

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062919\  
 Data File : VW011055.D  
 Acq On : 28 Jun 2019 12:33  
 Operator : SY/VA  
 Sample : K3552-04RE  
 Misc : 5.01G/5ML/MSVOA W/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 M-2ARE

Quant Time: Jun 29 01:49:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W062819S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 28 01:55:46 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 91190    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 149465   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 128423   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 54011    | 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   | 58939    | 49.44 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.88% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 44782    | 49.07 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.14% |          |
| 50) Toluene-d8              | 10.32 | 98   | 185719   | 49.43 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.86% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 59380    | 43.21 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.42% |          |

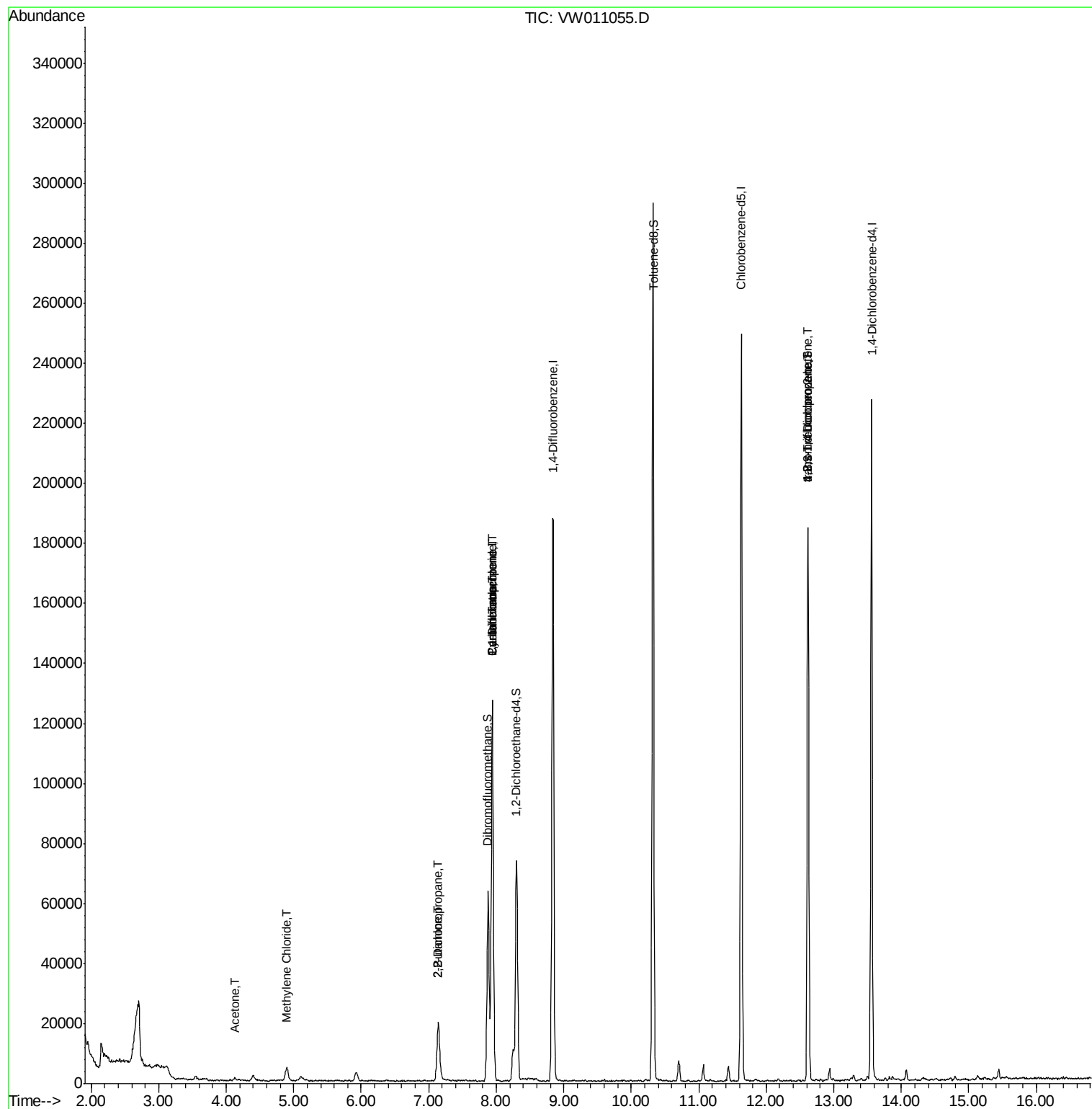
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                    | 4.12  | 43   | 2049     | 7.042   | ug/l   | 98     |
| 20) Methylene Chloride         | 4.90  | 84   | 2620     | 2.216   | ug/l   | 84     |
| 25) 2-Butanone                 | 7.14  | 43   | 1792     | 4.051   | ug/l # | 78     |
| 26) 2,2-Dichloropropane        | 7.15  | 77   | 1321     | 1.206   | ug/l # | 54     |
| 31) Cyclohexane                | 7.94  | 56   | 2596     | 1.138   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 8657     | 5.389   | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.94  | 117  | 9554     | 7.222   | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 33408    | 58.588  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 33408    | 118.535 | ug/l # | 3      |

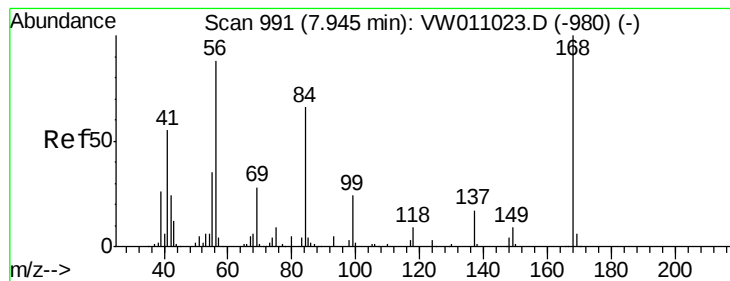
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Jun 28 01:55:46 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: VW011055.D

Acq: 28 Jun 2019 12:33

Instrument :

MSVOA\_W

ClientSampleId :

