

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW020119\  
 Data File : VW008493.D  
 Acq On : 01 Feb 2019 20:24  
 Operator : SY/VA  
 Sample : K1361-02  
 Misc : 4.55G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 FK-BPM-03-006-ABCD

Quant Time: Feb 02 00:47:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W012419S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 25 11:07:41 2019  
 Response via : Initial Calibration

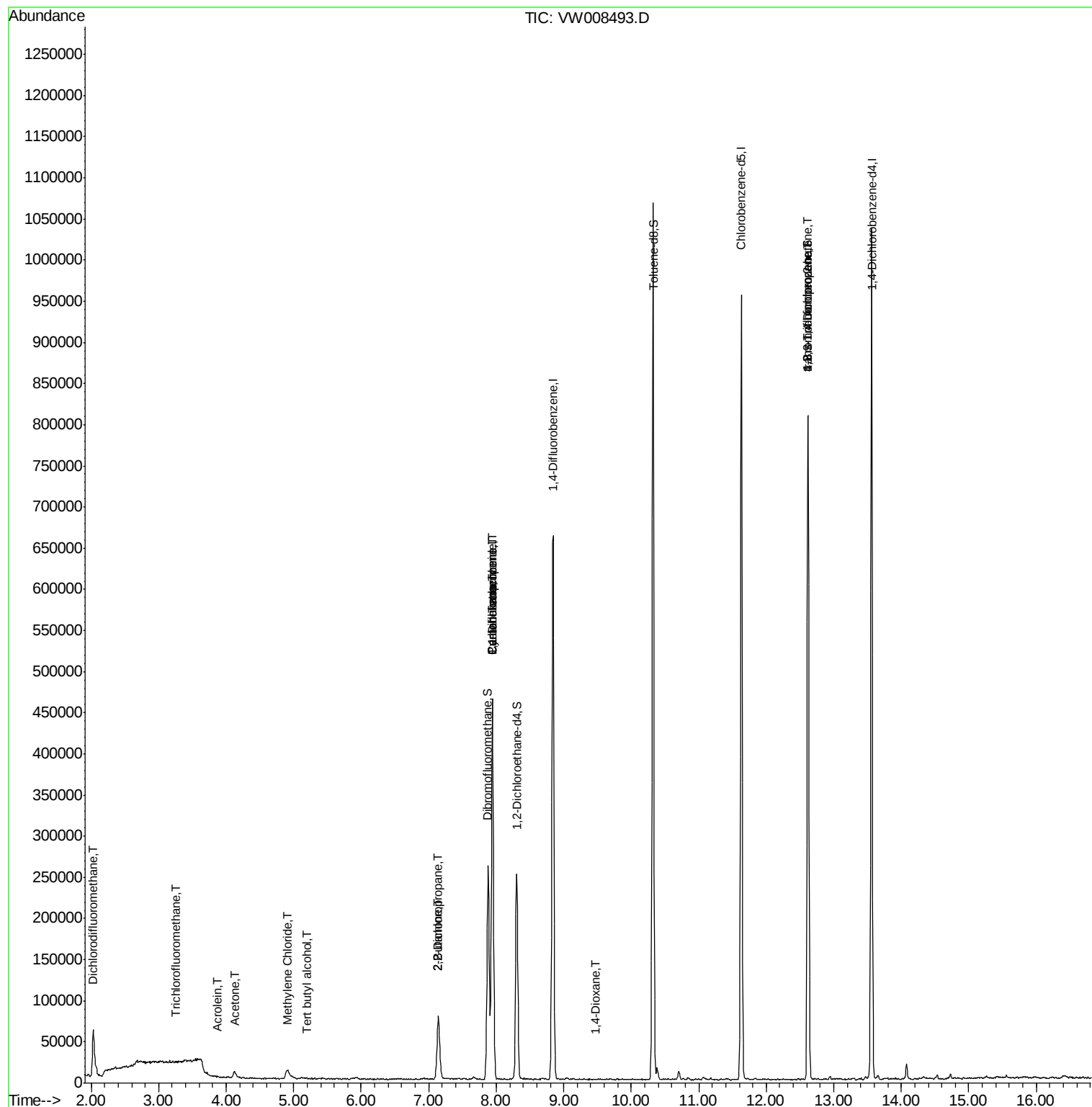
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene          | 7.95  | 168  | 363474   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.84  | 114  | 581289   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.63 | 117  | 534529   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.56 | 152  | 272611   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.31  | 65   | 193161   | 54.09   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 108.18% |          |
| 35) Dibromofluoromethane       | 7.88  | 113  | 183623   | 54.02   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 108.04% |          |
| 50) Toluene-d8                 | 10.32 | 98   | 695523   | 51.03   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 102.06% |          |
| 62) 4-Bromofluorobenzene       | 12.62 | 95   | 265366   | 50.65   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 101.30% |          |
| Target Compounds               |       |      |          |         |         |          |
|                                |       |      |          |         | Qvalue  |          |
| 2) Dichlorodifluoromethane     | 2.03  | 85   | 2114     | 4.193   | ug/l    | 84       |
| 7) Trichlorofluoromethane      | 3.26  | 101  | 153      | 4.767   | ug/l #  | 60       |
| 11) Tert butyl alcohol         | 5.19  | 59   | 1675     | 5.826   | ug/l #  | 70       |
| 13) Acrolein                   | 3.87  | 56   | 181      | 4.887   | ug/l #  | 43       |
| 16) Acetone                    | 4.12  | 43   | 15609    | 19.466  | ug/l    | 96       |
| 20) Methylene Chloride         | 4.90  | 84   | 9281     | 2.511   | ug/l    | 88       |
| 25) 2-Butanone                 | 7.14  | 43   | 4316     | 3.875   | ug/l #  | 84       |
| 26) 2,2-Dichloropropane        | 7.13  | 77   | 5910     | 1.290   | ug/l #  | 55       |
| 31) Cyclohexane                | 7.95  | 56   | 7273     | 1.038   | ug/l #  | 27       |
| 36) 1,1-Dichloropropene        | 7.94  | 75   | 25654    | 4.672   | ug/l #  | 52       |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 35001    | 6.334   | ug/l #  | 16       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 76       | 2.301   | ug/l #  | 56       |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 130147   | 54.911  | ug/l #  | 1        |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 130147   | 108.453 | ug/l #  | 12       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW020119\  
Data File : VW008493.D  
Acq On : 01 Feb 2019 20:24  
Operator : SY/VA  
Sample : K1361-02  
Misc : 4.55G/5ML/MSVOA\_W/SOIL  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-BPM-03-006-ABCD

