

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071018\  
 Data File : VW003859.D  
 Acq On : 11 Jul 2018 07:40  
 Operator : SY/AP  
 Sample : J3914-11  
 Misc : 3.76G/5ML/MSVOA W/SOIL  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SMH

Quant Time: Jul 11 08:30:24 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070718S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 07 05:07:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 114202   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 181169   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 123175   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 25119    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 76156    | 50.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.98% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 65208    | 51.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.86% |          |
| 50) Toluene-d8              | 10.33 | 98   | 163095   | 33.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 67.26%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 27153    | 15.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 30.94%  |          |

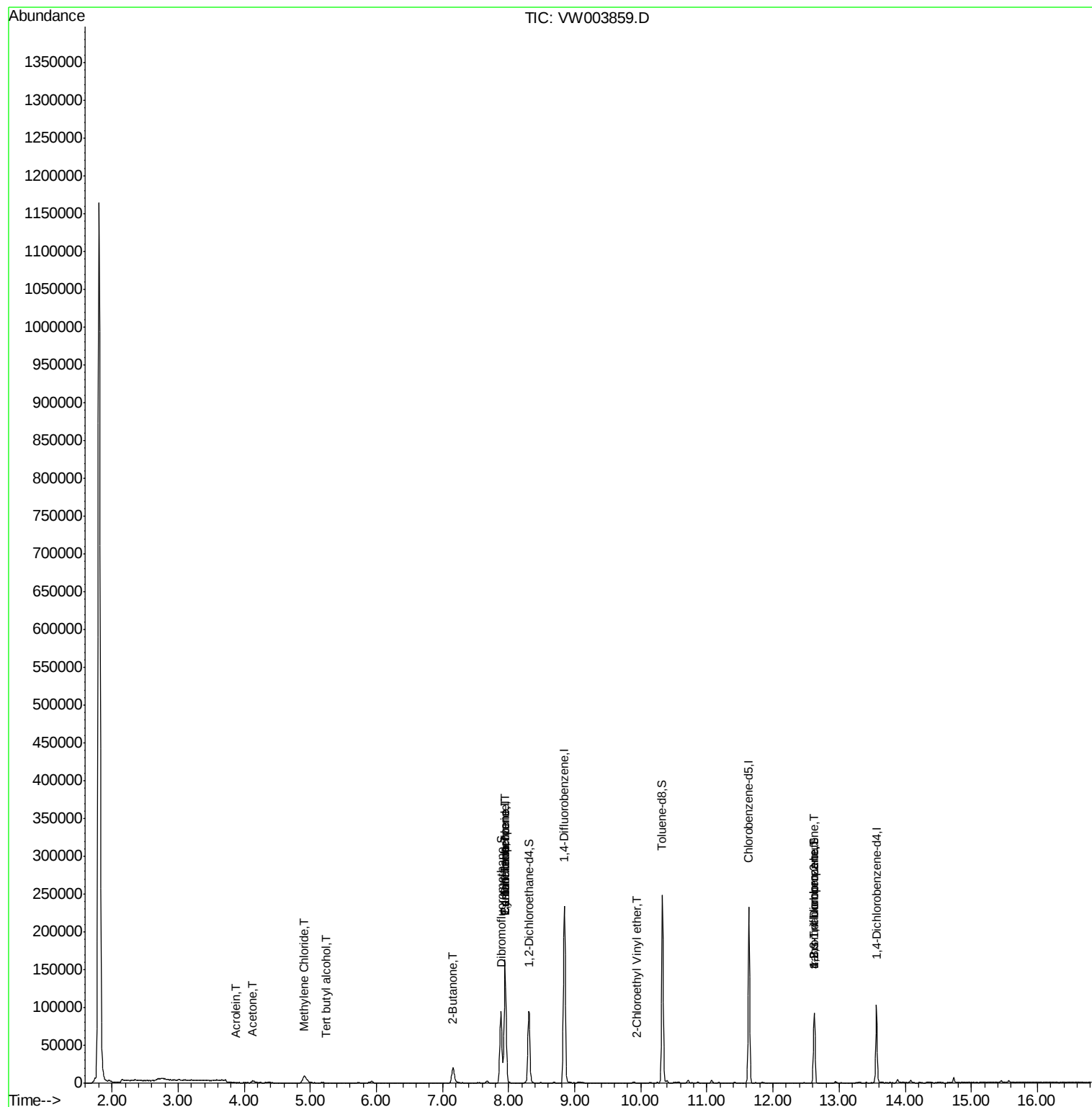
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.24  | 59   | 162      | 2.002   | ug/l # | 70     |
| 13) Acrolein                   | 3.88  | 56   | 20       | 4.888   | ug/l # | 14     |
| 16) Acetone                    | 4.13  | 43   | 5205     | 20.088  | ug/l   | 96     |
| 20) Methylene Chloride         | 4.91  | 84   | 8272     | 2.375   | ug/l   | 94     |
| 25) 2-Butanone                 | 7.15  | 43   | 1297     | 3.196   | ug/l # | 51     |
| 31) Cyclohexane                | 7.95  | 56   | 3052     | 1.400   | ug/l # | 20     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 10086    | 5.247   | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 11970    | 6.549   | ug/l # | 17     |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 44       | 13.230  | ug/l # | 49     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 15169    | 61.496  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 15169    | 150.435 | ug/l # | 7      |

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

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QLast Update : Sat Jul 07 05:07:25 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW003859.D

Acq: 11 Jul 2018 07:40

Instrument :

MSVOA\_W

ClientSampled :

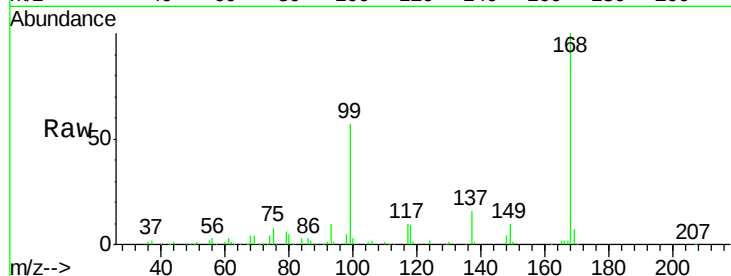
SMH

Tot Ion:168 Resp: 114202

Ion Ratio Lower Upper

168 100

99 56.6 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

60000

50000

40000

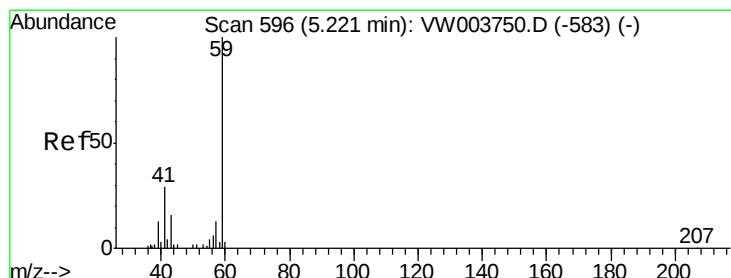
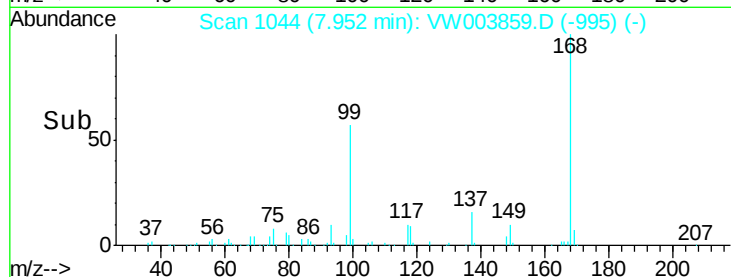
30000