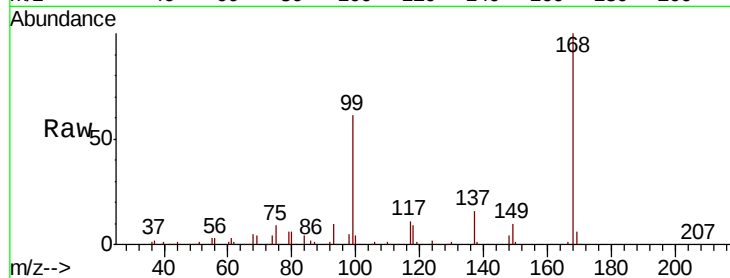
M-2ARE

Tot Ion:168 Resp: 91190

Ion Ratio Lower Upper

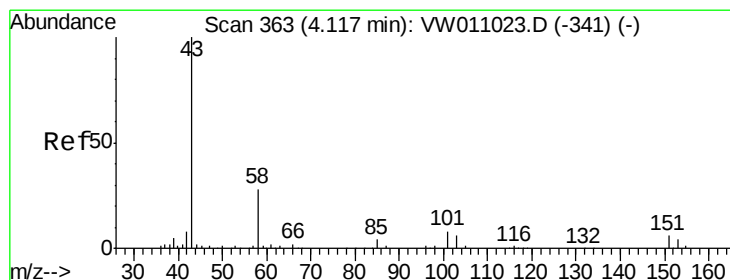
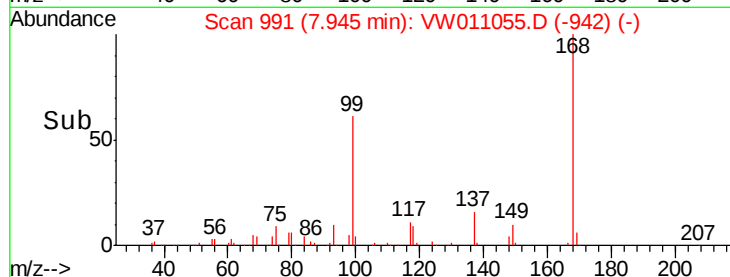
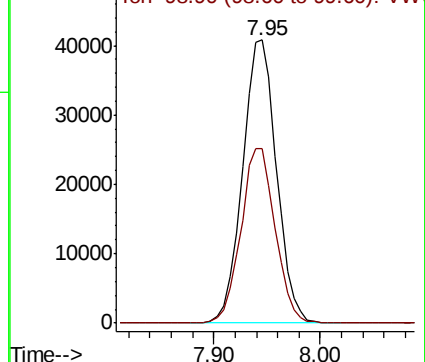
168 100

99 61.5 47.8 71.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 7.042 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW011055.D

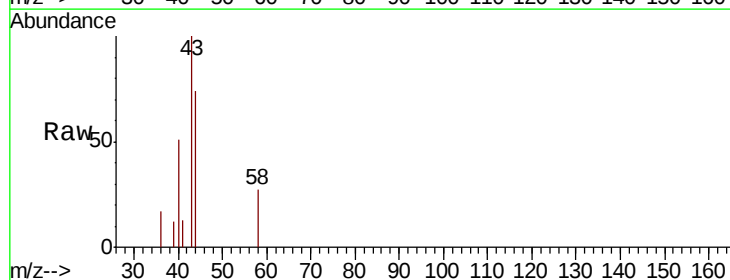
Acq: 28 Jun 2019 12:33

Tgt Ion: 43 Resp: 2049

Ion Ratio Lower Upper

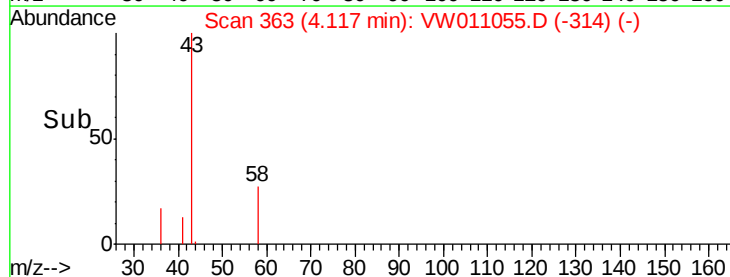
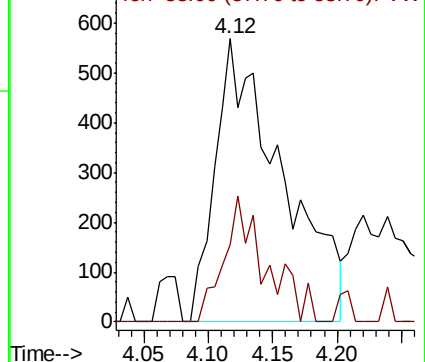
43 100

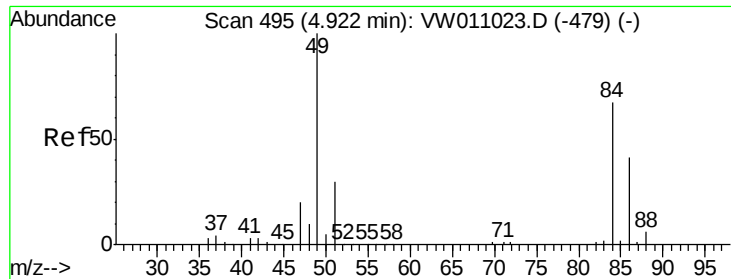
58 27.1 22.5 33.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

