

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW021519\  
 Data File : VW008691.D  
 Acq On : 15 Feb 2019 18:12  
 Operator : SY/VA  
 Sample : K1515-02  
 Misc : 6.34G/5ML/MSVOA W/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Feb 16 00:35:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W021319S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 14 04:06:50 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 143044   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 205966   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 178310   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 80266    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 76931    | 51.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.46% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 63635    | 49.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.52%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 239582   | 48.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.20%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 81577    | 43.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.86%  |          |

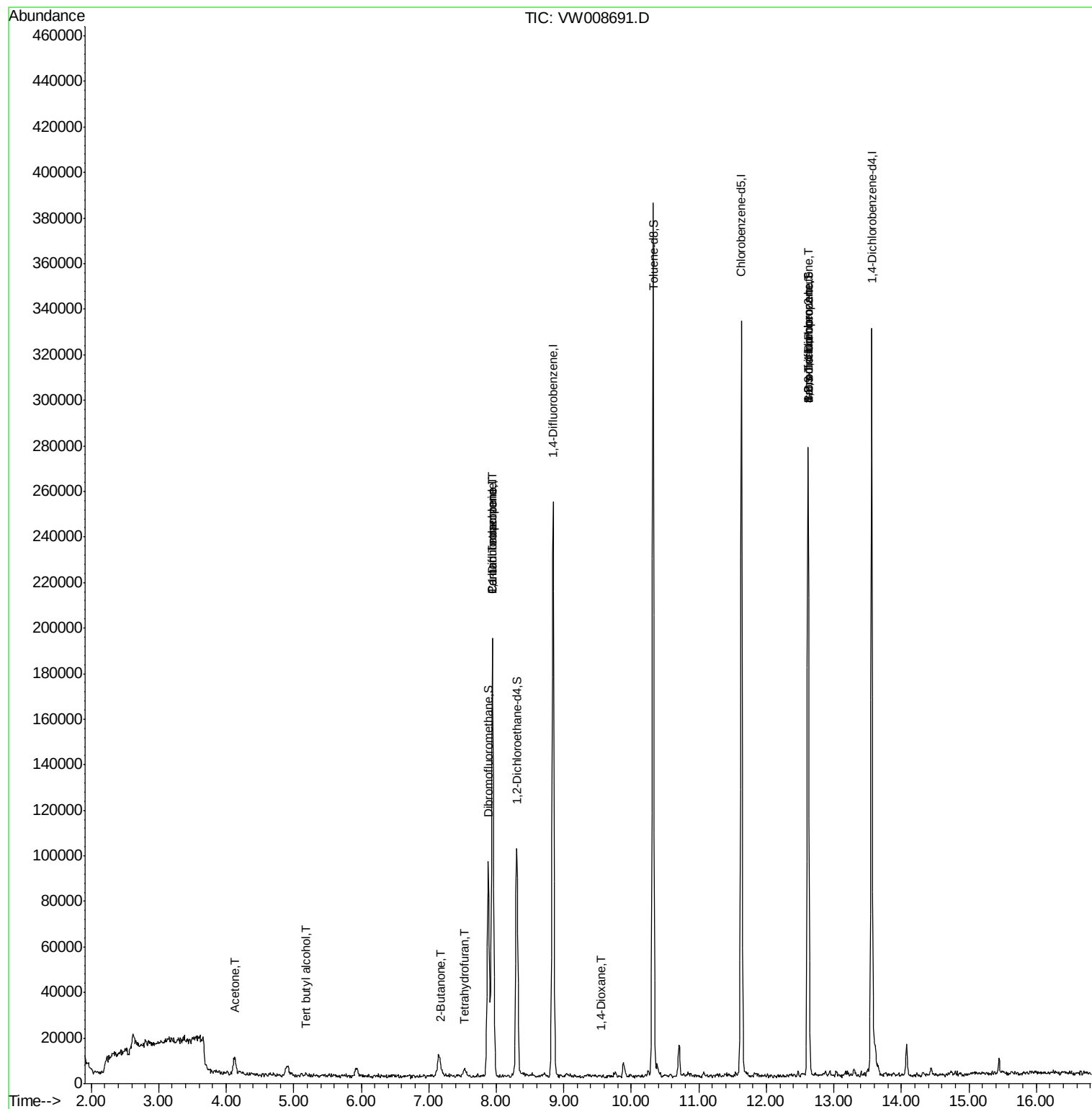
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.18  | 59   | 296      | 2.488     | ug/l # | 56     |
| 16) Acetone                    | 4.12  | 43   | 14712    | 43.474    | ug/l # | 87     |
| 20) Methylene Chloride         | 4.90  | 84   | 3411     | Below Cal | #      | 64     |
| 25) 2-Butanone                 | 7.18  | 43   | 5260     | 11.008    | ug/l # | 81     |
| 29) Tetrahydrofuran            | 7.53  | 42   | 2802     | 8.896     | ug/l # | 76     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 10952    | 5.293     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.94  | 117  | 13281    | 6.454     | ug/l # | 18     |
| 49) 1,4-Dioxane                | 9.55  | 88   | 19       | 1.545     | ug/l # | 1      |
| 71) Bromoform                  | 12.62 | 173  | 837      | 1.141     | ug/l # | 28     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 42516    | 53.642    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 42516    | 114.830   | ug/l # | 6      |

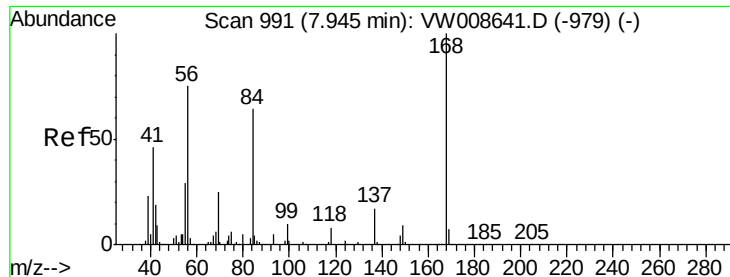
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Feb 14 04:06:50 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW008691.D

Acq: 15 Feb 2019 18:12

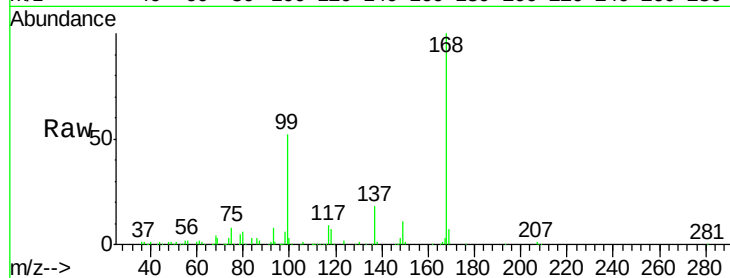
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:168 Resp: 143044

