

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010820\  
 Data File : VW014561.D  
 Acq On : 08 Jan 2020 15:56  
 Operator : SY/VA  
 Sample : L1056-01  
 Misc : 10.25G/5ML/MSVOA W/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jan 09 00:54:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010320S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 03 16:07:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 553810   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 862830   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 562613   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 158867   | 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   | 233598   | 48.24 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.48% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 242172   | 49.11 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.22% |          |
| 50) Toluene-d8              | 10.32 | 98   | 863431   | 41.96 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 83.92% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 191602   | 27.45 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 54.90% |          |

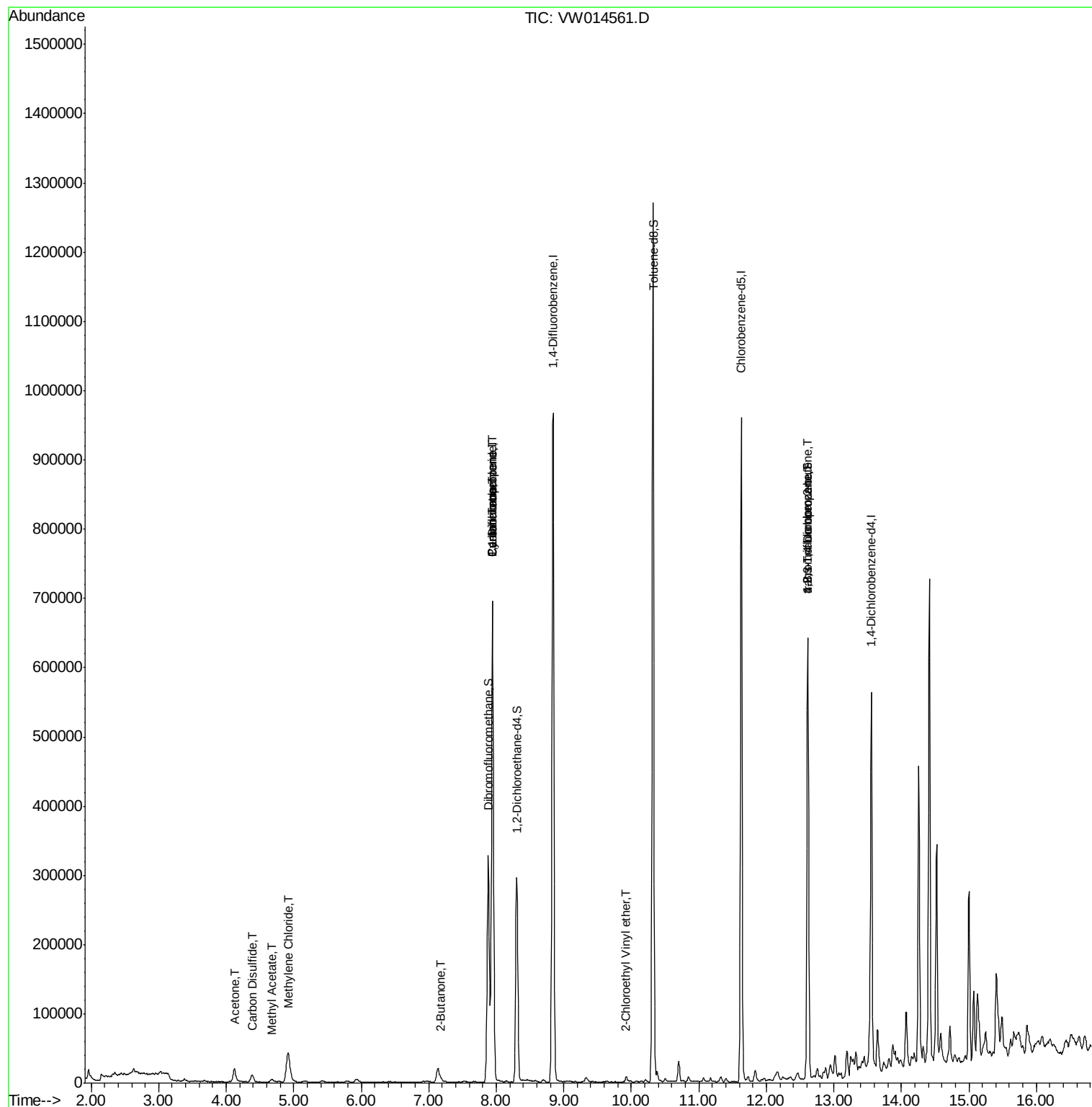
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.17  | 59   | 2571     | Below Cal | #      | 83     |
| 16) Acetone                    | 4.12  | 43   | 36318    | 26.563    | ug/l   | 92     |
| 17) Carbon Disulfide           | 4.39  | 76   | 17377    | 1.046     | ug/l   | 100    |
| 18) Methyl Acetate             | 4.67  | 43   | 7939     | 2.404     | ug/l   | 95     |
| 20) Methylene Chloride         | 4.92  | 84   | 39520    | 2.890     | ug/l   | 95     |
| 25) 2-Butanone                 | 7.18  | 43   | 6984     | 3.980     | ug/l   | 95     |
| 31) Cyclohexane                | 7.95  | 56   | 10951    | 1.060     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 39049    | 4.694     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 49946    | 6.921     | ug/l # | 17     |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 3849     | 2.339     | ug/l   | 96     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 91304    | 60.786    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 91304    | 135.433   | ug/l # | 16     |

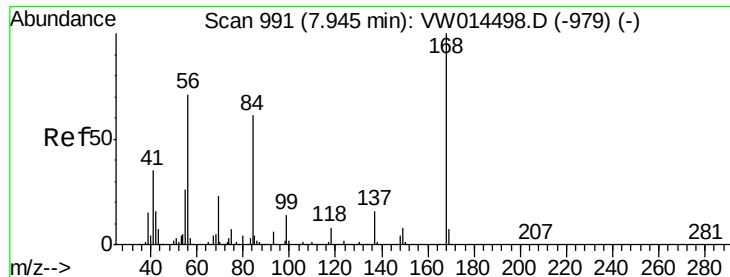
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW010820\  
Data File : VW014561.D  
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Operator : SY/VA  
Sample : L1056-01  
Misc : 10.25G/5ML/MSVOA W/SOIL  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Jan 09 00:54:54 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010320S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 03 16:07:20 2020  
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: VW014561.D

Acq: 08 Jan 2020 15:56

Instrument :

MSVOA\_W

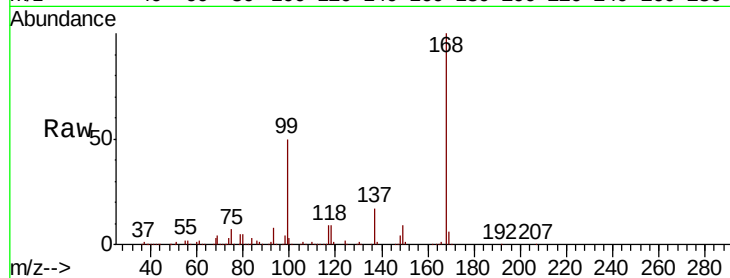
ClientSampleId :

