

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070518\  
 Data File : VW003733.D  
 Acq On : 05 Jul 2018 20:28  
 Operator : SY/AP  
 Sample : VSTDCCC050EC50  
 Misc : 5.00G/7ML/MSVOA W/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jul 06 02:37:37 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070218S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 03 08:55:34 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 147346   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 249593   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 235029   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 109102   | 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   | 97366    | 55.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.86% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 82727    | 50.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.64% |          |
| 50) Toluene-d8              | 10.33 | 98   | 259133   | 40.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 81.10%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 86778    | 37.80 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 75.60%  |          |

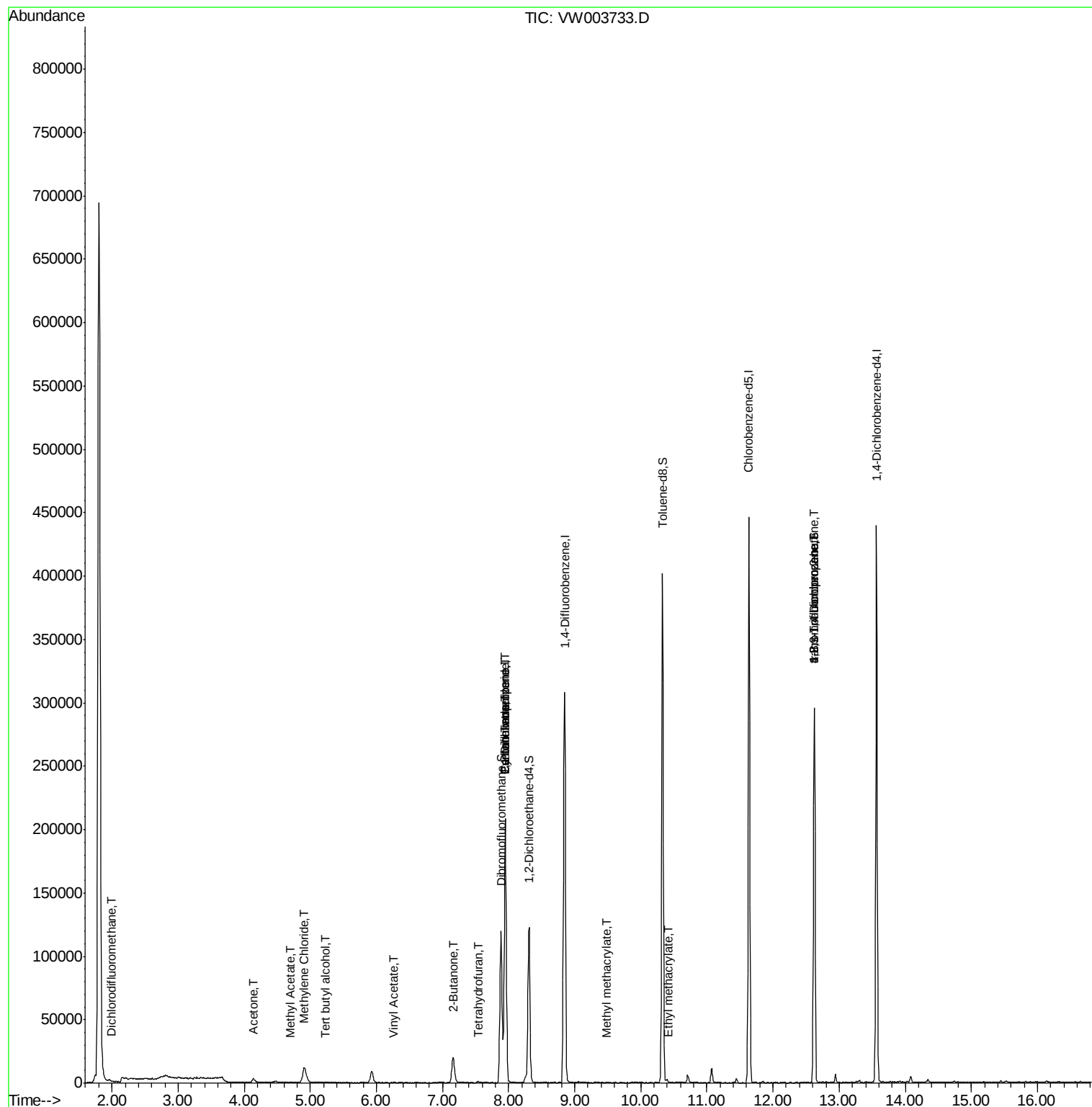
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.00  | 85   | 70       | 4.948   | ug/l # | 43     |
| 11) Tert butyl alcohol         | 5.22  | 59   | 474      | 4.312   | ug/l # | 71     |
| 16) Acetone                    | 4.14  | 43   | 5645     | 13.462  | ug/l # | 89     |
| 18) Methyl Acetate             | 4.68  | 43   | 295      | 1.046   | ug/l # | 53     |
| 20) Methylene Chloride         | 4.92  | 84   | 11400    | 4.029   | ug/l   | 88     |
| 23) Vinyl Acetate              | 6.26  | 43   | 41       | 13.875  | ug/l # | 74     |
| 25) 2-Butanone                 | 7.17  | 43   | 1765     | 3.287   | ug/l # | 77     |
| 29) Tetrahydrofuran            | 7.55  | 42   | 636      | 1.976   | ug/l # | 49     |
| 31) Cyclohexane                | 7.95  | 56   | 3963     | 1.476   | ug/l # | 23     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 13125    | 5.238   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 15292    | 6.416   | ug/l # | 18     |
| 48) Methyl methacrylate        | 9.47  | 41   | 66       | 3.415   | ug/l # | 13     |
| 56) Ethyl methacrylate         | 10.42 | 69   | 23       | 3.596   | ug/l # | 22     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 46712    | 47.618  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 46712    | 100.898 | ug/l # | 9      |

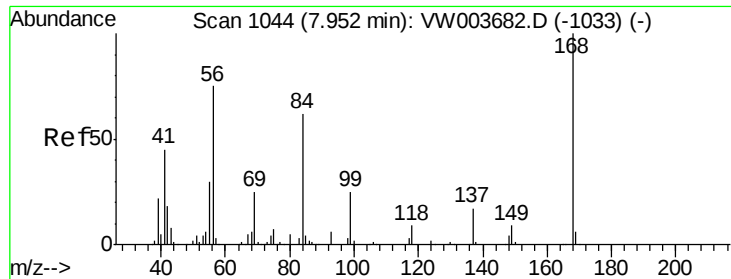
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW070518\  
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Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Jul 06 02:37:37 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W070218S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 03 08:55:34 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: VW003733.D

Acq: 05 Jul 2018 20:28

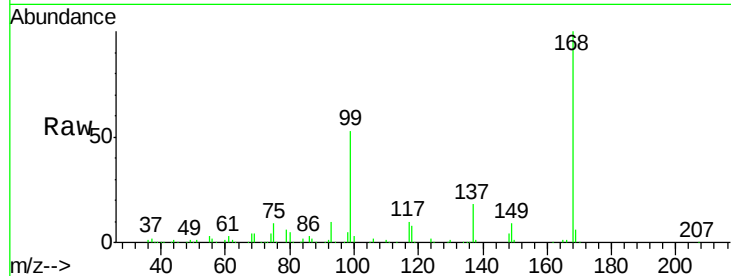
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:168 Resp: 147346

Ion Ratio Lower Upper

168 100

99 53.2 45.4 68.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

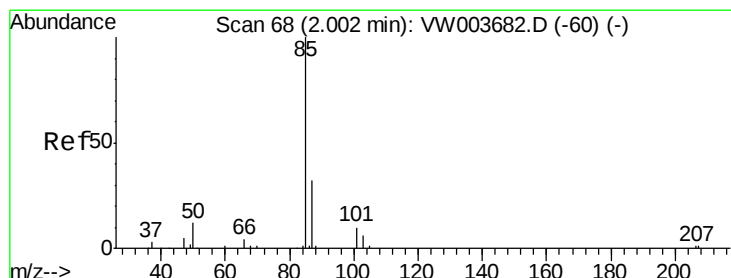
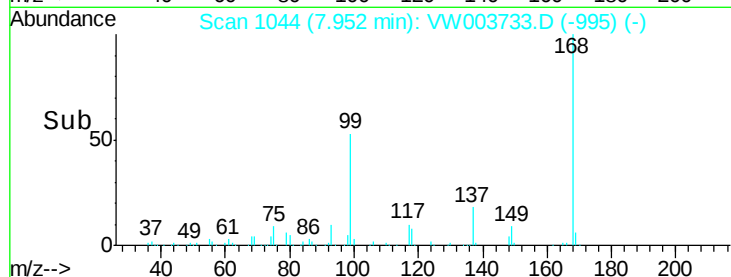
40000