Ion Ratio Lower Upper

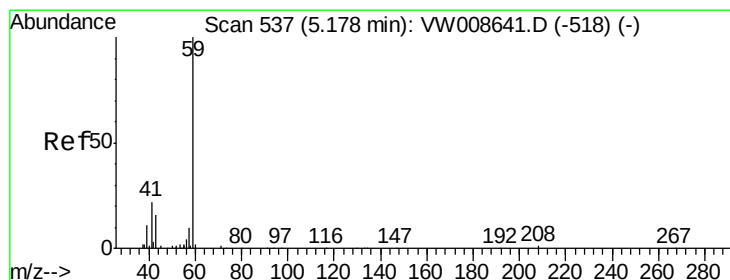
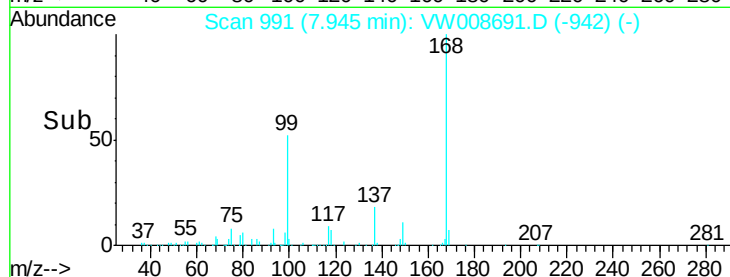
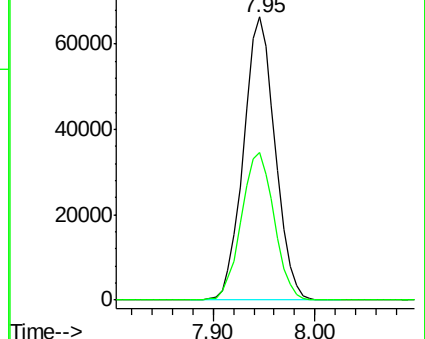
168 100

99 52.0 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 2.488 ug/l

RT: 5.18 min Scan# 537

Delta R.T. -0.00 min

Lab File: VW008691.D

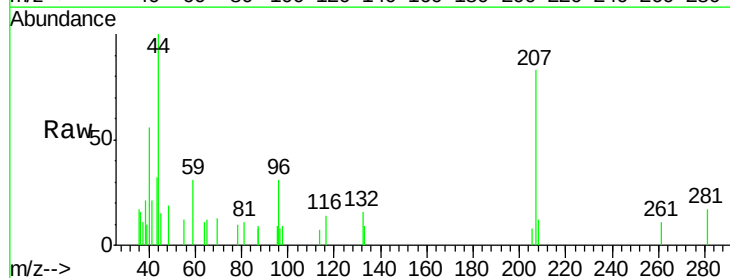
Acq: 15 Feb 2019 18:12

Tgt Ion: 59 Resp: 296

Ion Ratio Lower Upper

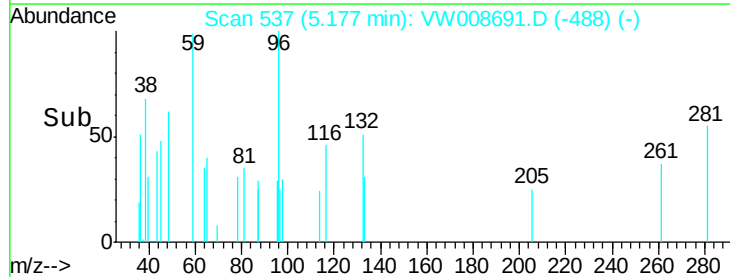
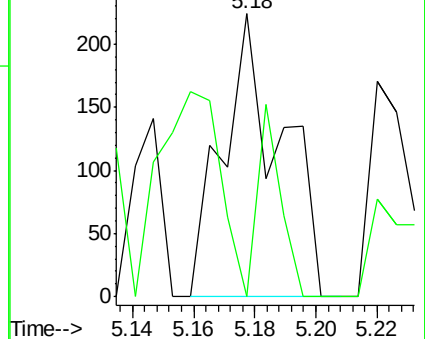
59 100

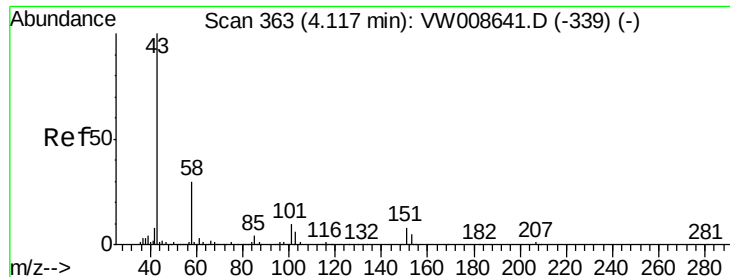
57 26.7 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

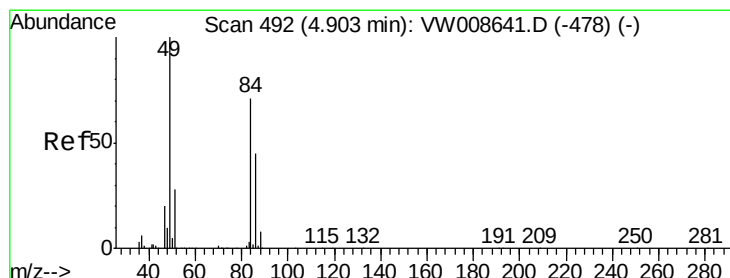
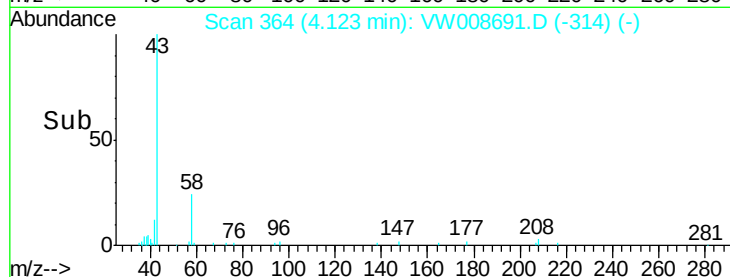
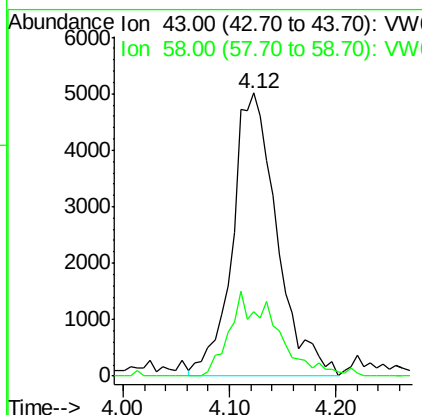
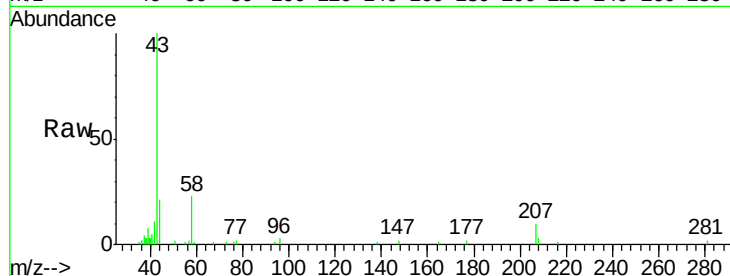




#16  
Acetone  
Concen: 43.474 ug/l  
RT: 4.12 min Scan# 364  
Delta R.T. 0.01 min  
Lab File: VW008691.D  
Acq: 15 Feb 2019 18:12