20000

10000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.002 ug/l

RT: 5.24 min Scan# 599

Delta R.T. 0.02 min

Lab File: VW003859.D

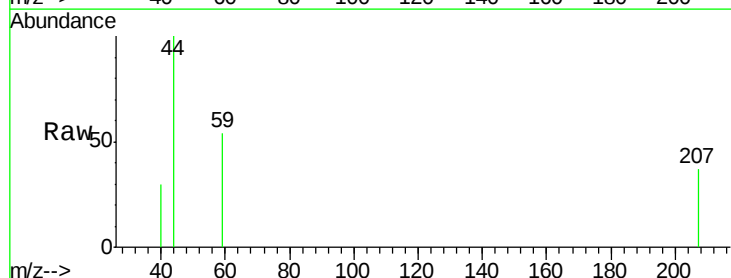
Acq: 11 Jul 2018 07:40

Tgt Ion: 59 Resp: 162

Ion Ratio Lower Upper

59 100

57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.24

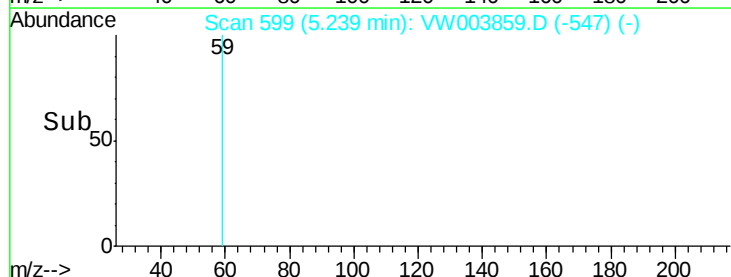
150

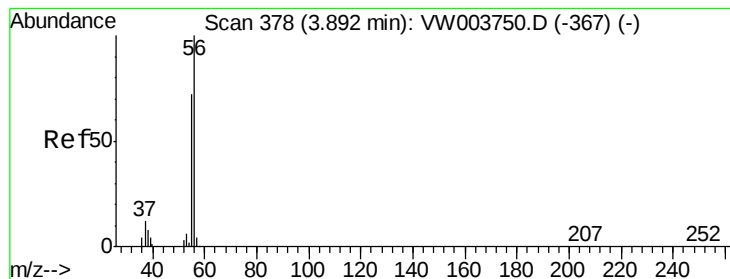
100

50

0

Time-->





#13

Acrolein

Concen: 4.888 ug/l

RT: 3.88 min Scan# 376

Delta R.T. -0.01 min

Lab File: VW003859.D

Acq: 11 Jul 2018 07:40

Instrument :

MSVOA\_W

ClientSampled :

