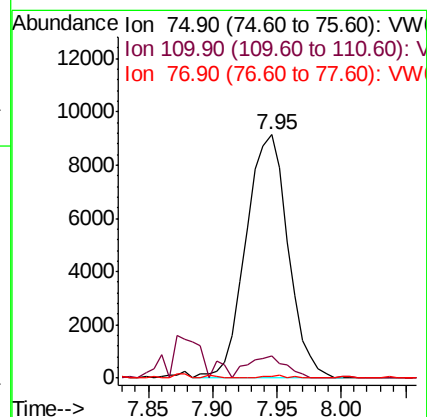
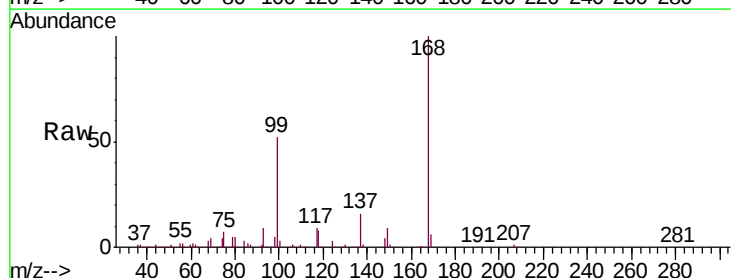
Tgt Ion: 75 Resp: 20691

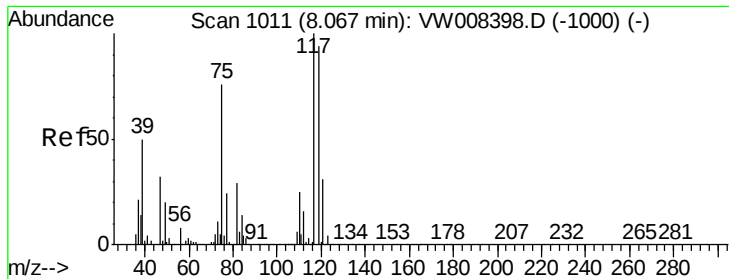
Ion Ratio Lower Upper

75 100

110 8.3 17.3 52.0#

77 0.6 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.381 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW008612.D

Acq: 11 Feb 2019 21:48

Instrument :

MSVOA\_W

ClientSampleId :

M-11-SRE

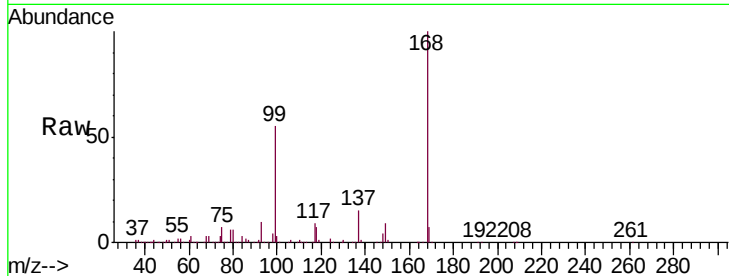
Tgt Ion:117 Resp: 26129

Ion Ratio Lower Upper

117 100

119 5.8 75.0 112.4#

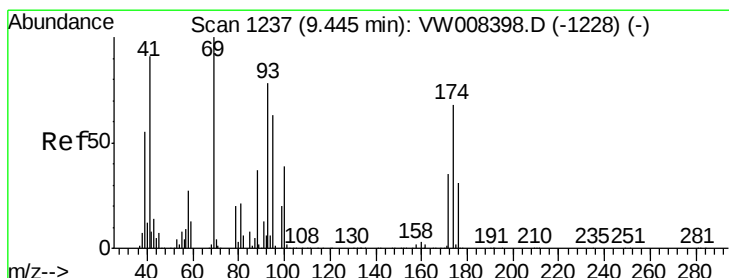
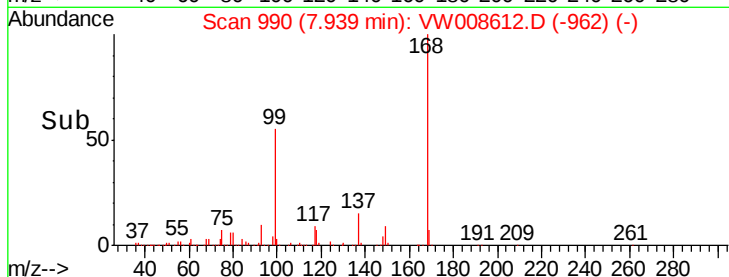
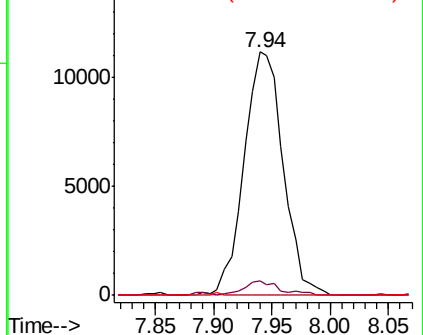
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 1.021 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. 0.00 min