20000

0

7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 4.948 ug/l

RT: 2.00 min Scan# 68

Delta R.T. 0.00 min

Lab File: VW003733.D

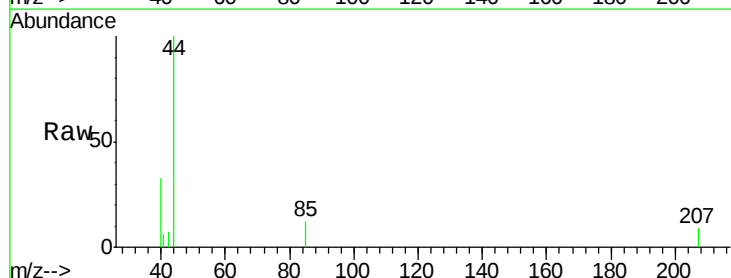
Acq: 05 Jul 2018 20:28

Tgt Ion: 85 Resp: 70

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

120

100

80

60

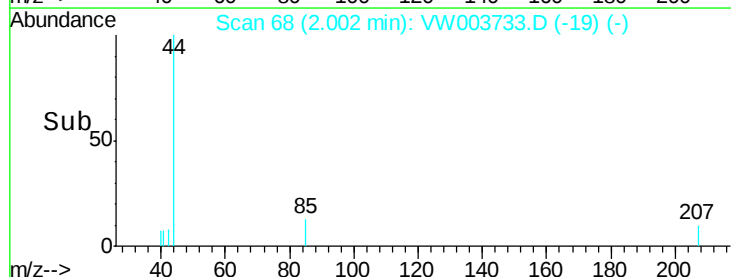
40

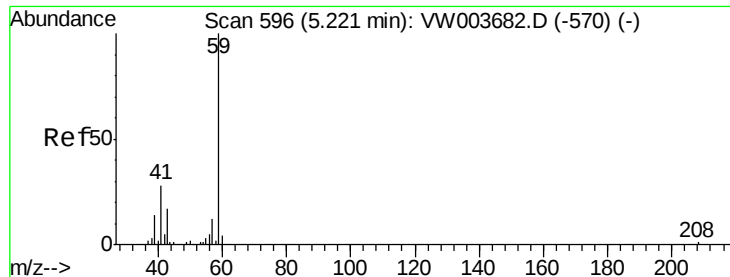
20

0

1.98 2.00 2.02

Time-->



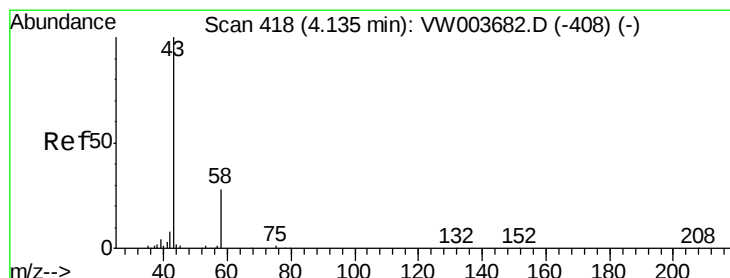
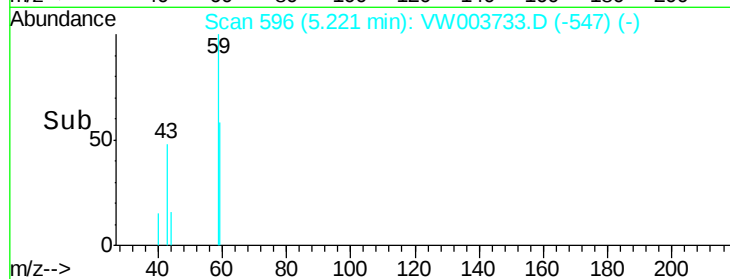
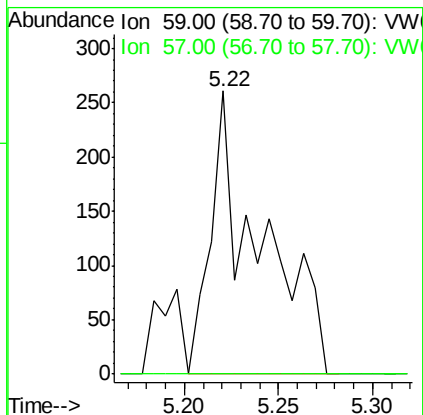
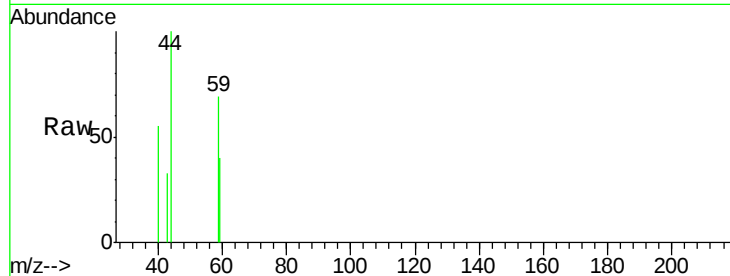


#11

Tert butyl alcohol  
 Concen: 4.312 ug/l  
 RT: 5.22 min Scan# 596  
 Delta R.T. 0.00 min  
 Lab File: VW003733.D  
 Acq: 05 Jul 2018 20:28

Instrument :  
 MSVOA\_W  
 ClientSampleId :

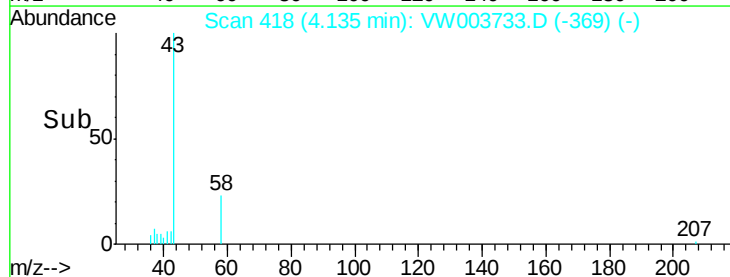
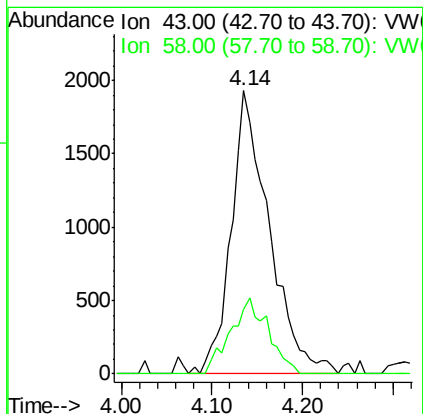
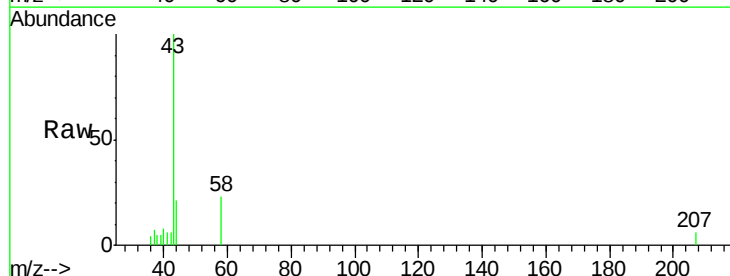
Tot Ion: 59 Resp: 474  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 9.0 13.4#

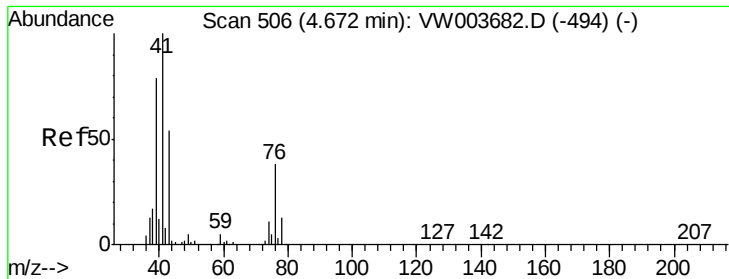


#16

Acetone  
 Concen: 13.462 ug/l  
 RT: 4.14 min Scan# 418  
 Delta R.T. 0.00 min  
 Lab File: VW003733.D  
 Acq: 05 Jul 2018 20:28