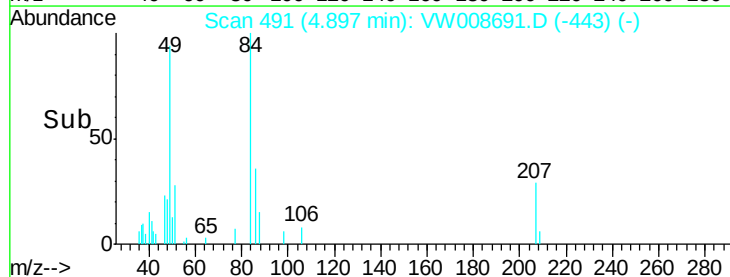
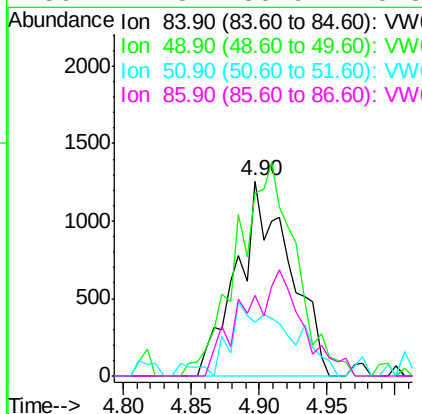
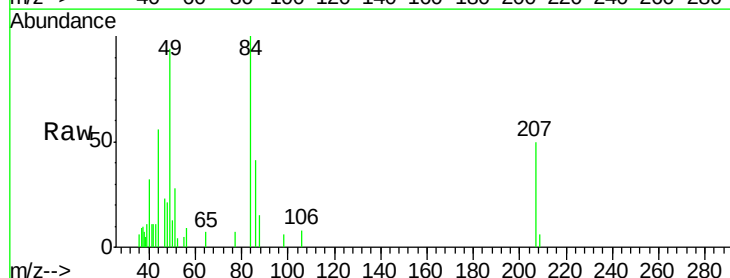
Instrument :  
MSVOA\_W  
ClientSampled :

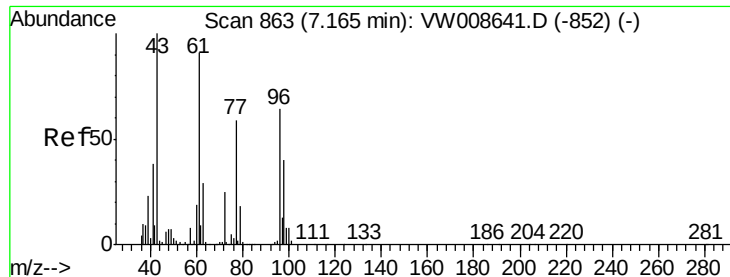
Tot Ion: 43 Resp: 14712  
Ion Ratio Lower Upper  
43 100  
58 23.0 24.1 36.1#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.90 min Scan# 491  
Delta R.T. -0.01 min  
Lab File: VW008691.D  
Acq: 15 Feb 2019 18:12

Tgt Ion: 84 Resp: 3411  
Ion Ratio Lower Upper  
84 100  
49 87.5 113.3 169.9#  
51 27.7 32.1 48.1#  
86 41.3 50.9 76.3#





#25

2-Butanone

Concen: 11.008 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.02 min

Lab File: VW008691.D

Acq: 15 Feb 2019 18:12

Instrument :

MSVOA\_W

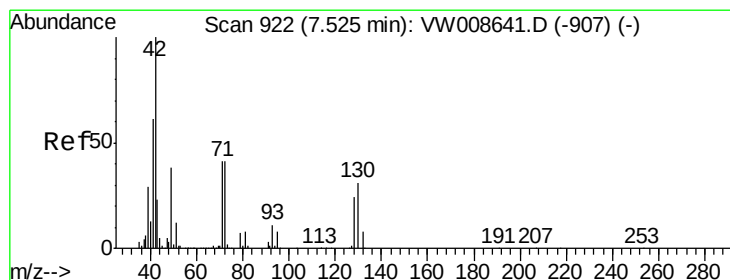
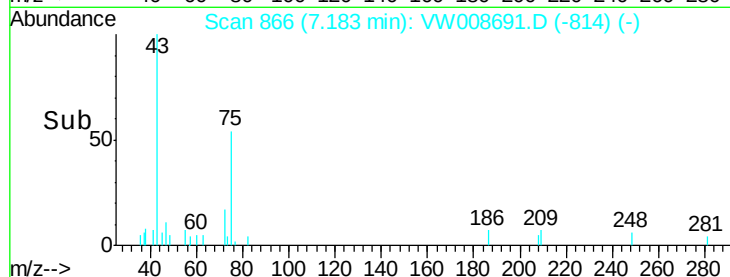
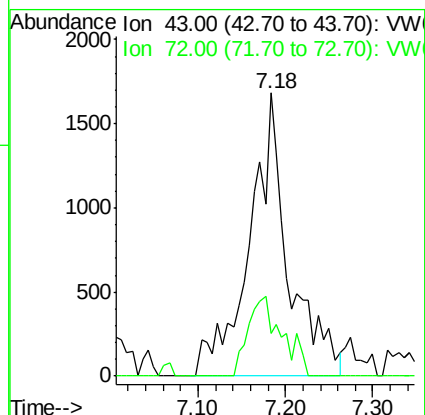
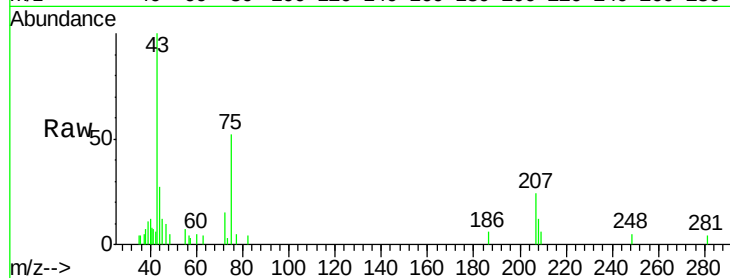
ClientSampled :

Tot Ion: 43 Resp: 5260

Ion Ratio Lower Upper

43 100

72 15.2 19.7 29.5#



#29

Tetrahydrofuran

Concen: 8.896 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.01 min

Lab File: VW008691.D

Acq: 15 Feb 2019 18:12

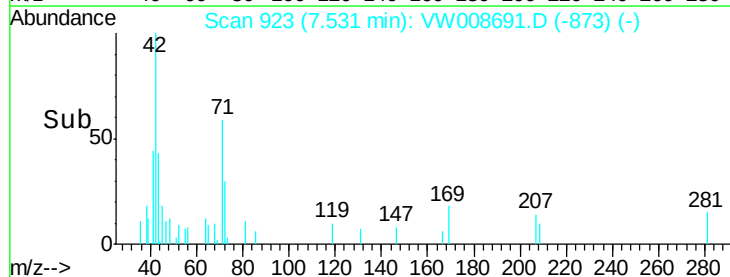
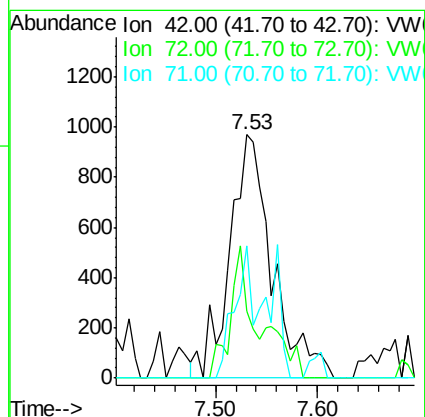
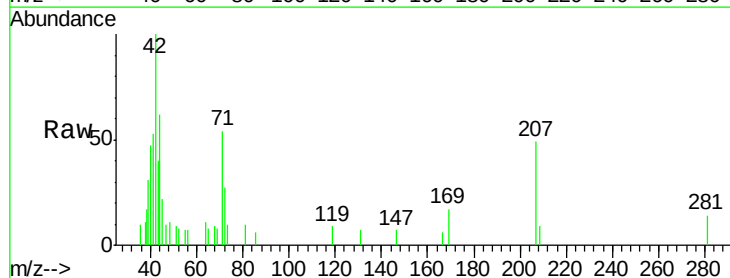
Tgt Ion: 42 Resp: 2802