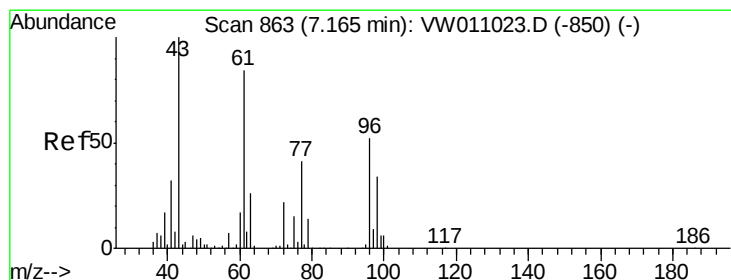
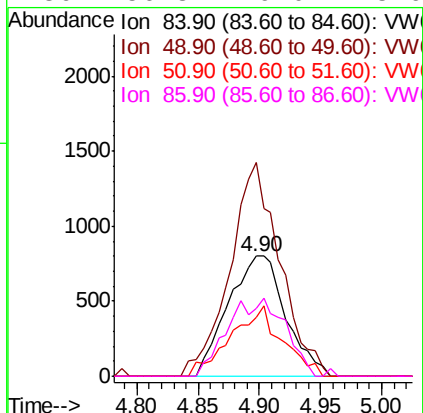
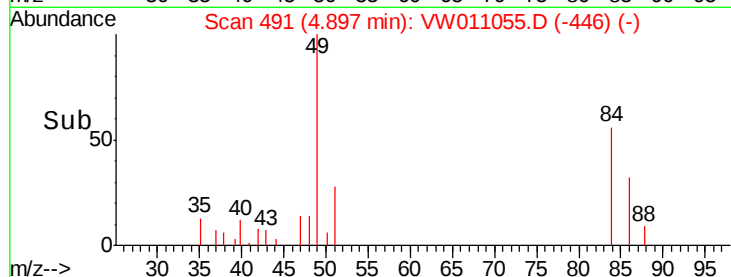
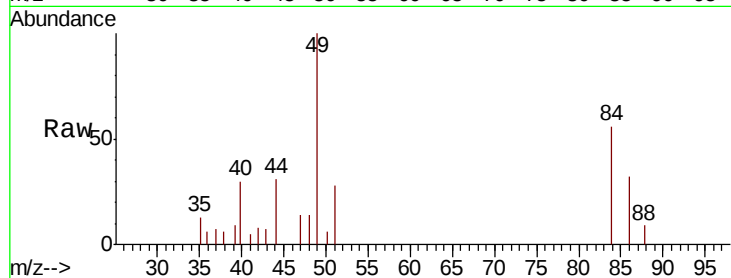




#20  
Methvlene Chloride  
Concen: 2.216 ug/l  
RT: 4.90 min Scan# 491  
Delta R.T. -0.02 min  
Lab File: VW011055.D  
Acq: 28 Jun 2019 12:33

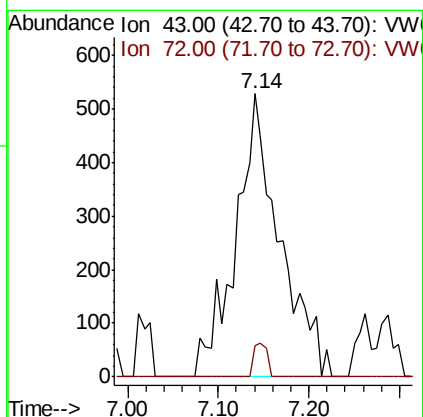
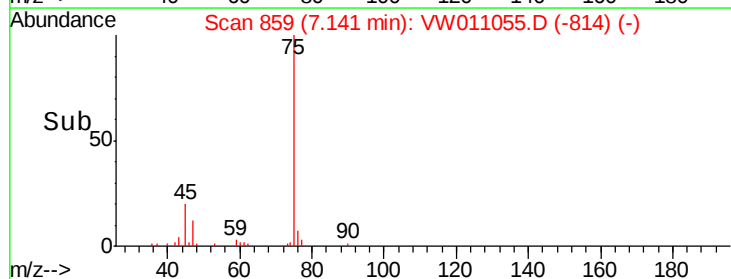
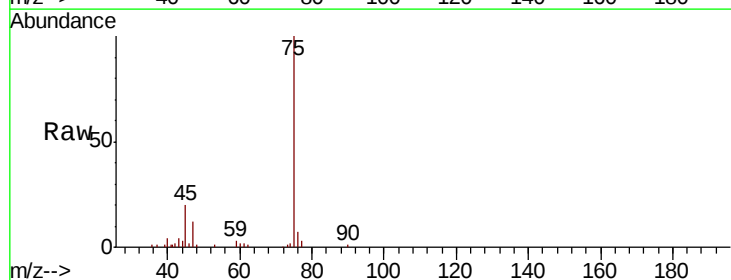
Instrument :  
MSVOA\_W  
ClientSampleId :  
M-2ARE

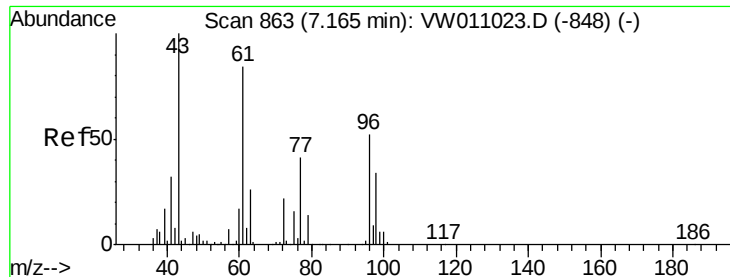
Tot Ion: 84 Resp: 2620  
Ion Ratio Lower Upper  
84 100  
49 178.2 119.6 179.4  
51 49.6 35.6 53.4  
86 56.3 49.0 73.6



#25  
2-Butanone  
Concen: 4.051 ug/l  
RT: 7.14 min Scan# 859  
Delta R.T. -0.02 min  
Lab File: VW011055.D  
Acq: 28 Jun 2019 12:33

Tgt Ion: 43 Resp: 1792  
Ion Ratio Lower Upper  
43 100  
72 11.2 17.2 25.8#





#26

2,2-Dichloropropane

Concen: 1.206 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW011055.D

Acq: 28 Jun 2019 12:33

Instrument :

MSVOA\_W

ClientSampleId :

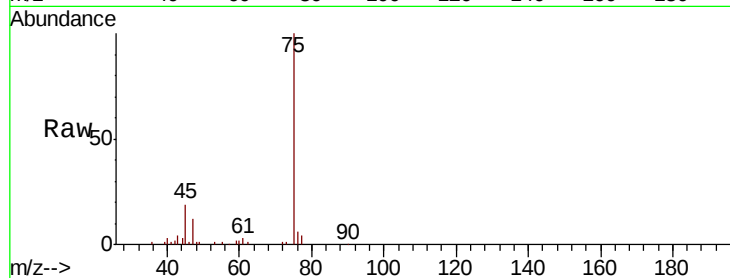
M-2ARE

Tot Ion: 77 Resp: 1321

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.7#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

