

Data Path : W:\HPCHEM1\MSVOA W\DATA\VW052518\  
 Data File : VW002858.D  
 Acq On : 24 May 2018 22:48  
 Operator : JC/SY  
 Sample : VW0525SBL01  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: May 25 08:50:11 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W051518S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 15 03:32:11 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 175332   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 282785   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 272481   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 138386   | 50.00 | ug/l  | 0.00     |

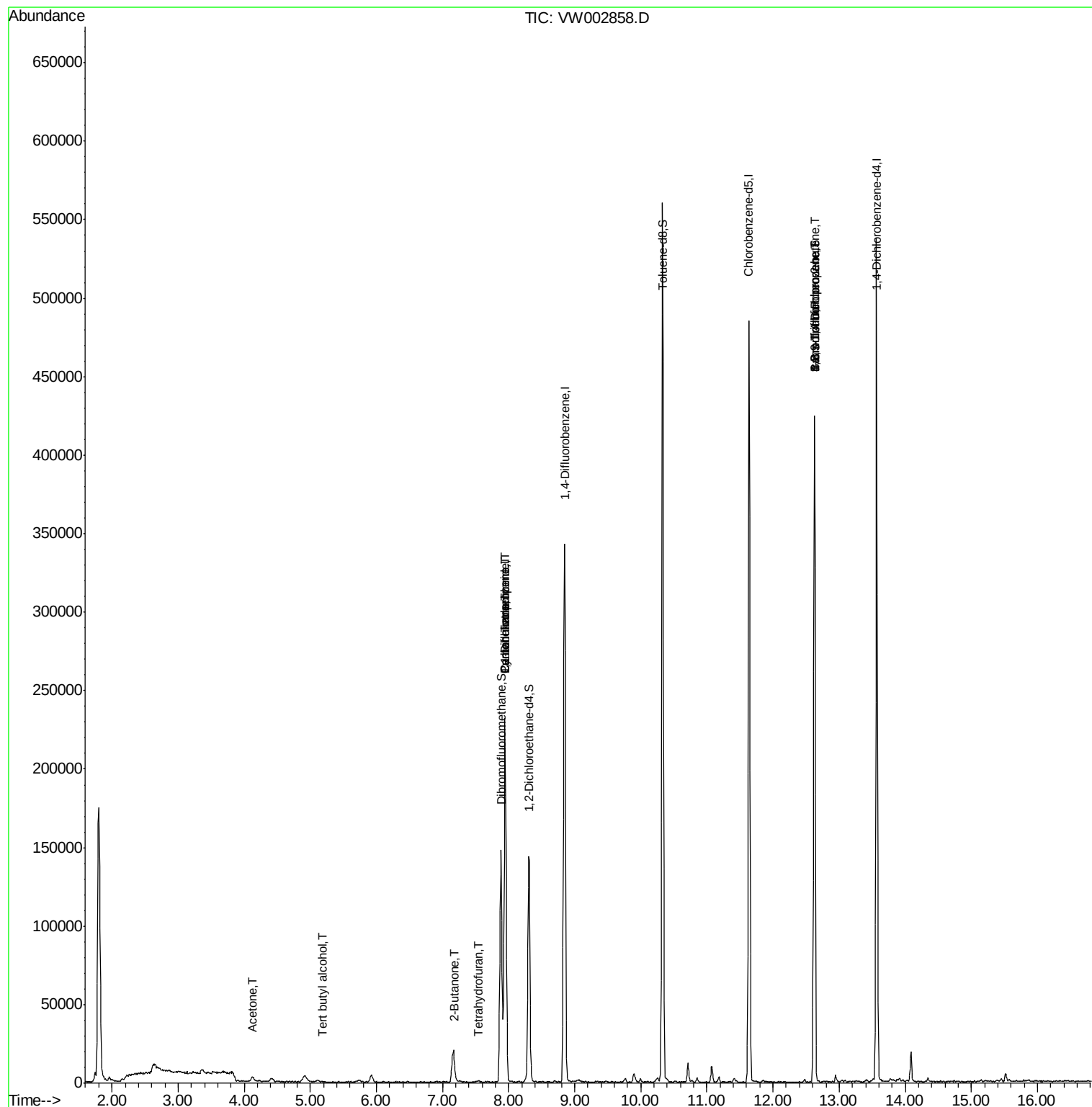
| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 112899   | 62.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 124.62% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 98536    | 54.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.86% |          |
| 50) Toluene-d8              | 10.33 | 98   | 350733   | 51.39 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.78% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 120034   | 48.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.18%  |          |

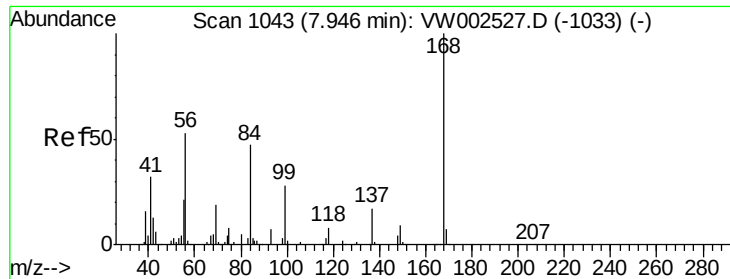
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.19  | 59   | 151      | 1.08      | ug/l # | 32     |
| 16) Acetone                    | 4.13  | 43   | 5525     | 14.44     | ug/l   | 90     |
| 20) Methylene Chloride         | 4.92  | 84   | 3556     | Below Cal |        | 86     |
| 25) 2-Butanone                 | 7.19  | 43   | 1736     | 3.21      | ug/l # | 49     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 464      | 1.37      | ug/l # | 70     |
| 31) Cyclohexane                | 7.95  | 56   | 4425     | 1.72      | ug/l # | 33     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 13062    | 5.23      | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 16612    | 6.80      | ug/l # | 19     |
| 71) Bromoform                  | 12.63 | 173  | 1293     | 1.13      | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 64923    | 49.63     | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 64923    | 135.32    | ug/l # | 8      |

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

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Quant Title : SW846 8260  
QLast Update : Tue May 15 03:32:11 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.01 min