Tot Ion:168 Resp: 553810

Ion Ratio Lower Upper

168 100

99 50.3 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

250000

200000

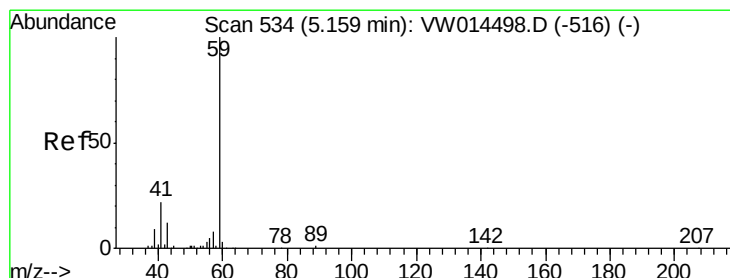
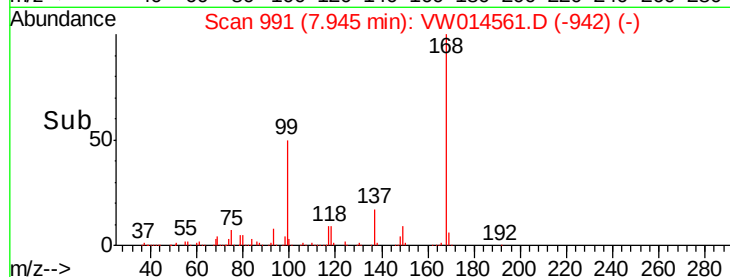
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.17 min Scan# 535

Delta R.T. 0.01 min

Lab File: VW014561.D

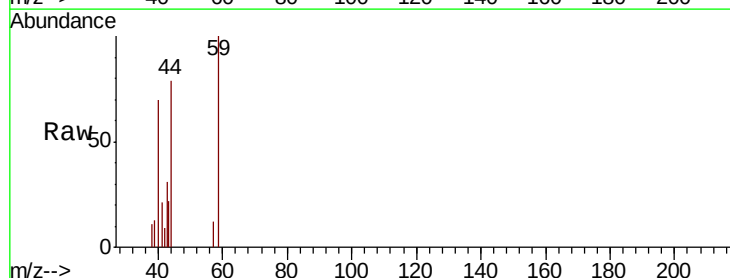
Acq: 08 Jan 2020 15:56

Tgt Ion: 59 Resp: 2571

Ion Ratio Lower Upper

59 100

57 3.5 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.17

800

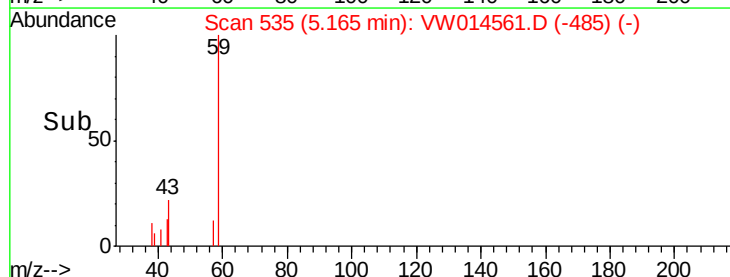
600

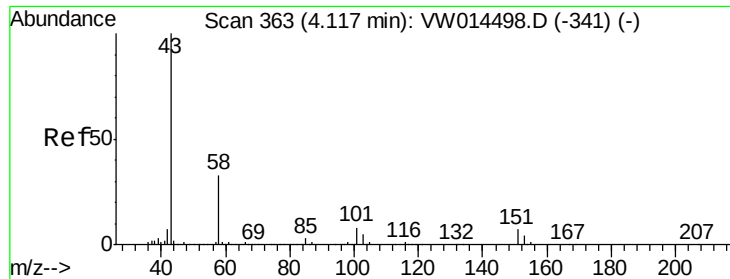
400

200

0

Time-->





#16

Acetone

Concen: 26.563 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW014561.D

Acq: 08 Jan 2020 15:56

Instrument :

MSVOA\_W

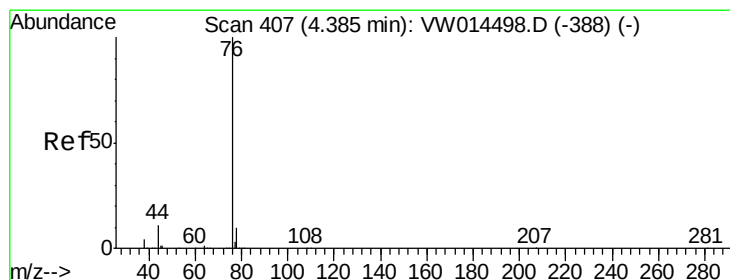
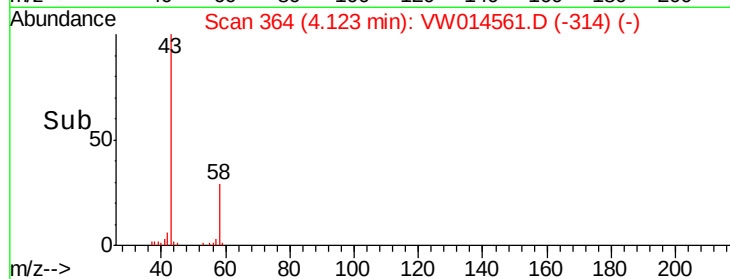
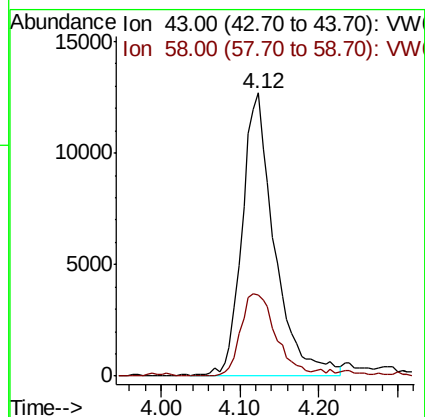
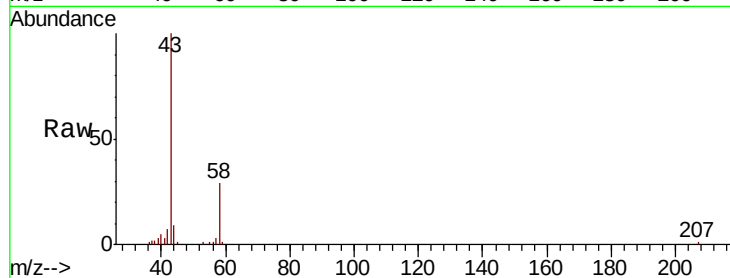
ClientSampleId :

Tot Ion: 43 Resp: 36318

Ion Ratio Lower Upper

43 100

58 28.6 26.6 39.8



#17

Carbon Disulfide

Concen: 1.046 ug/l

RT: 4.39 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW014561.D

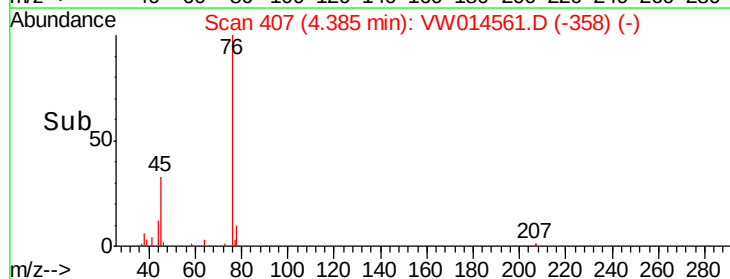
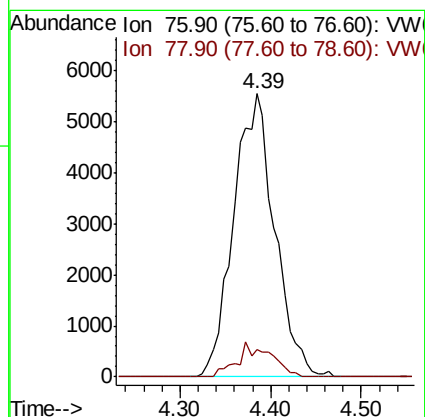
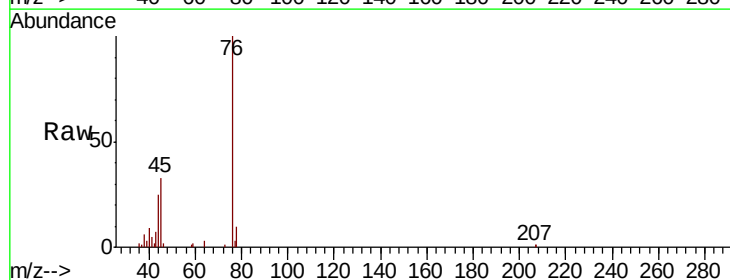
Acq: 08 Jan 2020 15:56