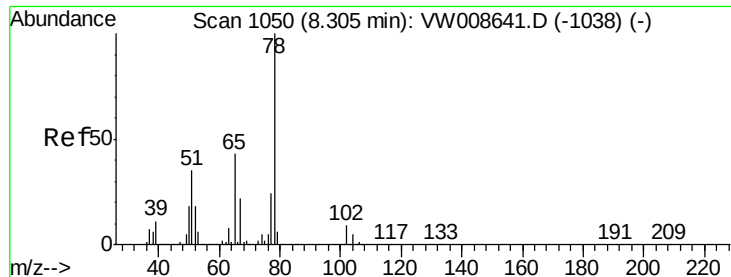
Ion Ratio Lower Upper

42 100

72 24.4 32.2 48.2#

71 25.3 31.0 46.6#

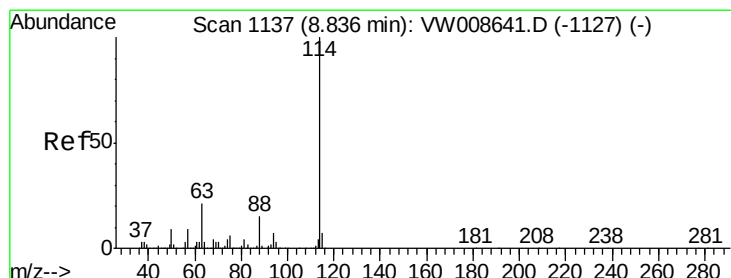
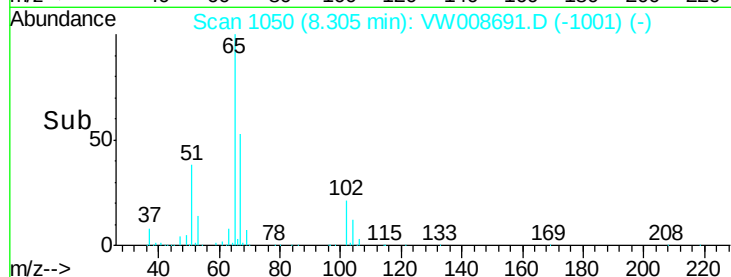
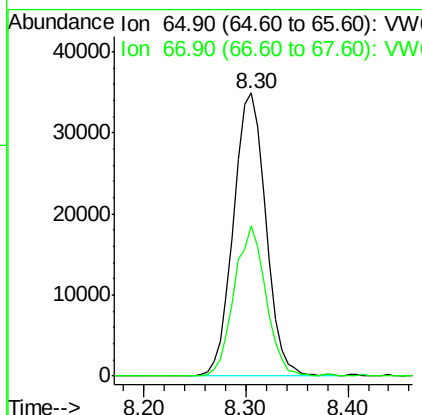
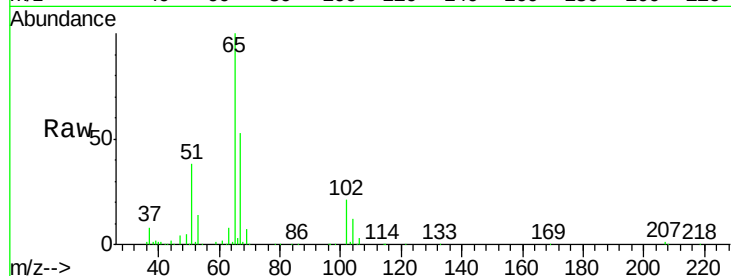




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.731 ug/l  
 RT: 8.30 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW008691.D  
 Acq: 15 Feb 2019 18:12

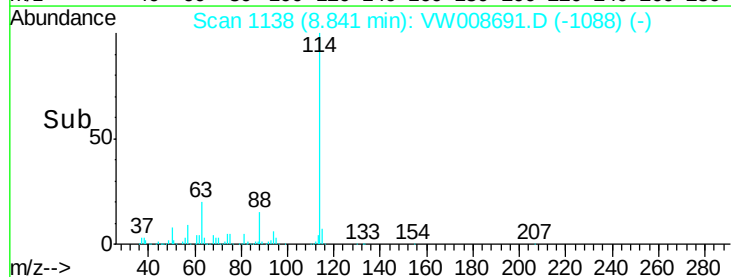
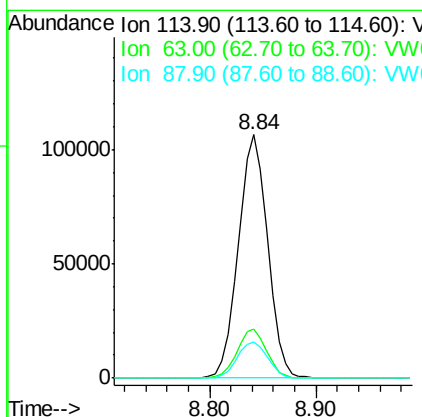
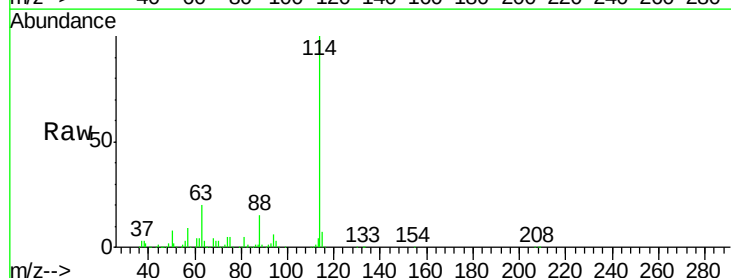
Instrument :  
 MSVOA\_W  
 ClientSampleId :

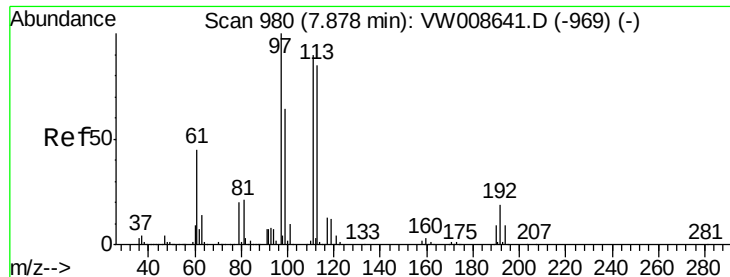
Tot Ion: 65 Resp: 76931  
 Ion Ratio Lower Upper  
 65 100  
 67 51.7 0.0 102.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.01 min  
 Lab File: VW008691.D  
 Acq: 15 Feb 2019 18:12

Tgt Ion: 114 Resp: 205966  
 Ion Ratio Lower Upper  
 114 100  
 63 20.1 0.0 41.2  
 88 14.8 0.0 29.6