Lab File: VW002858.D

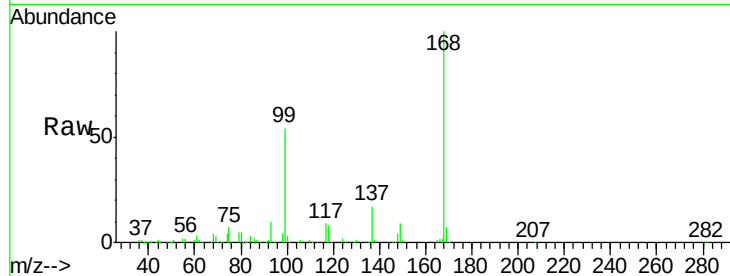
Acq: 24 May 2018 22:48

Tot Ion:168 Resp: 175332

Ion Ratio Lower Upper

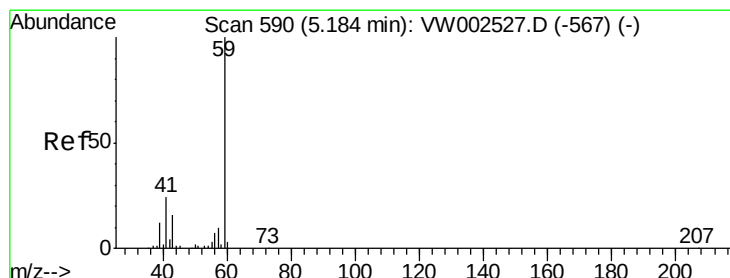
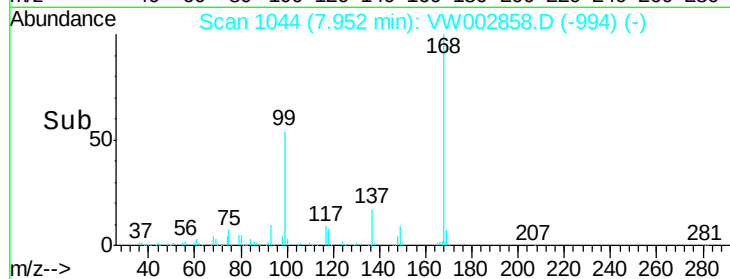
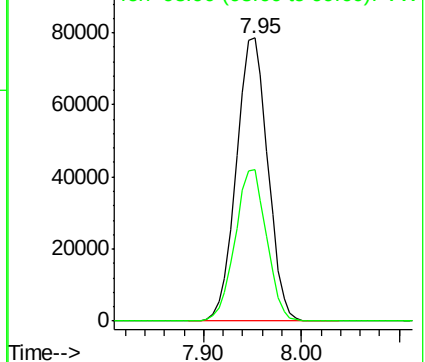
168 100

99 53.6 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 1.08 ug/l

RT: 5.19 min Scan# 591

Delta R.T. 0.01 min

Lab File: VW002858.D

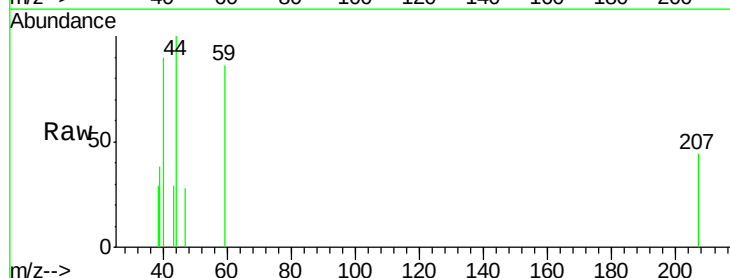
Acq: 24 May 2018 22:48

Tgt Ion: 59 Resp: 151

Ion Ratio Lower Upper

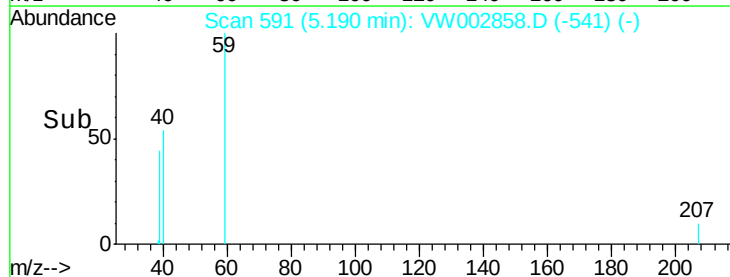
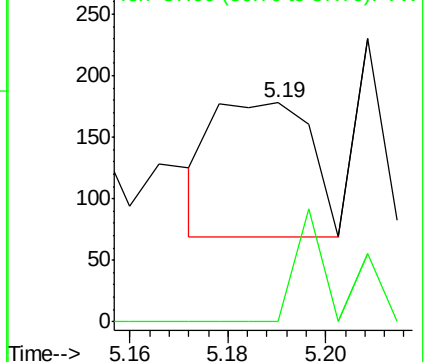
59 100

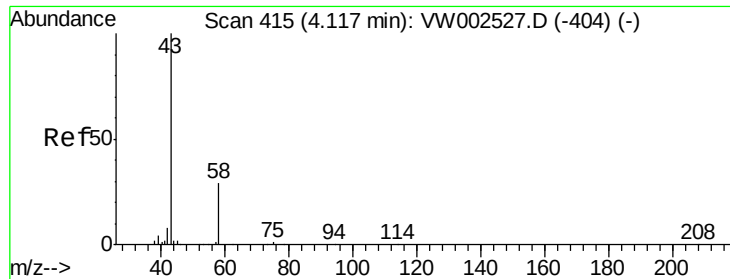
57 35.8 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 14.44 ug/l

RT: 4.13 min Scan# 417

Delta R.T. 0.01 min

Lab File: VW002858.D

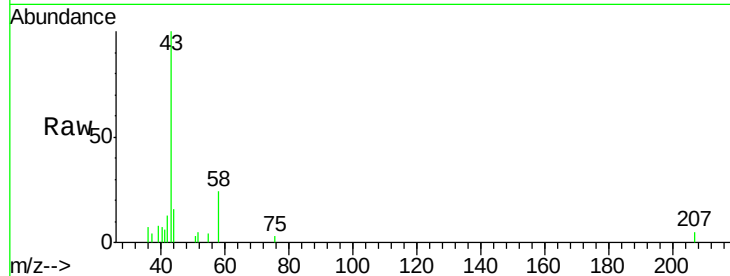
Acq: 24 May 2018 22:48

Tot Ion: 43 Resp: 5525

Ion Ratio Lower Upper

43 100

58 24.1 23.4 35.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.13

1500

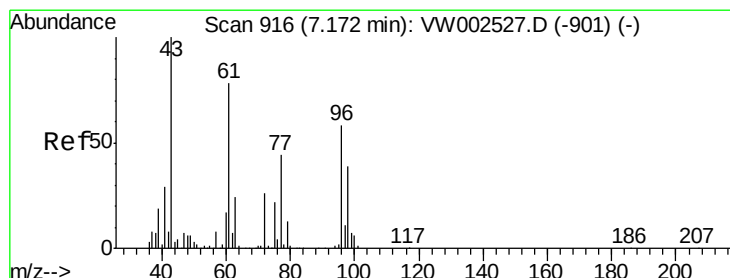
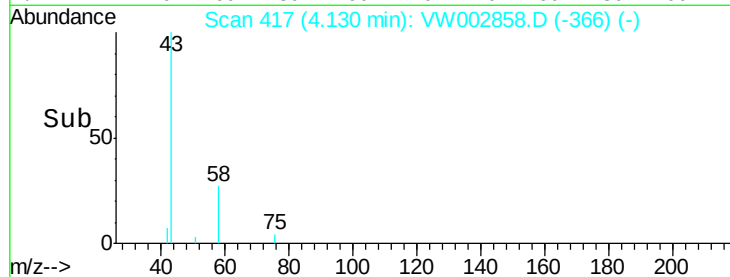
1000