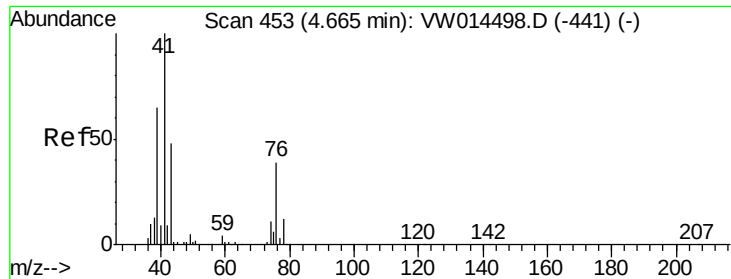
Tgt Ion: 76 Resp: 17377

Ion Ratio Lower Upper

76 100

78 9.8 7.8 11.6

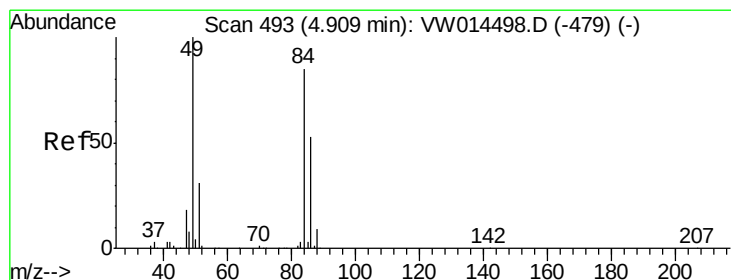
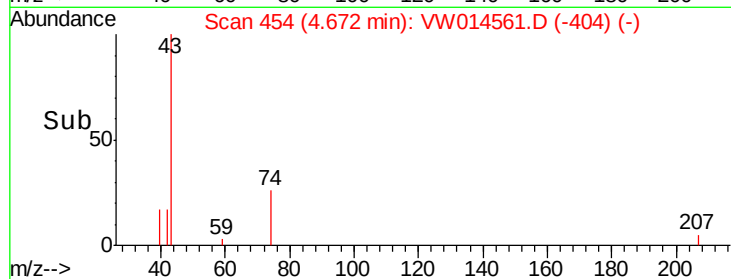
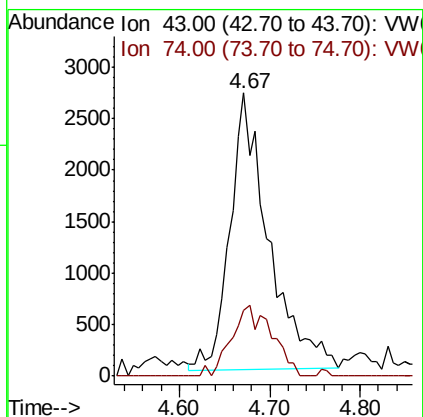
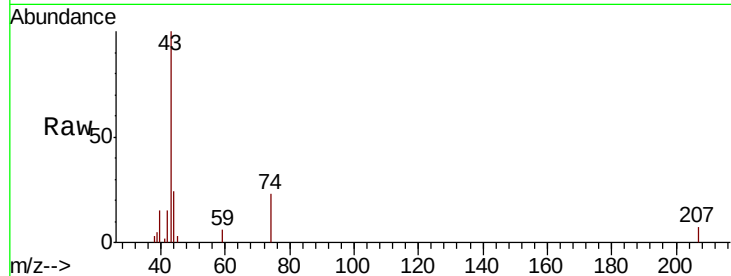




#18  
Methyl Acetate  
Concen: 2.404 ug/l  
RT: 4.67 min Scan# 454  
Delta R.T. 0.01 min  
Lab File: VW014561.D  
Acq: 08 Jan 2020 15:56

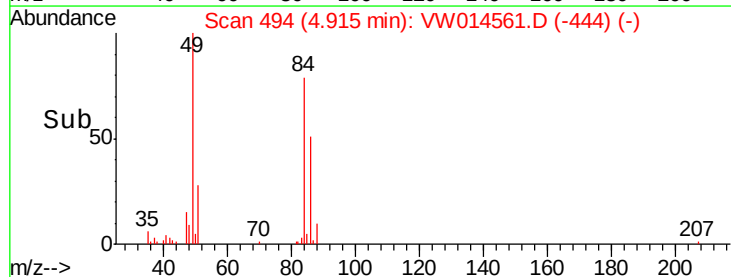
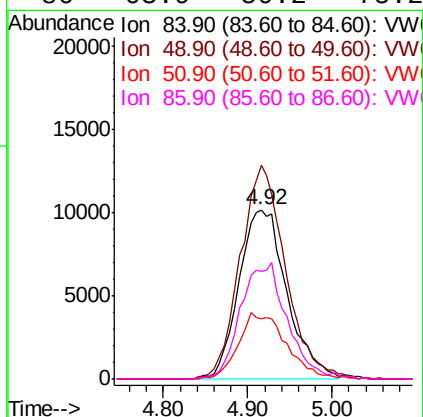
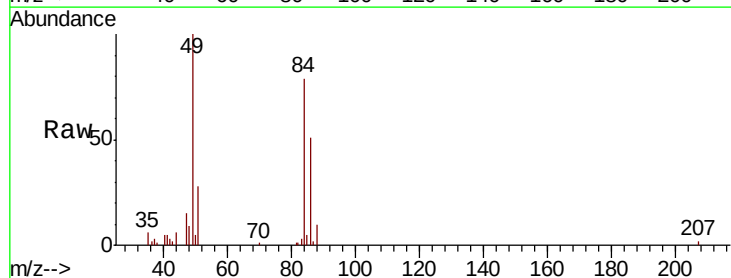
Instrument :  
MSVOA\_W  
ClientSampleId :

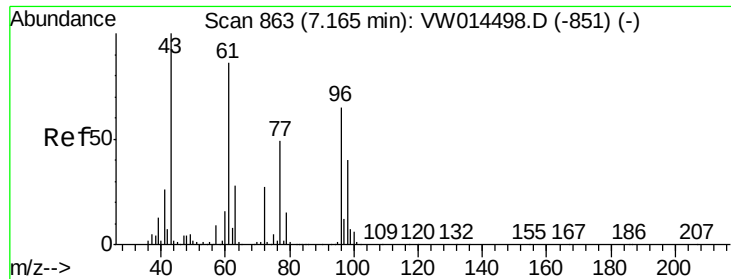
Tot Ion: 43 Resp: 7939  
Ion Ratio Lower Upper  
43 100  
74 26.7 19.3 28.9



#20  
Methylene Chloride  
Concen: 2.890 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW014561.D  
Acq: 08 Jan 2020 15:56

Tgt Ion: 84 Resp: 39520  
Ion Ratio Lower Upper  
84 100  
49 126.3 94.4 141.6  
51 35.3 29.5 44.3  
86 63.9 50.2 75.2