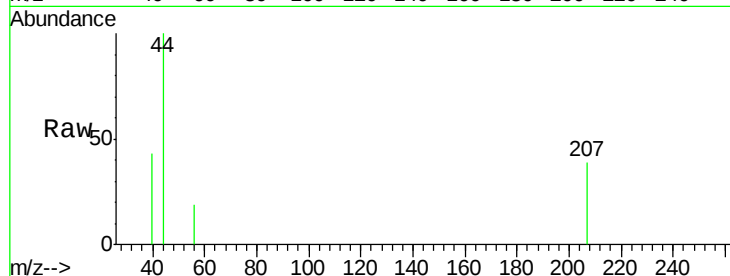
SMH

Tot Ion: 56 Resp: 20

Ion Ratio Lower Upper

56 100

55 0.0 57.5 86.3#

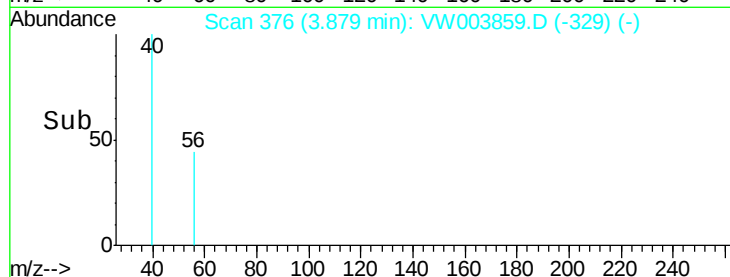


Abundance Ion 56.00 (55.70 to 56.70): VW

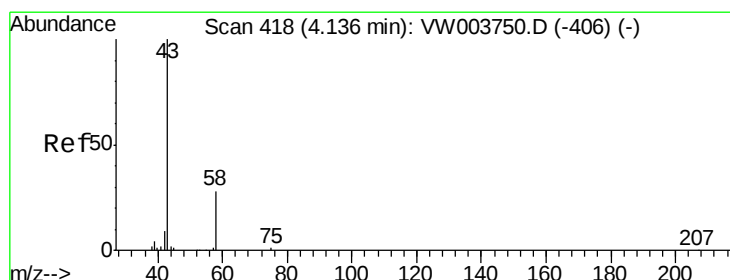
Ion 55.00 (54.70 to 55.70): VW

3.88

Time-->



Time-->



#16

Acetone

Concen: 20.088 ug/l

RT: 4.13 min Scan# 417

Delta R.T. -0.01 min

Lab File: VW003859.D

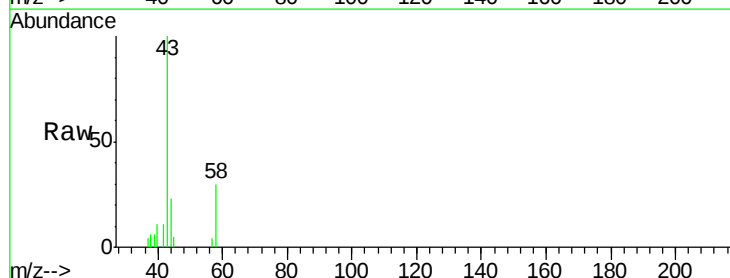
Acq: 11 Jul 2018 07:40

Tgt Ion: 43 Resp: 5205

Ion Ratio Lower Upper

43 100

58 30.3 22.6 34.0

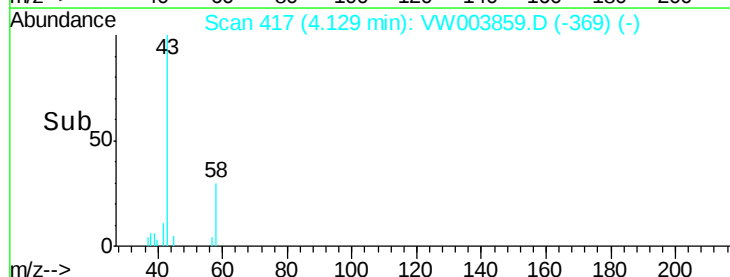


Abundance Ion 43.00 (42.70 to 43.70): VW

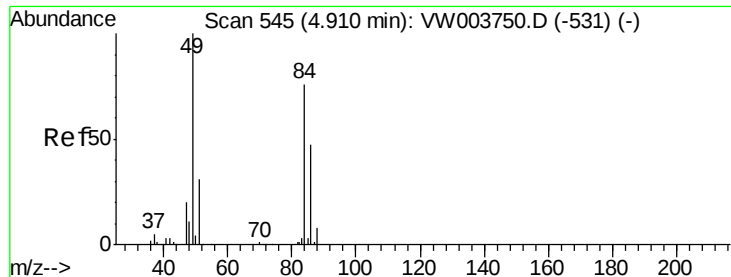
Ion 58.00 (57.70 to 58.70): VW

4.13

Time-->



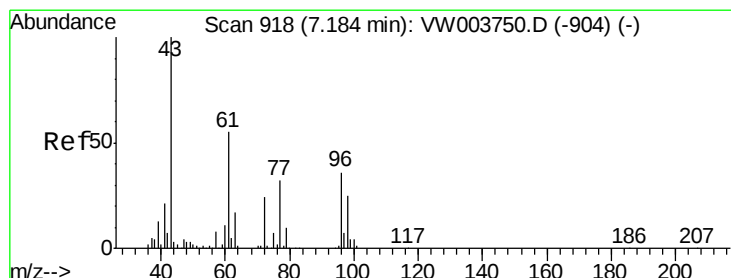
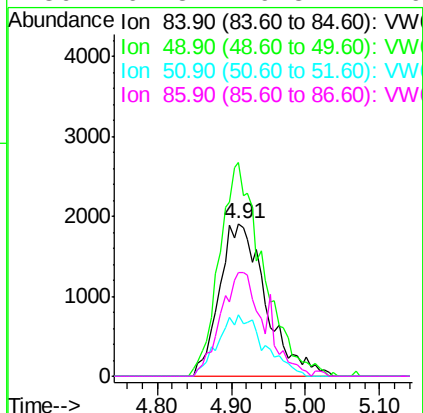
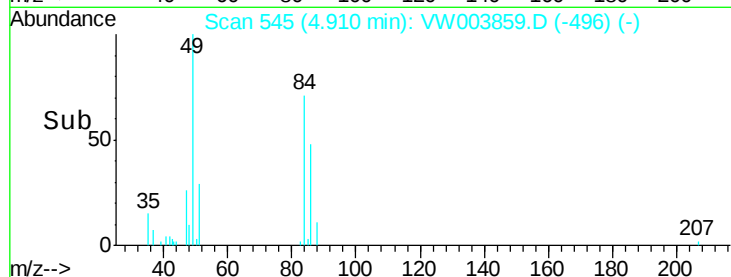
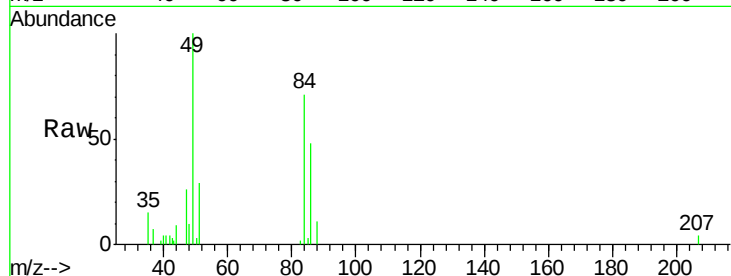
Time-->



#20  
Methvlene Chloride  
Concen: 2.375 ug/l  
RT: 4.91 min Scan# 545  
Delta R.T. 0.00 min  
Lab File: VW003859.D  
Acq: 11 Jul 2018 07:40

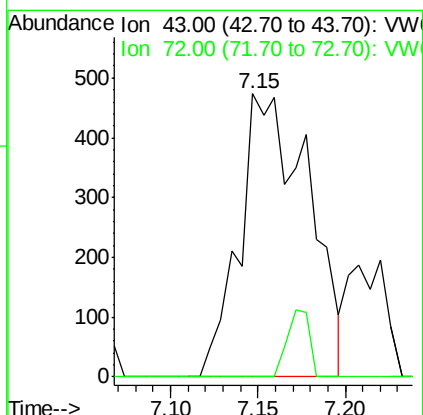
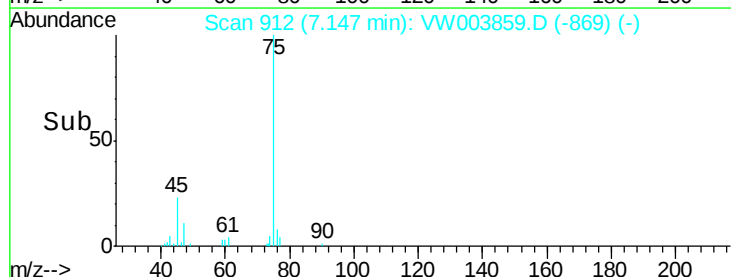
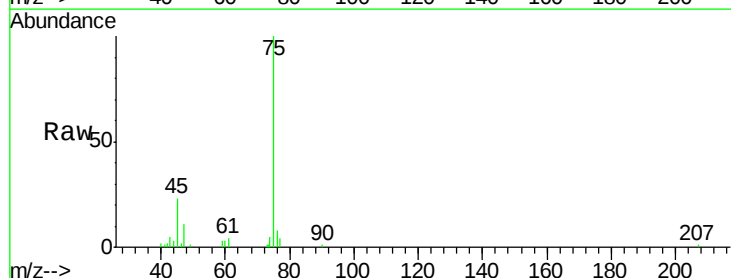
Instrument :  
MSVOA\_W  
ClientSampleId :  
SMH

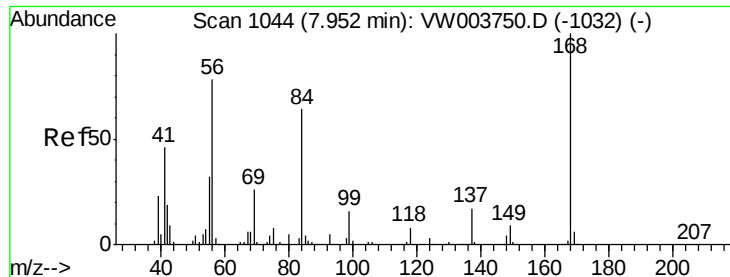
Tot Ion: 84 Resp: 8272  
Ion Ratio Lower Upper  
84 100  
49 140.0 105.1 157.7  
51 40.5 32.5 48.7  
86 67.8 49.8 74.6



#25  
2-Butanone  
Concen: 3.196 ug/l  
RT: 7.15 min Scan# 912  
Delta R.T. -0.04 min  
Lab File: VW003859.D  
Acq: 11 Jul 2018 07:40

Tgt Ion: 43 Resp: 1297  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.4 29.2#