Lab File: VW008612.D

Acq: 11 Feb 2019 21:48

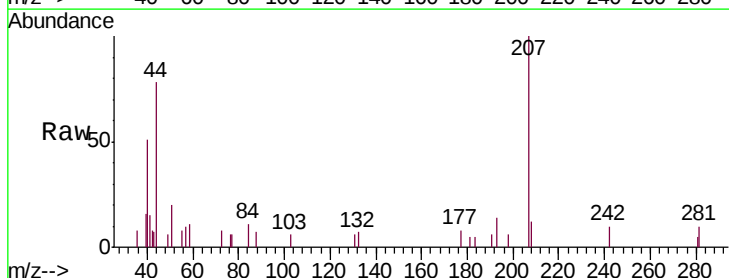
Tgt Ion: 88 Resp: 25

Ion Ratio Lower Upper

88 100

43 940.0 29.0 43.4#

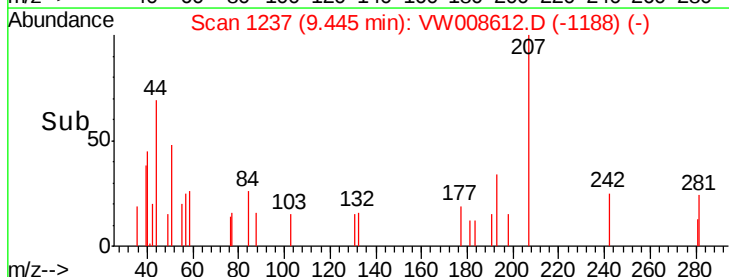
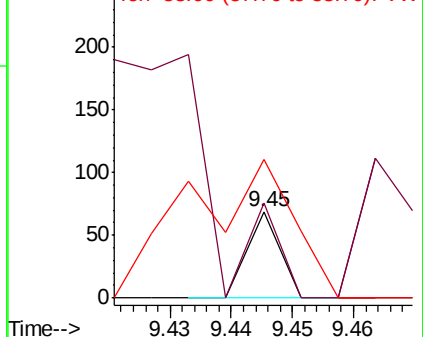
58 528.0 56.4 84.6#

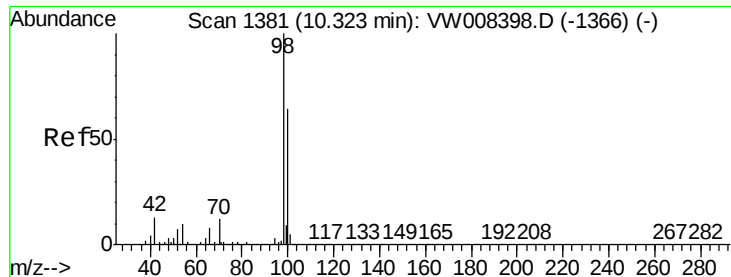


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 50.301 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008612.D

Acq: 11 Feb 2019 21:48

Instrument :

MSVOA\_W

ClientSampleId :