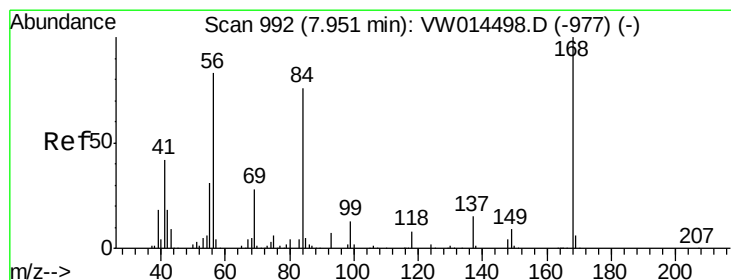
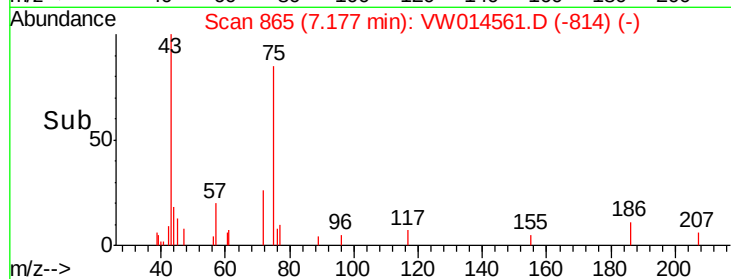
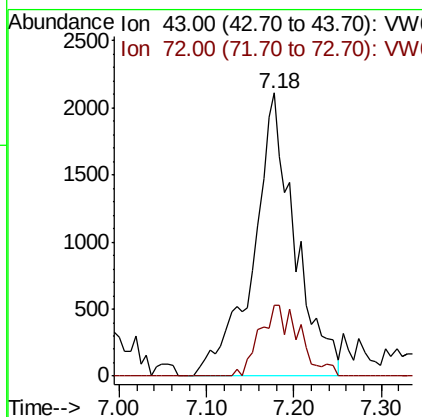
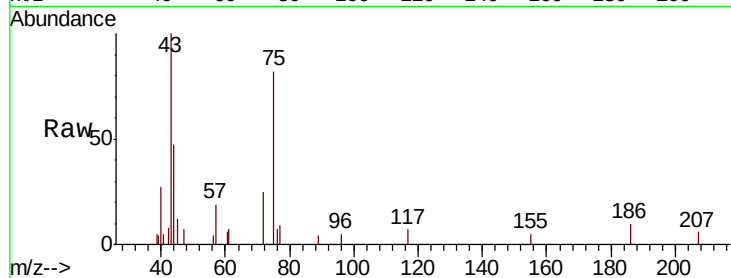




#25  
2-Butanone  
Concen: 3.980 ug/l  
RT: 7.18 min Scan# 865  
Delta R.T. 0.01 min  
Lab File: VW014561.D  
Acq: 08 Jan 2020 15:56

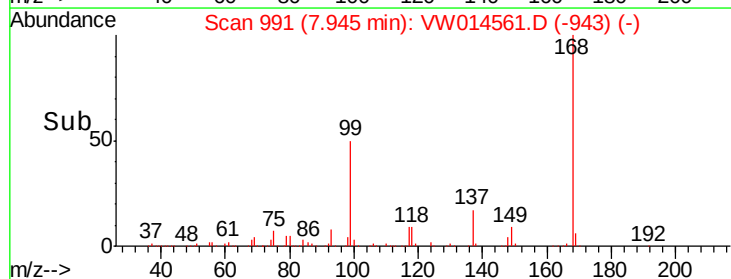
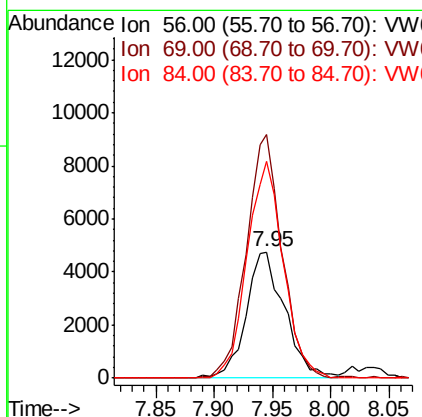
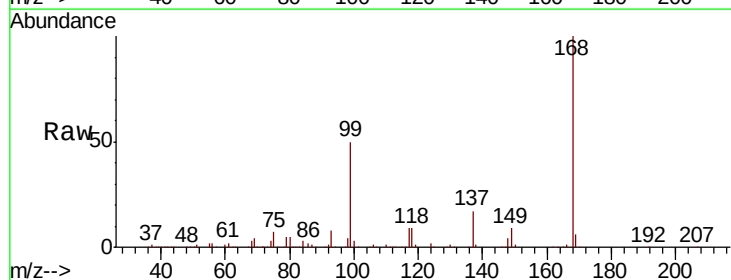
Instrument :  
MSVOA\_W  
ClientSampleId :

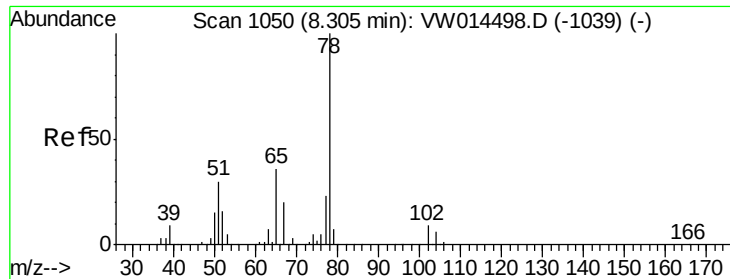
Tot Ion: 43 Resp: 6984  
Ion Ratio Lower Upper  
43 100  
72 24.9 21.9 32.9



#31  
Cyclohexane  
Concen: 1.060 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW014561.D  
Acq: 08 Jan 2020 15:56

Tgt Ion: 56 Resp: 10951  
Ion Ratio Lower Upper  
56 100  
69 193.3 26.8 40.2#  
84 171.8 71.8 107.6#

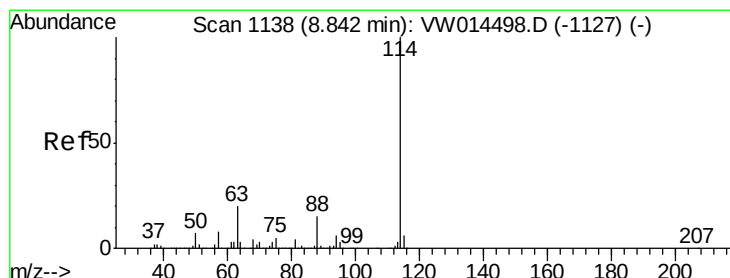
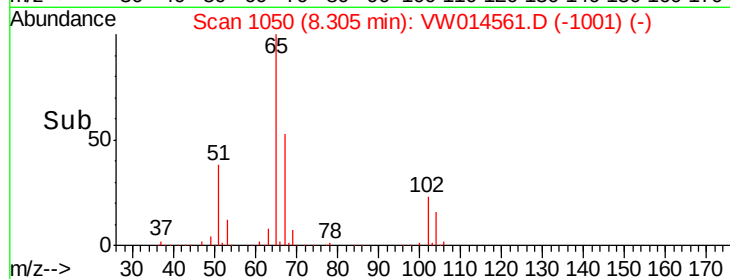
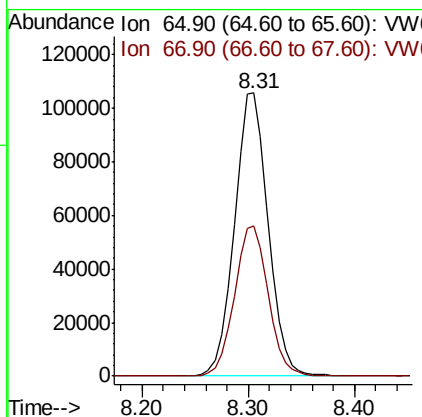
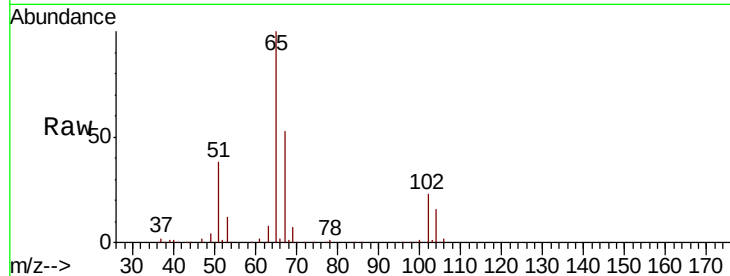