#35

Dibromofluoromethane

Concen: 49.757 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW008691.D

Acq: 15 Feb 2019 18:12

Instrument :  
MSVOA\_W  
ClientSampleId :

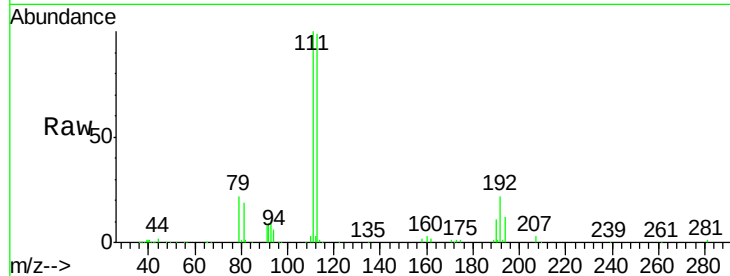
Tot Ion:113 Resp: 63635

Ion Ratio Lower Upper

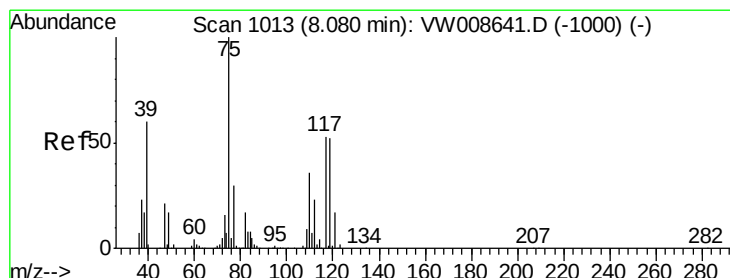
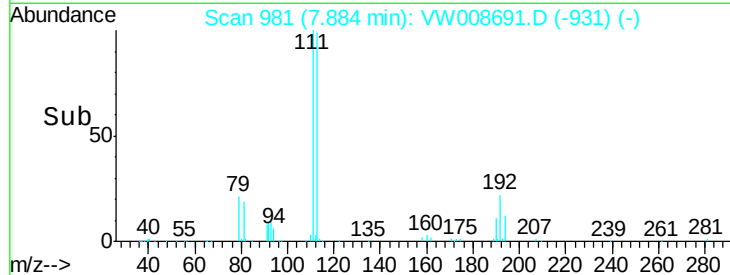
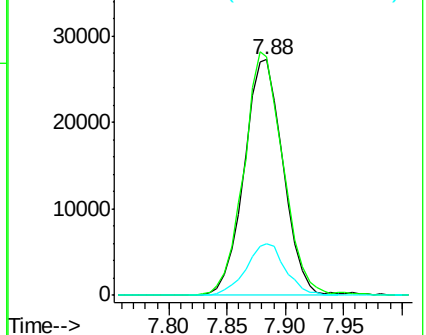
113 100

111 104.0 84.0 126.0

192 22.1 17.4 26.2



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: 5.293 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW008691.D

Acq: 15 Feb 2019 18:12

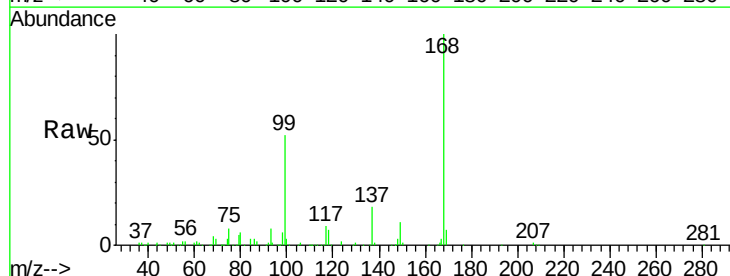
Tgt Ion: 75 Resp: 10952

Ion Ratio Lower Upper

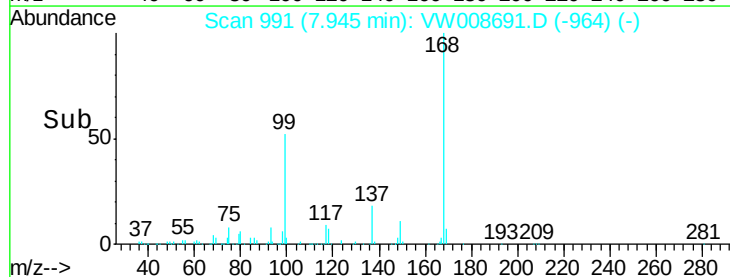
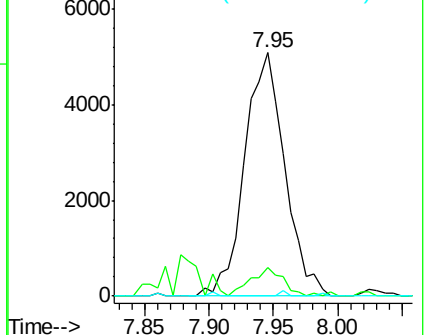
75 100

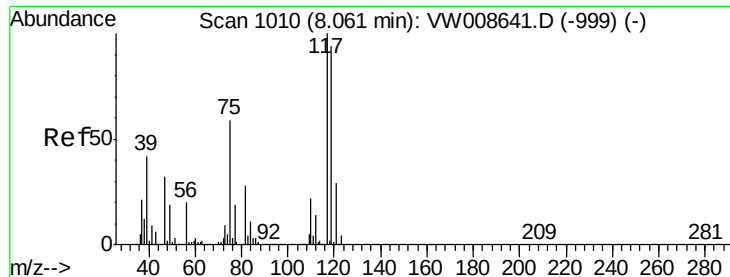
110 9.4 17.8 53.3#

77 0.3 24.7 37.1#



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: 6.454 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.12 min

Lab File: VW008691.D

Acq: 15 Feb 2019 18:12

Instrument :

MSVOA\_W

ClientSampleId :

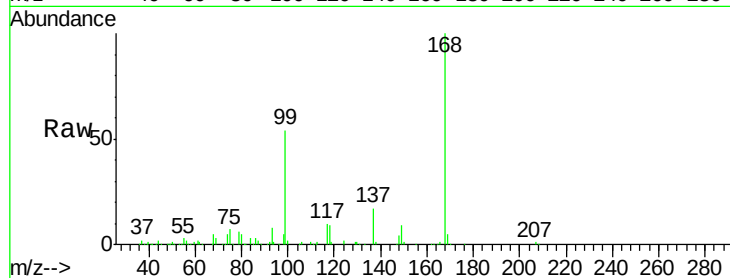
Tot Ion:117 Resp: 13281

Ion Ratio Lower Upper

117 100

119 6.2 75.1 112.7#

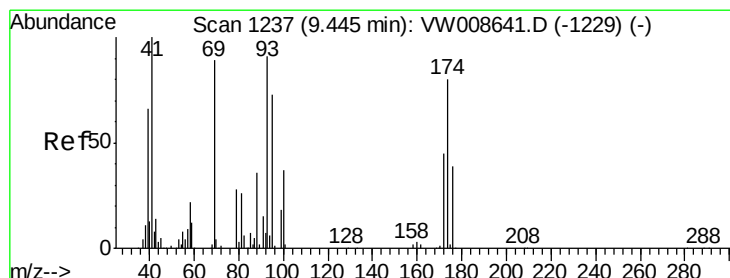
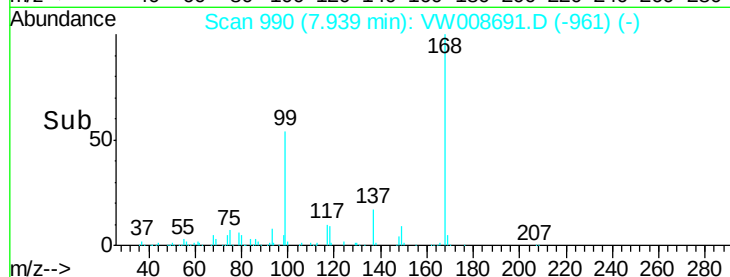
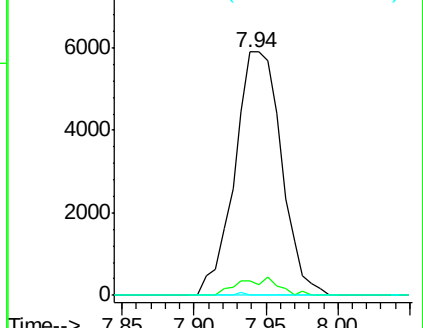
121 0.0 23.5 35.3#