500

0

Time-->

4.05 4.10 4.15 4.20



#25

2-Butanone

Concen: 3.21 ug/l

RT: 7.19 min Scan# 919

Delta R.T. 0.02 min

Lab File: VW002858.D

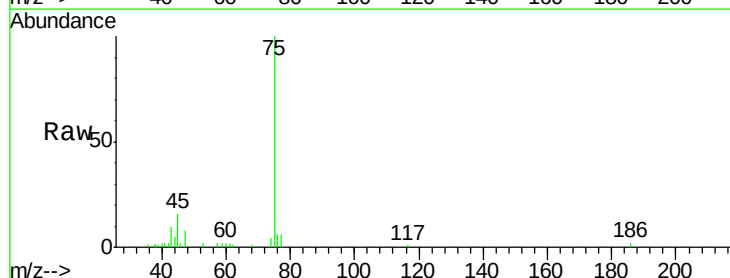
Acq: 24 May 2018 22:48

Tgt Ion: 43 Resp: 1736

Ion Ratio Lower Upper

43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

7.19

500

400

300

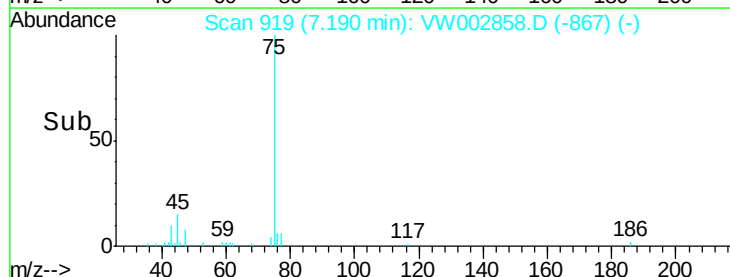
200

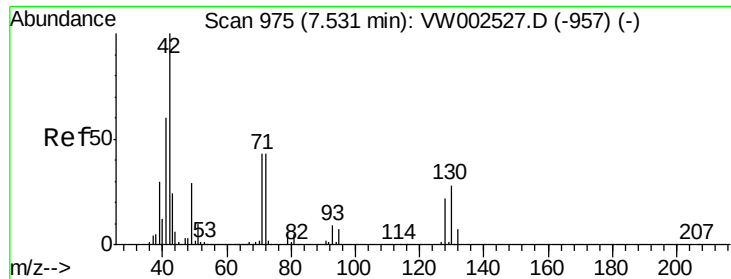
100

0

Time-->

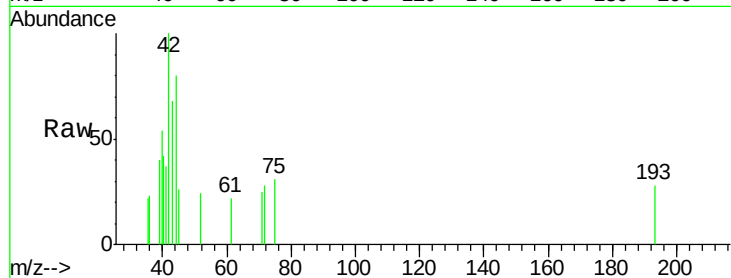
7.05 7.10 7.15 7.20 7.25



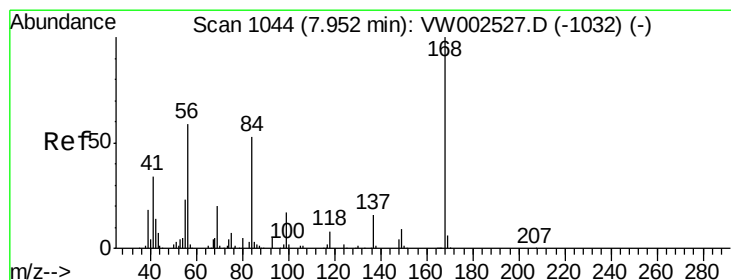
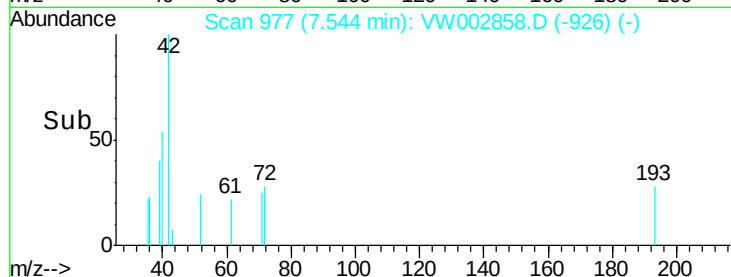
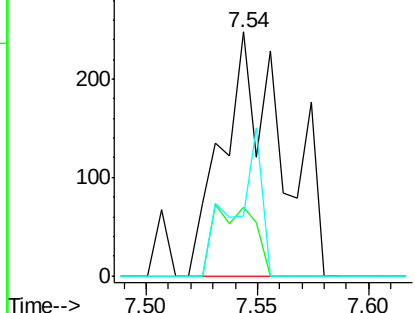


#29  
Tetrahydrofuran  
Concen: 1.37 ug/l  
RT: 7.54 min Scan# 977  
Delta R.T. 0.01 min  
Lab File: VW002858.D  
Acq: 24 May 2018 22:48

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 19.6  | 35.0  | 52.4# |
| 71      | 27.2  | 33.0  | 49.6# |

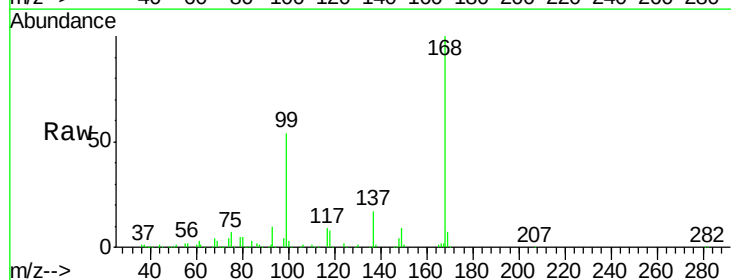


Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW

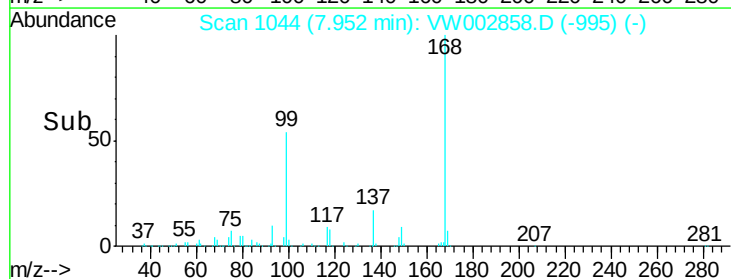
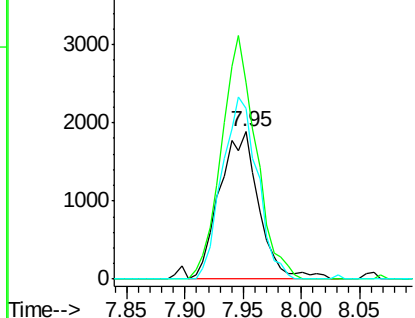