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.244 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW014561.D  
 Acq: 08 Jan 2020 15:56

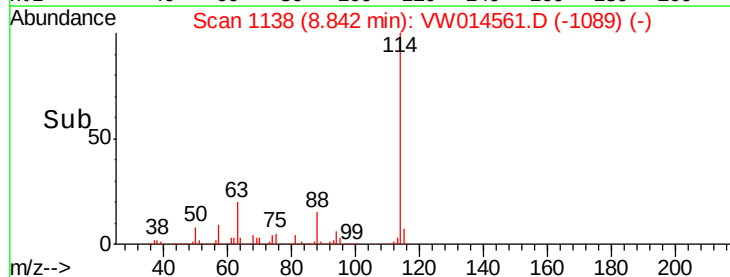
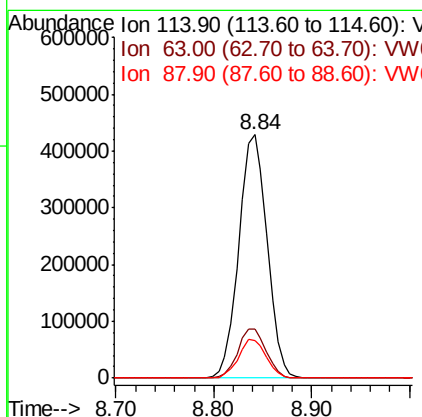
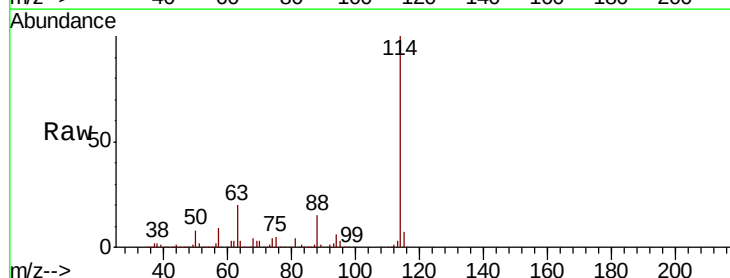
Instrument :  
 MSVOA\_W  
 ClientSampleId :

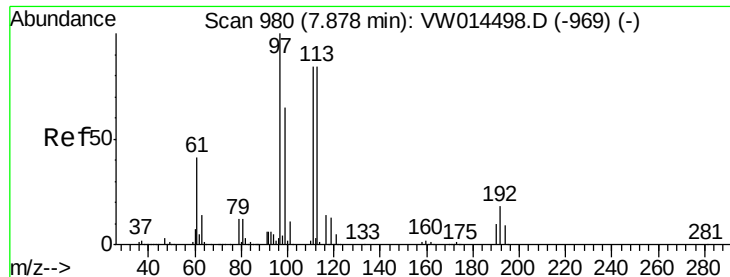
Tot Ion: 65 Resp: 233598  
 Ion Ratio Lower Upper  
 65 100  
 67 53.2 0.0 108.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW014561.D  
 Acq: 08 Jan 2020 15:56

Tgt Ion: 114 Resp: 862830  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 40.4  
 88 15.4 0.0 30.6

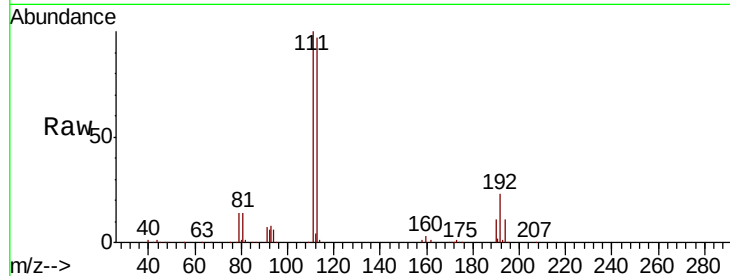




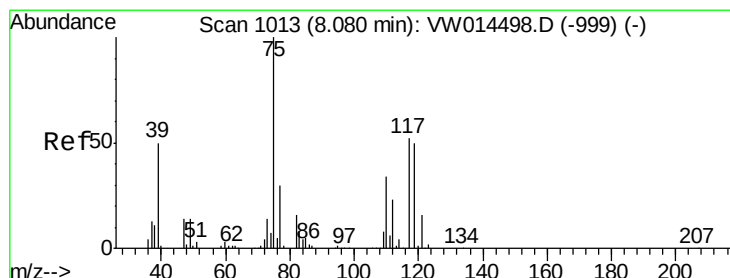
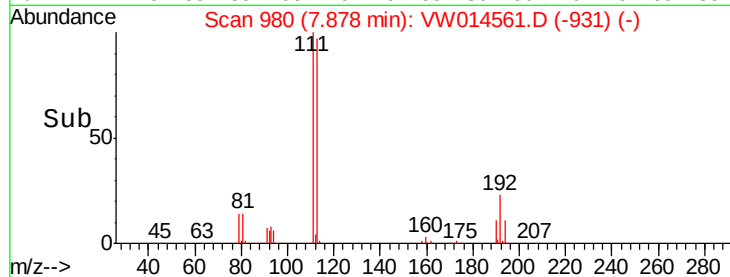
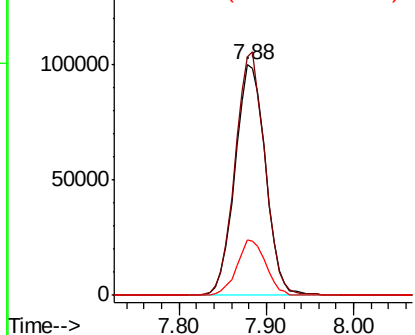
#35  
 Dibromofluoromethane  
 Concen: 49.110 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. -0.00 min  
 Lab File: VW014561.D  
 Acq: 08 Jan 2020 15:56

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.0 | 81.4  | 122.2 |
| 192     | 22.8  | 17.8  | 26.8  |