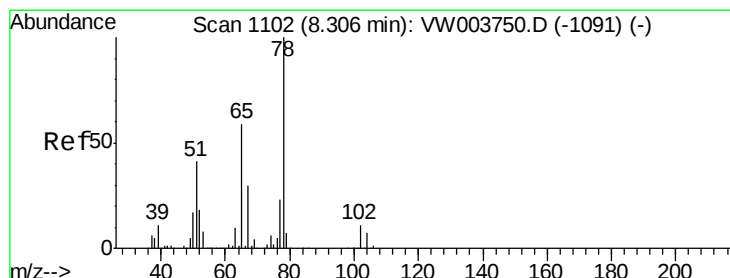
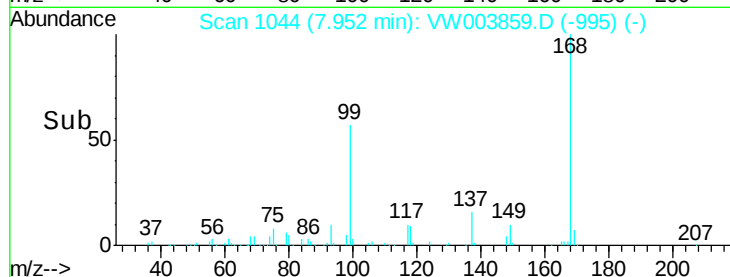
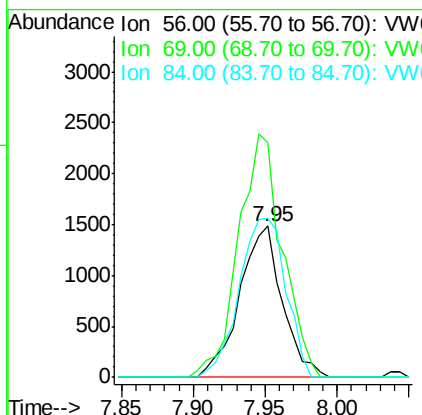
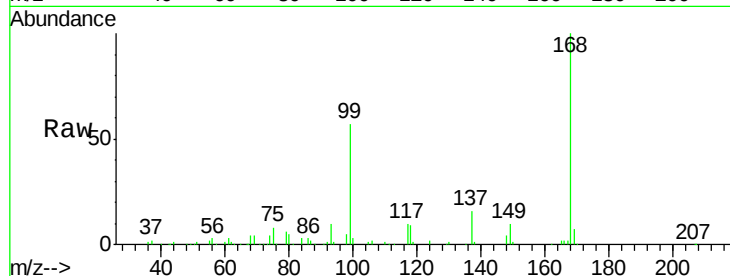




#31  
Cyclohexane  
Concen: 1.400 ug/l  
RT: 7.95 min Scan# 1044  
Delta R.T. -0.00 min  
Lab File: VW003859.D  
Acq: 11 Jul 2018 07:40

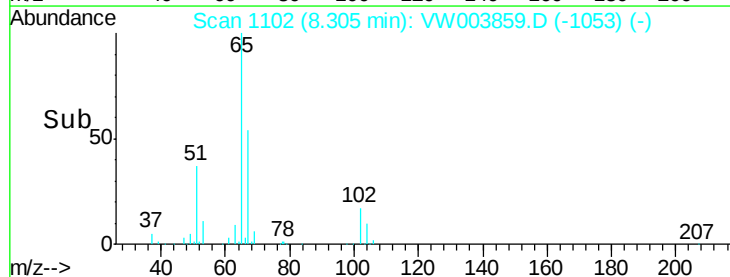
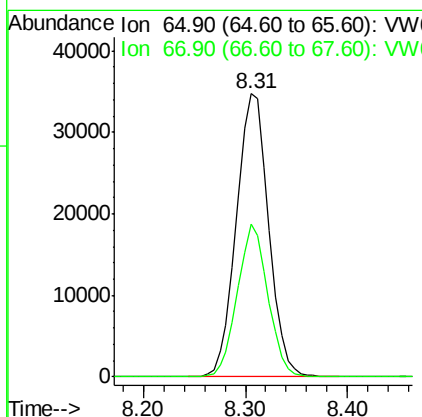
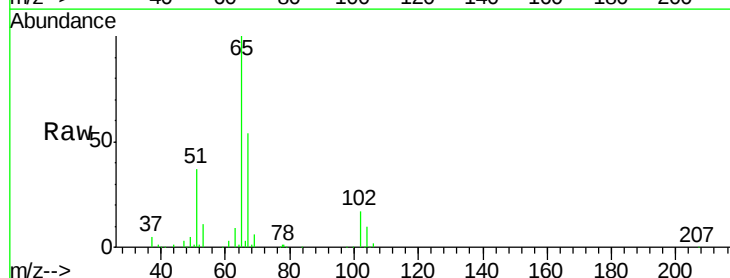
Instrument :  
MSVOA\_W  
ClientSampled :  
SMH

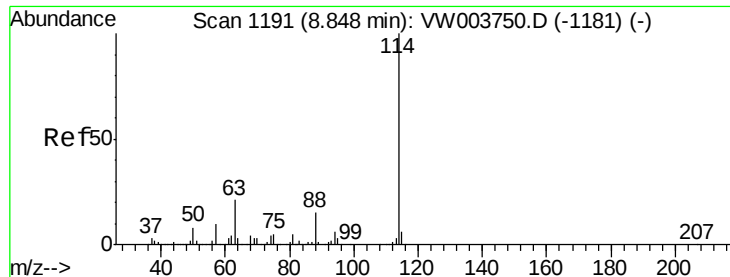
Tot Ion: 56 Resp: 3052  
Ion Ratio Lower Upper  
56 100  
69 154.9 26.2 39.4#  
84 105.1 65.5 98.3#



#33  
1,2-Dichloroethane-d4  
Concen: 50.993 ug/l  
RT: 8.31 min Scan# 1102  
Delta R.T. -0.00 min  
Lab File: VW003859.D  
Acq: 11 Jul 2018 07:40

Tgt Ion: 65 Resp: 76156  
Ion Ratio Lower Upper  
65 100  
67 51.0 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1190

Delta R.T. -0.01 min

Lab File: VW003859.D

Acq: 11 Jul 2018 07:40

Instrument :

MSVOA\_W

ClientSampleId :

