

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW082119\  
 Data File : VW012068.D  
 Acq On : 21 Aug 2019 13:35  
 Operator : SY/VA  
 Sample : K4388-05RE  
 Misc : 5.16G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T4-B3-(2)

Quant Time: Aug 22 05:14:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 241432   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 399557   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 323103   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 113878   | 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   | 150011   | 54.11 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 108.22% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 120238   | 53.64 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 107.28% |          |
| 50) Toluene-d8              | 10.32 | 98   | 482741   | 52.60 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 105.20% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 142970   | 43.69 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 87.38%  |          |

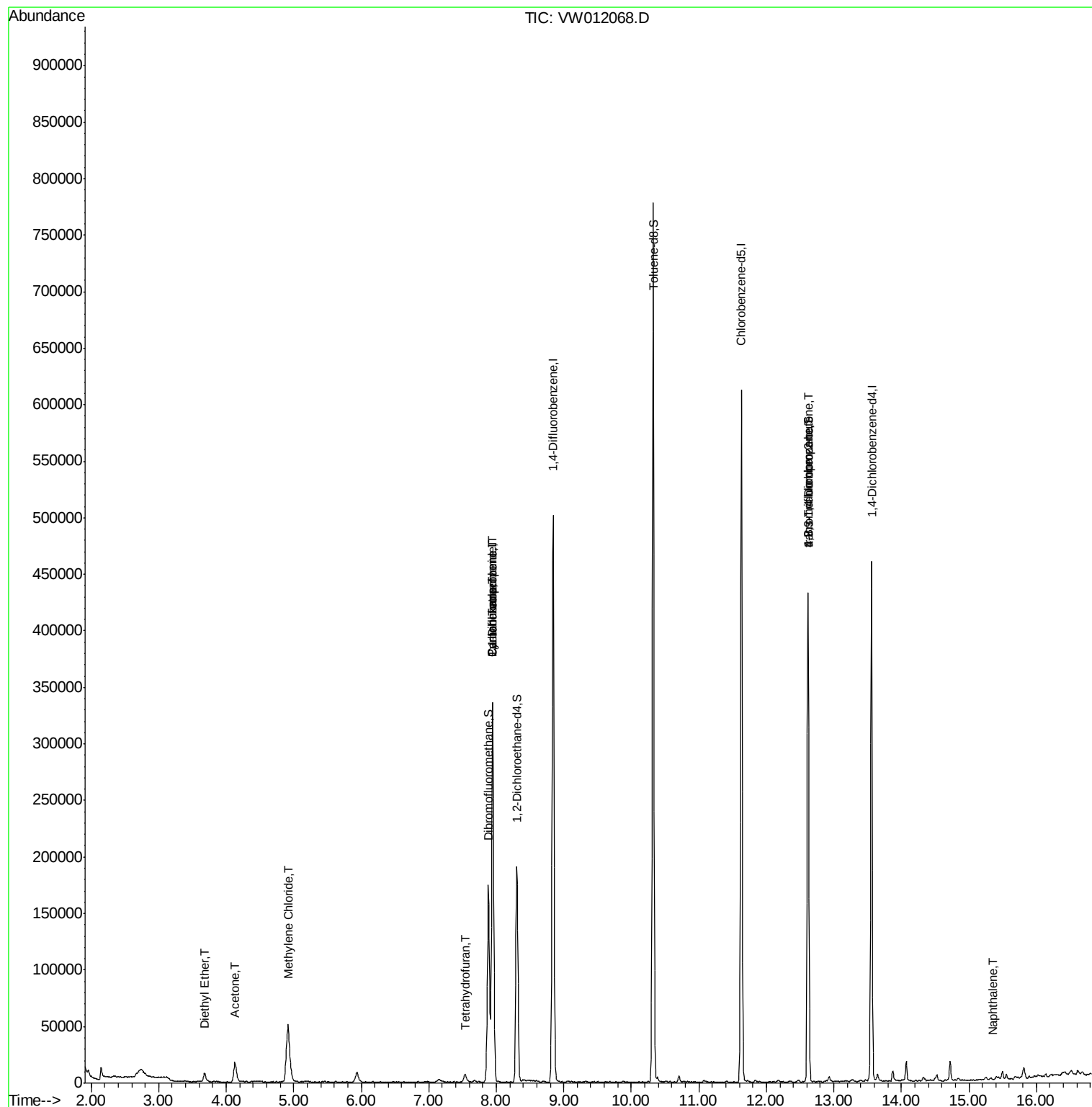
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 8) Diethyl Ether               | 3.67  | 74   | 3647     | 2.562     | ug/l   | 74     |
| 11) Tert butyl alcohol         | 5.19  | 59   | 774      | Below Cal | #      | 79     |
| 16) Acetone                    | 4.13  | 43   | 33674    | 38.185    | ug/l   | 95     |
| 20) Methylene Chloride         | 4.92  | 84   | 38852    | 12.774    | ug/l   | 96     |
| 29) Tetrahydrofuran            | 7.53  | 42   | 6609     | 10.020    | ug/l   | 97     |
| 31) Cyclohexane                | 7.95  | 56   | 6063     | 1.170     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 20816    | 5.010     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 23552    | 6.622     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 75141    | 62.360    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 75141    | 143.718   | ug/l # | 6      |
| 95) Naphthalene                | 15.36 | 128  | 594      | 2.193     | ug/l # | 69     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW082119\  
Data File : VW012068.D  
Acq On : 21 Aug 2019 13:35  
Operator : SY/VA  
Sample : K4388-05RE  
Misc : 5.16G/5ML/MSVOA\_W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
T4-B3-(2)

Quant Time: Aug 22 05:14:57 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 27 00:23:30 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW012068.D

Acq: 21 Aug 2019 13:35

Instrument :

MSVOA\_W

ClientSampleId :

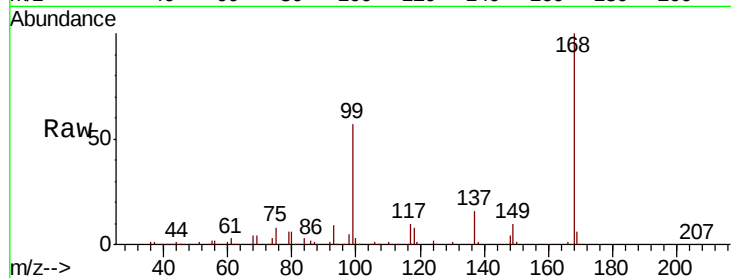
T4-B3-(2)

Tgt Ion:168 Resp: 241432

Ion Ratio Lower Upper

168 100

99 57.3 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

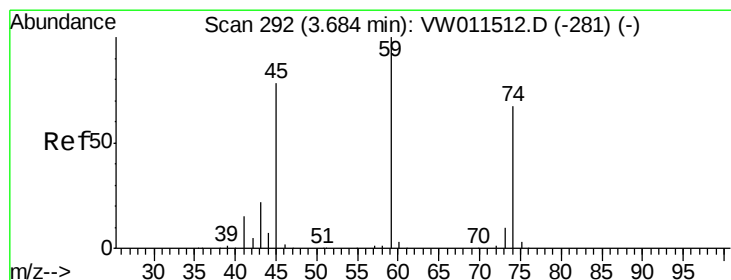
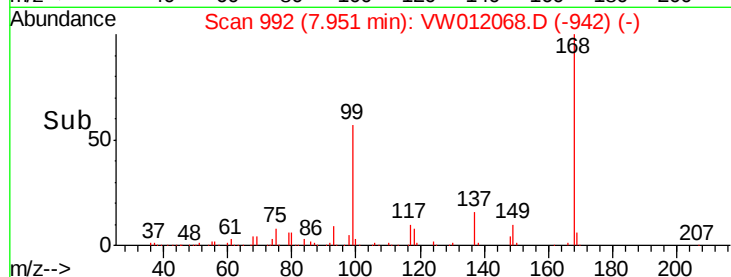
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 2.562 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW012068.D