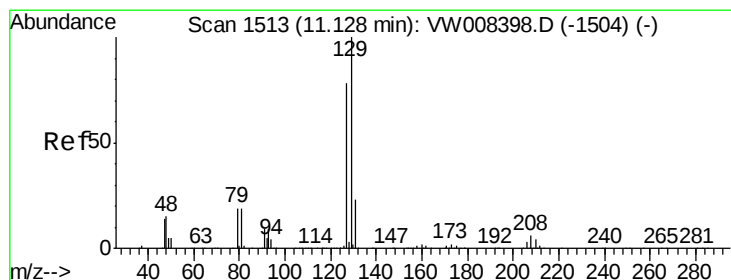
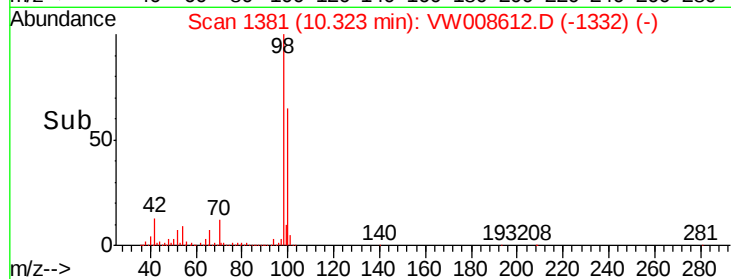
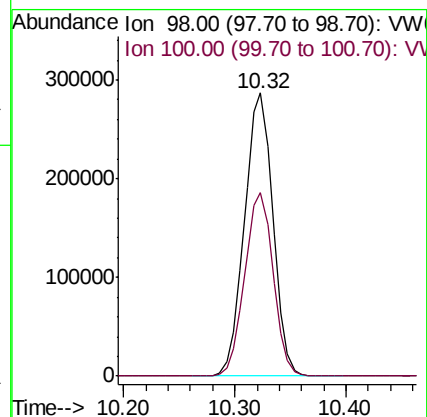
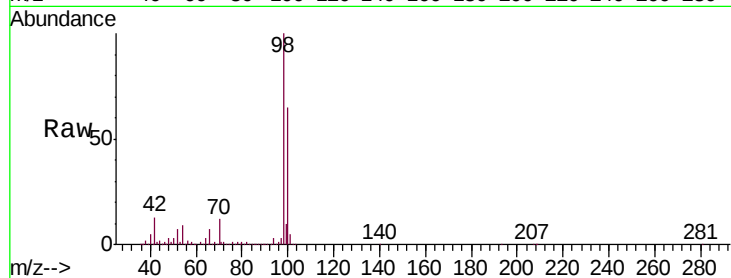
M-11-SRE

Tgt Ion: 98 Resp: 508054

Ion Ratio Lower Upper

98 100

100 64.9 52.6 78.8



#60

Dibromochloromethane

Concen: 2.861 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.27 min

Lab File: VW008612.D

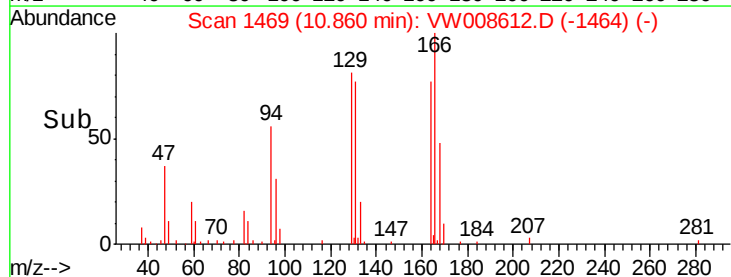
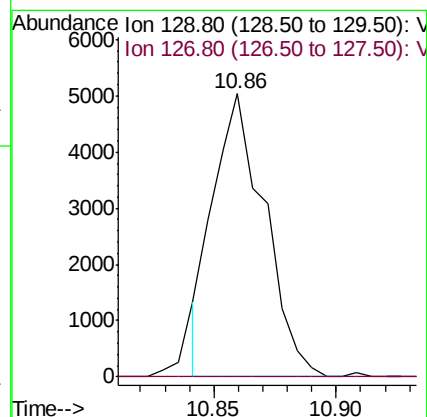
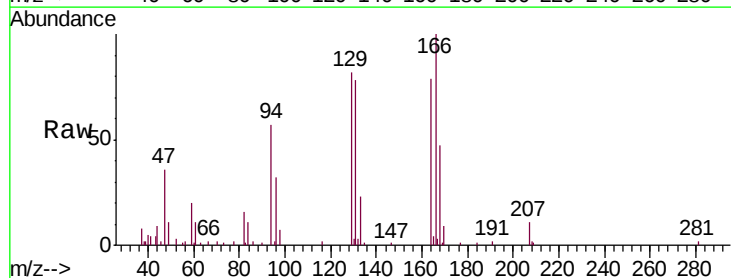
Acq: 11 Feb 2019 21:48