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: 1.545 ug/l

RT: 9.55 min Scan# 1254

Delta R.T. 0.10 min

Lab File: VW008691.D

Acq: 15 Feb 2019 18:12

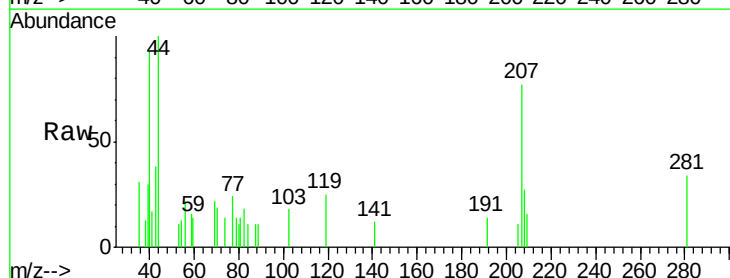
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 31.0 46.6#

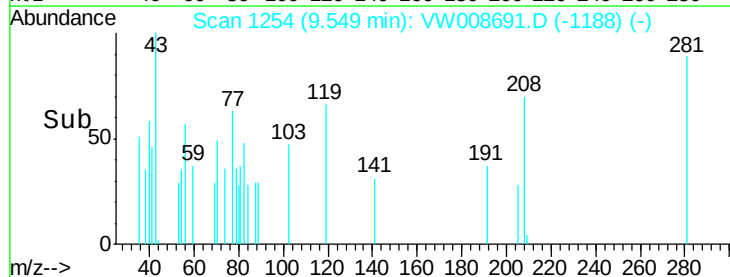
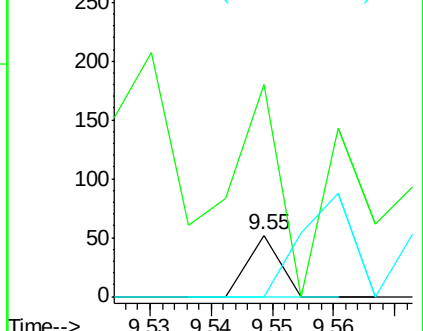
58 378.9 57.0 85.6#



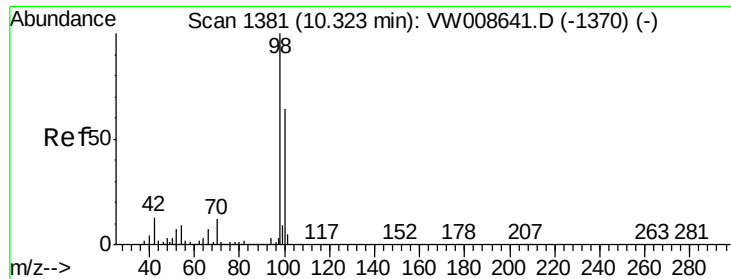
Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW







#50

Toluene-d8

Concen: 48.596 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008691.D

Acq: 15 Feb 2019 18:12

Instrument :

MSVOA\_W

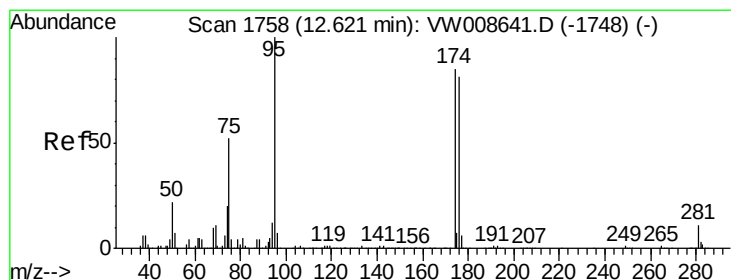
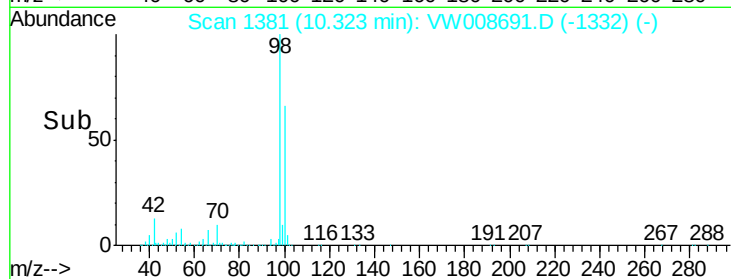
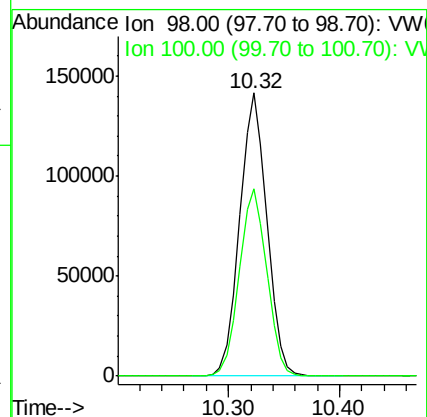
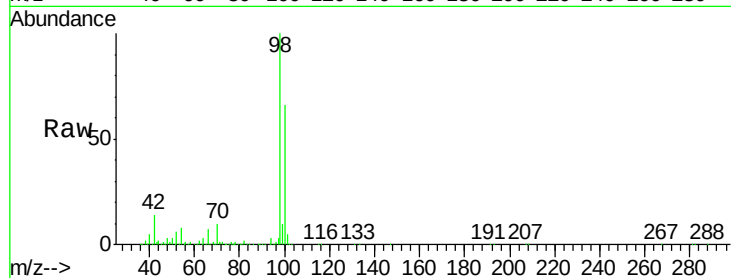
ClientSampled :

Tot Ion: 98 Resp: 239582

Ion Ratio Lower Upper

98 100

100 67.1 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 43.930 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008691.D