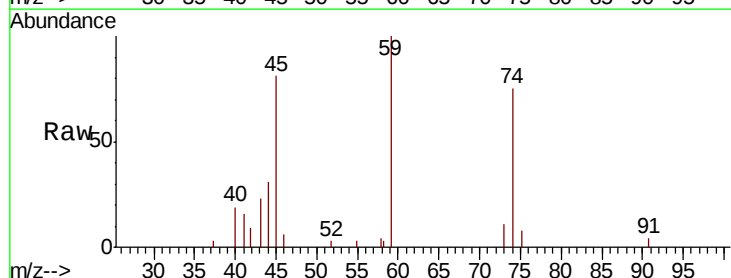
Acq: 21 Aug 2019 13:35

Tgt Ion: 74 Resp: 3647

Ion Ratio Lower Upper

74 100

45 147.9 59.6 178.8



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

2500

2000

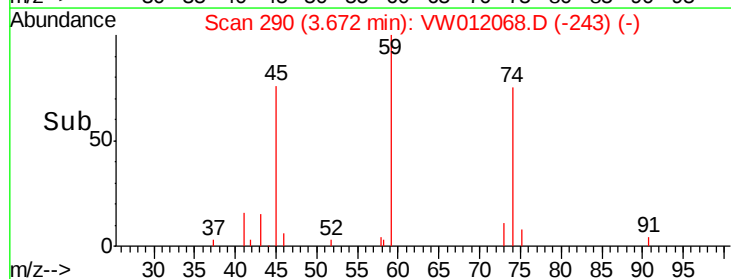
1500

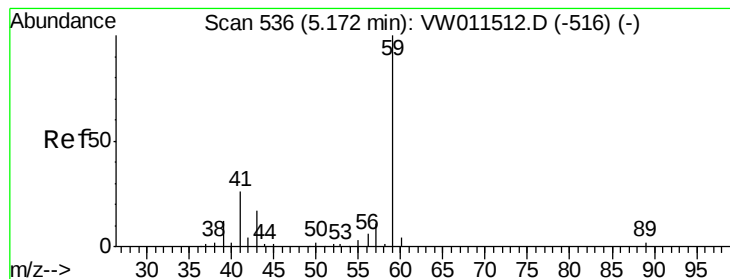
1000

500

0

Time-->



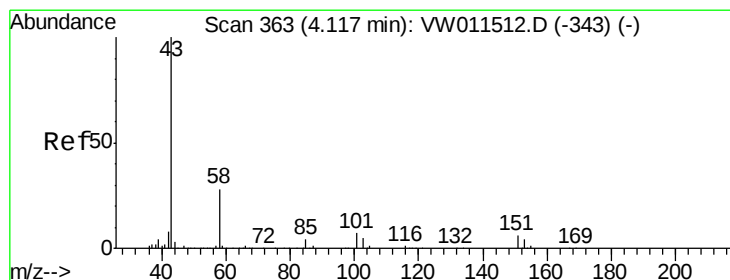
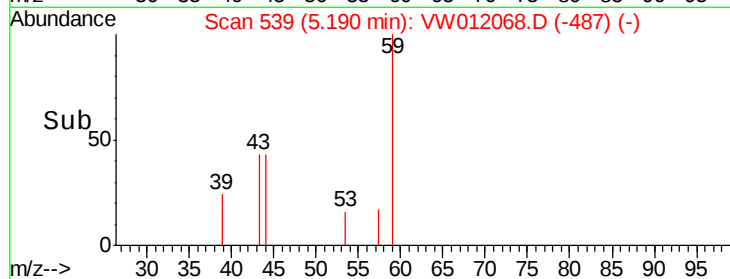
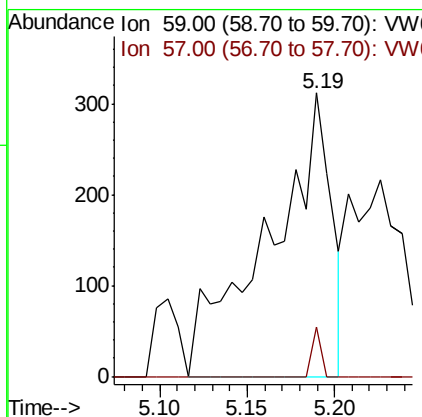
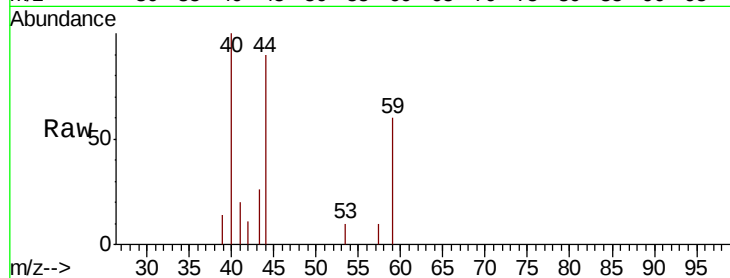


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.19 min Scan# 539  
 Delta R.T. 0.02 min  
 Lab File: VW012068.D  
 Acq: 21 Aug 2019 13:35

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 T4-B3-(2)

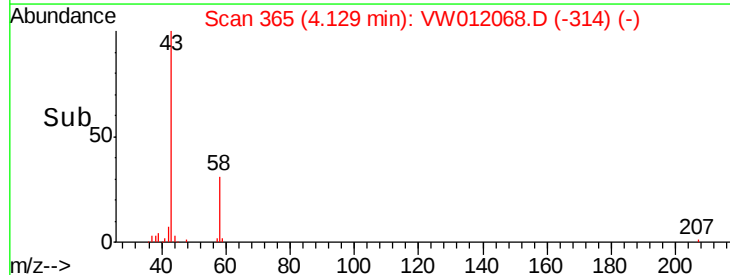
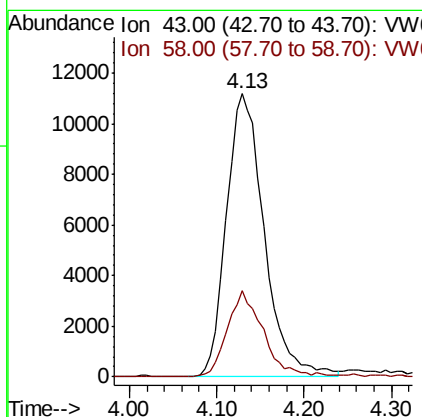
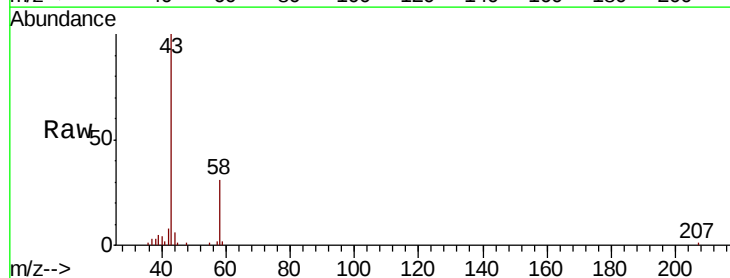
Tgt Ion: 59 Resp: 774  
 Ion Ratio Lower Upper  
 59 100  
 57 2.6 8.5 12.7#