Tgt Ion: 43 Resp: 5645  
 Ion Ratio Lower Upper  
 43 100  
 58 22.7 22.7 34.1#

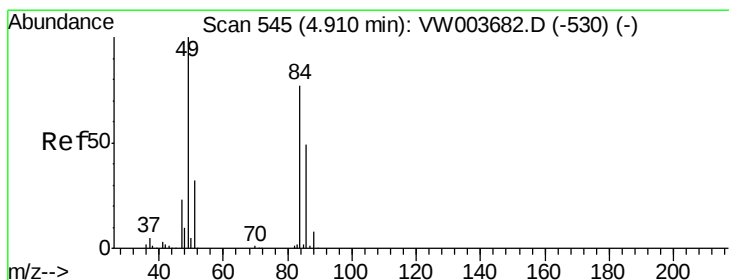
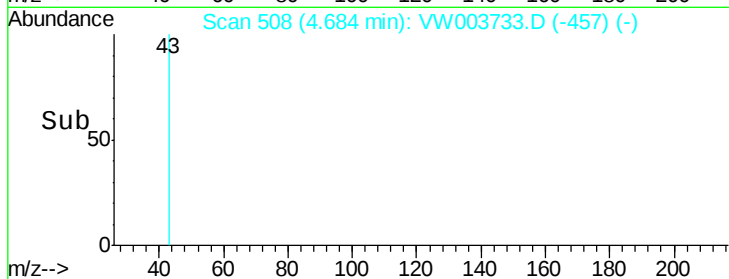
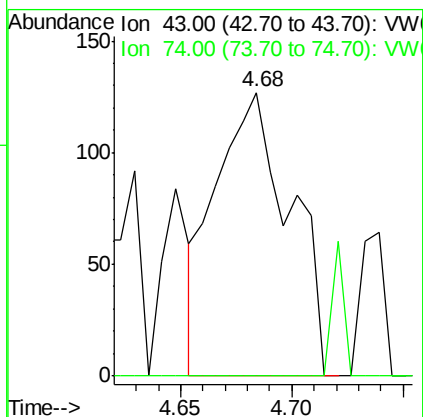
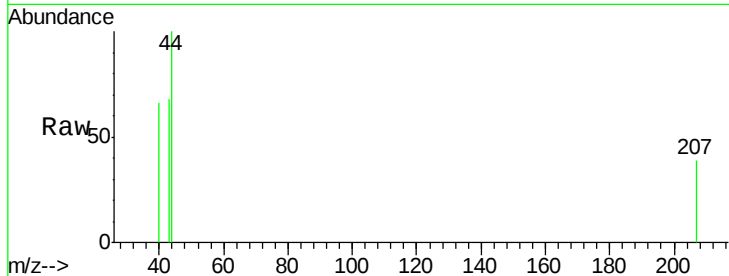




#18  
Methyl Acetate  
Concen: 1.046 ug/l  
RT: 4.68 min Scan# 508  
Delta R.T. 0.01 min  
Lab File: VW003733.D  
Acq: 05 Jul 2018 20:28

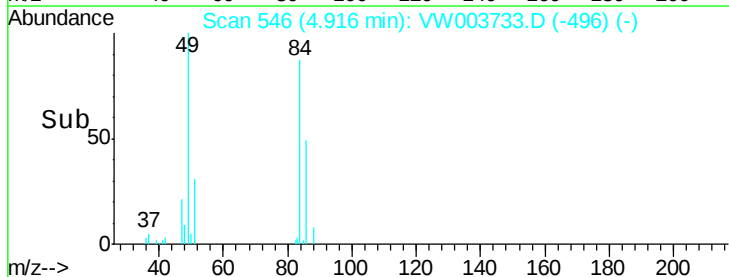
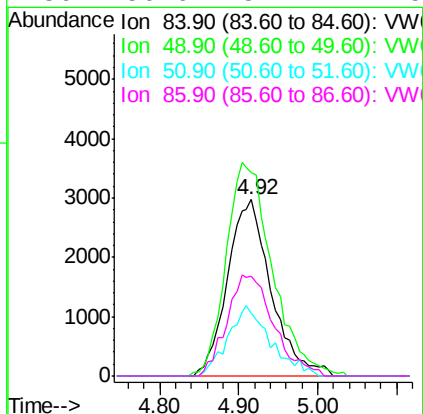
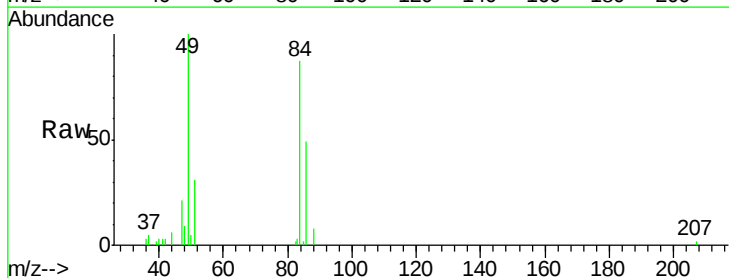
Instrument :  
MSVOA\_W  
ClientSampled :

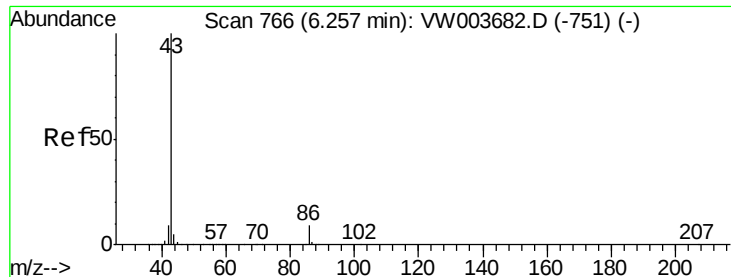
Tot Ion: 43 Resp: 295  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.2 27.2#



#20  
Methylene Chloride  
Concen: 4.029 ug/l  
RT: 4.92 min Scan# 546  
Delta R.T. 0.01 min  
Lab File: VW003733.D  
Acq: 05 Jul 2018 20:28

Tgt Ion: 84 Resp: 11400  
Ion Ratio Lower Upper  
84 100  
49 115.1 104.6 156.8  
51 35.6 33.2 49.8  
86 56.6 51.7 77.5





#23

Vinyl Acetate

Concen: 13.875 ug/l

RT: 6.26 min Scan# 766

Delta R.T. 0.00 min

Lab File: VW003733.D

Acq: 05 Jul 2018 20:28

Instrument :

MSVOA\_W

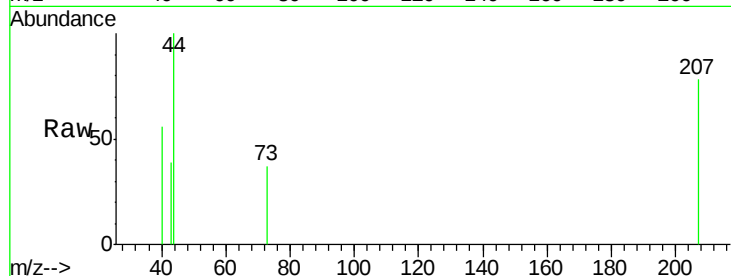
ClientSampled :

Tot Ion: 43 Resp: 41

Ion Ratio Lower Upper

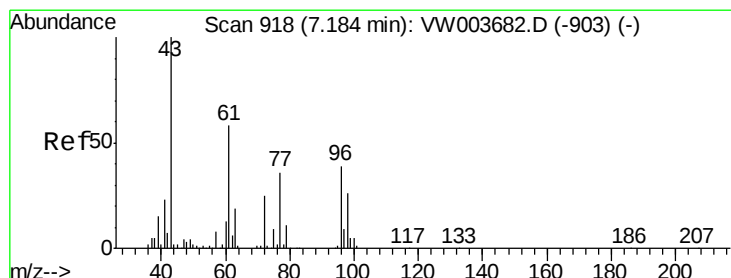
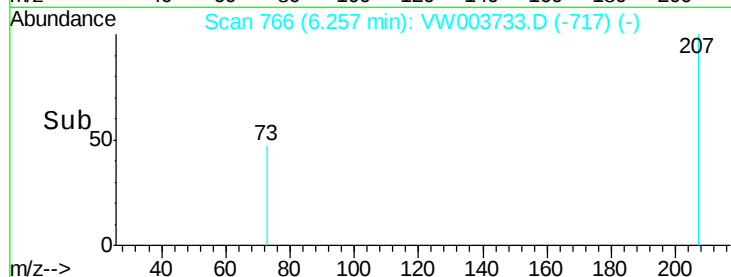
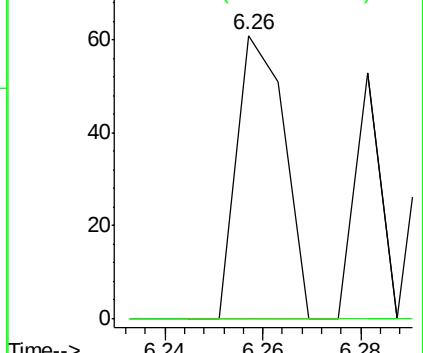
43 100