7.15

400

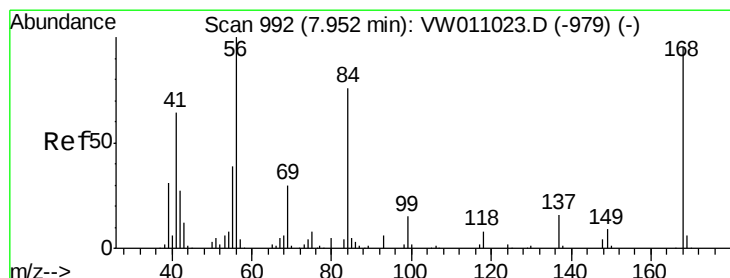
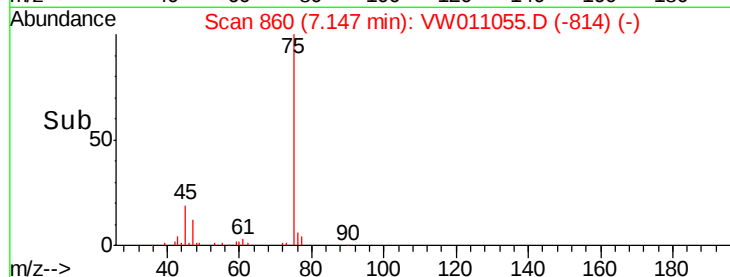
300

200

100

0

Time-->



#31

Cyclohexane

Concen: 1.138 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW011055.D

Acq: 28 Jun 2019 12:33

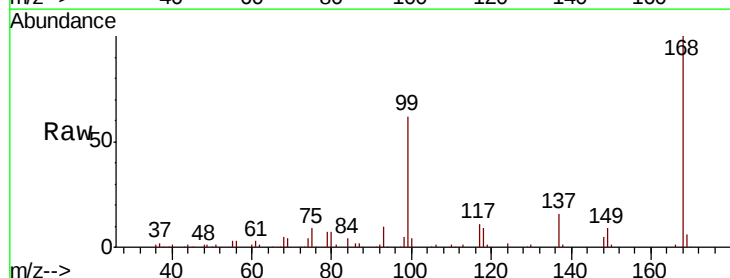
Tgt Ion: 56 Resp: 2596

Ion Ratio Lower Upper

56 100

69 133.3 24.2 36.2#

84 132.9 60.6 90.8#



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

2500

2000

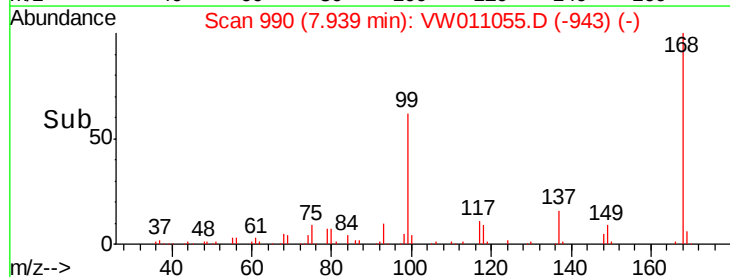
1500

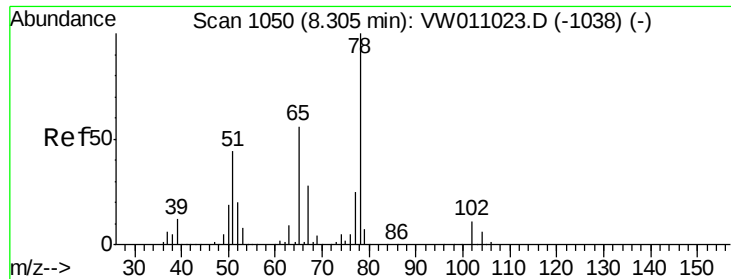
1000

500

0

Time-->

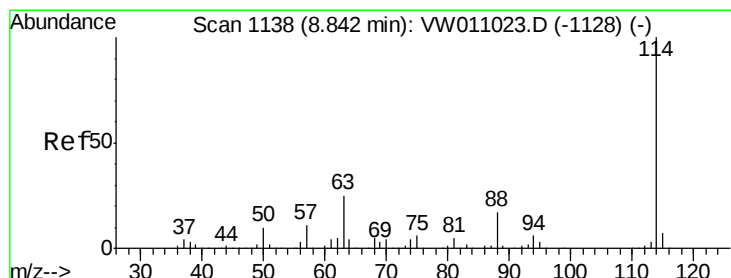
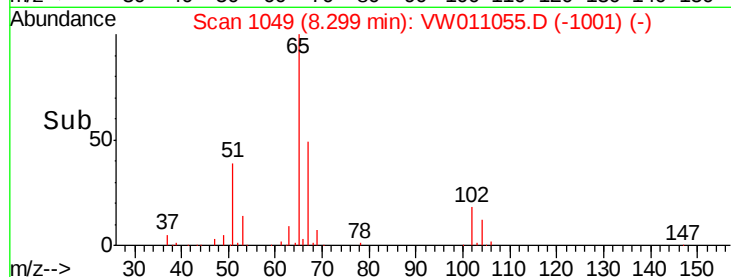
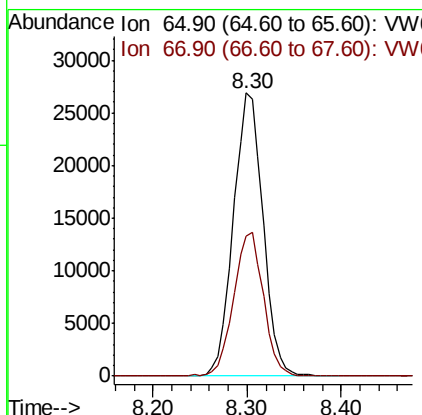
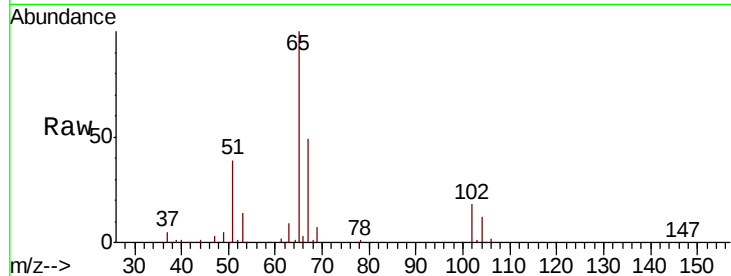




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.441 ug/l  
 RT: 8.30 min Scan# 1049  
 Delta R.T. -0.01 min  
 Lab File: VW011055.D  
 Acq: 28 Jun 2019 12:33