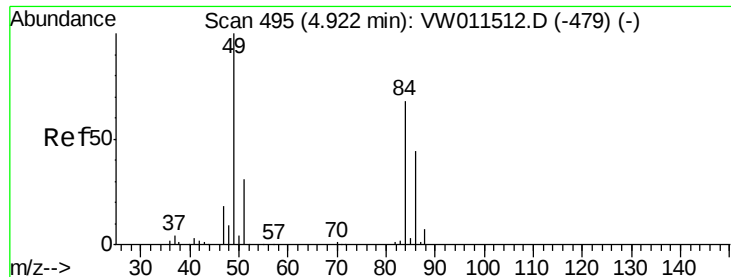


#16

Acetone  
 Concen: 38.185 ug/l  
 RT: 4.13 min Scan# 365  
 Delta R.T. 0.01 min  
 Lab File: VW012068.D  
 Acq: 21 Aug 2019 13:35

Tgt Ion: 43 Resp: 33674  
 Ion Ratio Lower Upper  
 43 100  
 58 30.5 22.3 33.5

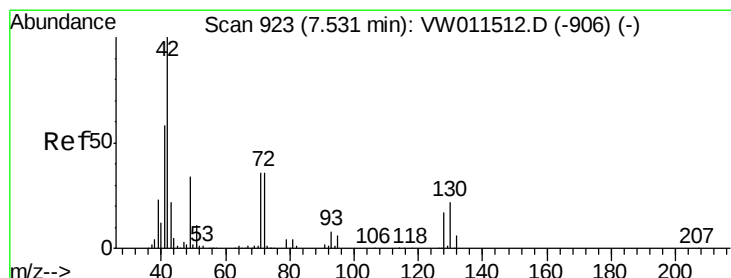
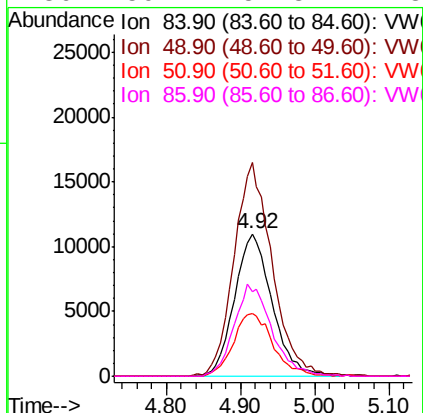
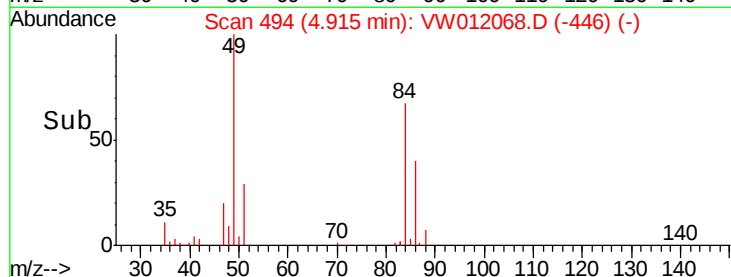
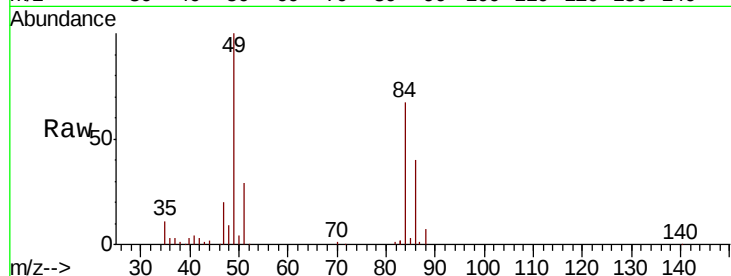




#20  
Methylene Chloride  
Concen: 12.774 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VW012068.D  
Acq: 21 Aug 2019 13:35

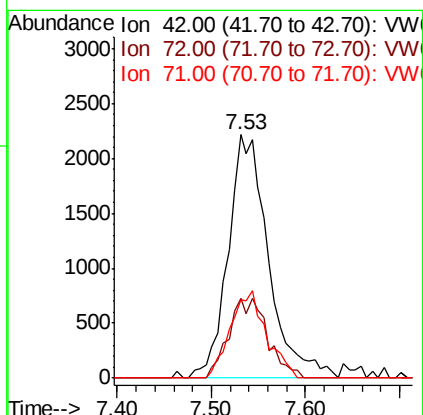
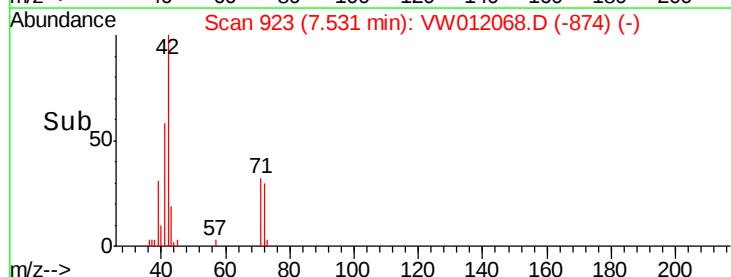
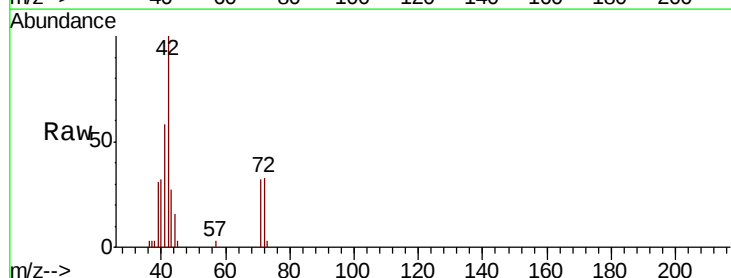
Instrument :  
MSVOA\_W  
ClientSampled :  
T4-B3-(2)

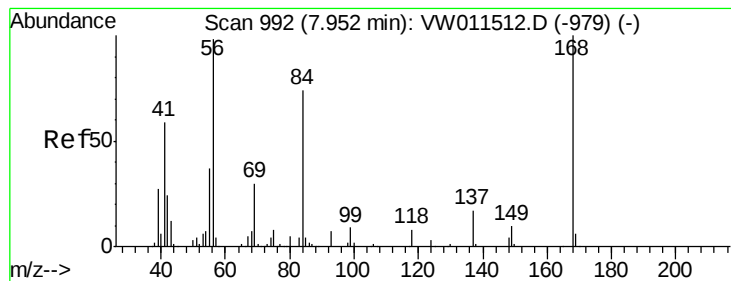
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 38852 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 150.2 | 117.8 | 176.6 |
| 51       | 43.7  | 37.0  | 55.4  |
| 86       | 59.7  | 51.8  | 77.8  |