86 0.0 7.5 11.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#25

2-Butanone

Concen: 3.287 ug/l

RT: 7.17 min Scan# 915

Delta R.T. -0.02 min

Lab File: VW003733.D

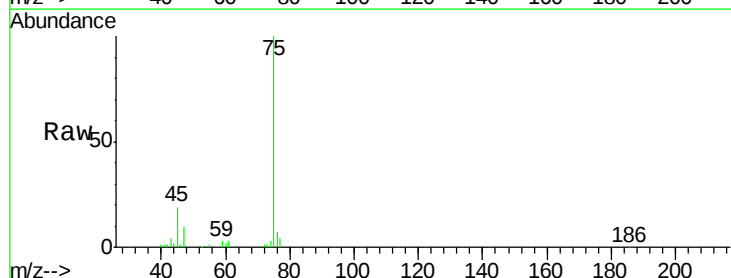
Acq: 05 Jul 2018 20:28

Tgt Ion: 43 Resp: 1765

Ion Ratio Lower Upper

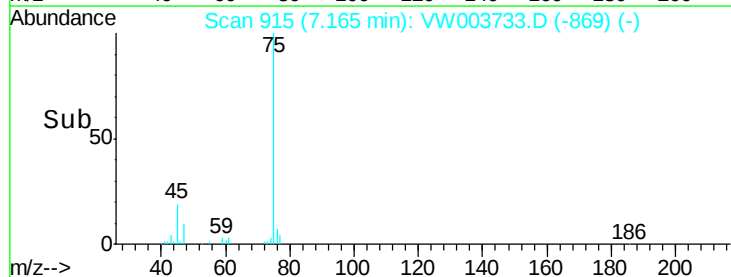
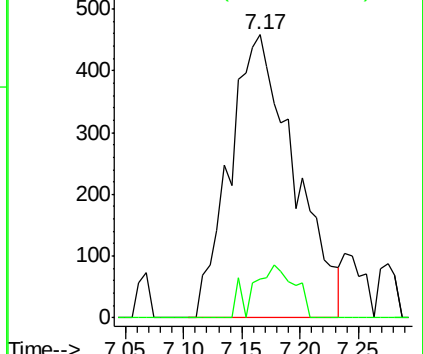
43 100

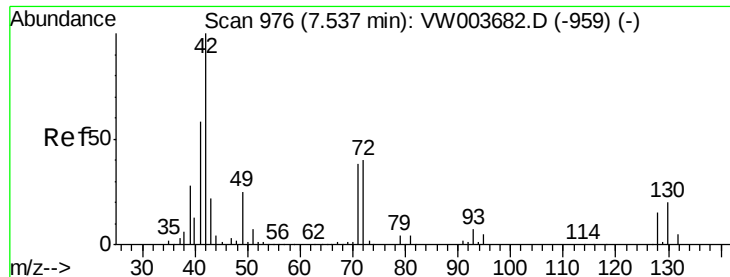
72 13.5 20.2 30.4#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

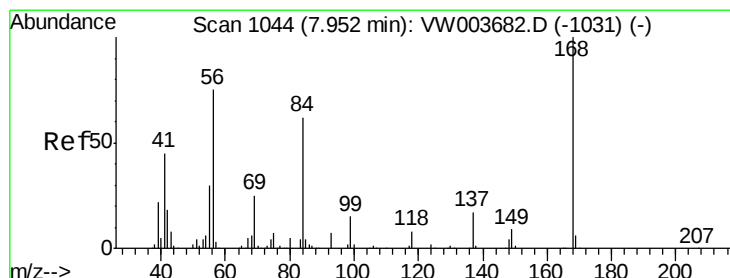
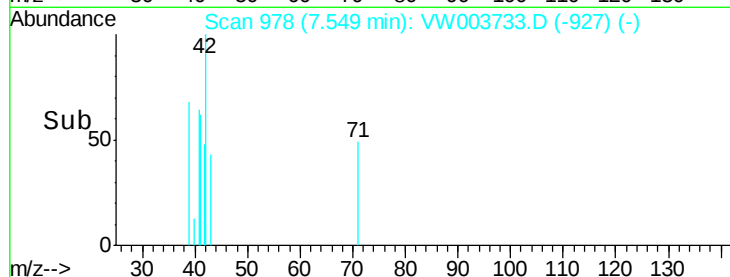
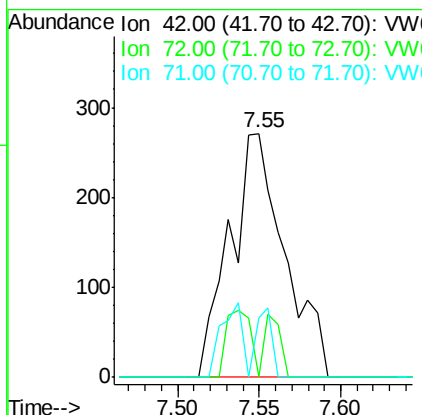
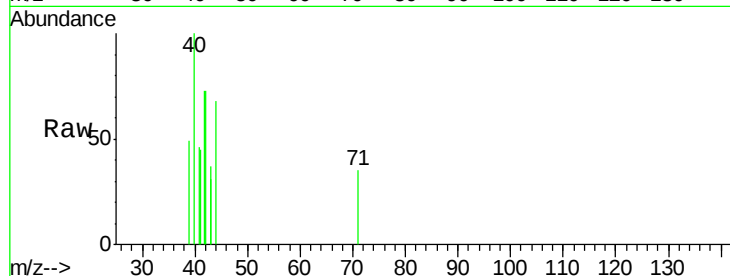




#29  
Tetrahydrofuran  
Concen: 1.976 ug/l  
RT: 7.55 min Scan# 978  
Delta R.T. 0.01 min  
Lab File: VW003733.D  
Acq: 05 Jul 2018 20:28

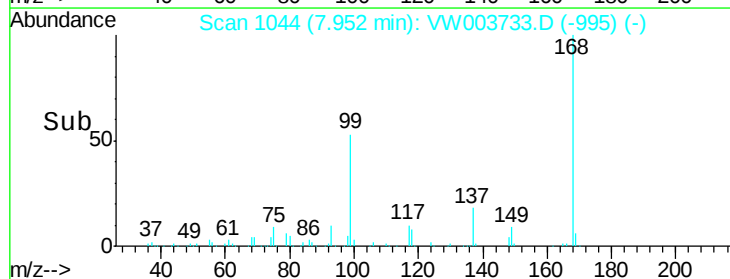
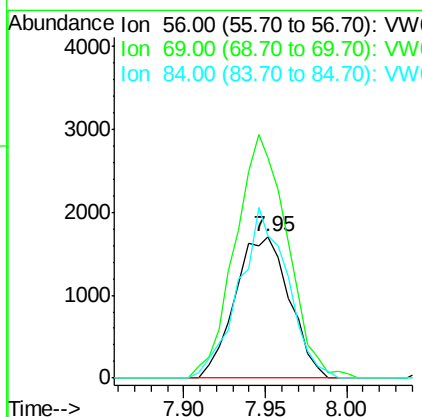
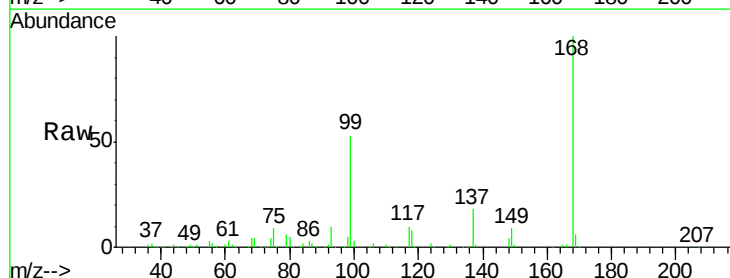
Instrument :  
MSVOA\_W  
ClientSampleId :

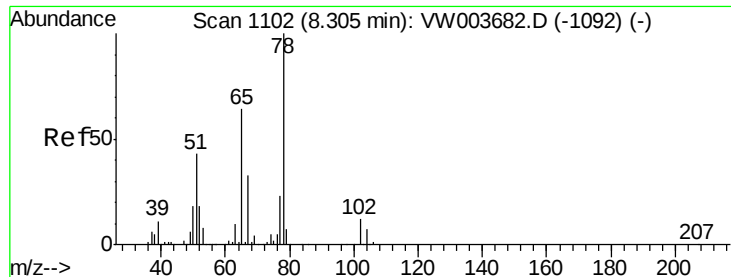
Tot Ion: 42 Resp: 636  
Ion Ratio Lower Upper  
42 100  
72 7.5 32.0 48.0#  
71 8.3 30.2 45.2#



#31  
Cyclohexane  
Concen: 1.476 ug/l  
RT: 7.95 min Scan# 1044  
Delta R.T. 0.00 min  
Lab File: VW003733.D  
Acq: 05 Jul 2018 20:28

Tgt Ion: 56 Resp: 3963  
Ion Ratio Lower Upper  
56 100  
69 155.3 27.0 40.4#  
84 100.6 65.4 98.0#





#33

1,2-Dichloroethane-d4

Concen: 55.427 ug/l

RT: 8.31 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VW003733.D

Acq: 05 Jul 2018 20:28

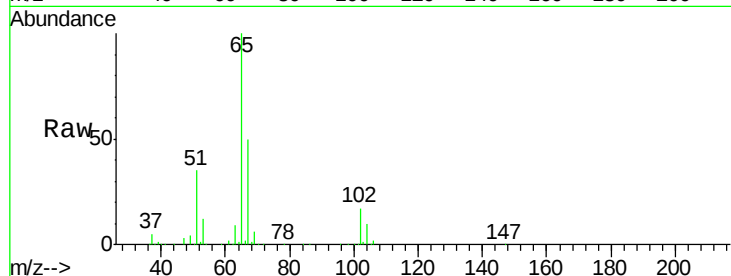
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 65 Resp: 97366