SMH

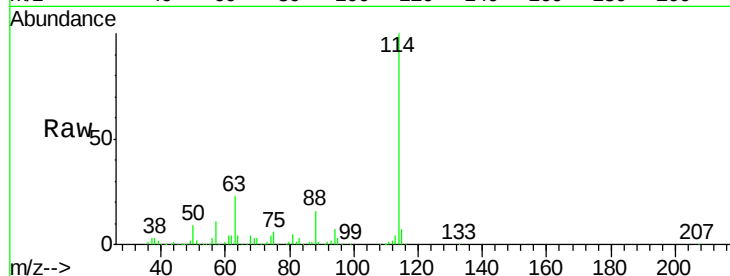
Tot Ion:114 Resp: 181169

Ion Ratio Lower Upper

114 100

63 22.7 0.0 41.8

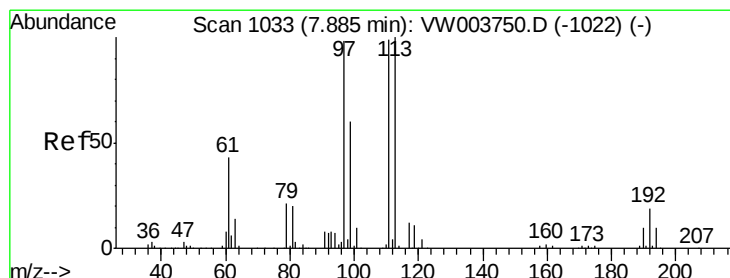
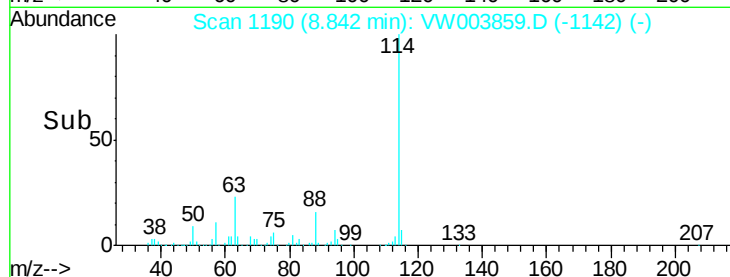
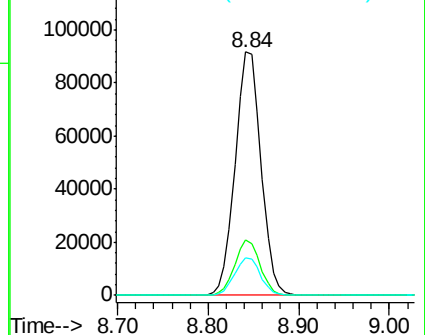
88 15.6 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 51.427 ug/l

RT: 7.88 min Scan# 1033

Delta R.T. -0.00 min

Lab File: VW003859.D

Acq: 11 Jul 2018 07:40

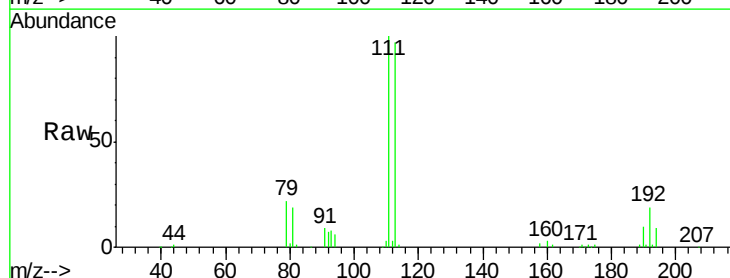
Tgt Ion:113 Resp: 65208

Ion Ratio Lower Upper

113 100

111 104.0 81.7 122.5

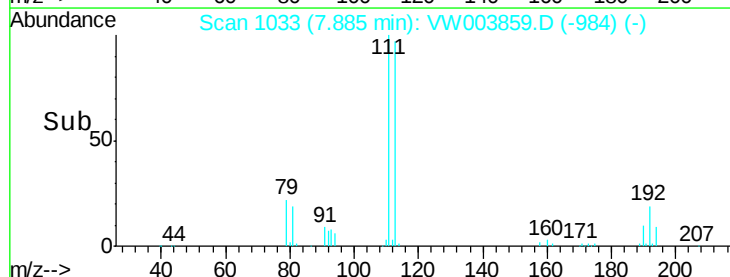
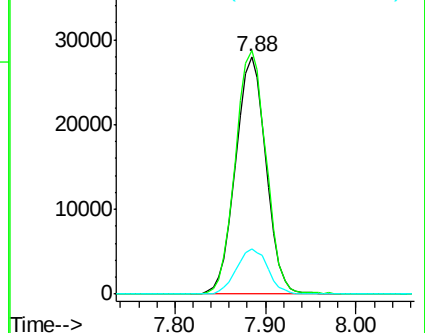
192 19.6 15.8 23.8

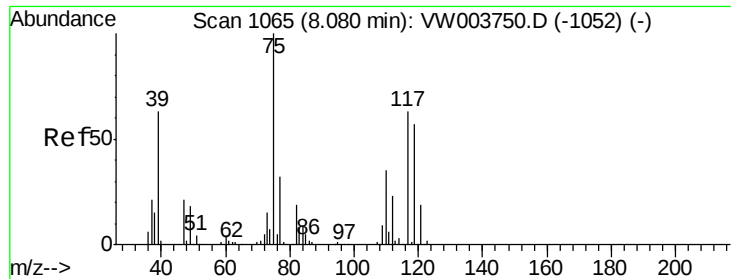


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

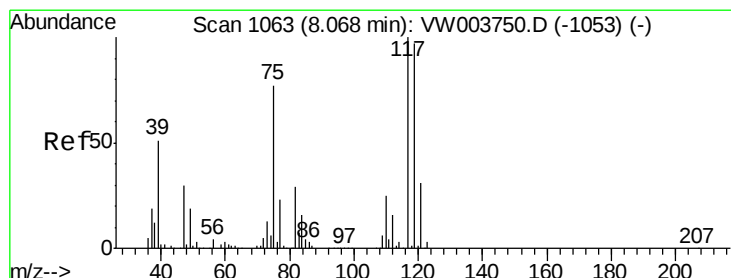
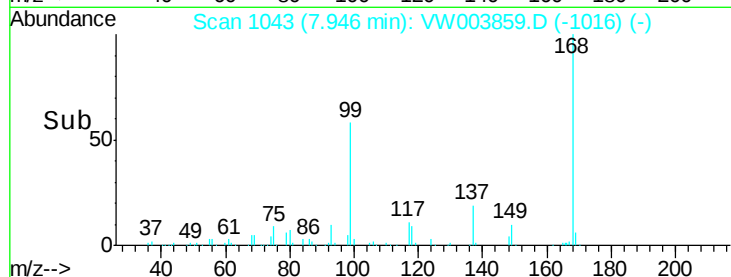
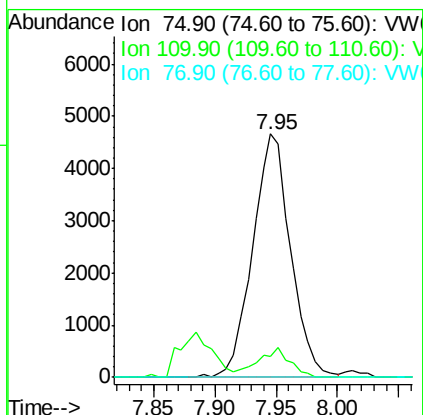
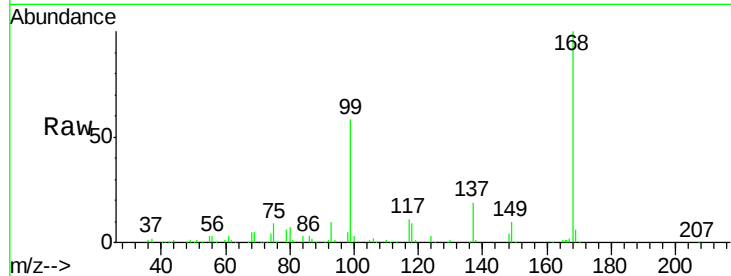




#36  
 1,1-Dichloropropene  
 Concen: 5.247 ug/l  
 RT: 7.95 min Scan# 1043  
 Delta R.T. -0.13 min  
 Lab File: VW003859.D  
 Acq: 11 Jul 2018 07:40