#29  
Tetrahydrofuran  
Concen: 10.020 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VW012068.D  
Acq: 21 Aug 2019 13:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 6609  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 31.4  | 27.1  | 40.7  |
| 71       | 31.6  | 26.2  | 39.4  |





#31

Cyclohexane

Concen: 1.170 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012068.D

Acq: 21 Aug 2019 13:35

Instrument :

MSVOA\_W

ClientSampleId :

T4-B3-(2)

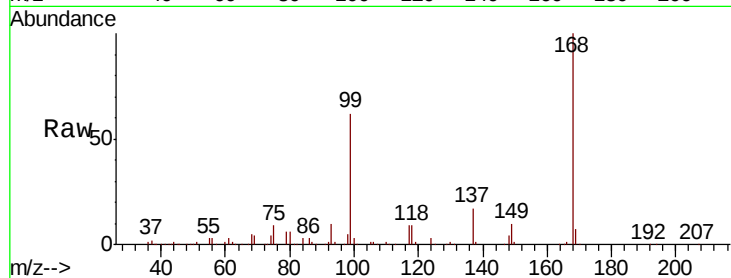
Tgt Ion: 56 Resp: 6063

Ion Ratio Lower Upper

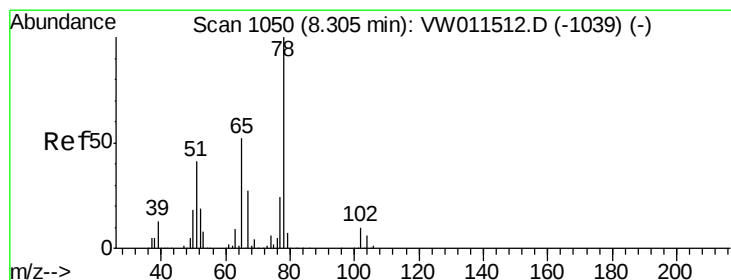
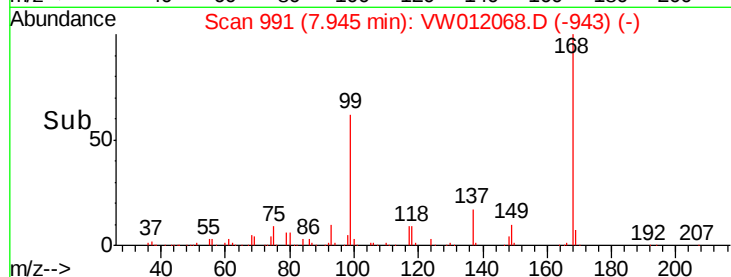
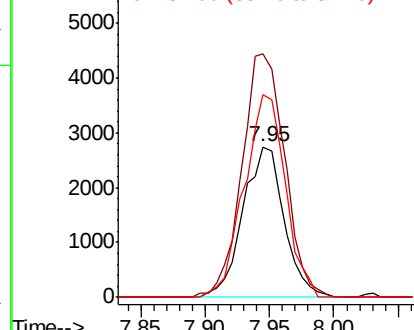
56 100

69 162.1 24.3 36.5#

84 134.6 60.4 90.6#



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: 54.110 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012068.D

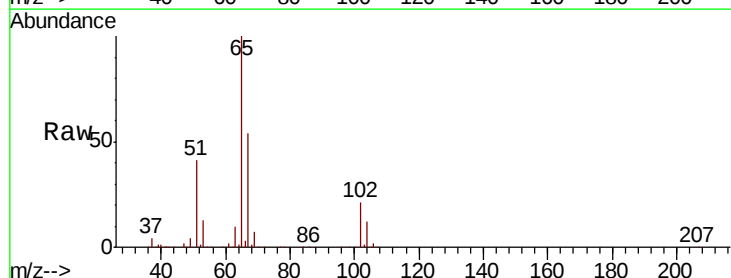
Acq: 21 Aug 2019 13:35

Tgt Ion: 65 Resp: 150011

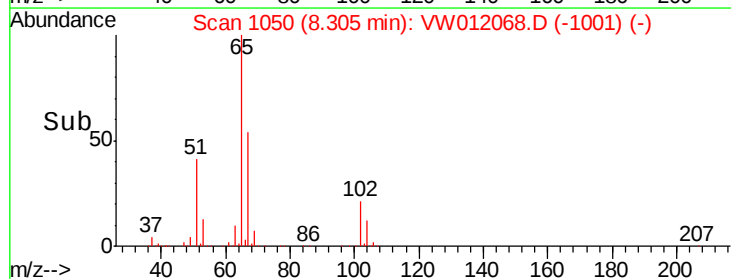
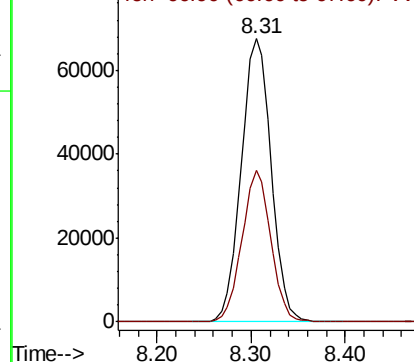
Ion Ratio Lower Upper