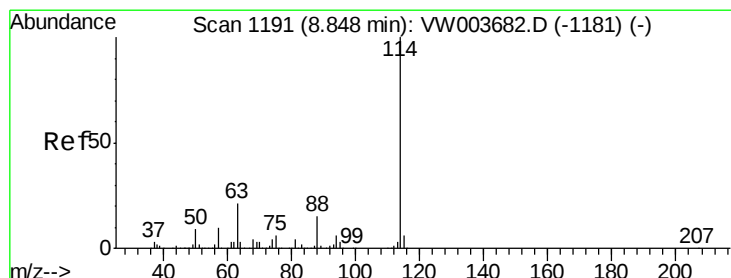
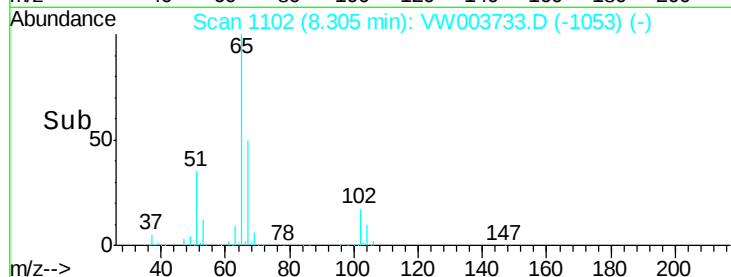
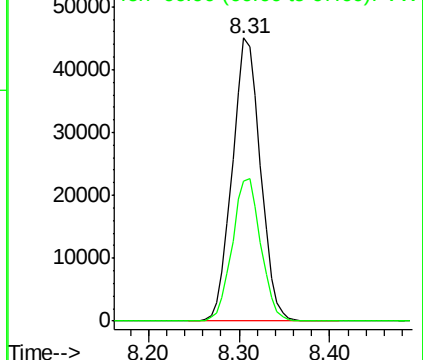
Ion Ratio Lower Upper

65 100

67 50.7 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VW  
Ion 66.90 (66.60 to 67.60): VW



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW003733.D

Acq: 05 Jul 2018 20:28

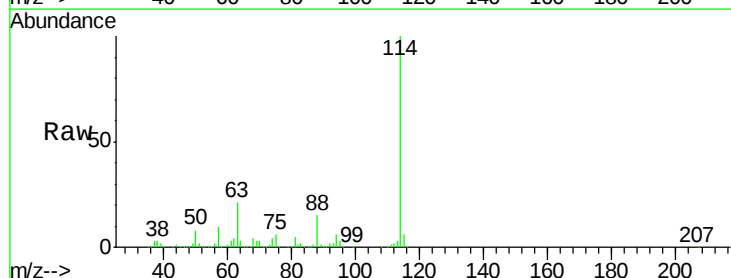
Tgt Ion: 114 Resp: 249593

Ion Ratio Lower Upper

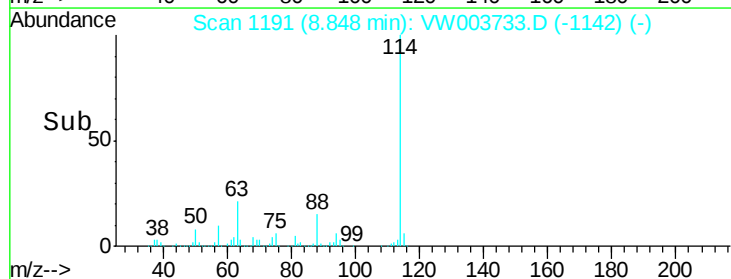
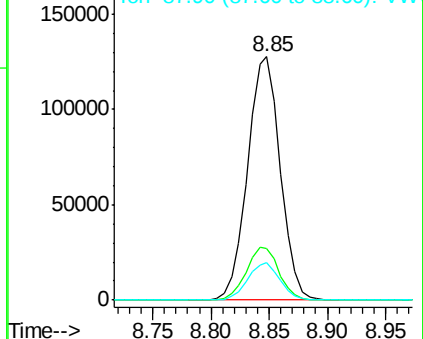
114 100

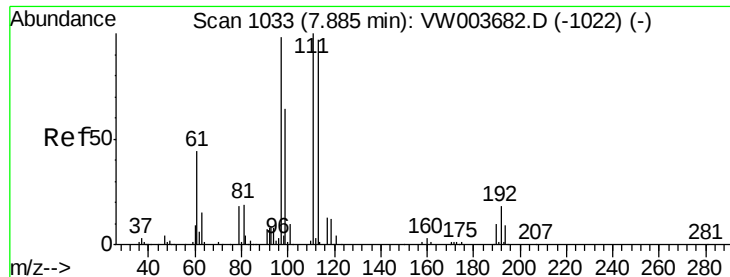
63 21.0 0.0 41.6

88 15.4 0.0 29.8



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: 50.819 ug/l

RT: 7.88 min Scan# 1033

Delta R.T. 0.00 min

Lab File: VW003733.D

Acq: 05 Jul 2018 20:28

Instrument :  
MSVOA\_W  
ClientSampled :

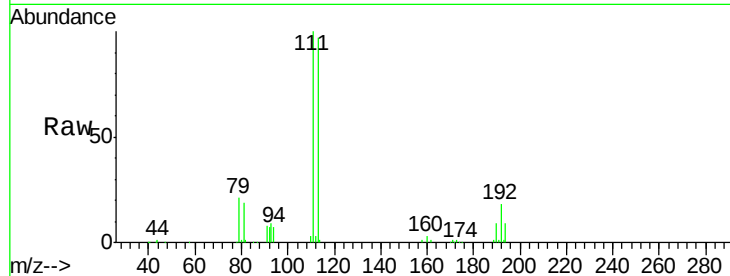
Tot Ion:113 Resp: 82727

Ion Ratio Lower Upper

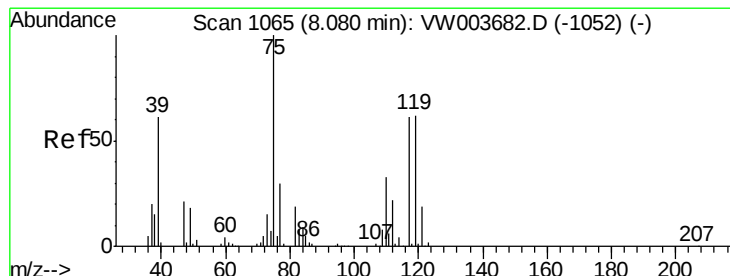
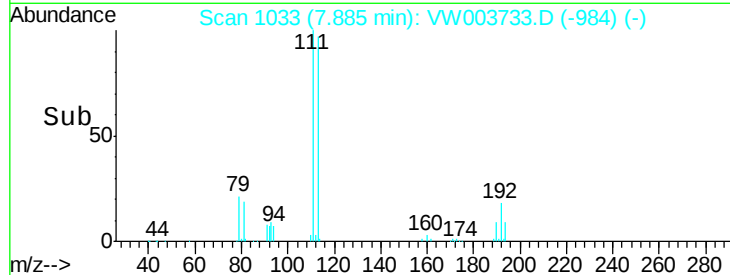
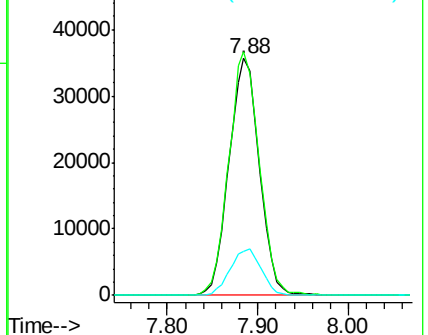
113 100

111 103.3 82.4 123.6

192 20.1 15.8 23.6



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: 5.238 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW003733.D