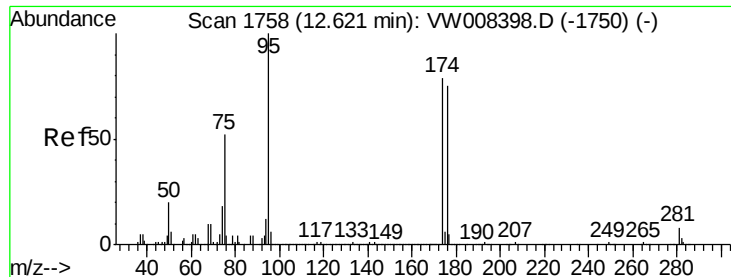
Tgt Ion: 129 Resp: 7384

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.2#

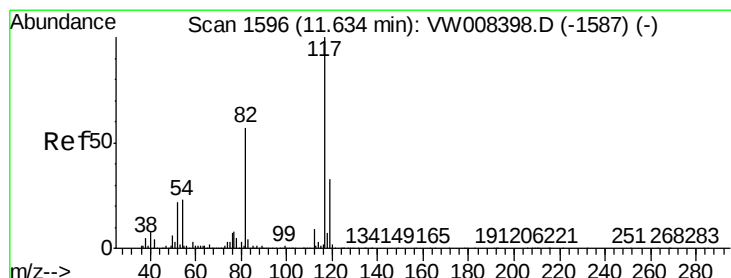
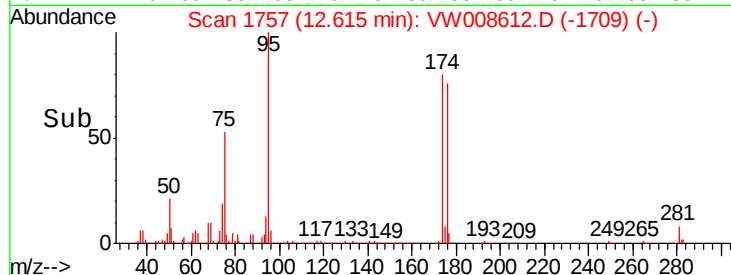
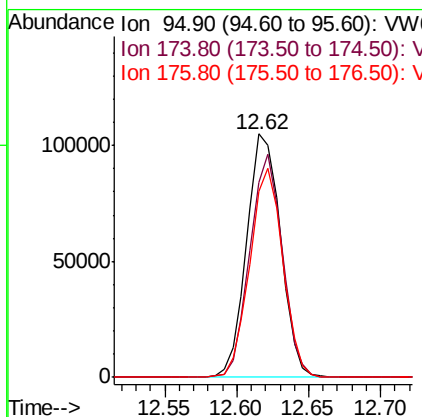
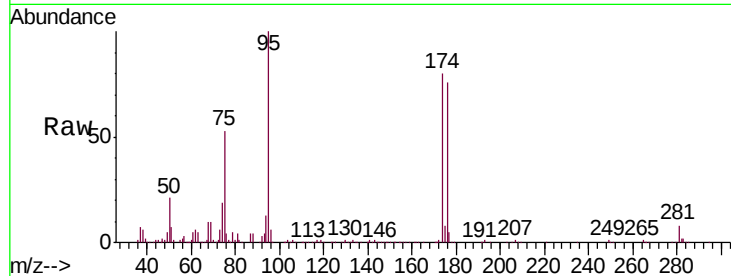