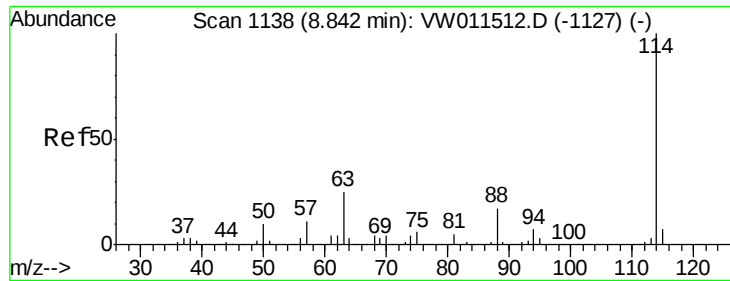
65 100

67 51.6 0.0 105.2



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

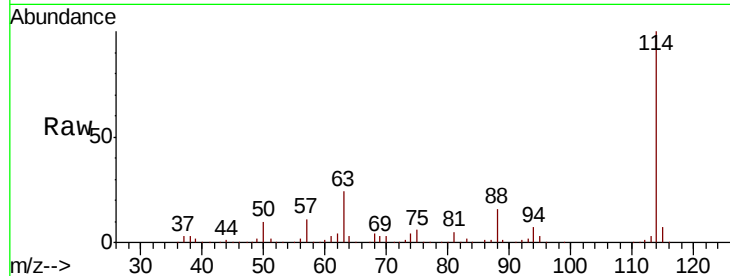




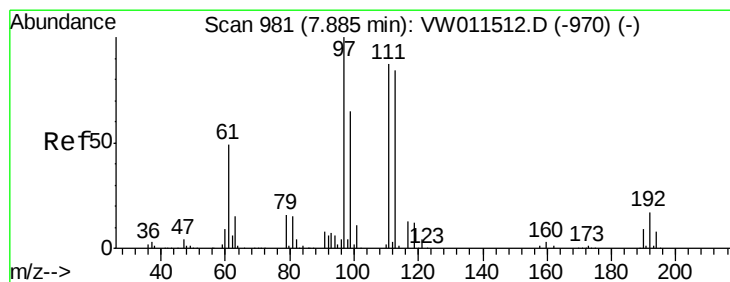
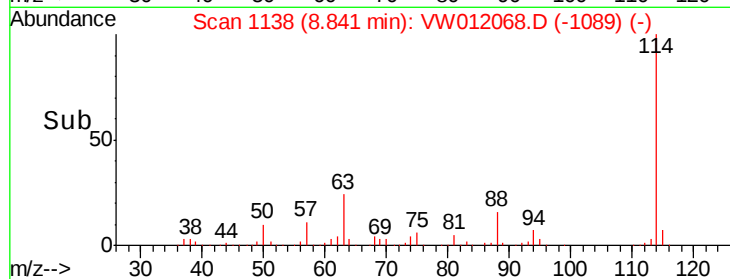
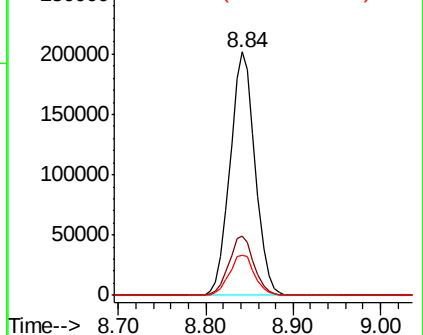
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012068.D  
 Acq: 21 Aug 2019 13:35

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T4-B3-(2)

Tgt Ion:114 Resp: 399557  
 Ion Ratio Lower Upper  
 114 100  
 63 24.5 0.0 49.2  
 88 16.5 0.0 33.8

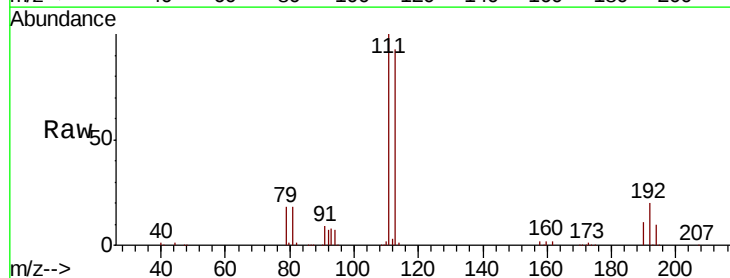


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

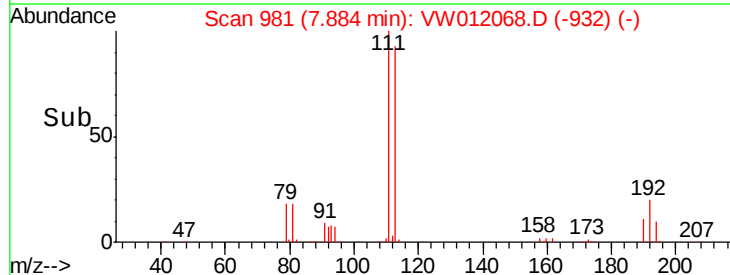
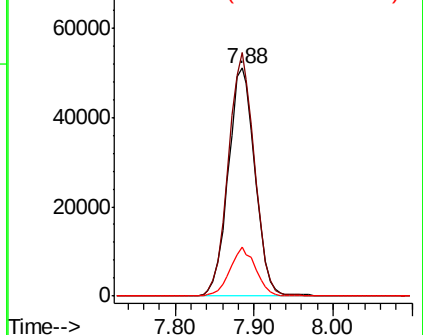


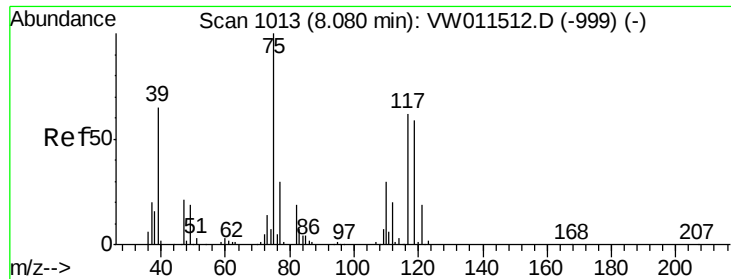
#35  
 Dibromofluoromethane  
 Concen: 53.640 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW012068.D  
 Acq: 21 Aug 2019 13:35

Tgt Ion:113 Resp: 120238  
 Ion Ratio Lower Upper  
 113 100  
 111 104.3 82.7 124.1  
 192 20.6 16.1 24.1



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

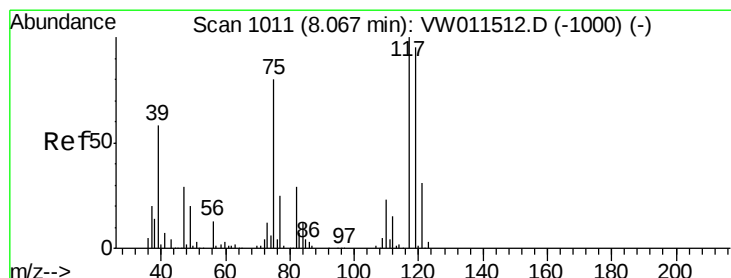
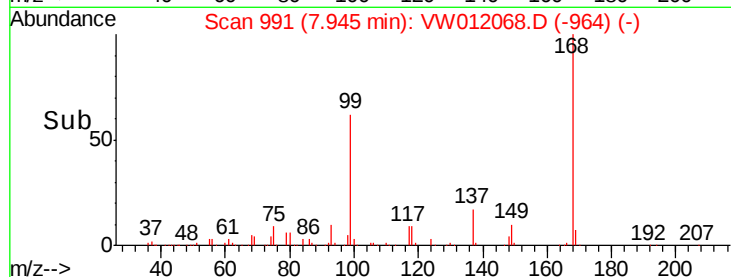
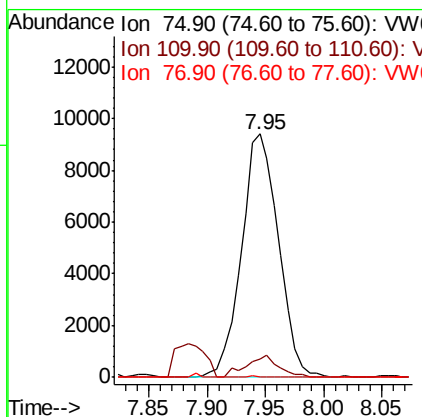
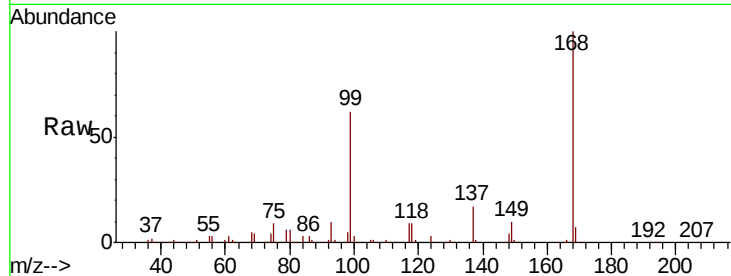




#36  
 1,1-Dichloropropene  
 Concen: 5.010 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW012068.D  
 Acq: 21 Aug 2019 13:35