Acq: 05 Jul 2018 20:28

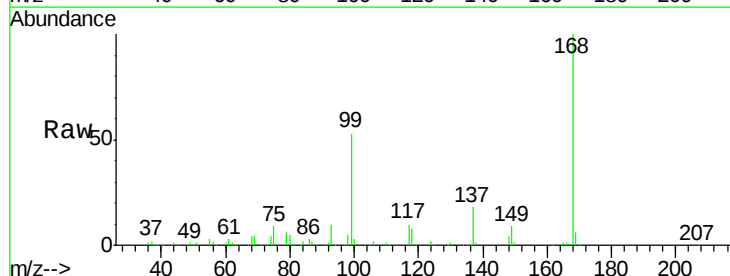
Tgt Ion: 75 Resp: 13125

Ion Ratio Lower Upper

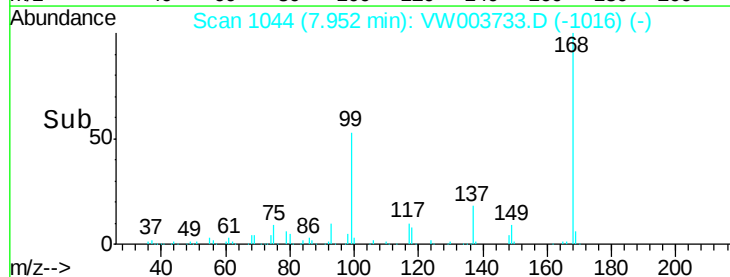
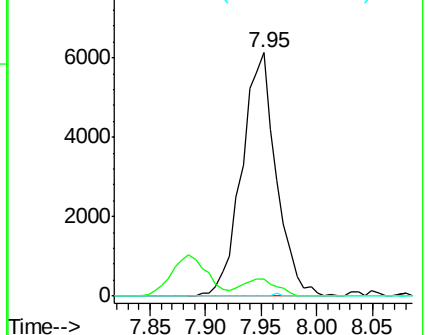
75 100

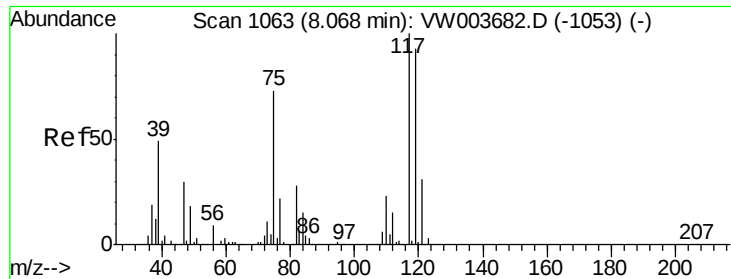
110 7.1 16.9 50.6#

77 0.2 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VW  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.90 (76.60 to 77.60): VW

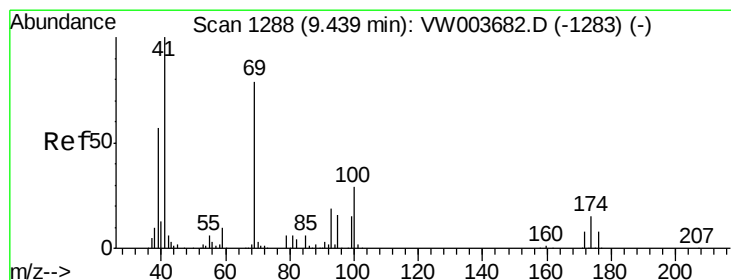
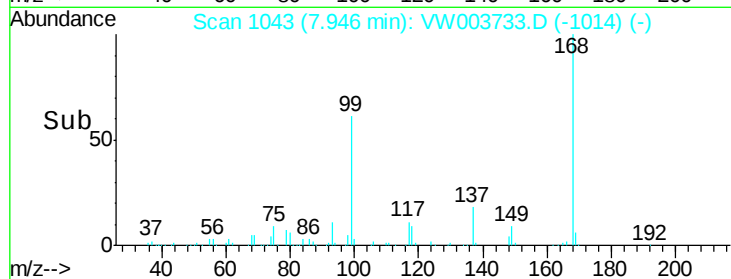
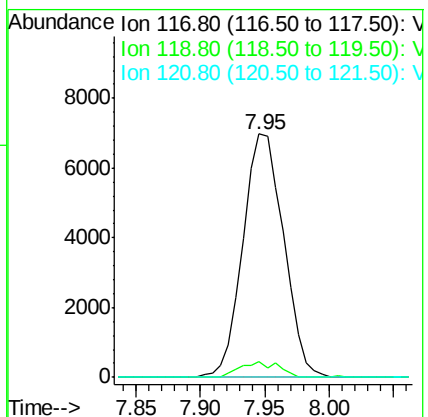
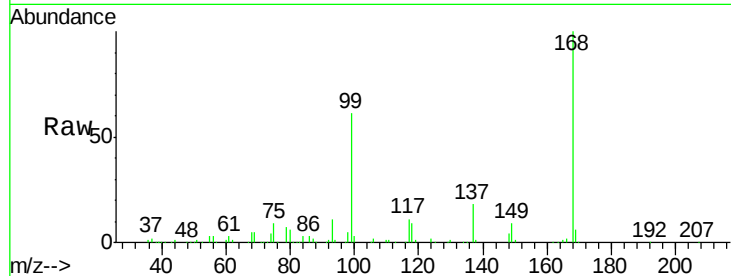




#38  
Carbon Tetrachloride  
Concen: 6.416 ug/l  
RT: 7.95 min Scan# 1043  
Delta R.T. -0.12 min  
Lab File: VW003733.D  
Acq: 05 Jul 2018 20:28

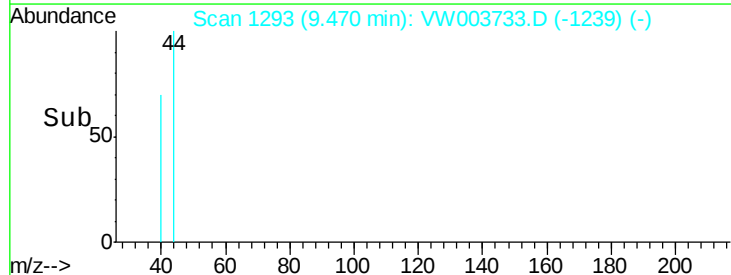
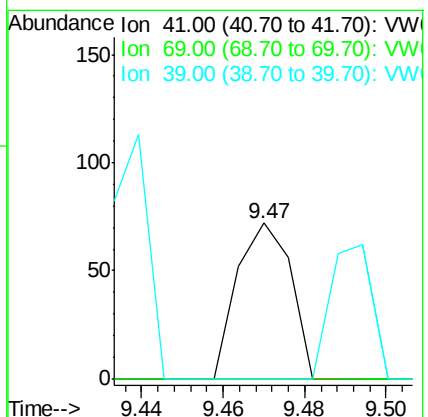
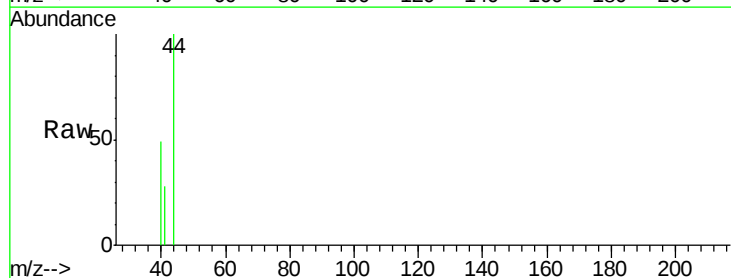
Instrument :  
MSVOA\_W  
ClientSampled :

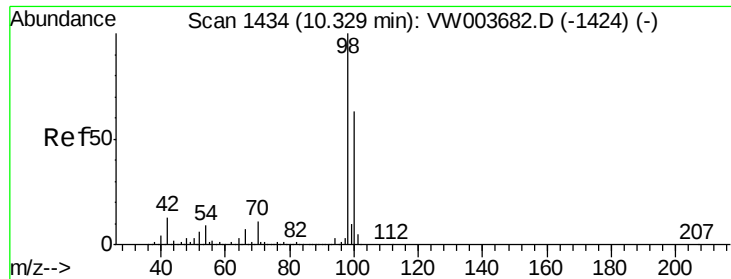
Tot Ion:117 Resp: 15292  
Ion Ratio Lower Upper  
117 100  
119 6.3 74.1 111.1#  
121 0.0 25.0 37.4#



#48  
Methyl methacrylate  
Concen: 3.415 ug/l  
RT: 9.47 min Scan# 1293  
Delta R.T. 0.03 min  
Lab File: VW003733.D  
Acq: 05 Jul 2018 20:28

Tgt Ion: 41 Resp: 66  
Ion Ratio Lower Upper  
41 100  
69 0.0 65.4 98.2#  
39 0.0 50.0 75.0#