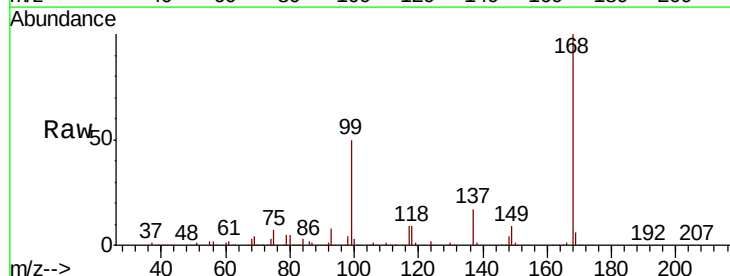


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

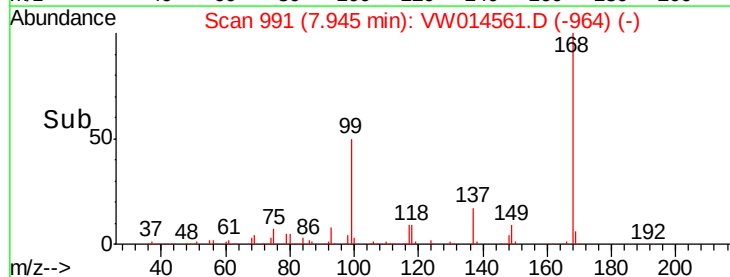
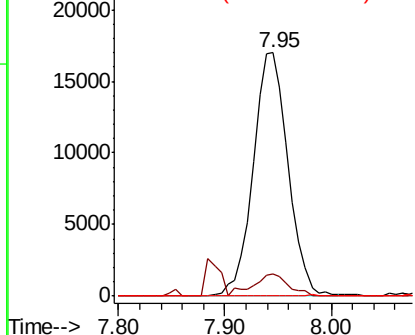


#36  
 1,1-Dichloropropene  
 Concen: 4.694 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW014561.D  
 Acq: 08 Jan 2020 15:56

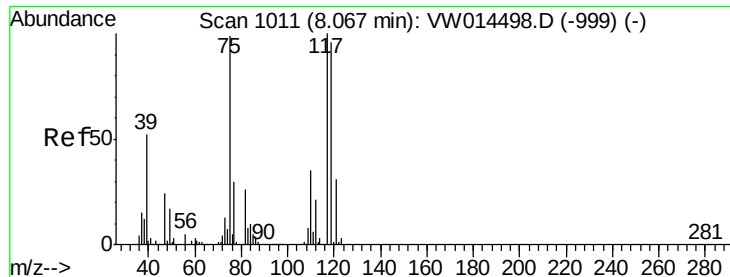
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.3   | 17.8  | 53.5# |
| 77      | 0.0   | 24.7  | 37.1# |



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



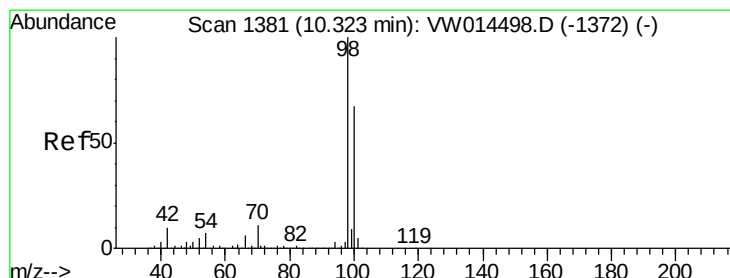
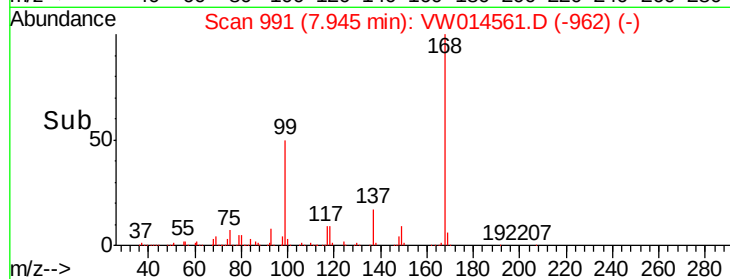
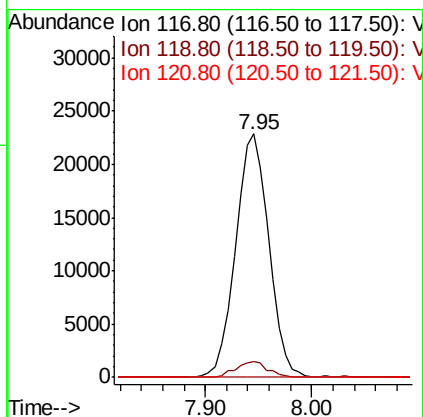
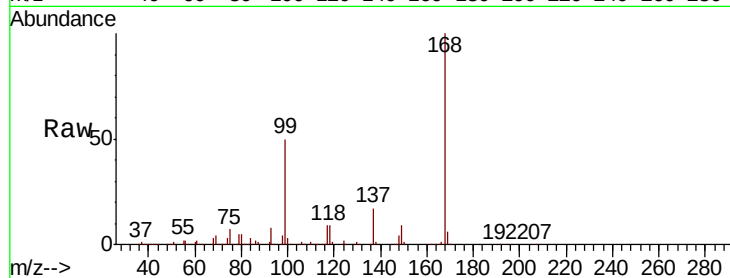




#38  
Carbon Tetrachloride  
Concen: 6.921 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.12 min  
Lab File: VW014561.D  
Acq: 08 Jan 2020 15:56

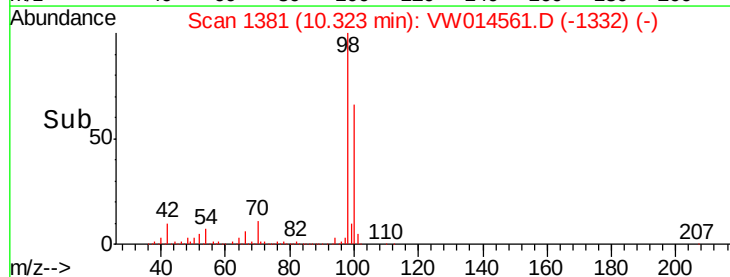
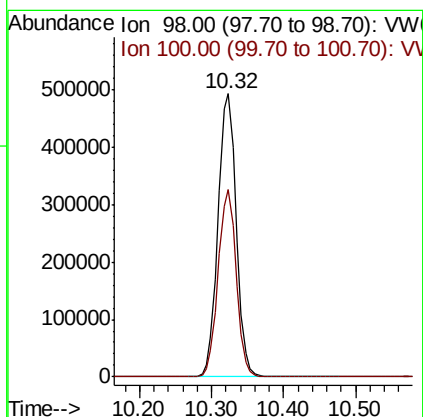
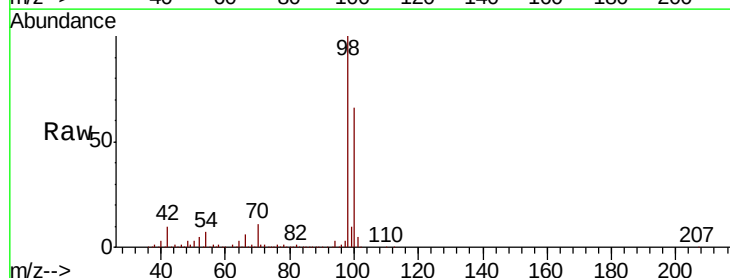
Instrument :  
MSVOA\_W  
ClientSampleId :

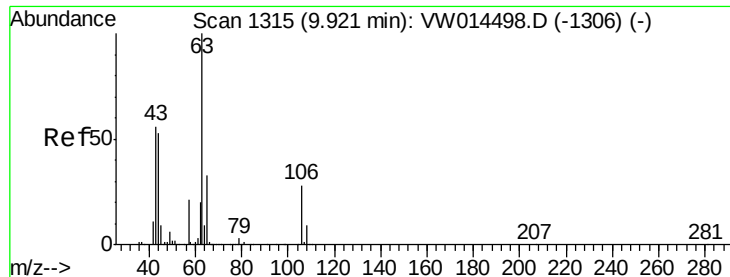
Tot Ion:117 Resp: 49946  
Ion Ratio Lower Upper  
117 100  
119 6.4 77.0 115.6#  
121 0.0 24.6 36.8#



#50  
Toluene-d8  
Concen: 41.956 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW014561.D  
Acq: 08 Jan 2020 15:56