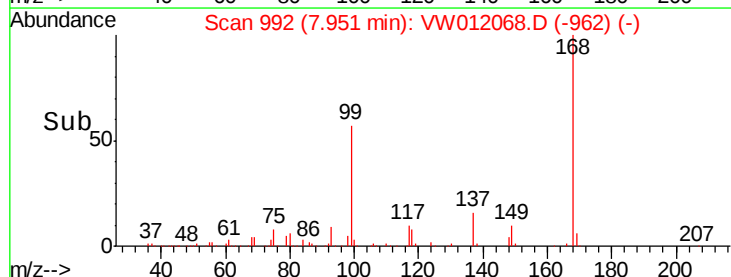
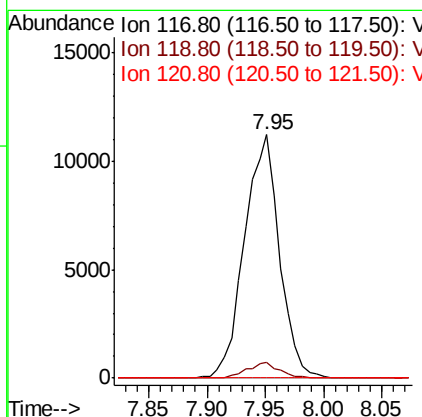
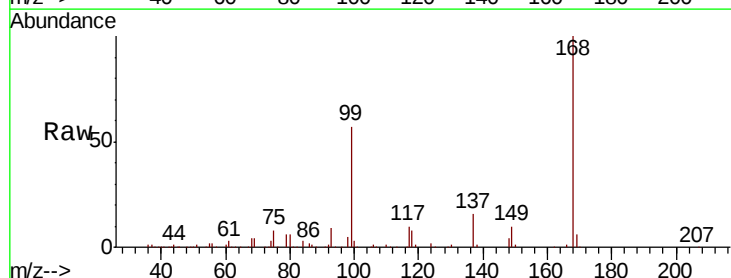
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T4-B3-(2)

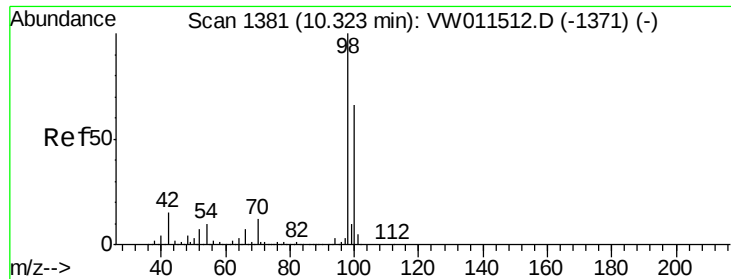
Tgt Ion: 75 Resp: 20816  
 Ion Ratio Lower Upper  
 75 100  
 110 8.0 15.6 46.8#  
 77 0.1 24.3 36.5#



#38  
 Carbon Tetrachloride  
 Concen: 6.622 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.12 min  
 Lab File: VW012068.D  
 Acq: 21 Aug 2019 13:35

Tgt Ion: 117 Resp: 23552  
 Ion Ratio Lower Upper  
 117 100  
 119 6.4 75.8 113.6#  
 121 0.0 24.7 37.1#





#50

Toluene-d8

Concen: 52.599 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012068.D

Acq: 21 Aug 2019 13:35

Instrument :

MSVOA\_W

ClientSampleId :

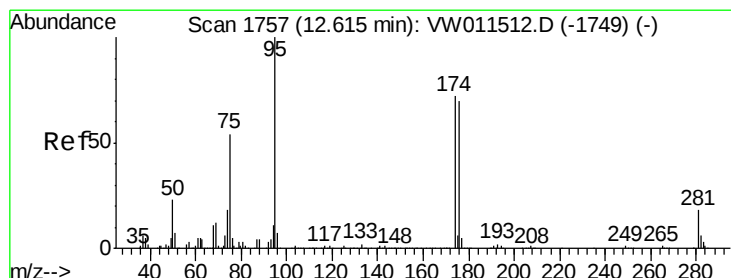
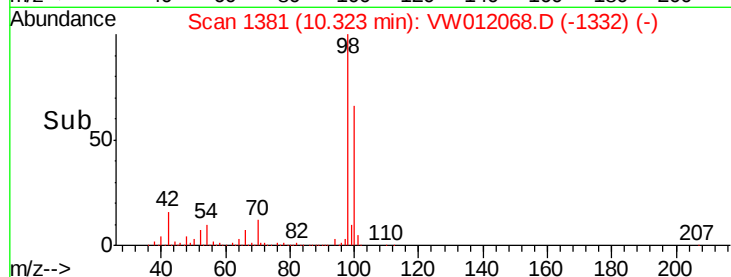
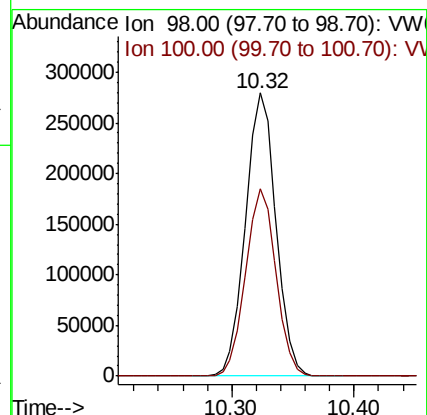
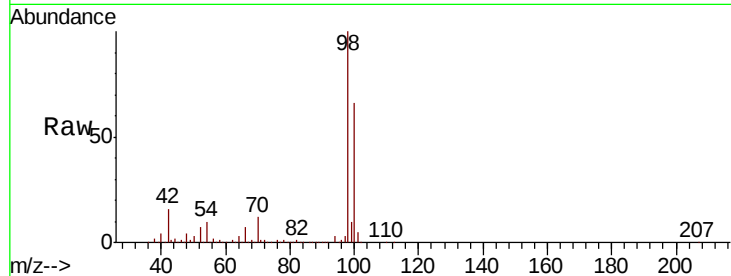
T4-B3-(2)

Tgt Ion: 98 Resp: 482741

Ion Ratio Lower Upper

98 100

100 66.1 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 43.694 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW012068.D

Acq: 21 Aug 2019 13:35

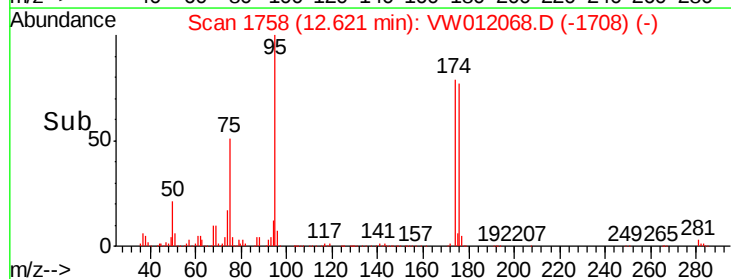
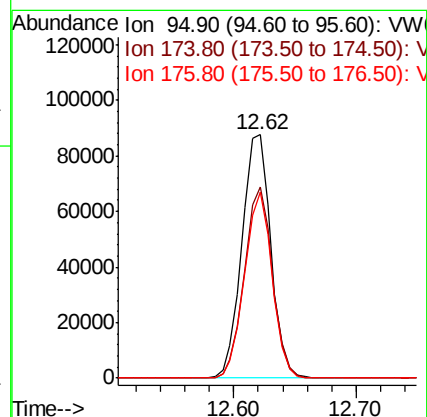
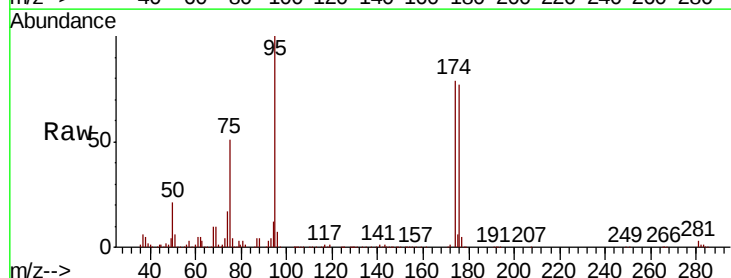
Tgt Ion: 95 Resp: 142970