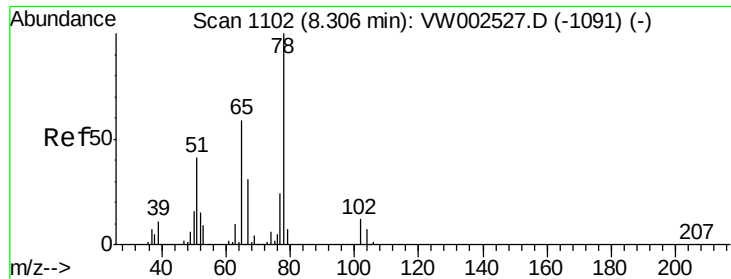
#31  
Cyclohexane  
Concen: 1.72 ug/l  
RT: 7.95 min Scan# 1044  
Delta R.T. 0.00 min  
Lab File: VW002858.D  
Acq: 24 May 2018 22:48

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 56      | 100   |       |        |
| 69      | 133.3 | 27.0  | 40.4#  |
| 84      | 115.7 | 72.2  | 108.2# |



Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW





#33

1,2-Dichloroethane-d4

Concen: 62.31 ug/l

RT: 8.31 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VW002858.D

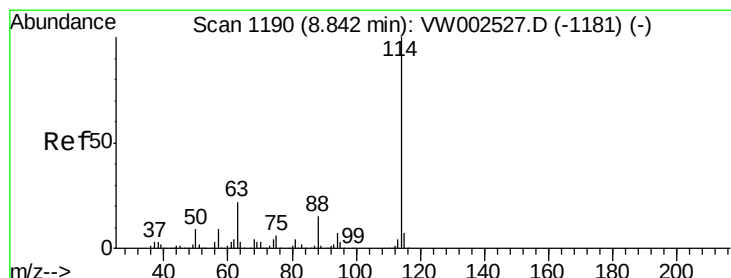
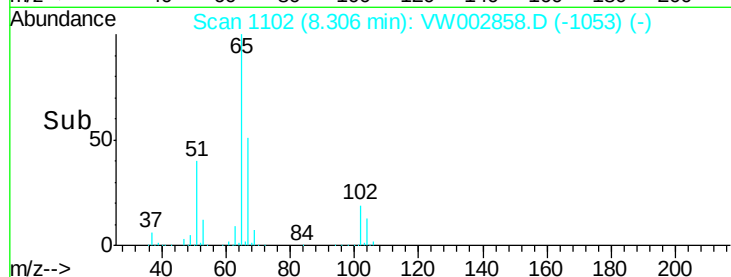
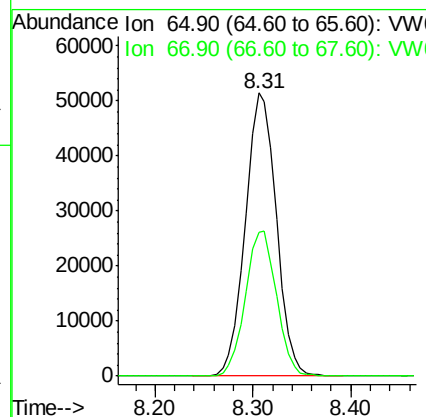
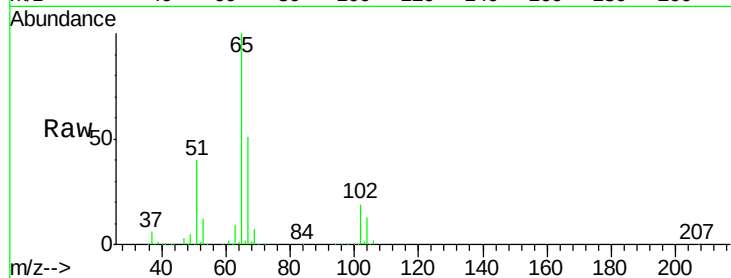
Acq: 24 May 2018 22:48

Tot Ion: 65 Resp: 112899

Ion Ratio Lower Upper

65 100

67 51.4 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.01 min

Lab File: VW002858.D

Acq: 24 May 2018 22:48

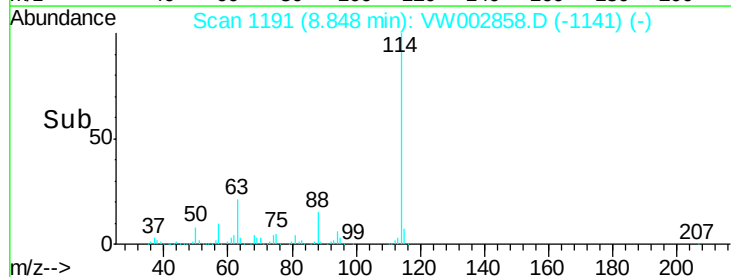
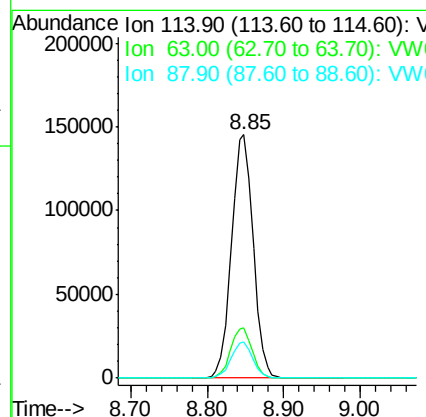
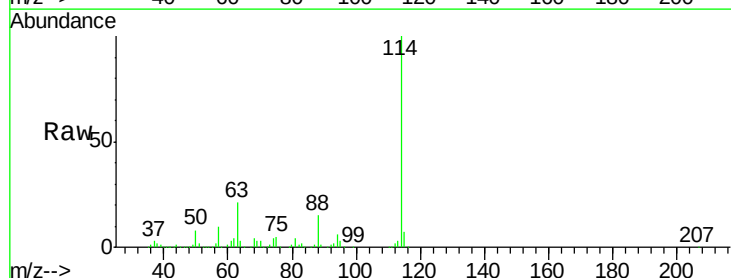
Tgt Ion: 114 Resp: 282785