Tgt Ion: 98 Resp: 863431  
Ion Ratio Lower Upper  
98 100  
100 65.8 53.8 80.6

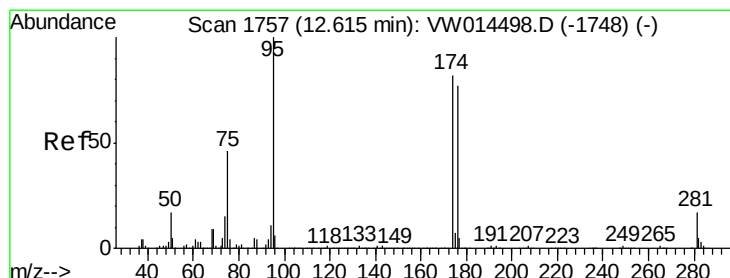
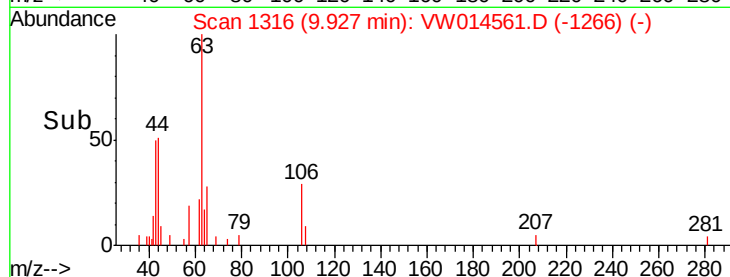
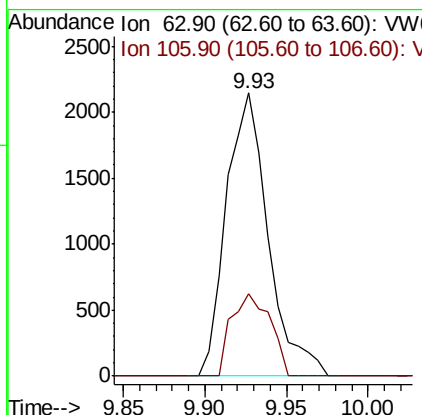
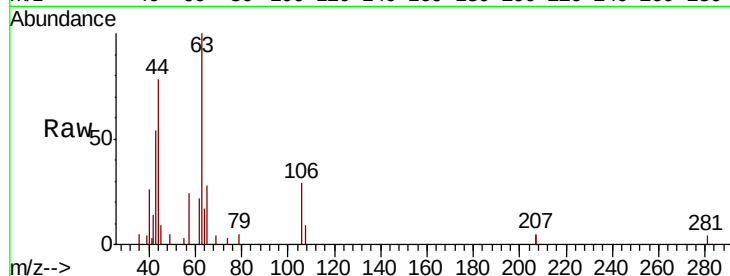




#58  
 2-Chloroethyl Vinyl ether  
 Concen: 2.339 ug/l  
 RT: 9.93 min Scan# 1316  
 Delta R.T. 0.01 min  
 Lab File: VW014561.D  
 Acq: 08 Jan 2020 15:56

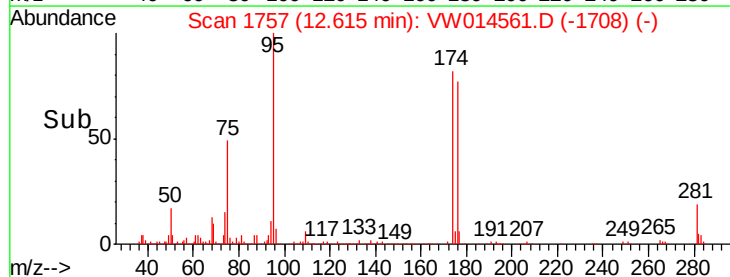
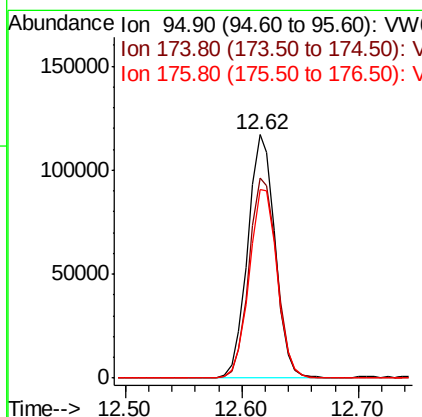
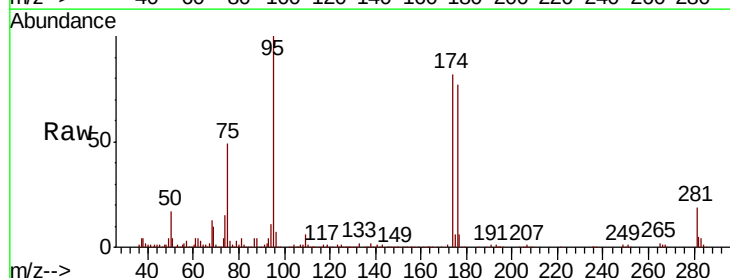
Instrument :  
 MSVOA\_W  
 ClientSampleID :

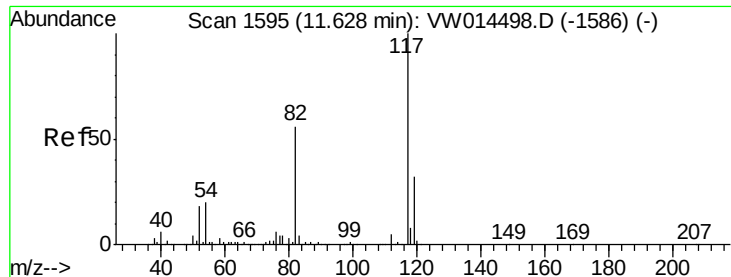
Tot Ion: 63 Resp: 3849  
 Ion Ratio Lower Upper  
 63 100  
 106 26.9 23.0 34.6



#62  
 4-Bromofluorobenzene  
 Concen: 27.449 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.00 min  
 Lab File: VW014561.D  
 Acq: 08 Jan 2020 15:56

Tgt Ion: 95 Resp: 191602  
 Ion Ratio Lower Upper  
 95 100  
 174 84.3 0.0 168.6  
 176 79.7 0.0 162.0

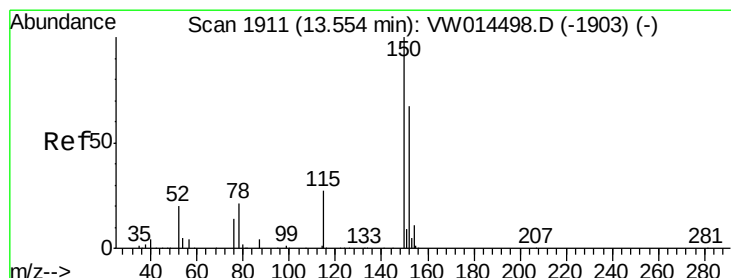
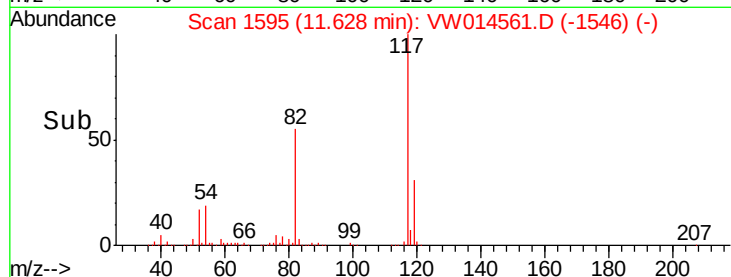
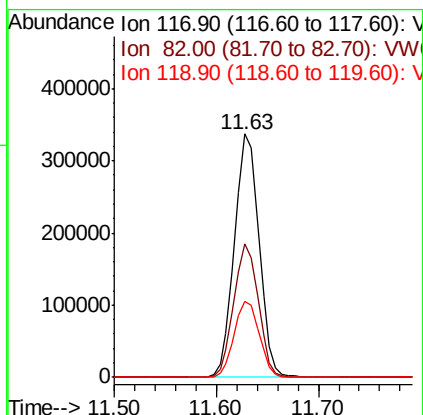
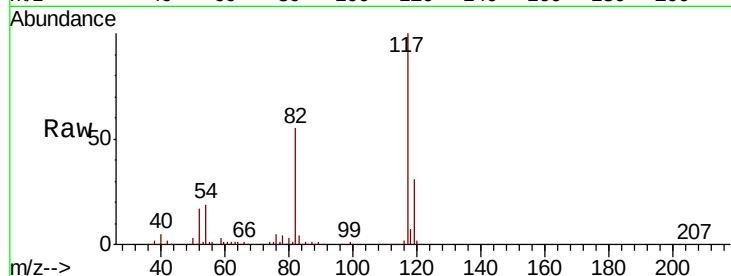