#62  
4-Bromofluorobenzene  
Concen: 44.043 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.01 min  
Lab File: VW008612.D  
Acq: 11 Feb 2019 21:48

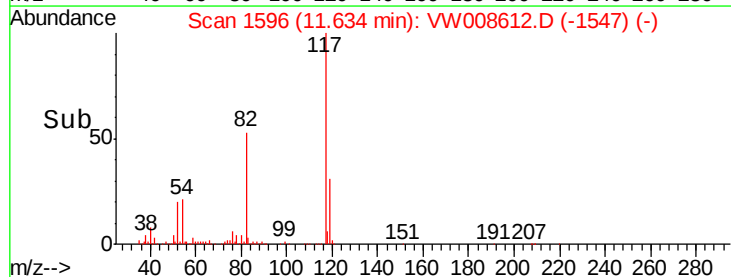
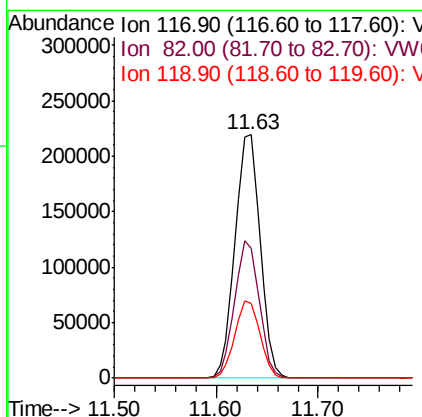
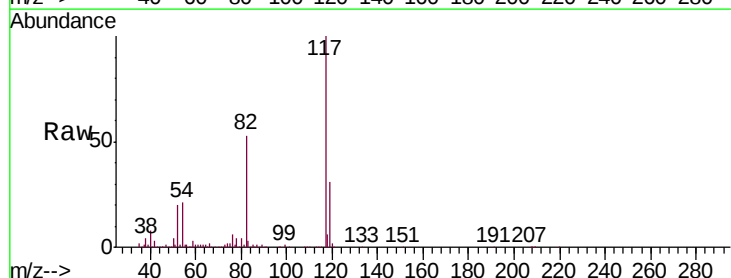
Instrument :  
MSVOA\_W  
ClientSampled :  
M-11-SRE

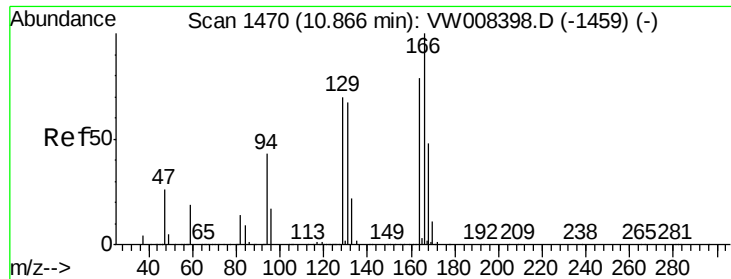
Tgt Ion: 95 Resp: 170993  
Ion Ratio Lower Upper  
95 100  
174 87.7 0.0 157.6  
176 83.5 0.0 151.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW008612.D  
Acq: 11 Feb 2019 21:48

Tgt Ion: 117 Resp: 374291  
Ion Ratio Lower Upper  
117 100  
82 53.4 45.4 68.0  
119 30.9 26.2 39.4