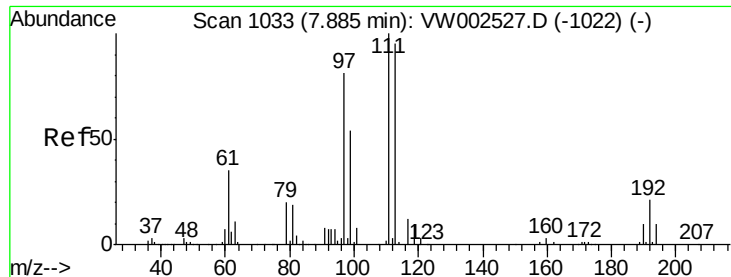
Ion Ratio Lower Upper

114 100

63 20.6 0.0 43.2

88 14.7 0.0 29.2





#35

Dibromofluoromethane

Concen: 54.93 ug/l

RT: 7.88 min Scan# 1033

Delta R.T. 0.00 min

Lab File: VW002858.D

Acq: 24 May 2018 22:48

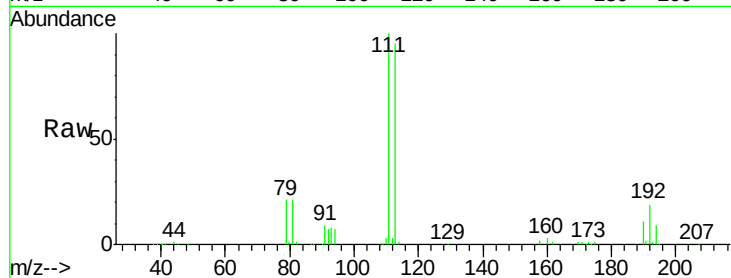
Tot Ion:113 Resp: 98536

Ion Ratio Lower Upper

113 100

111 102.3 81.8 122.8

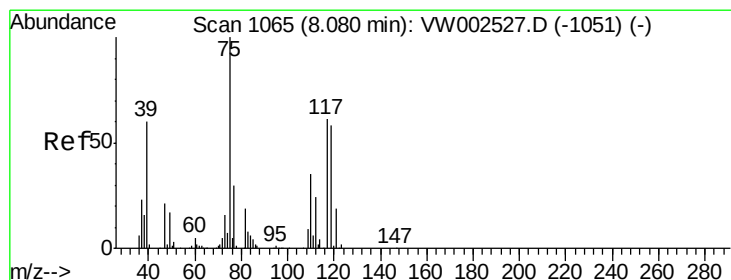
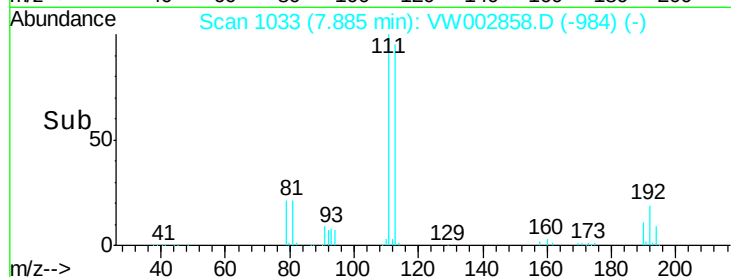
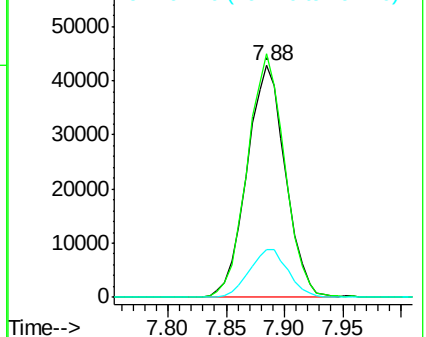
192 21.0 17.5 26.3



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: 5.23 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.13 min

Lab File: VW002858.D

Acq: 24 May 2018 22:48

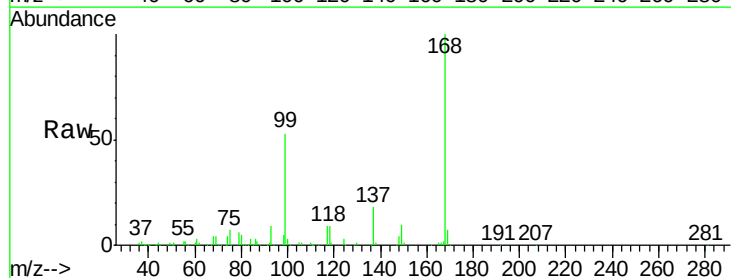
Tgt Ion: 75 Resp: 13062

Ion Ratio Lower Upper

75 100

110 9.1 17.8 53.5#

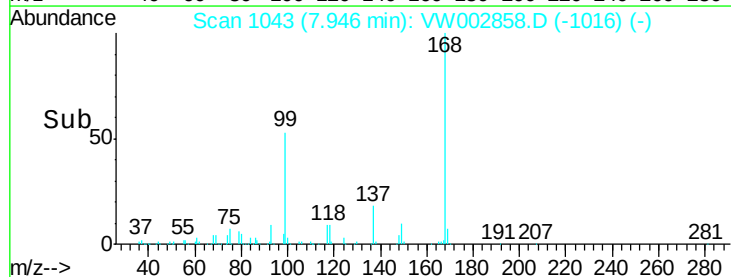
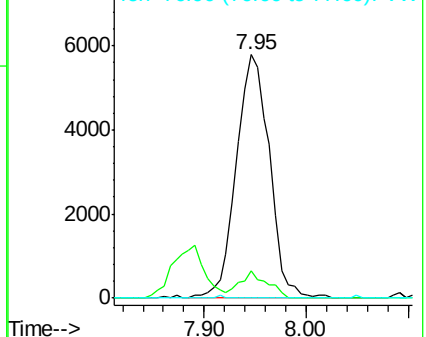
77 0.0 24.5 36.7#

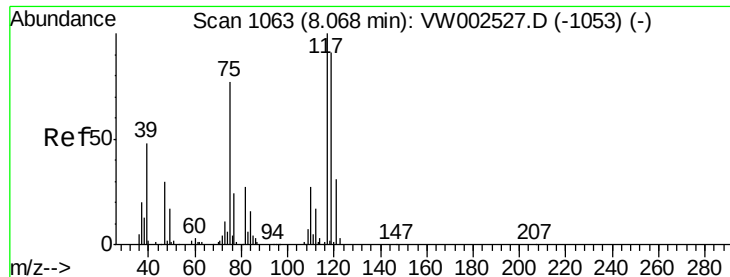


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.80 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.12 min