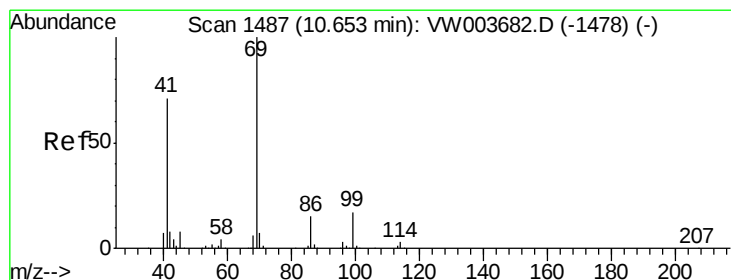
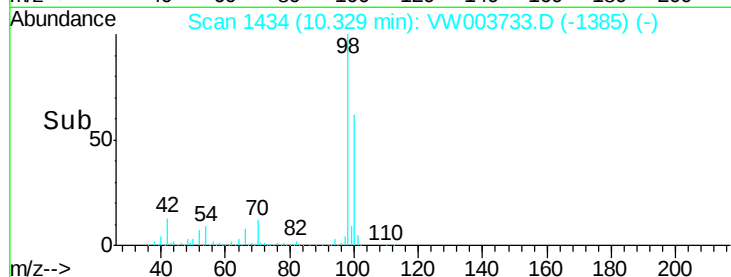
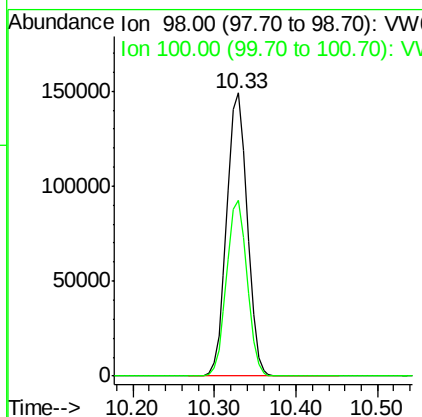
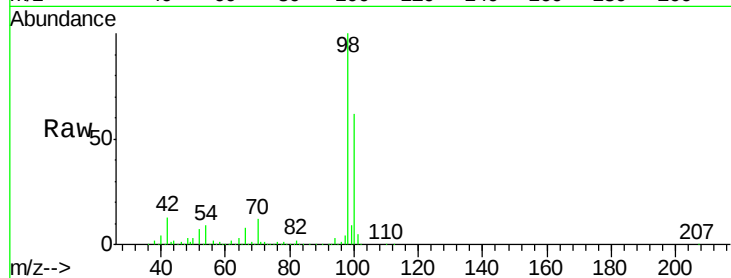




#50  
Toluene-d8  
Concen: 40.550 ug/l  
RT: 10.33 min Scan# 1434  
Delta R.T. 0.00 min  
Lab File: VW003733.D  
Acq: 05 Jul 2018 20:28

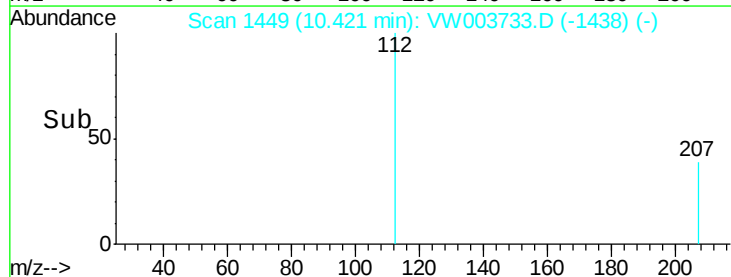
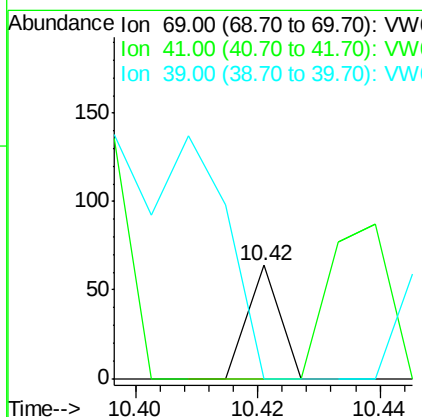
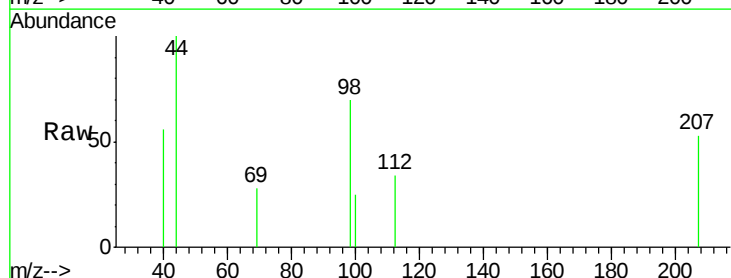
Instrument :  
MSVOA\_W  
ClientSampleId :

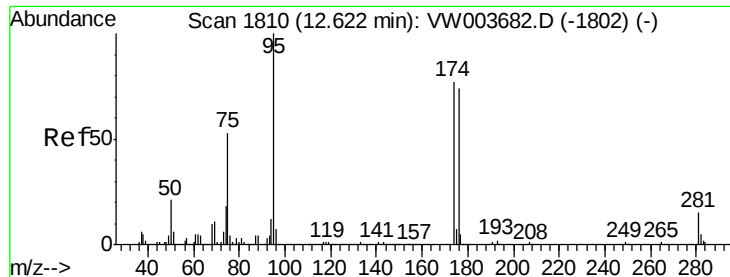
Tot Ion: 98 Resp: 259133  
Ion Ratio Lower Upper  
98 100  
100 62.0 50.8 76.2



#56  
Ethyl methacrylate  
Concen: 3.596 ug/l  
RT: 10.42 min Scan# 1449  
Delta R.T. -0.23 min  
Lab File: VW003733.D  
Acq: 05 Jul 2018 20:28

Tgt Ion: 69 Resp: 23  
Ion Ratio Lower Upper  
69 100  
41 0.0 57.5 86.3#  
39 0.0 29.4 44.0#

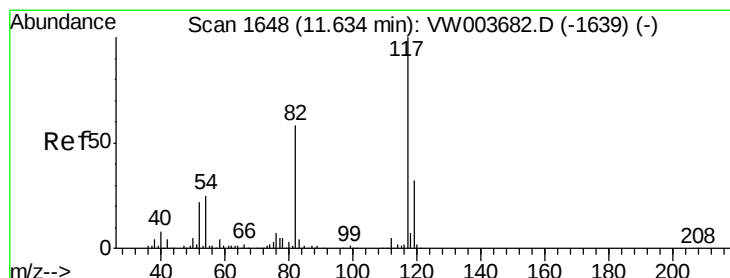
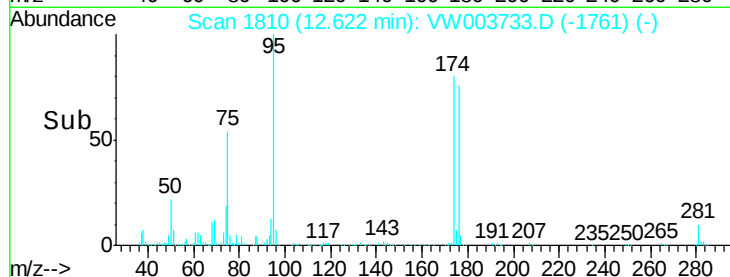
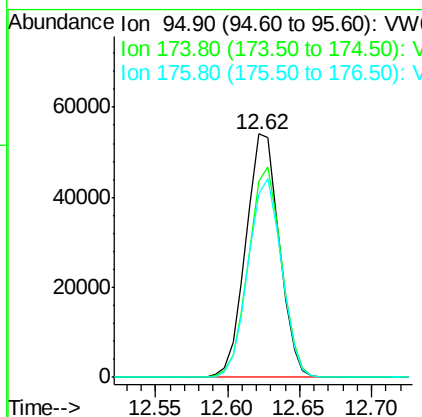
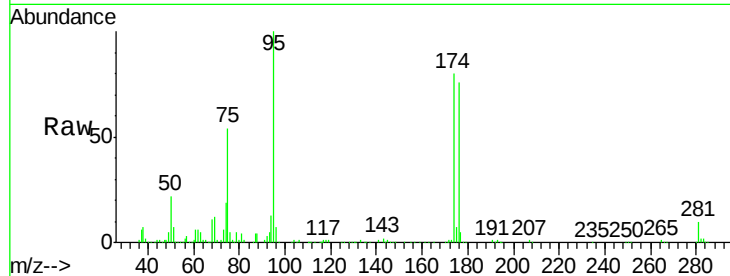




#62  
4-Bromofluorobenzene  
Concen: 37.798 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. 0.00 min  
Lab File: VW003733.D  
Acq: 05 Jul 2018 20:28