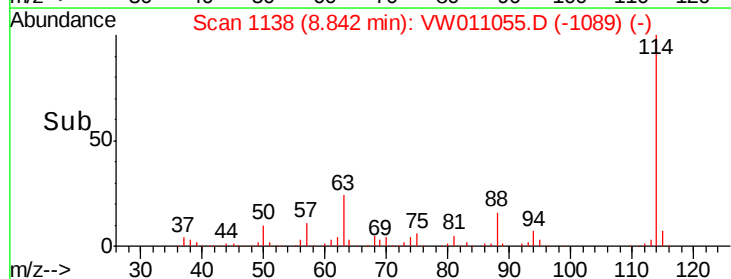
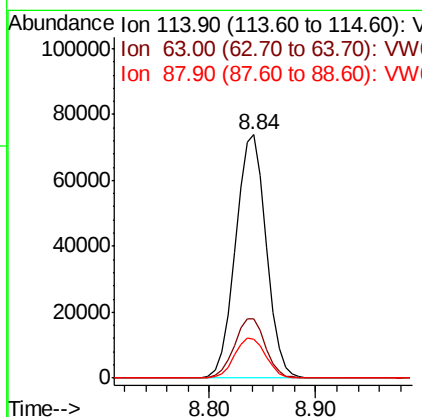
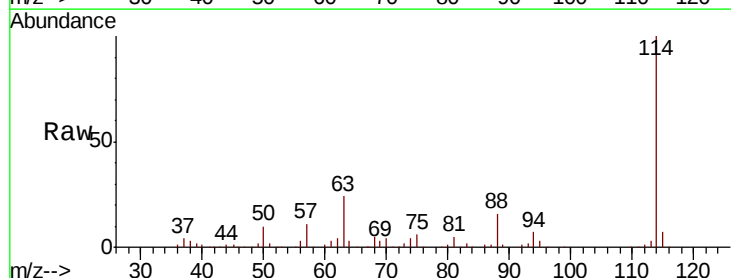
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 M-2ARE

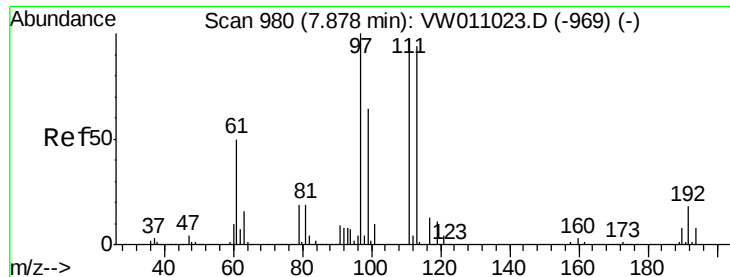
Tot Ion: 65 Resp: 58939  
 Ion Ratio Lower Upper  
 65 100  
 67 51.2 0.0 102.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW011055.D  
 Acq: 28 Jun 2019 12:33

Tgt Ion: 114 Resp: 149465  
 Ion Ratio Lower Upper  
 114 100  
 63 24.4 0.0 50.6  
 88 16.0 0.0 34.0

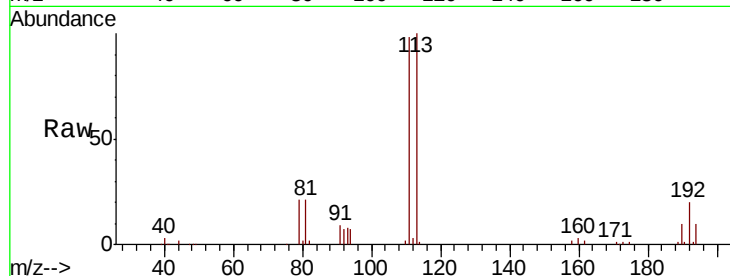




#35  
 Dibromofluoromethane  
 Concen: 49.066 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. -0.00 min  
 Lab File: VW011055.D  
 Acq: 28 Jun 2019 12:33

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 M-2ARE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 100.9 | 83.8  | 125.6 |
| 192     | 19.2  | 16.0  | 24.0  |

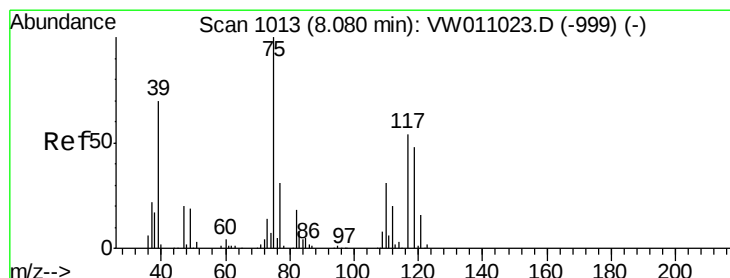
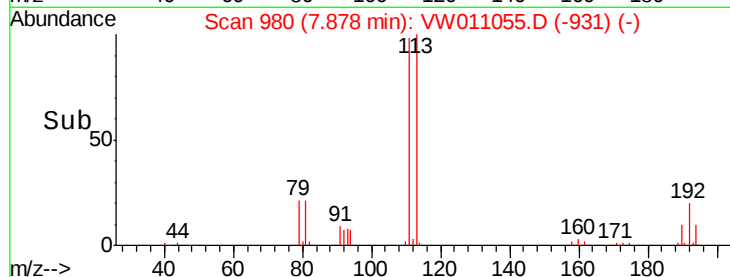
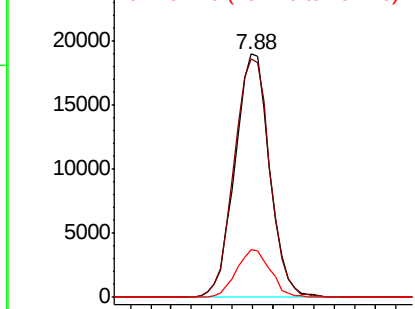


Abundance

Ion 112.80 (112.50 to 113.50): V

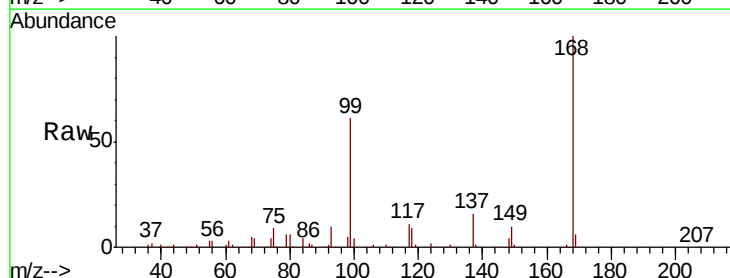
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36  
 1,1-Dichloropropene  
 Concen: 5.389 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW011055.D  
 Acq: 28 Jun 2019 12:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.3   | 15.5  | 46.5# |
| 77      | 0.0   | 24.9  | 37.3# |