Lab File: VW002858.D

Acq: 24 May 2018 22:48

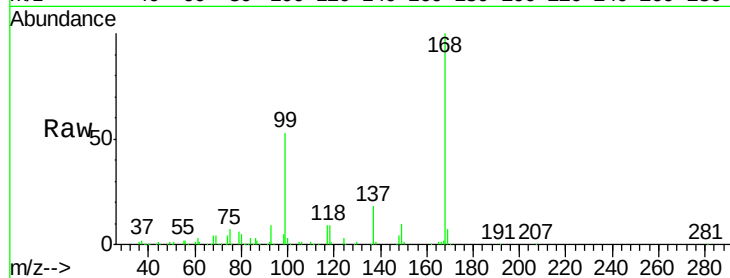
Tot Ion:117 Resp: 16612

Ion Ratio Lower Upper

117 100

119 6.4 73.1 109.7#

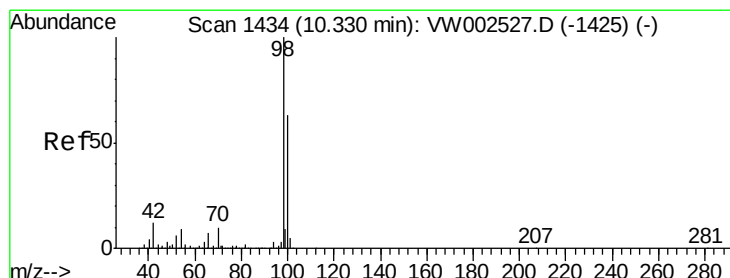
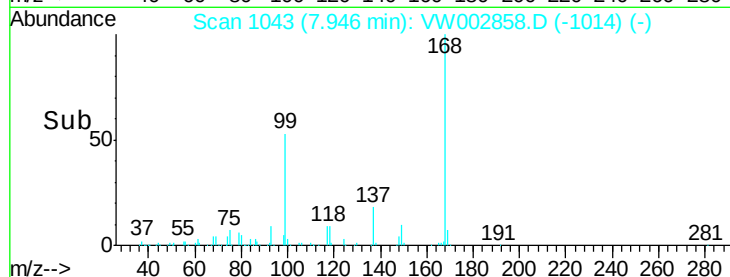
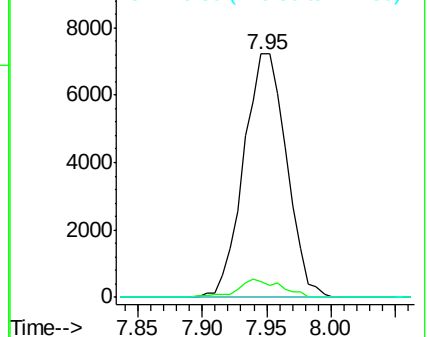
121 0.0 24.4 36.6#



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



#50

Toluene-d8

Concen: 51.39 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW002858.D

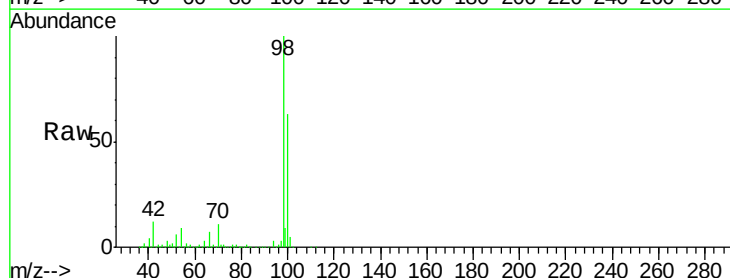
Acq: 24 May 2018 22:48

Tgt Ion: 98 Resp: 350733

Ion Ratio Lower Upper

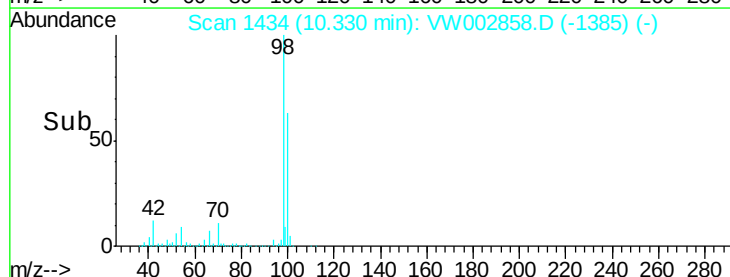
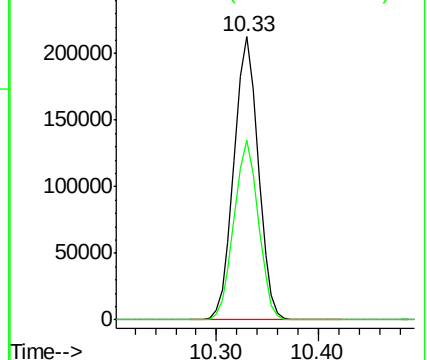
98 100

100 63.5 51.0 76.4

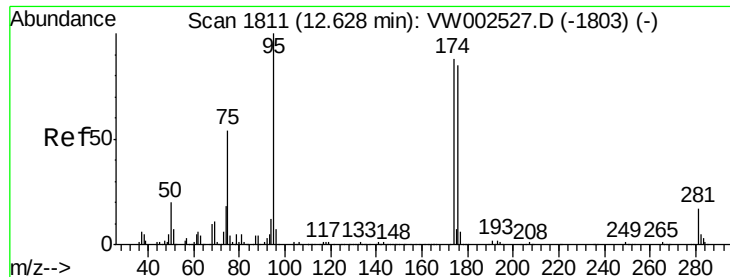


Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

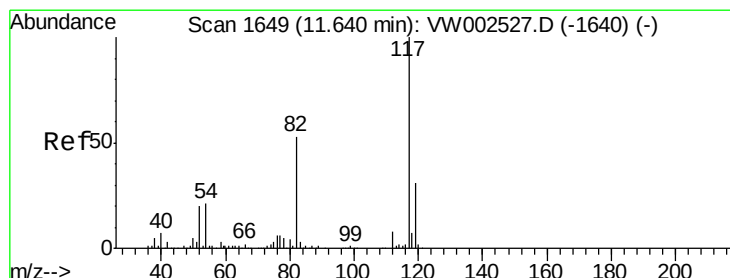
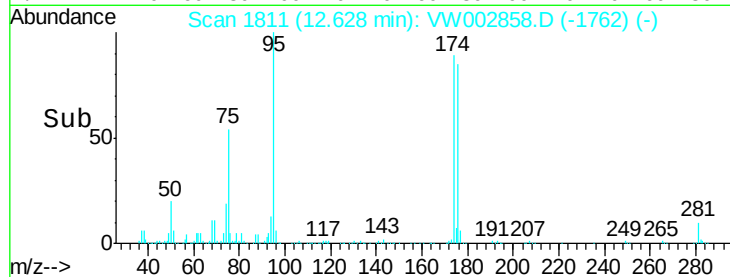
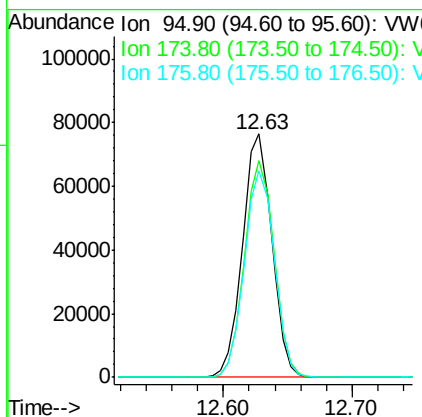
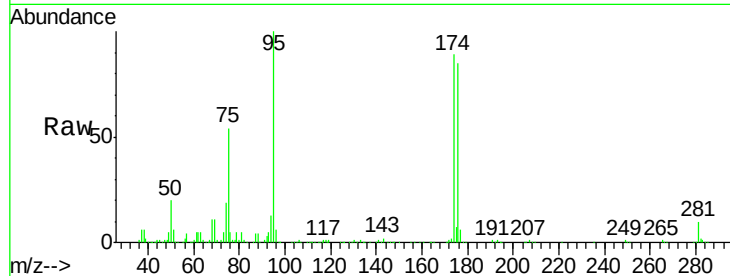