Acq: 15 Feb 2019 18:12

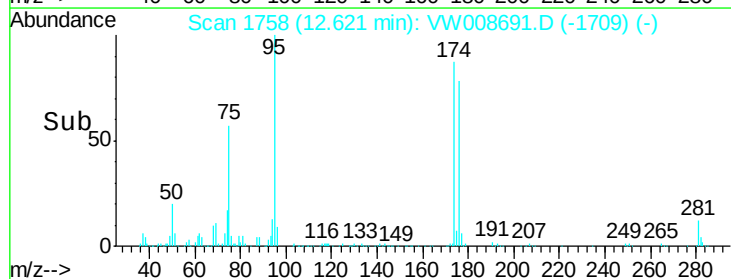
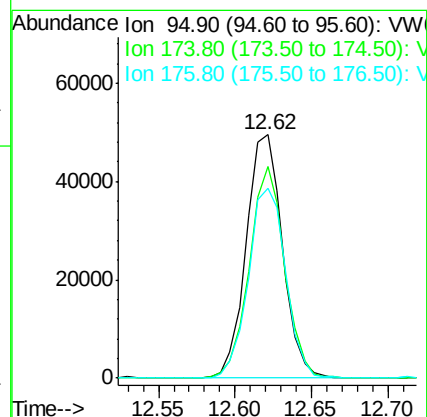
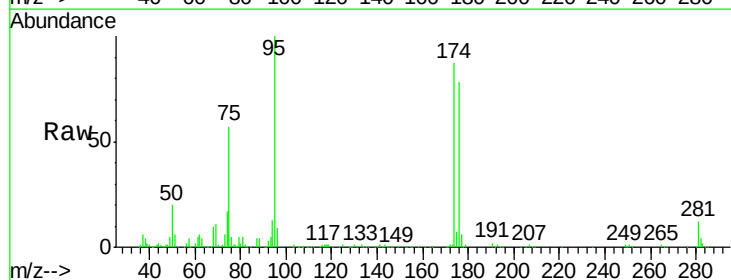
Tgt Ion: 95 Resp: 81577

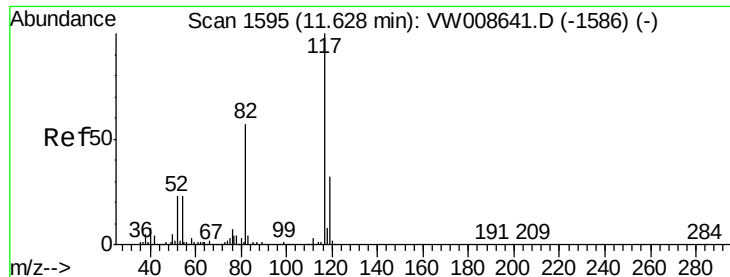
Ion Ratio Lower Upper

95 100

174 84.3 0.0 163.2

176 80.2 0.0 158.0

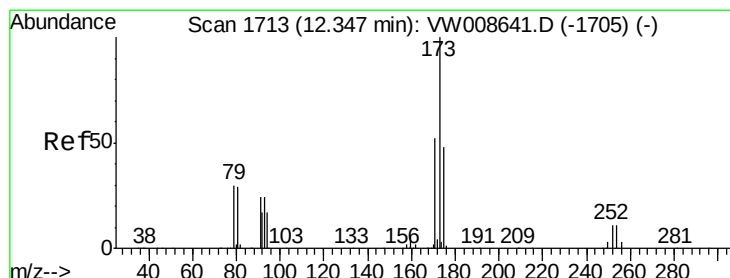
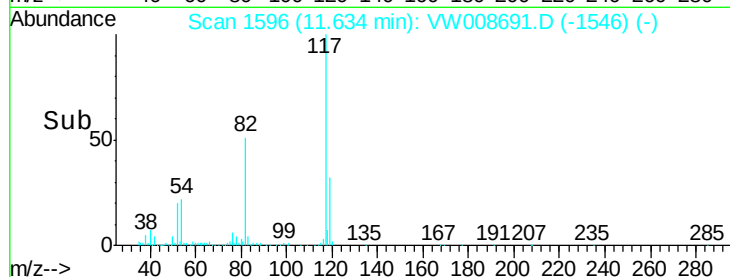
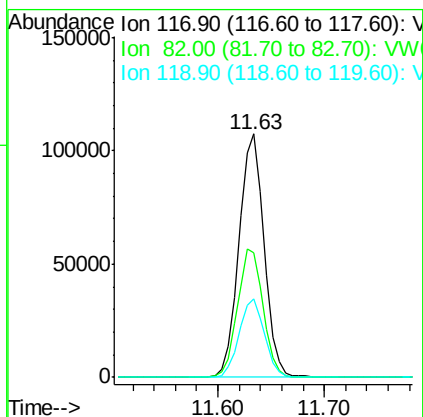
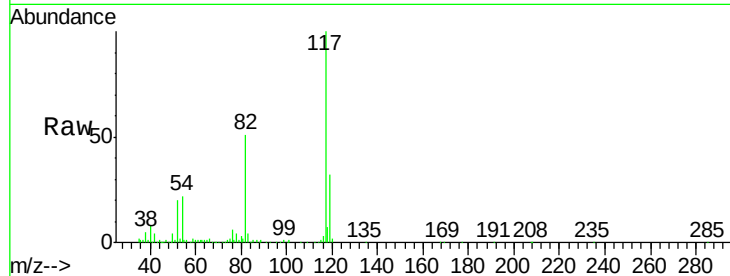




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.01 min  
Lab File: VW008691.D  
Acq: 15 Feb 2019 18:12

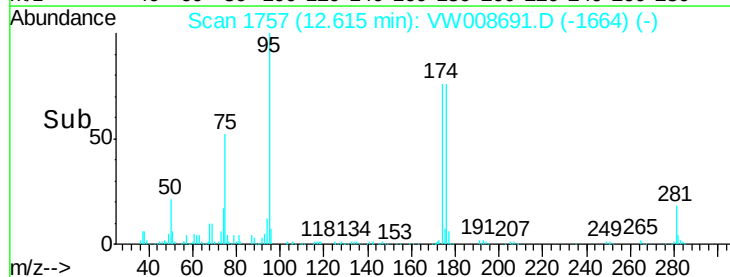
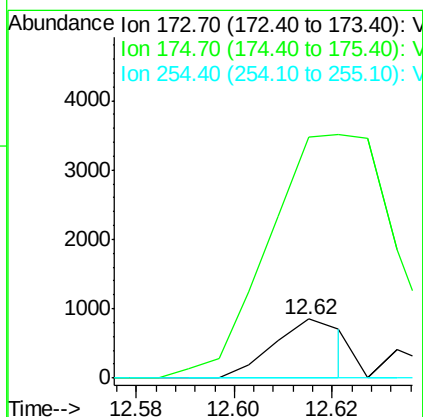
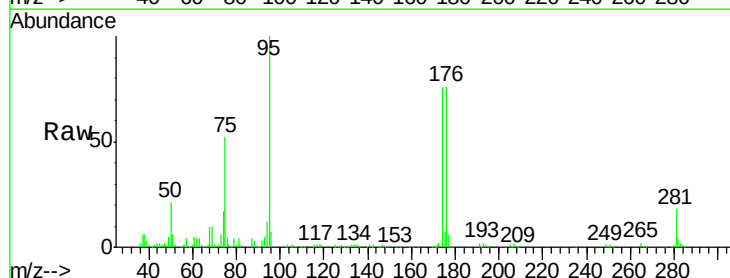
Instrument :  
MSVOA\_W  
ClientSampled :