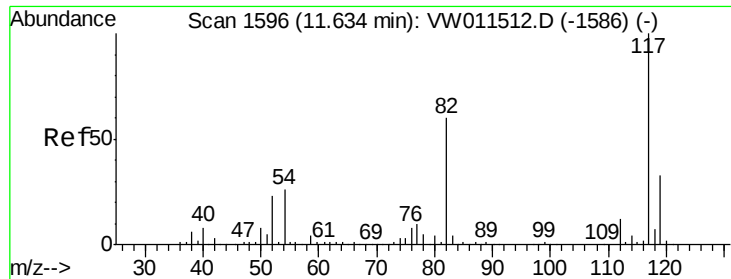
Ion Ratio Lower Upper

95 100

174 76.9 0.0 150.2

176 73.2 0.0 144.4

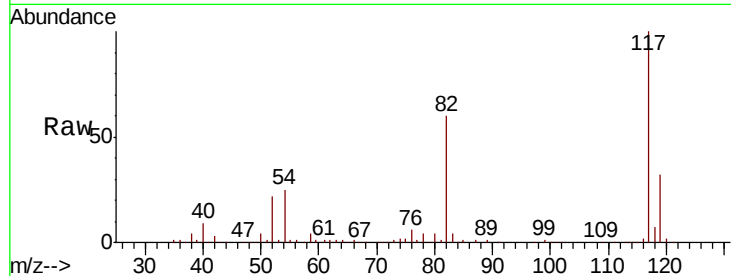




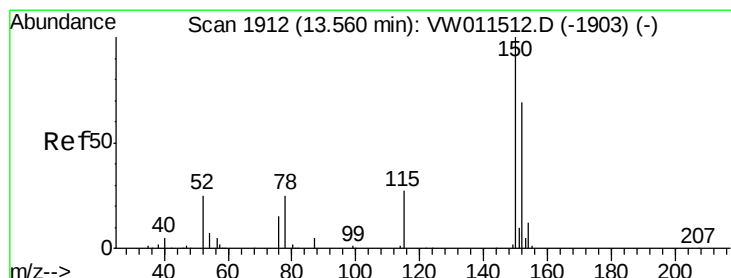
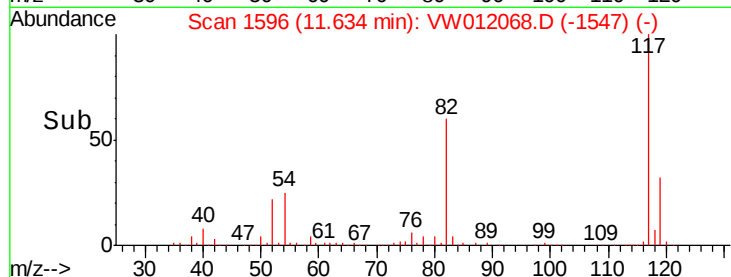
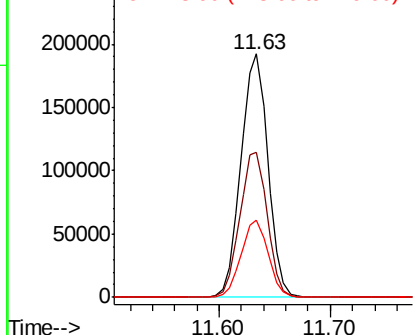
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW012068.D  
Acq: 21 Aug 2019 13:35

Instrument :  
MSVOA\_W  
ClientSampleId :  
T4-B3-(2)

Tgt Ion:117 Resp: 323103  
Ion Ratio Lower Upper  
117 100  
82 59.5 47.9 71.9  
119 31.7 26.2 39.2

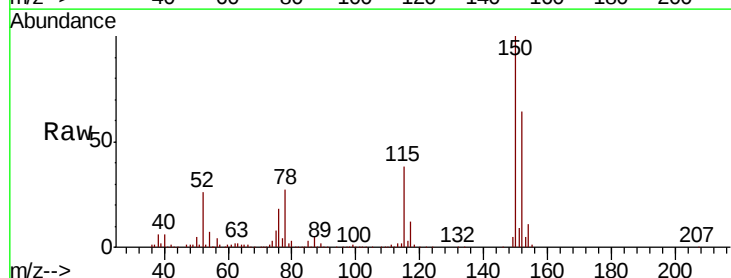


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VW  
Ion 118.90 (118.60 to 119.60): V

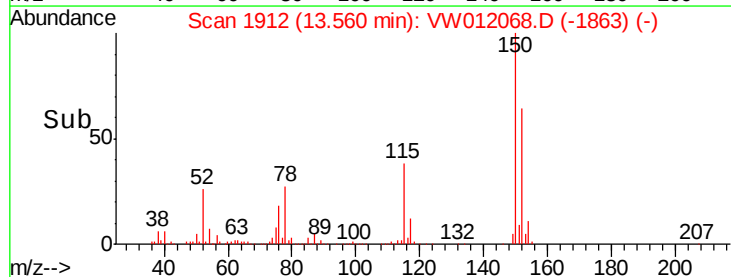
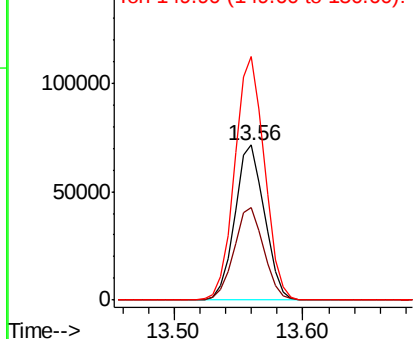


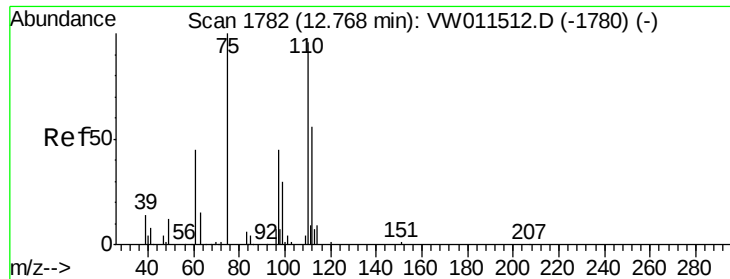
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW012068.D  
Acq: 21 Aug 2019 13:35

Tgt Ion:152 Resp: 113878  
Ion Ratio Lower Upper  
152 100  
115 60.3 30.5 91.5  
150 157.4 0.0 352.6



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: 62.360 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012068.D