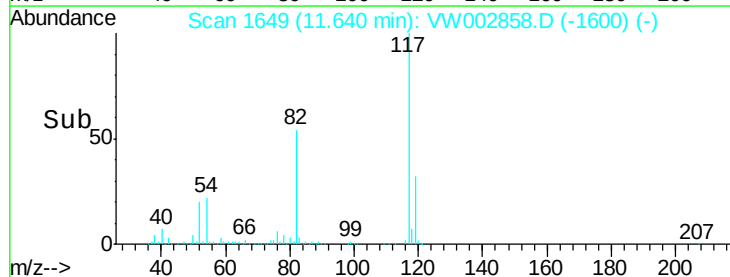
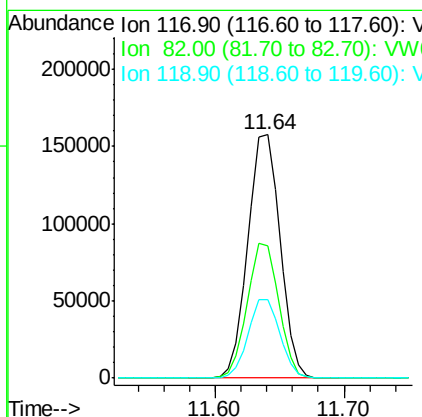
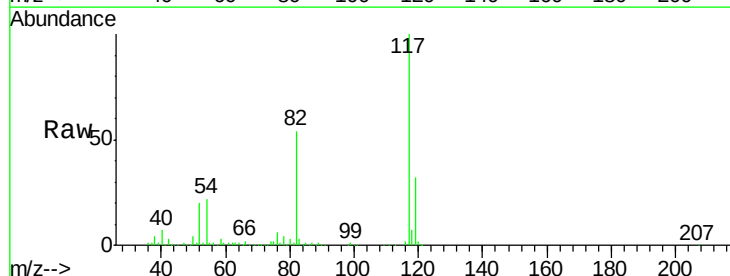
#62  
4-Bromofluorobenzene  
Concen: 48.09 ug/l  
RT: 12.63 min Scan# 1811  
Delta R.T. 0.00 min  
Lab File: VW002858.D  
Acq: 24 May 2018 22:48

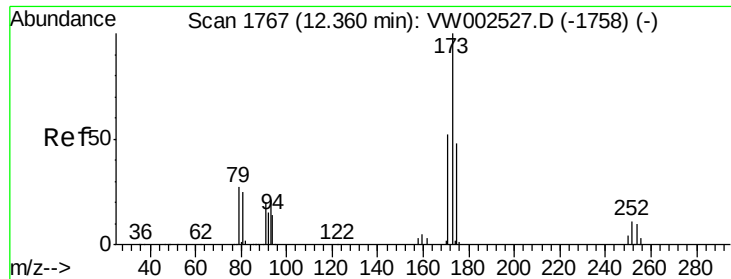
Tot Ion: 95 Resp: 120034  
Ion Ratio Lower Upper  
95 100  
174 90.2 0.0 176.6  
176 86.9 0.0 172.2



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.64 min Scan# 1649  
Delta R.T. 0.00 min  
Lab File: VW002858.D  
Acq: 24 May 2018 22:48

Tgt Ion: 117 Resp: 272481  
Ion Ratio Lower Upper  
117 100  
82 54.2 42.6 64.0  
119 32.1 25.0 37.6





#71

Bromoform

Concen: 1.13 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.27 min

Lab File: VW002858.D

Acq: 24 May 2018 22:48

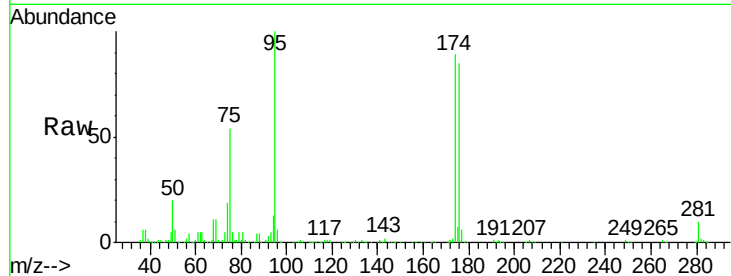
Tot Ion:173 Resp: 1293

Ion Ratio Lower Upper

173 100

175 537.1 24.5 73.5#

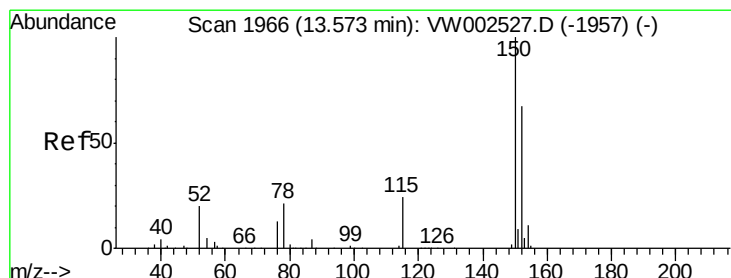
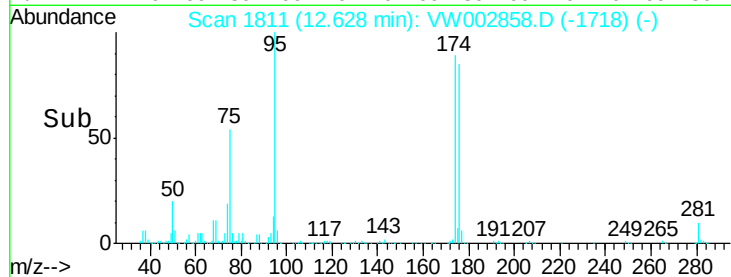
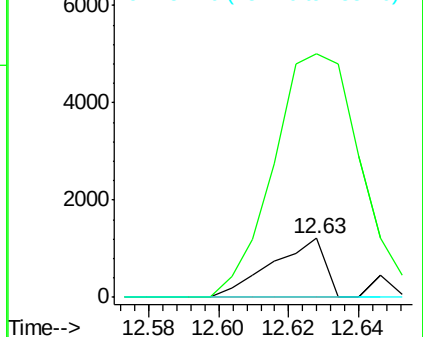
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. -0.01 min