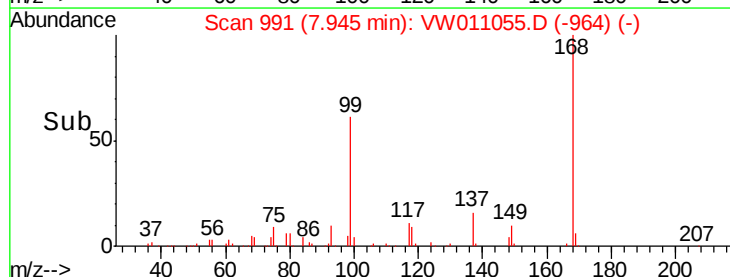
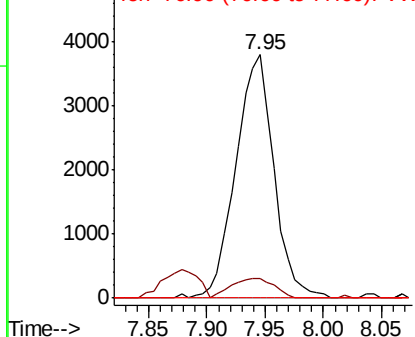


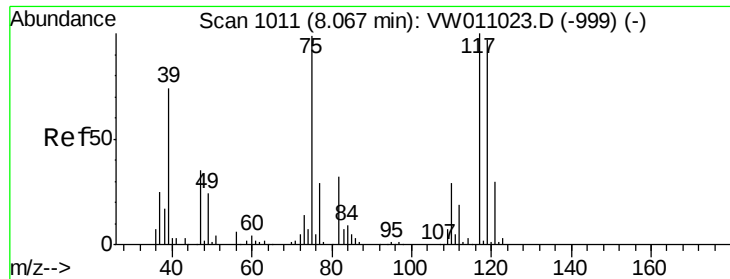
Abundance

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: 7.222 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW011055.D

Acq: 28 Jun 2019 12:33

Instrument :

MSVOA\_W

ClientSampleId :

M-2ARE

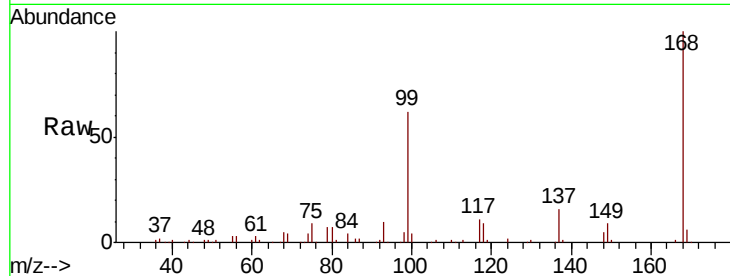
Tot Ion:117 Resp: 9554

Ion Ratio Lower Upper

117 100

119 5.2 77.7 116.5#

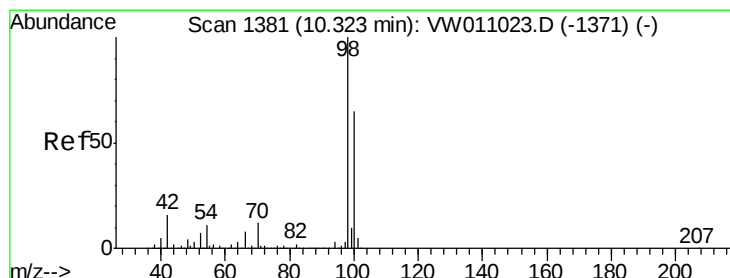
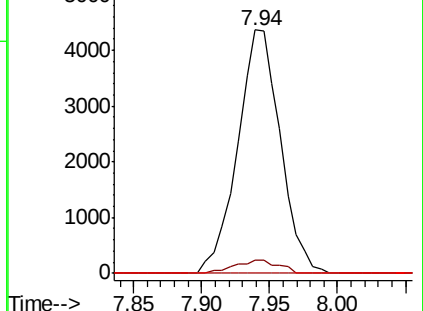
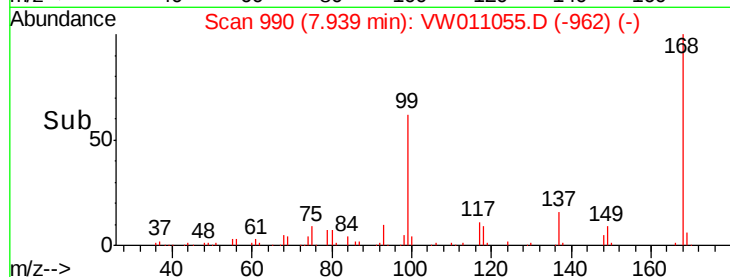
121 0.0 23.9 35.9#



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: 49.434 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW011055.D

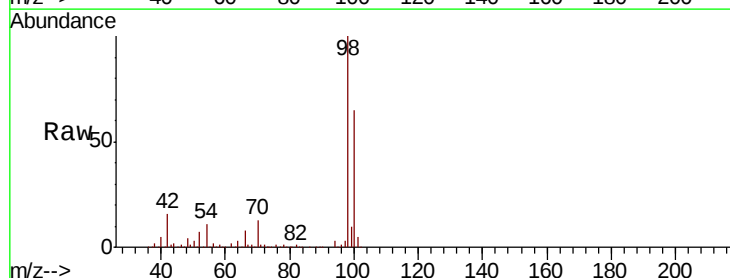
Acq: 28 Jun 2019 12:33

Tgt Ion: 98 Resp: 185719

Ion Ratio Lower Upper

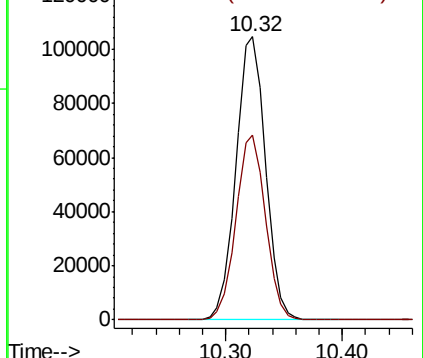
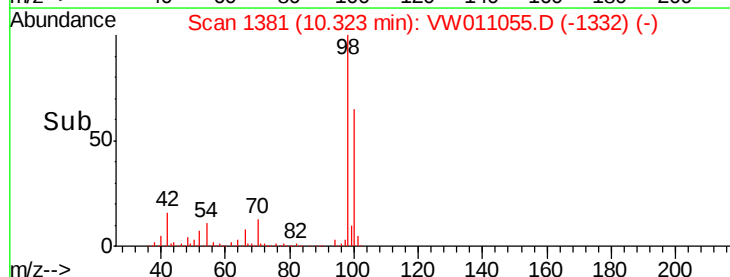
98 100