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.00 min  
Lab File: VW014561.D  
Acq: 08 Jan 2020 15:56

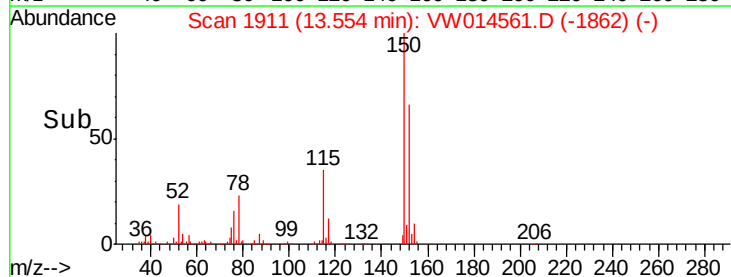
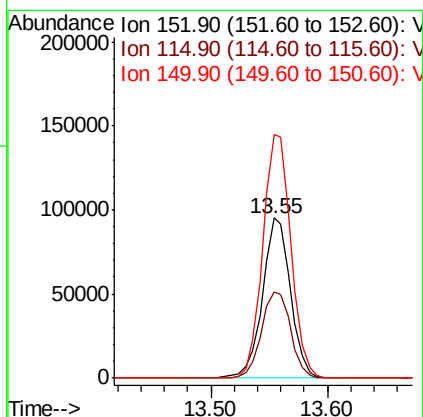
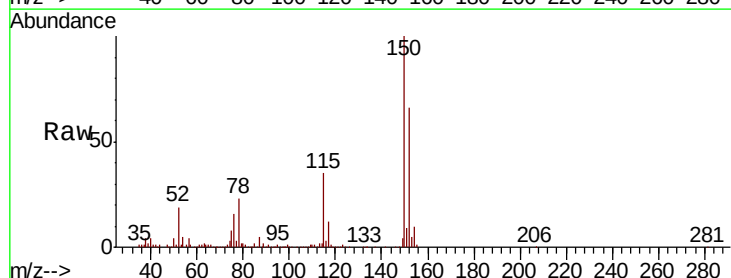
Instrument :  
MSVOA\_W  
ClientSampled :

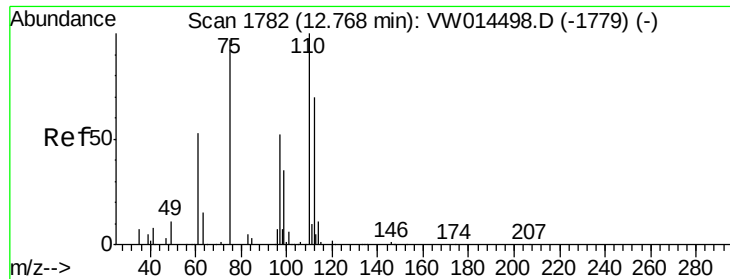
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.9  | 44.6  | 67.0  |
| 119     | 31.3  | 25.7  | 38.5  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.55 min Scan# 1911  
Delta R.T. -0.00 min  
Lab File: VW014561.D  
Acq: 08 Jan 2020 15:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.4  | 27.7  | 83.1  |
| 150     | 152.4 | 0.0   | 343.4 |



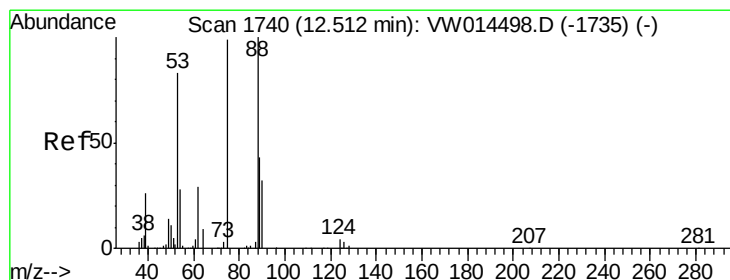
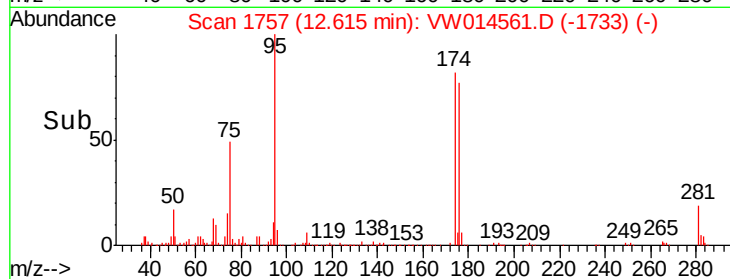
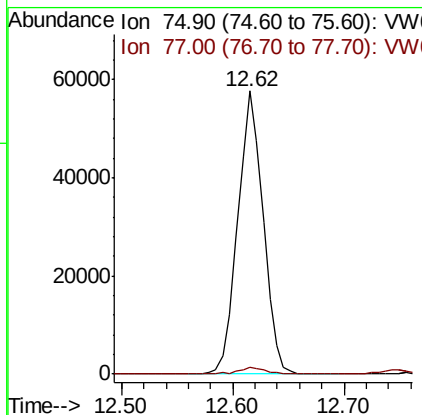
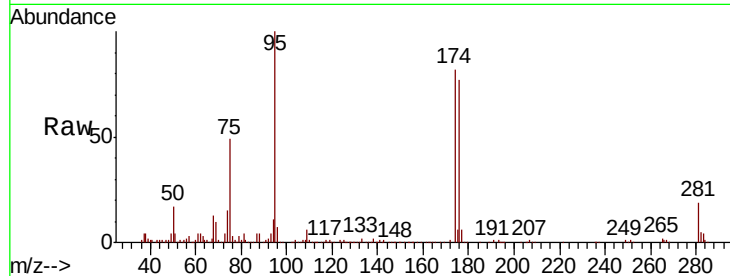


#76

1,2,3-Trichloropropane  
Concen: 60.786 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.15 min  
Lab File: VW014561.D  
Acq: 08 Jan 2020 15:56

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 75 Resp: 91304  
Ion Ratio Lower Upper  
75 100  
77 2.7 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene  
Concen: 135.433 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. 0.10 min  
Lab File: VW014561.D  
Acq: 08 Jan 2020 15:56

Tgt Ion: 75 Resp: 91304  
Ion Ratio Lower Upper  
75 100  
53 2.5 70.9 106.3#  
89 0.0 35.8 53.8#