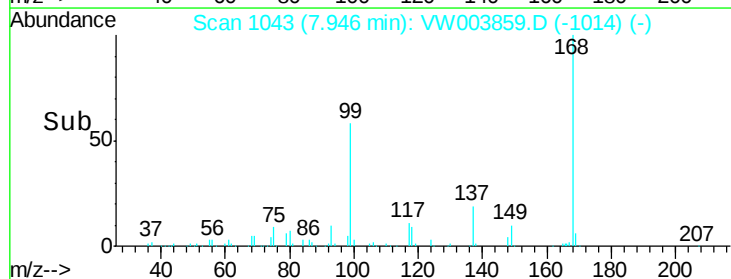
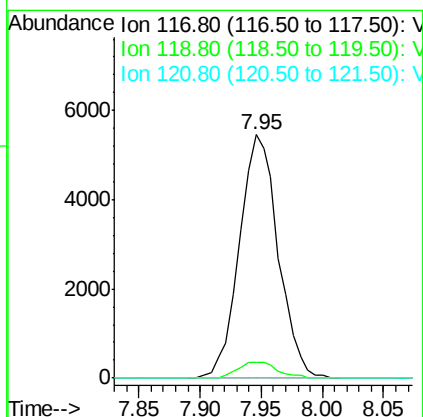
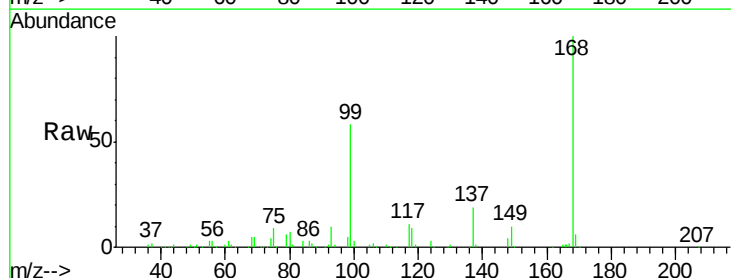
Instrument :  
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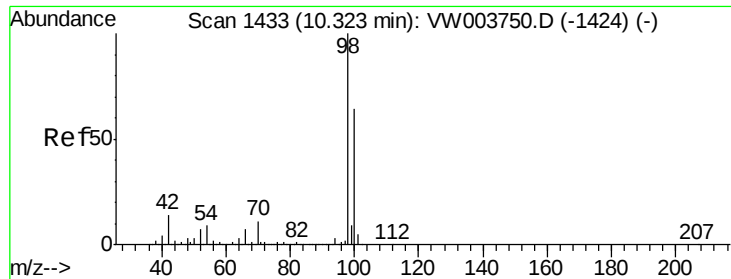
Tot Ion: 75 Resp: 10086  
 Ion Ratio Lower Upper  
 75 100  
 110 10.3 16.9 50.6#  
 77 0.0 24.8 37.2#



#38  
 Carbon Tetrachloride  
 Concen: 6.549 ug/l  
 RT: 7.95 min Scan# 1043  
 Delta R.T. -0.12 min  
 Lab File: VW003859.D  
 Acq: 11 Jul 2018 07:40

Tgt Ion: 117 Resp: 11970  
 Ion Ratio Lower Upper  
 117 100  
 119 6.4 77.4 116.2#  
 121 0.0 24.6 37.0#

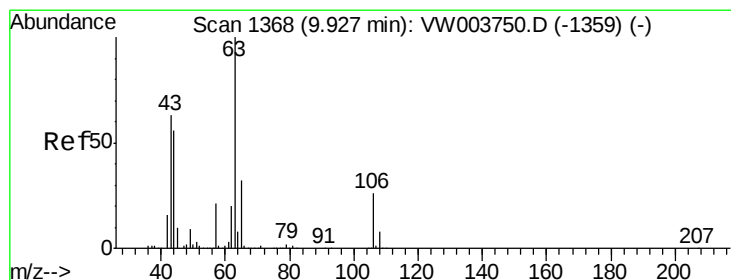
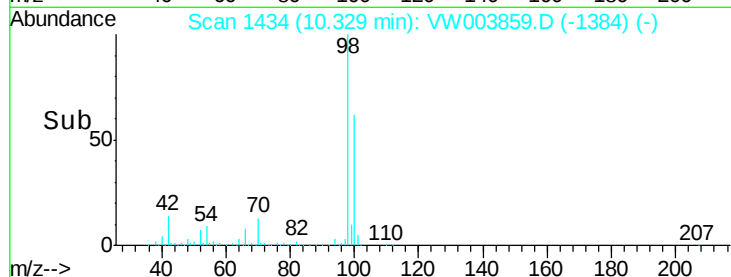
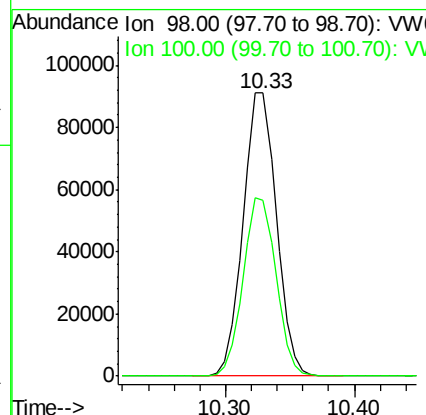
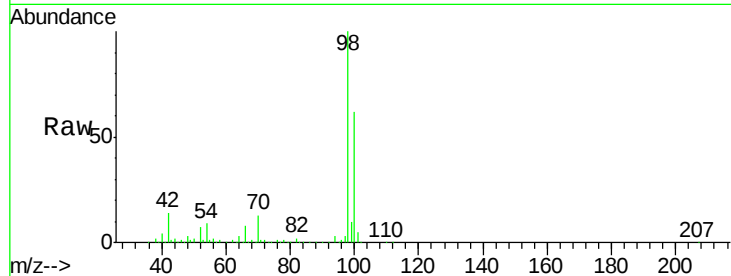




#50  
Toluene-d8  
Concen: 33.626 ug/l  
RT: 10.33 min Scan# 1434  
Delta R.T. 0.01 min  
Lab File: VW003859.D  
Acq: 11 Jul 2018 07:40

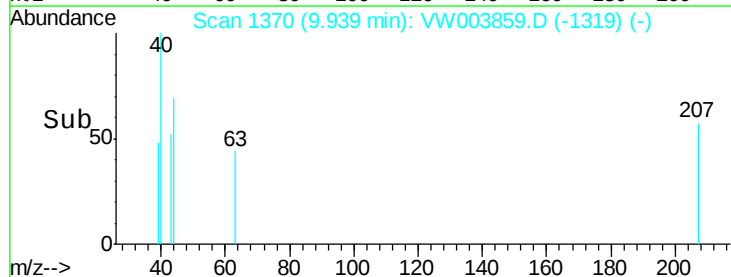
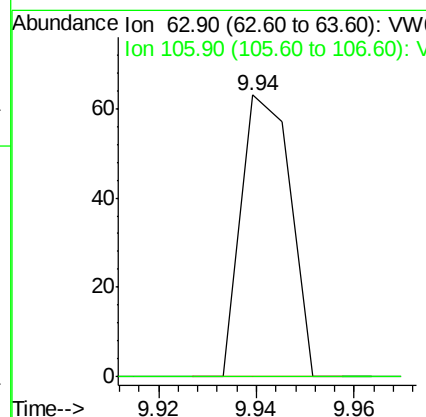
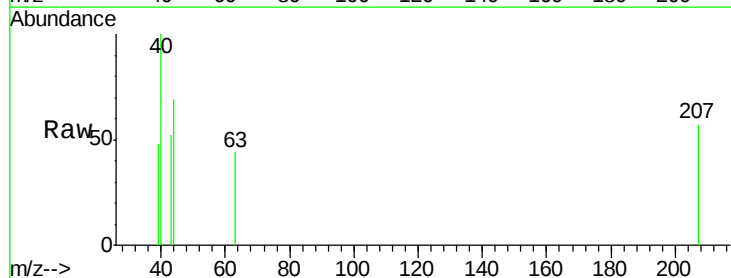
Instrument :  
MSVOA\_W  
ClientSampled :  
SMH