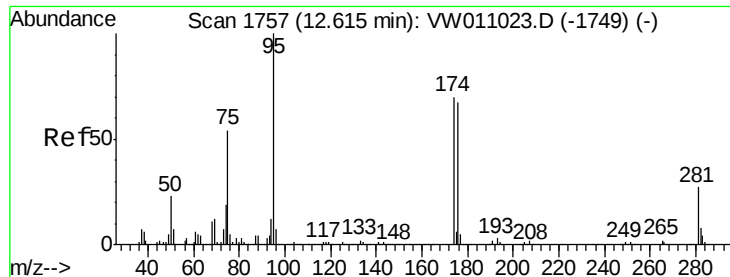
100 65.1 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 43.214 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW011055.D

Acq: 28 Jun 2019 12:33

Instrument :

MSVOA\_W

ClientSampleId :

M-2ARE

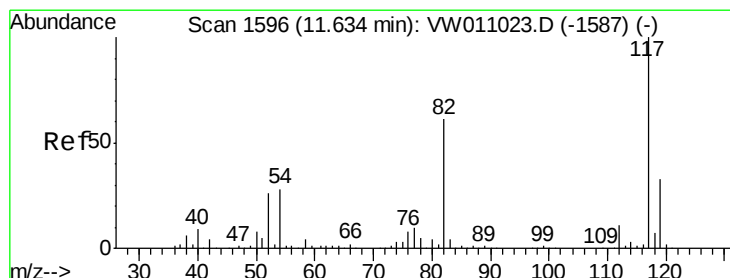
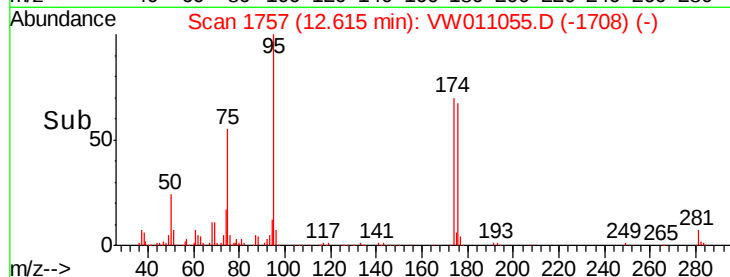
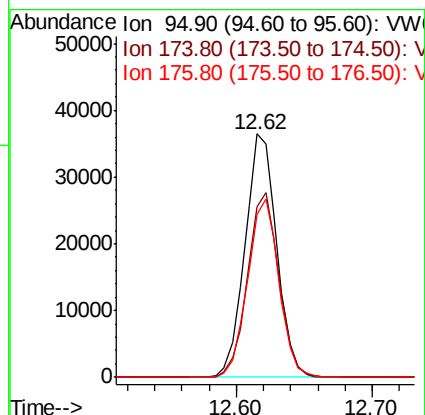
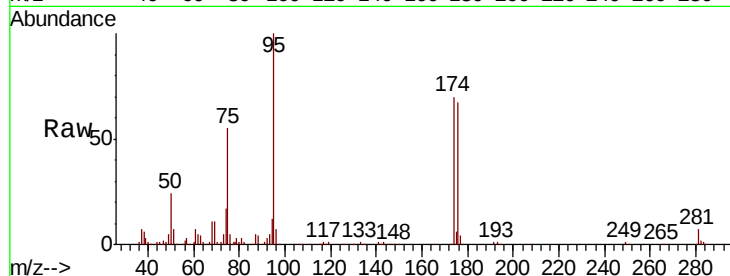
Tot Ion: 95 Resp: 59380

Ion Ratio Lower Upper

95 100

174 75.1 0.0 149.2

176 72.4 0.0 143.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VW011055.D

Acq: 28 Jun 2019 12:33

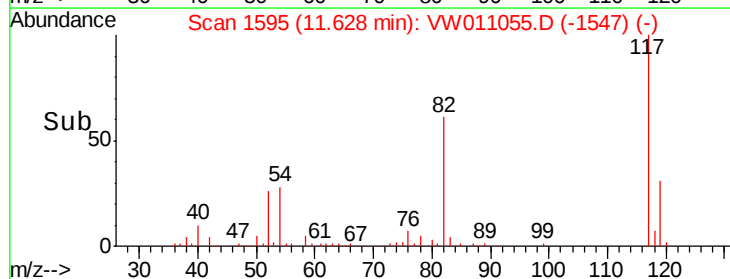
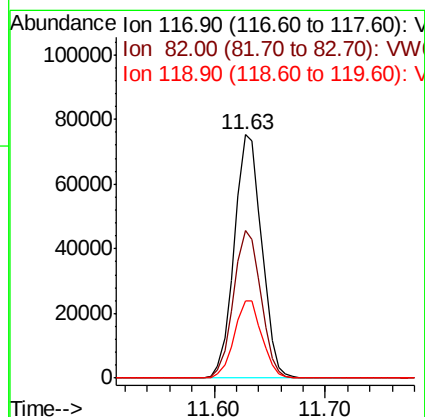
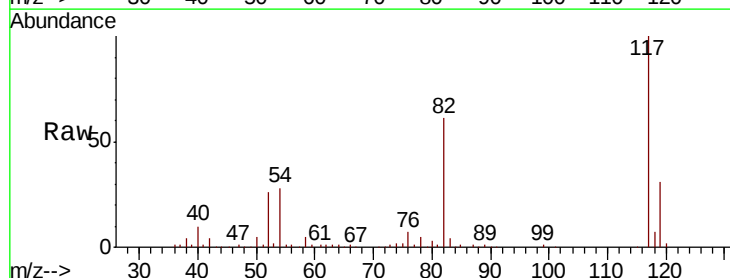
Tgt Ion: 117 Resp: 128423