Lab File: VW002858.D

Acq: 24 May 2018 22:48

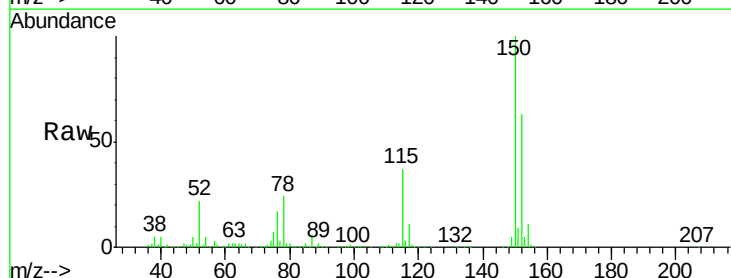
Tgt Ion:152 Resp: 138386

Ion Ratio Lower Upper

152 100

115 55.8 28.0 84.0

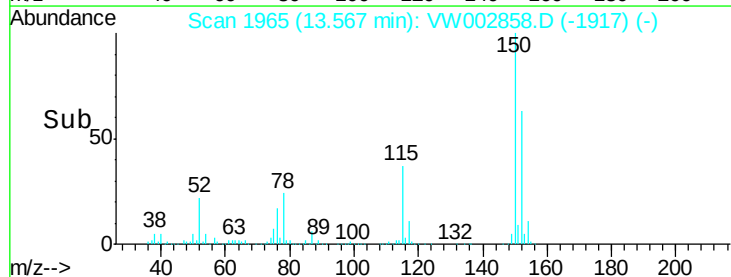
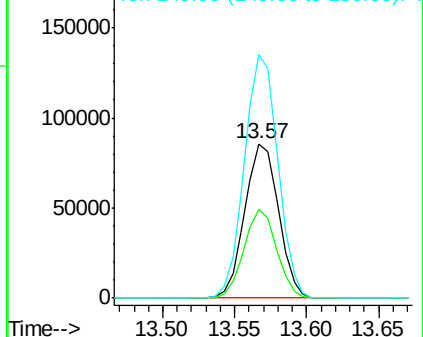
150 156.5 0.0 345.4

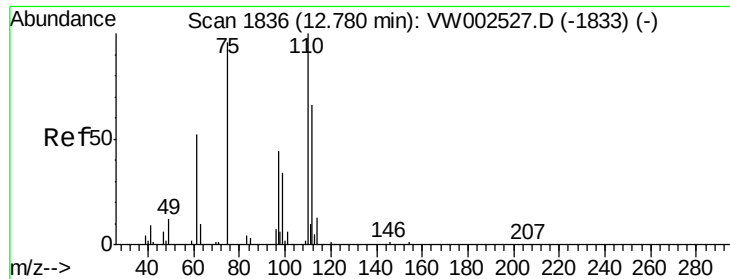


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 49.63 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.15 min

Lab File: VW002858.D

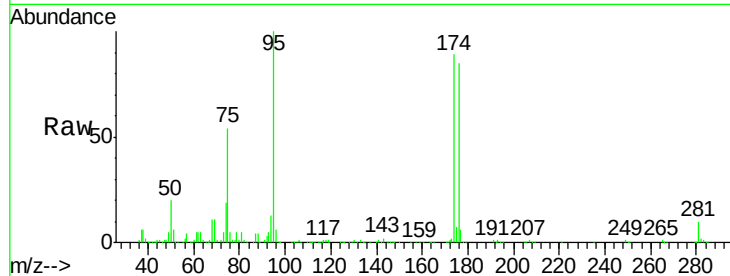
Acq: 24 May 2018 22:48

Tot Ion: 75 Resp: 64923

Ion Ratio Lower Upper

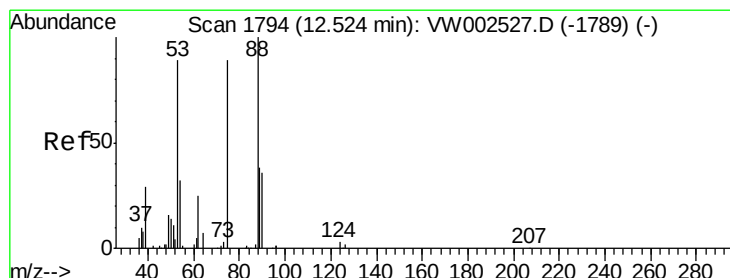
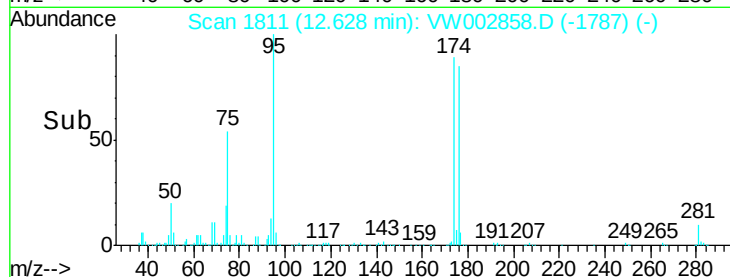
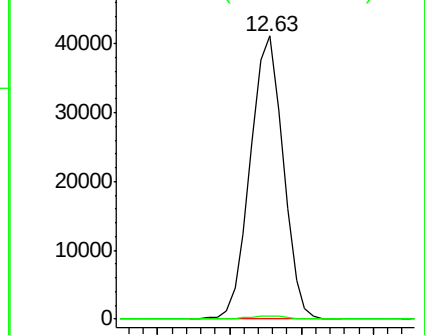
75 100

77 1.2 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: 135.32 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.10 min

Lab File: VW002858.D

Acq: 24 May 2018 22:48

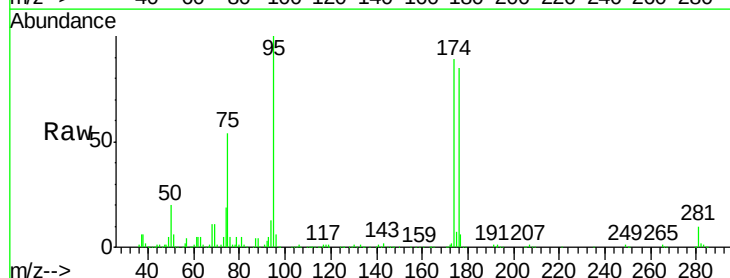
Tgt Ion: 75 Resp: 64923

Ion Ratio Lower Upper

75 100

53 0.2 82.6 124.0#

89 0.2 39.2 58.8#



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