Acq: 21 Aug 2019 13:35

Instrument :

MSVOA\_W

ClientSampled :

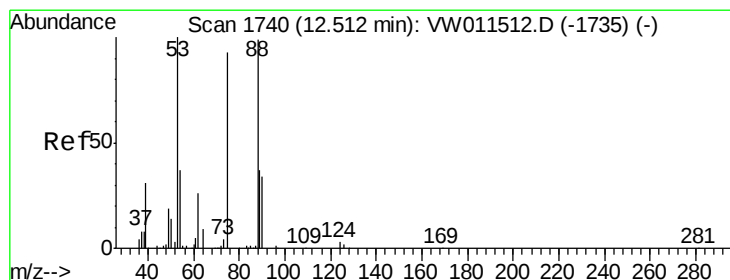
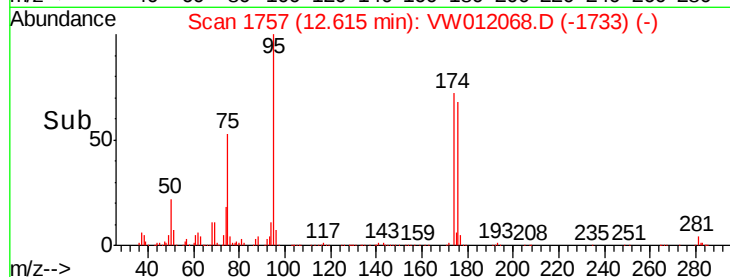
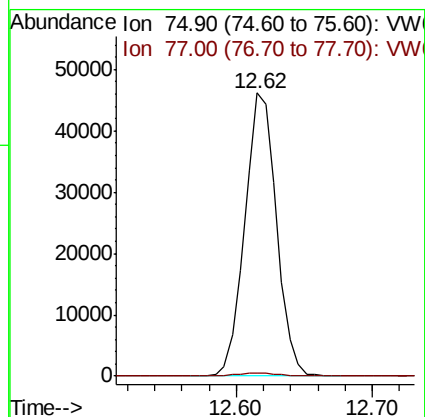
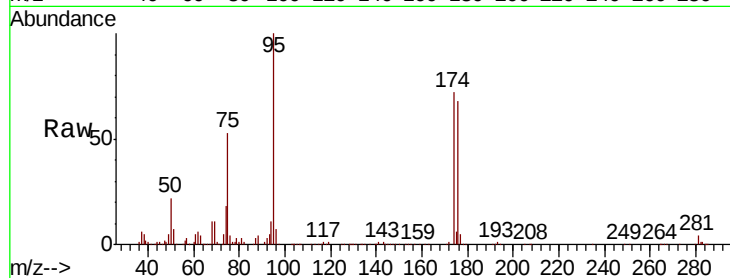
T4-B3-(2)

Tgt Ion: 75 Resp: 75141

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 143.718 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012068.D

Acq: 21 Aug 2019 13:35

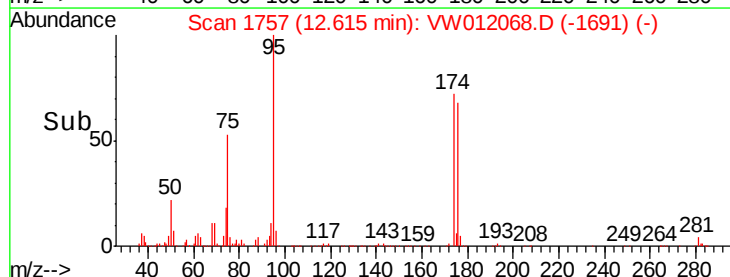
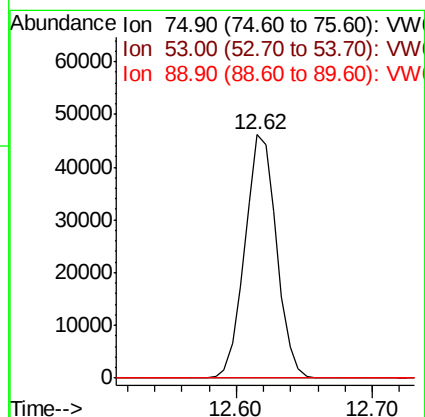
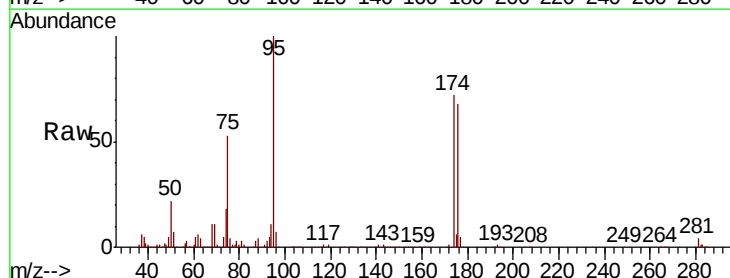
Tgt Ion: 75 Resp: 75141

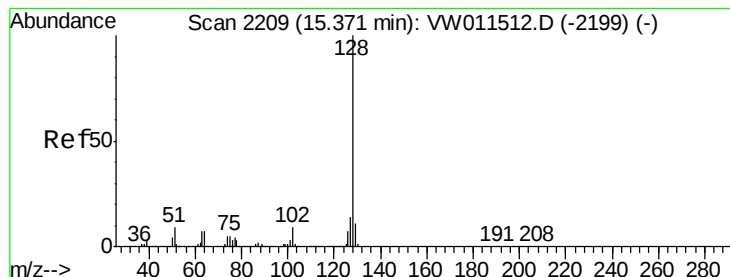
Ion Ratio Lower Upper

75 100

53 0.0 88.0 132.0#

89 0.1 35.3 52.9#





#95

Naphthalene

Concen: 2.193 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW012068.D

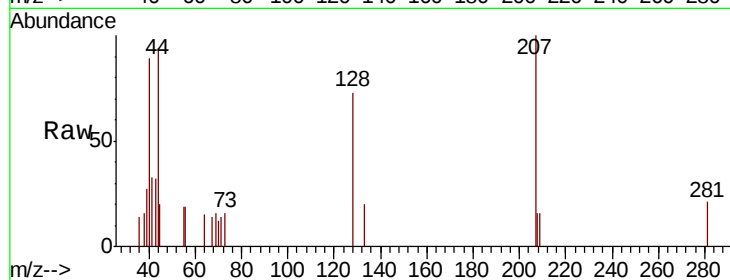
Acq: 21 Aug 2019 13:35

Instrument :

MSVOA\_W

ClientSampleId :

T4-B3-(2)



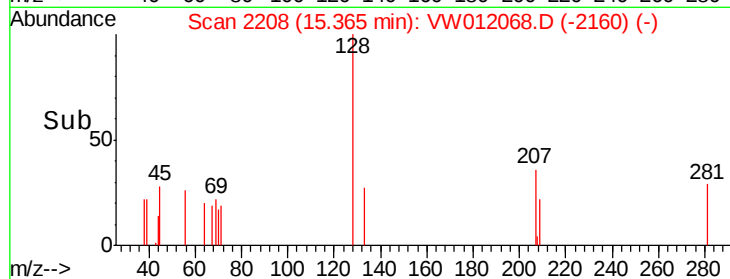
Tgt Ion:128 Resp: 594

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