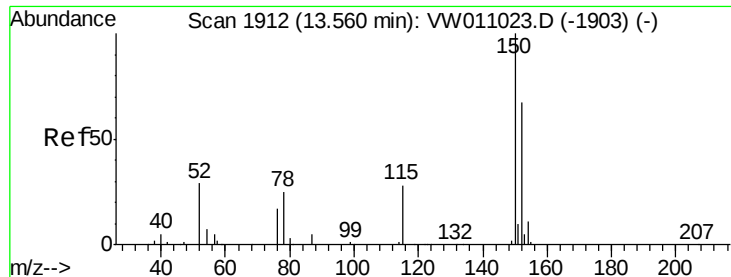
Ion Ratio Lower Upper

117 100

82 60.7 48.6 73.0

119 31.5 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW011055.D

Acq: 28 Jun 2019 12:33

Instrument :

MSVOA\_W

ClientSampleId :

M-2ARE

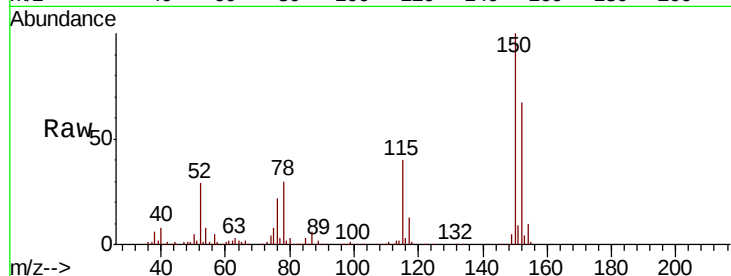
Tot Ion:152 Resp: 54011

Ion Ratio Lower Upper

152 100

115 60.2 30.7 92.1

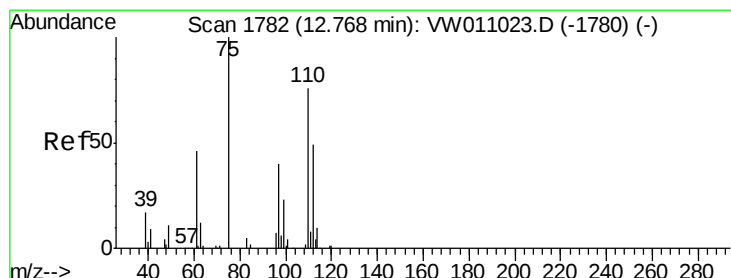
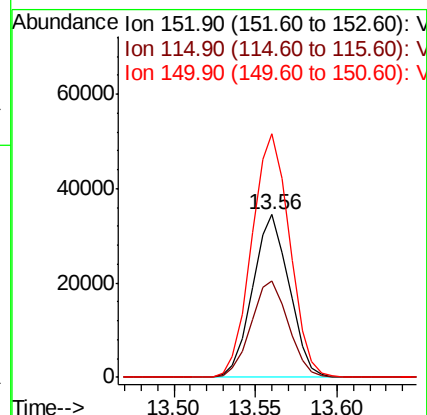
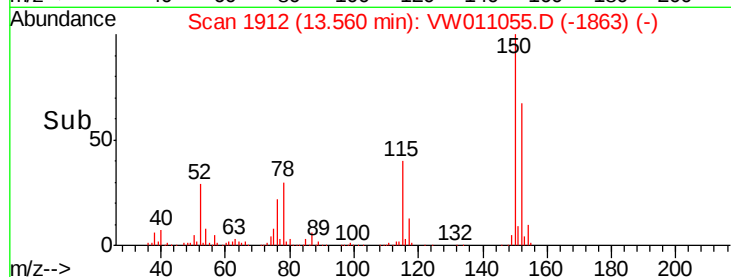
150 155.2 0.0 341.8



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: 58.588 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011055.D

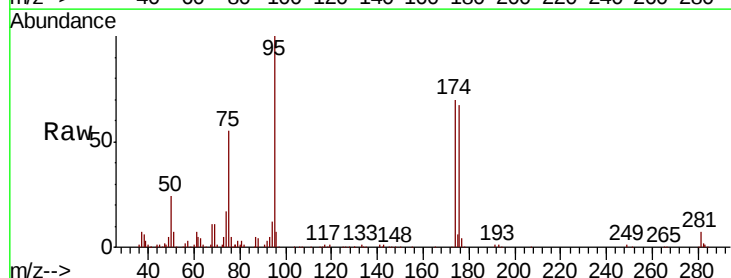
Acq: 28 Jun 2019 12:33

Tgt Ion: 75 Resp: 33408

Ion Ratio Lower Upper

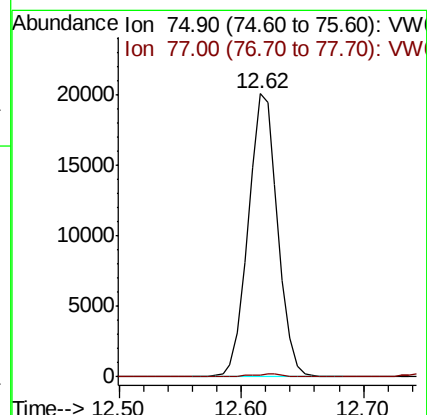
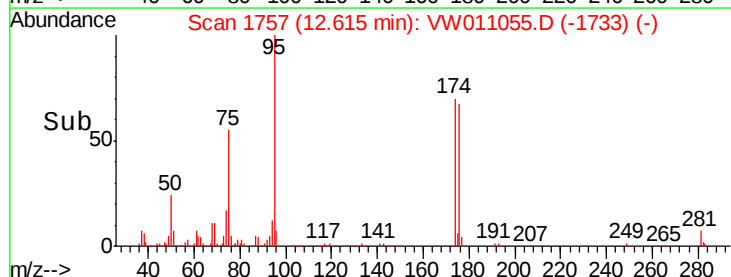
75 100

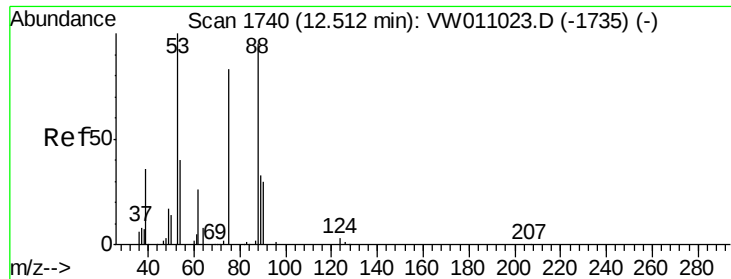
77 1.1 0.0 0.0#



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: 118.535 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. 0.10 min  
 Lab File: VW011055.D  
 Acq: 28 Jun 2019 12:33

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 M-2ARE

Tot Ion: 75 Resp: 33408  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 95.6 143.4#  
 89 0.1 34.4 51.6#