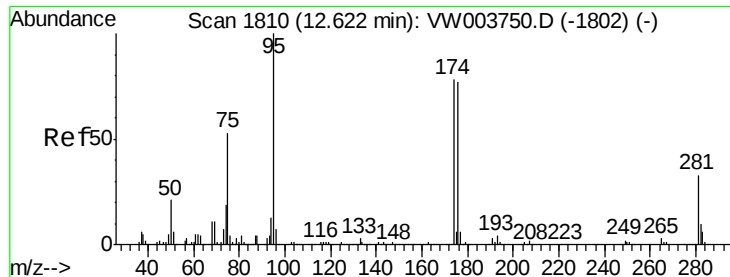
Tot Ion: 98 Resp: 163095  
Ion Ratio Lower Upper  
98 100  
100 62.1 50.8 76.2



#58  
2-Chloroethyl Vinyl ether  
Concen: 13.230 ug/l  
RT: 9.94 min Scan# 1370  
Delta R.T. 0.01 min  
Lab File: VW003859.D  
Acq: 11 Jul 2018 07:40

Tgt Ion: 63 Resp: 44  
Ion Ratio Lower Upper  
63 100  
106 0.0 20.9 31.3#

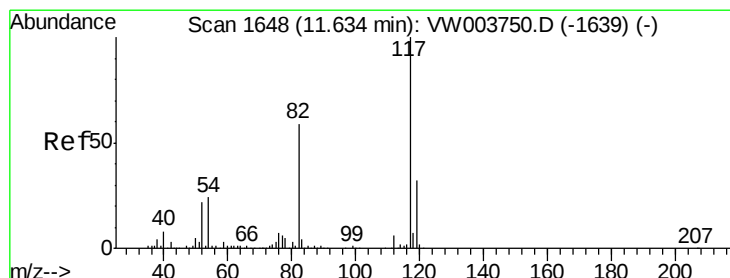
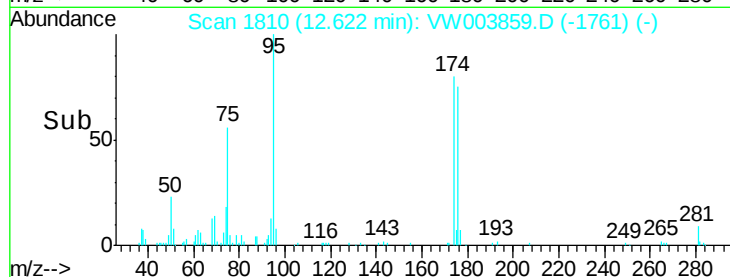
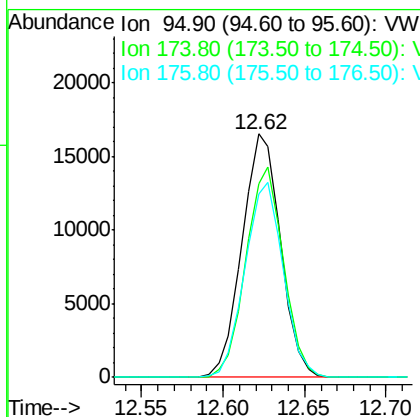
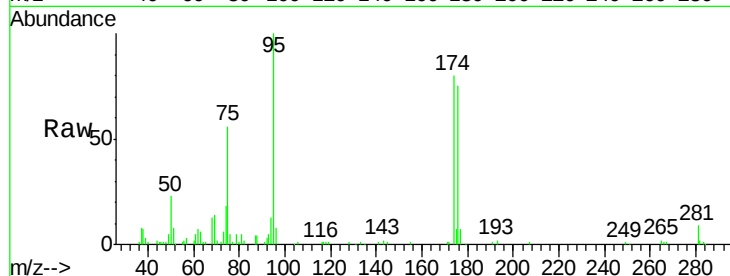




#62  
4-Bromofluorobenzene  
Concen: 15.473 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.00 min  
Lab File: VW003859.D  
Acq: 11 Jul 2018 07:40

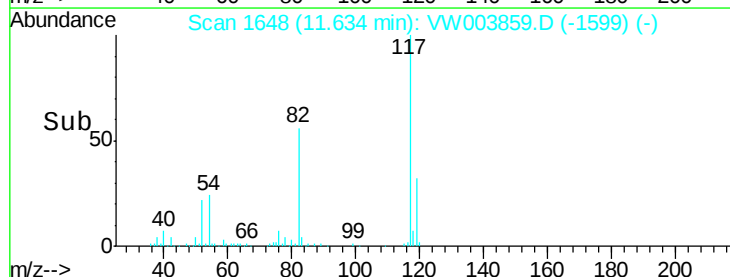
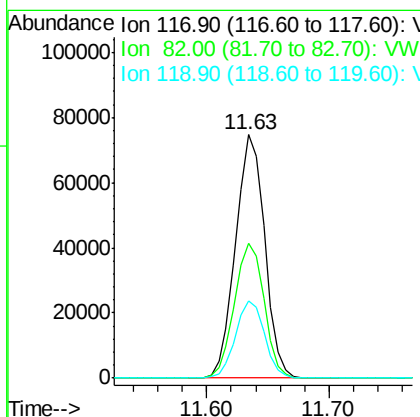
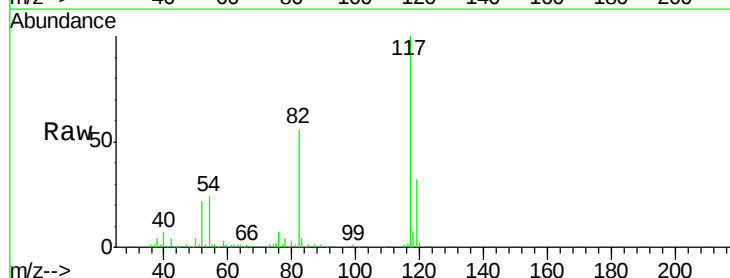
Instrument :  
MSVOA\_W  
ClientSampleId :  
SMH

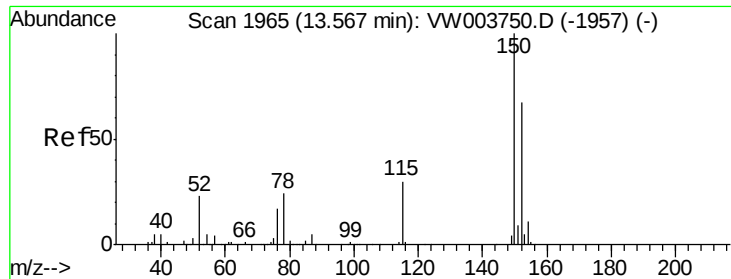
Tot Ion: 95 Resp: 27153  
Ion Ratio Lower Upper  
95 100  
174 84.3 0.0 163.4  
176 79.5 0.0 156.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW003859.D  
Acq: 11 Jul 2018 07:40