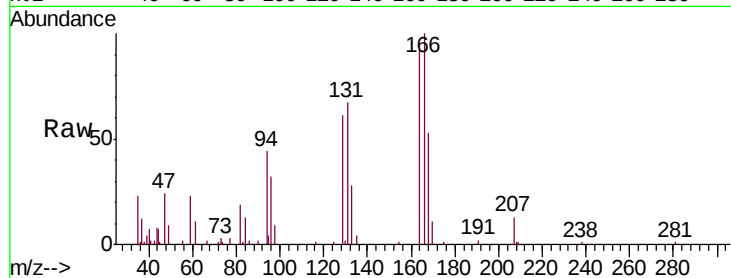




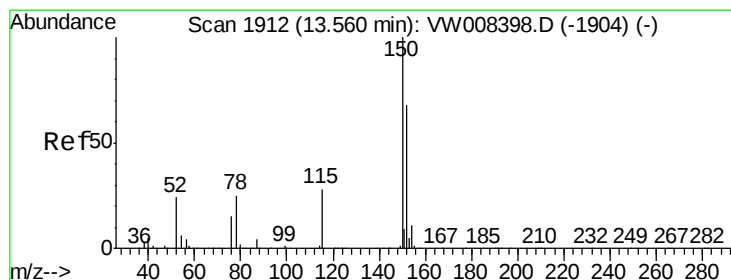
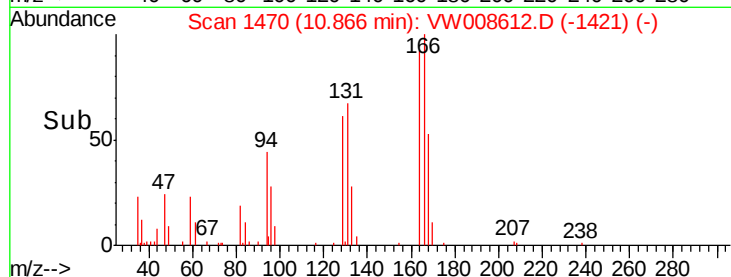
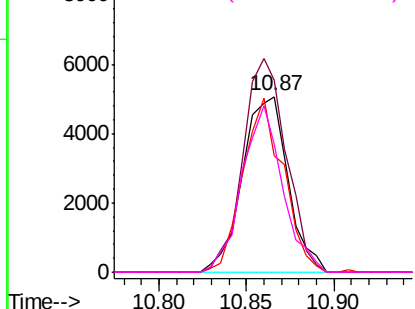
#64  
Tetrachloroethene  
Concen: 3.619 ug/l  
RT: 10.87 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VW008612.D  
Acq: 11 Feb 2019 21:48

Instrument :  
MSVOA\_W  
ClientSampleId :  
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Tgt Ion:164 Resp: 9170  
Ion Ratio Lower Upper  
164 100  
166 109.0 101.4 152.0  
129 66.1 71.0 106.6#  
131 72.9 68.3 102.5

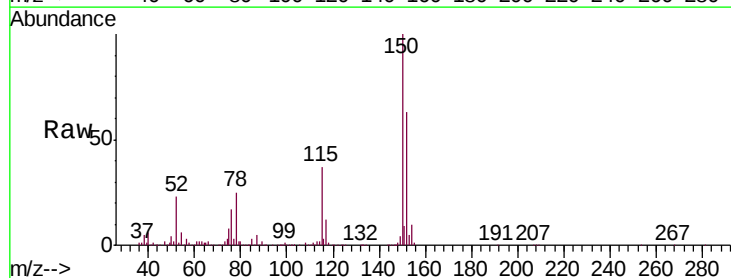


Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V

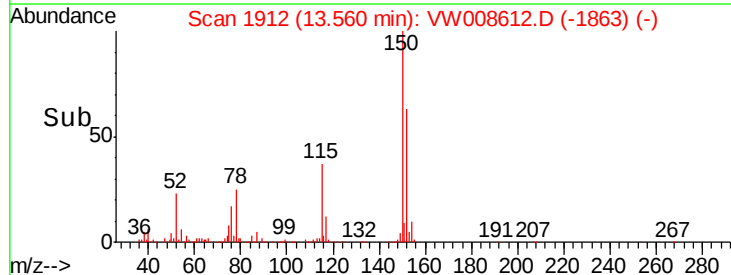
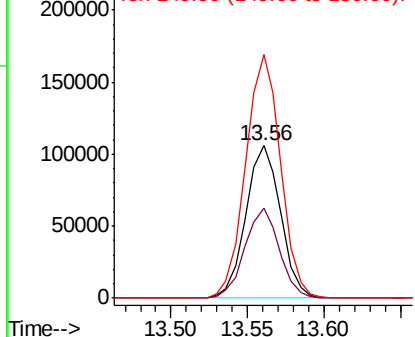