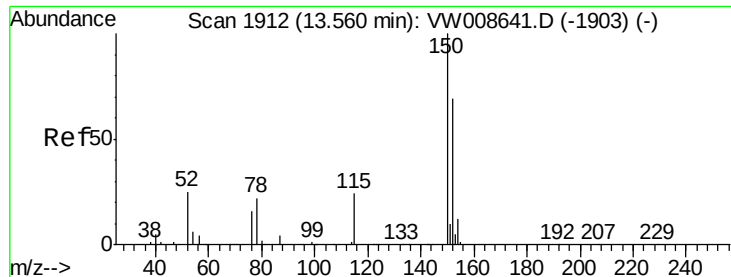
Tot Ion:117 Resp: 178310  
Ion Ratio Lower Upper  
117 100  
82 51.3 45.6 68.4  
119 32.2 25.7 38.5



#71  
Bromoform  
Concen: 1.141 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. 0.27 min  
Lab File: VW008691.D  
Acq: 15 Feb 2019 18:12

Tgt Ion:173 Resp: 837  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.9 74.7#  
254 0.0 0.1 0.1#



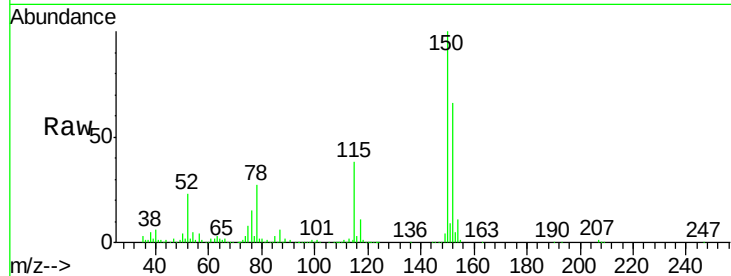


#72

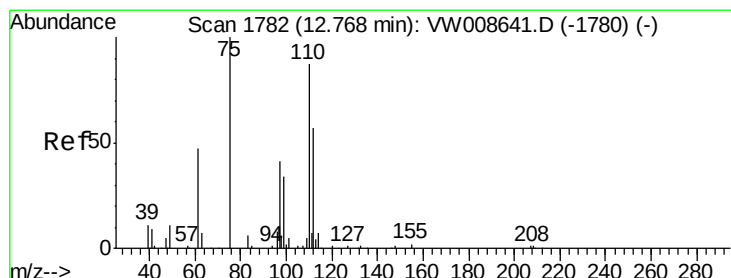
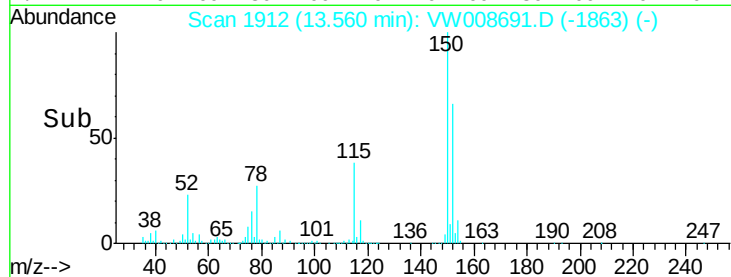
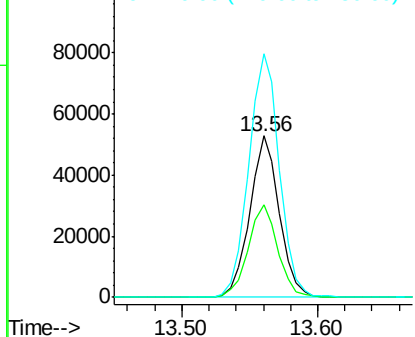
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW008691.D  
Acq: 15 Feb 2019 18:12

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:152 Resp: 80266  
Ion Ratio Lower Upper  
152 100  
115 57.5 29.3 87.8  
150 157.0 0.0 352.8



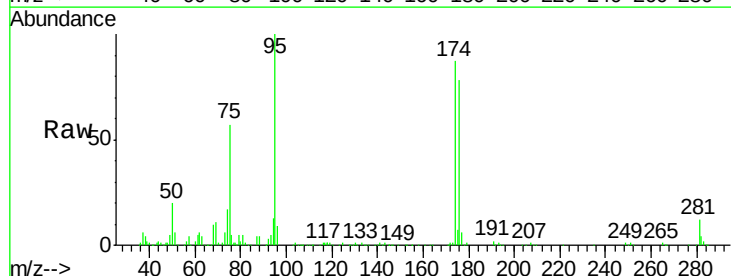
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



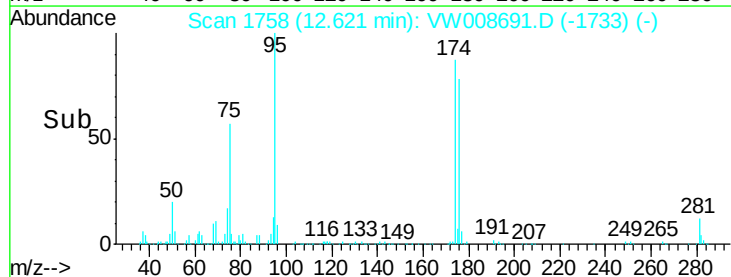
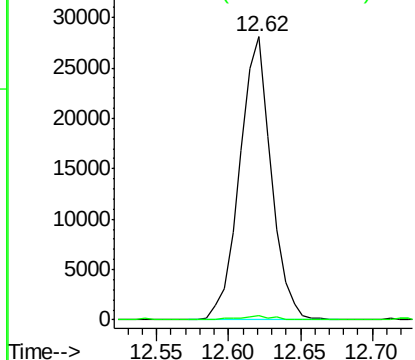
#76

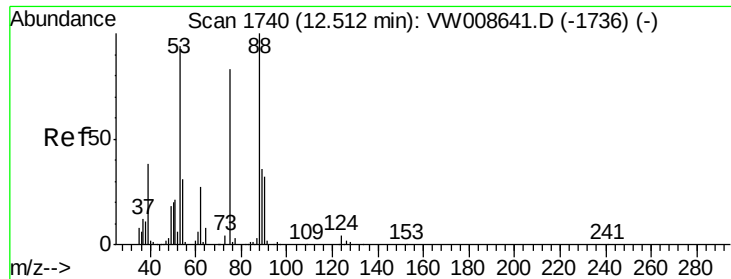
1,2,3-Trichloropropane  
Concen: 53.642 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. -0.15 min  
Lab File: VW008691.D  
Acq: 15 Feb 2019 18:12

Tgt Ion: 75 Resp: 42516  
Ion Ratio Lower Upper  
75 100  
77 1.6 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: 114.830 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008691.D

Acq: 15 Feb 2019 18:12

Instrument :

MSVOA\_W

ClientSampleId :

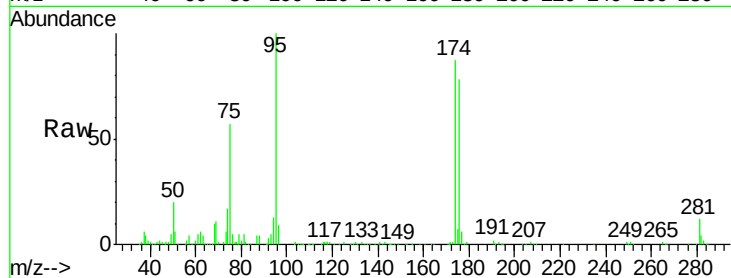
Tot Ion: 75 Resp: 42516

Ion Ratio Lower Upper

75 100

53 0.0 87.4 131.0#

89 0.1 37.0 55.4#



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