Tgt Ion: 117 Resp: 123175  
Ion Ratio Lower Upper  
117 100  
82 55.6 46.9 70.3  
119 31.9 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VW003859.D

Acq: 11 Jul 2018 07:40

Instrument :

MSVOA\_W

ClientSampleId :

SMH

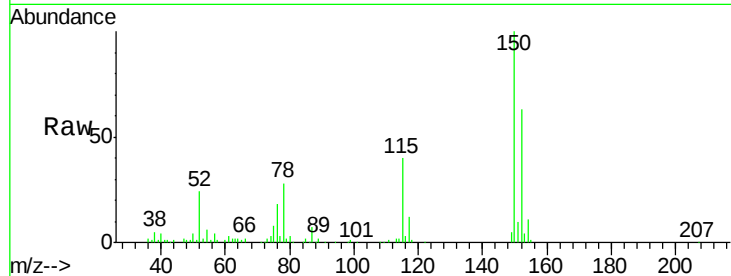
Tot Ion:152 Resp: 25119

Ion Ratio Lower Upper

152 100

115 58.7 28.9 86.8

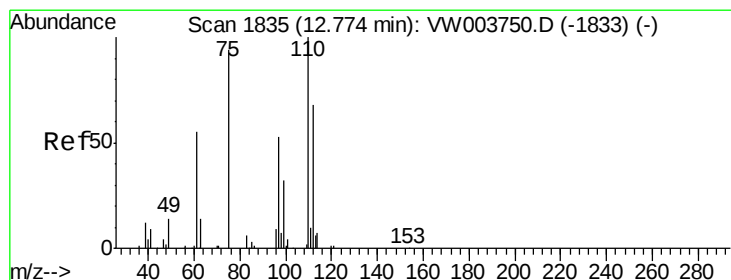
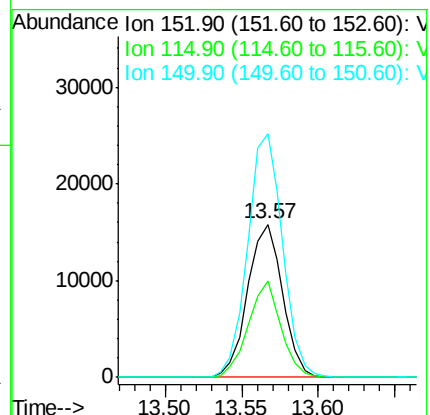
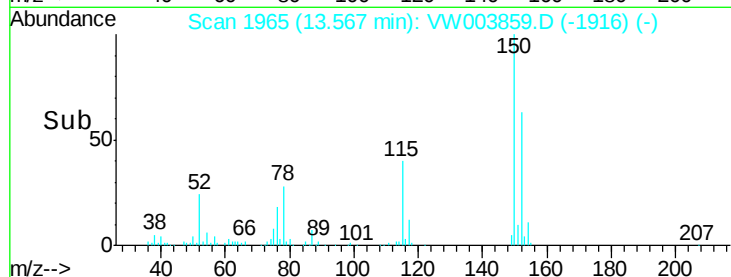
150 158.2 0.0 342.4



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: 61.496 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW003859.D

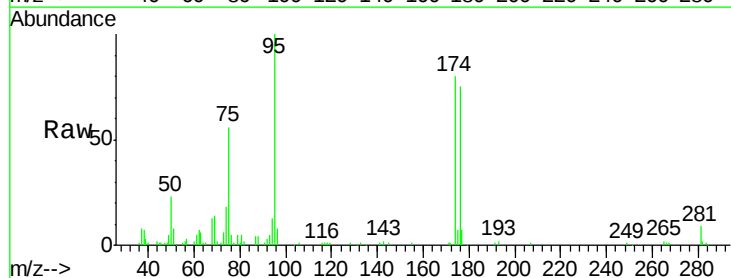
Acq: 11 Jul 2018 07:40

Tgt Ion: 75 Resp: 15169

Ion Ratio Lower Upper

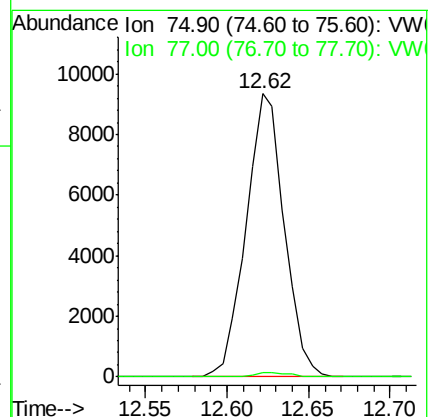
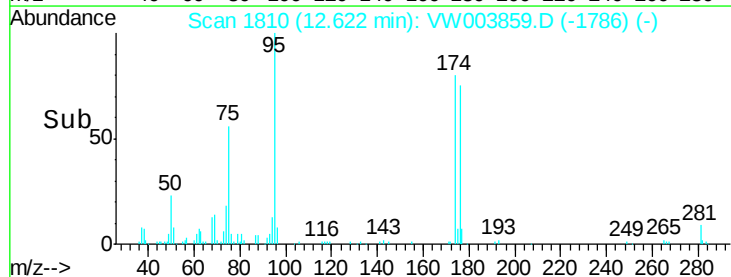
75 100

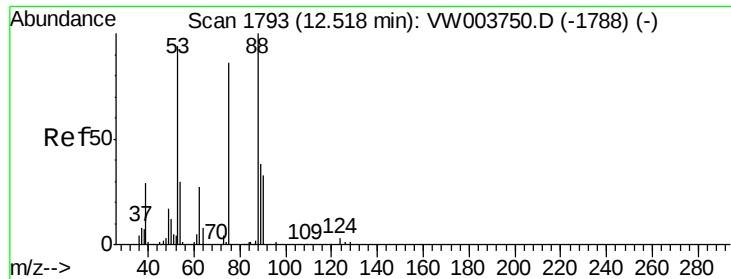
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 150.435 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW003859.D

Acq: 11 Jul 2018 07:40

Instrument :

MSVOA\_W

ClientSampleId :

SMH

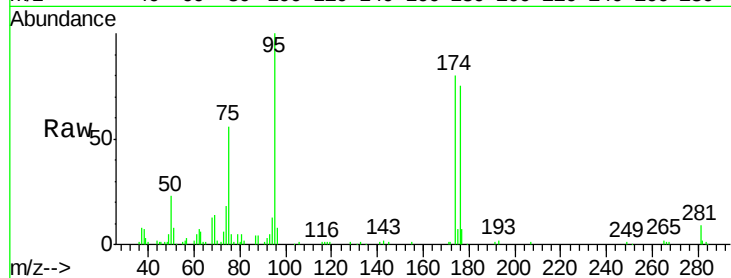
Tot Ion: 75 Resp: 15169

Ion Ratio Lower Upper

75 100

53 0.0 85.0 127.6#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