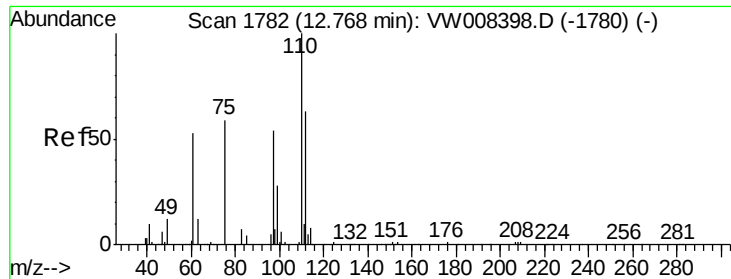
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW008612.D  
Acq: 11 Feb 2019 21:48

Tgt Ion:152 Resp: 167104  
Ion Ratio Lower Upper  
152 100  
115 58.6 29.9 89.7  
150 160.1 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 63.021 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW008612.D

Acq: 11 Feb 2019 21:48

Instrument :

MSVOA\_W

ClientSampleId :

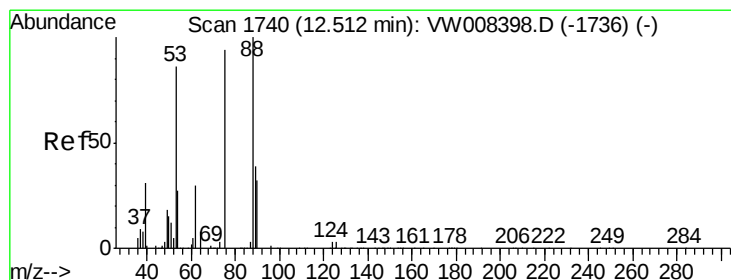
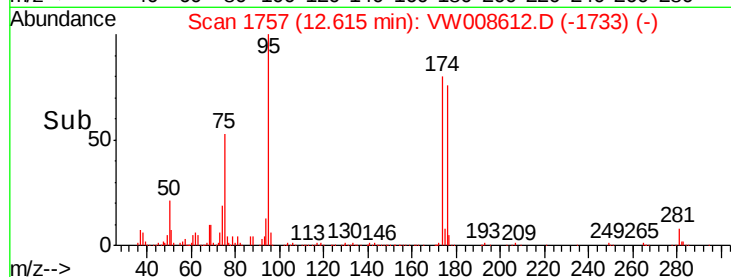
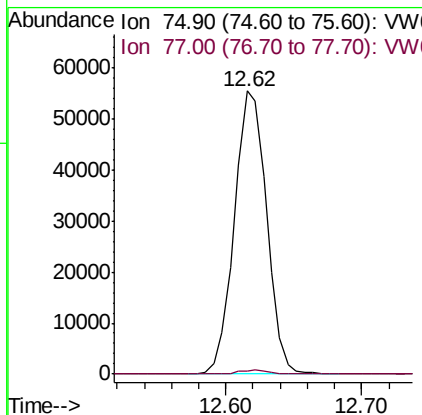
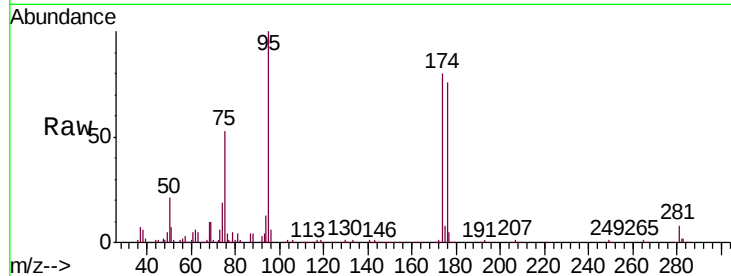
M-11-SRE

Tgt Ion: 75 Resp: 91560

Ion Ratio Lower Upper

75 100

77 1.4 180.7 542.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 124.471 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW008612.D

Acq: 11 Feb 2019 21:48

Tgt Ion: 75 Resp: 91560

Ion Ratio Lower Upper

75 100

53 0.2 76.0 114.0#

89 0.0 35.4 53.0#