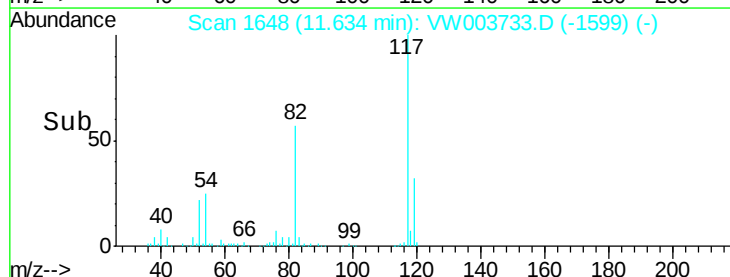
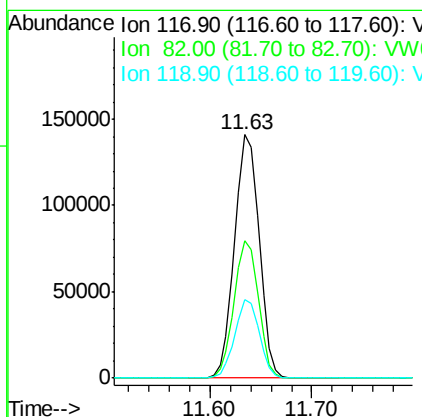
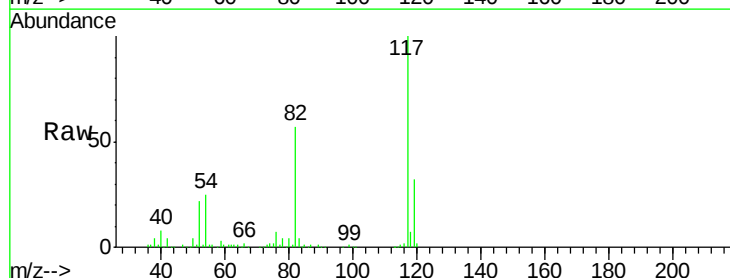
Instrument :  
MSVOA\_W  
ClientSampleId :

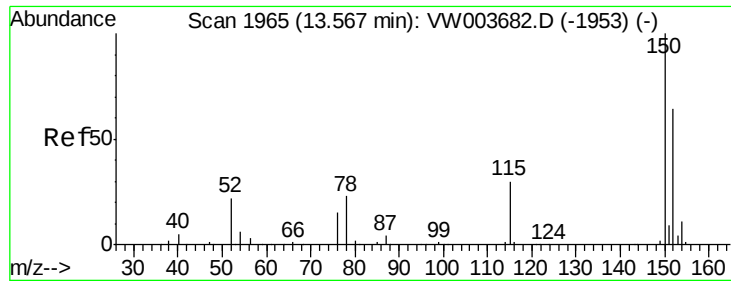
Tot Ion: 95 Resp: 86778  
Ion Ratio Lower Upper  
95 100  
174 85.6 0.0 161.2  
176 81.3 0.0 155.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. 0.00 min  
Lab File: VW003733.D  
Acq: 05 Jul 2018 20:28

Tgt Ion: 117 Resp: 235029  
Ion Ratio Lower Upper  
117 100  
82 56.5 46.0 69.0  
119 32.4 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VW003733.D

Acq: 05 Jul 2018 20:28

Instrument :

MSVOA\_W

ClientSampled :

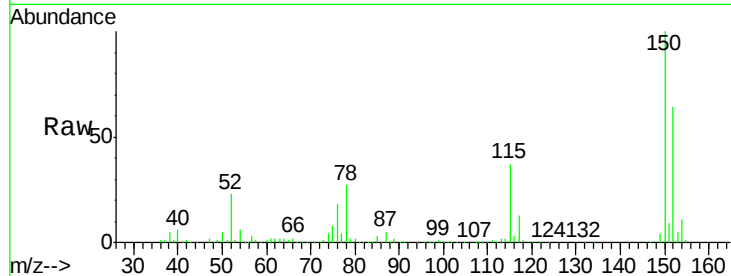
Tot Ion:152 Resp: 109102

Ion Ratio Lower Upper

152 100

115 58.6 29.3 88.0

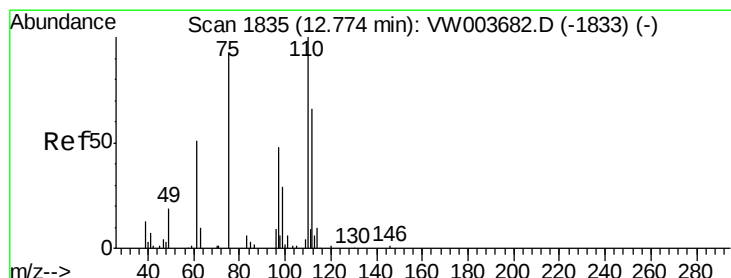
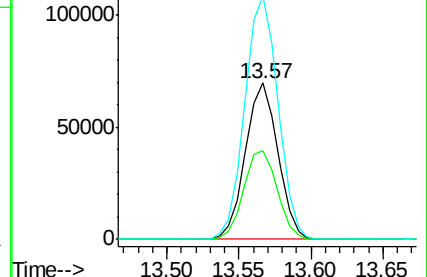
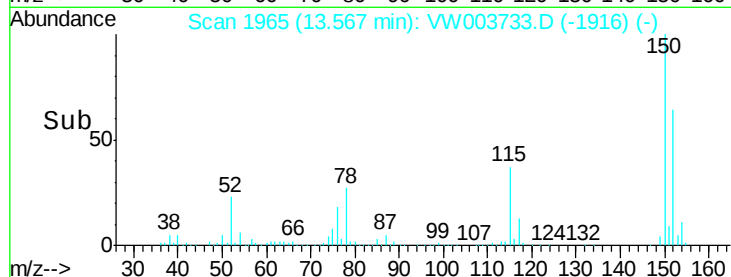
150 158.2 0.0 352.0



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: 47.618 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW003733.D

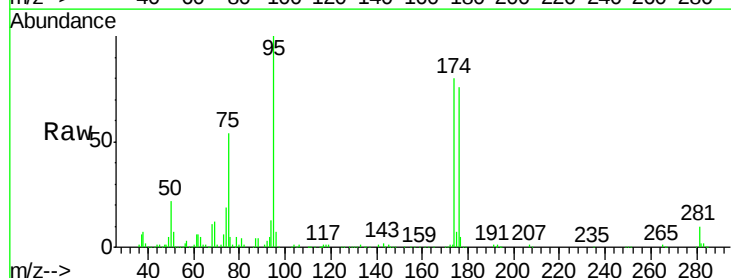
Acq: 05 Jul 2018 20:28

Tgt Ion: 75 Resp: 46712

Ion Ratio Lower Upper

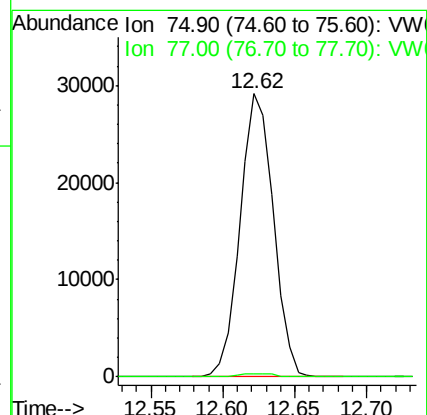
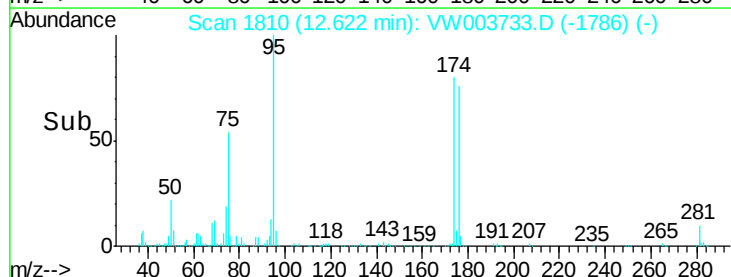
75 100

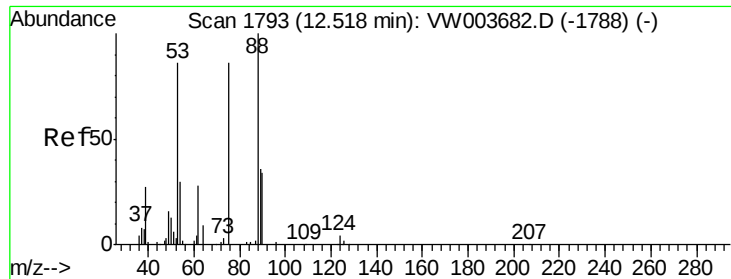
77 1.3 0.0 0.0#



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: 100.898 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW003733.D

Acq: 05 Jul 2018 20:28

Instrument :

MSVOA\_W

ClientSampleId :

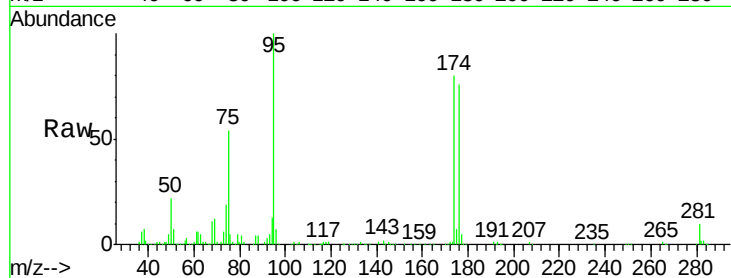
Tot Ion: 75 Resp: 46712

Ion Ratio Lower Upper

75 100

53 0.4 82.4 123.6#

89 0.0 35.9 53.9#



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