Quant Time: Feb 02 00:47:18 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W012419S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 25 11:07:41 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: VW008493.D

Acq: 01 Feb 2019 20:24

Instrument :

MSVOA\_W

ClientSampleId :

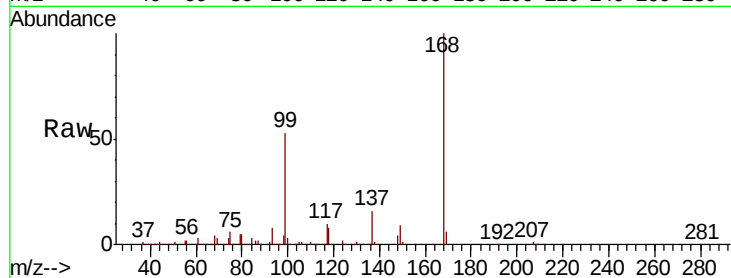
FK-BPM-03-006-ABCD

Tgt Ion: 168 Resp: 363474

Ion Ratio Lower Upper

168 100

99 52.6 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

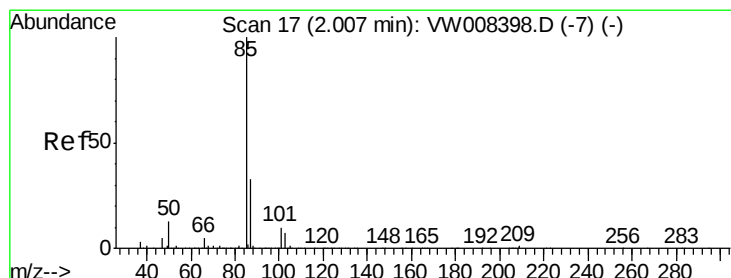
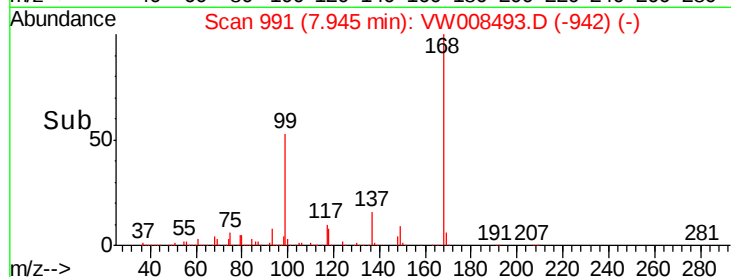
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 4.193 ug/l

RT: 2.03 min Scan# 20

Delta R.T. 0.02 min

Lab File: VW008493.D

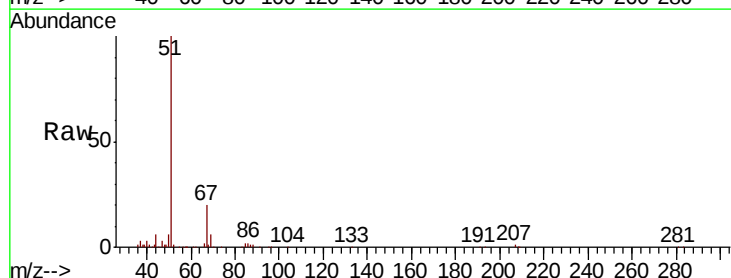
Acq: 01 Feb 2019 20:24

Tgt Ion: 85 Resp: 2114

Ion Ratio Lower Upper

85 100

87 42.3 16.7 50.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.03

1000

800

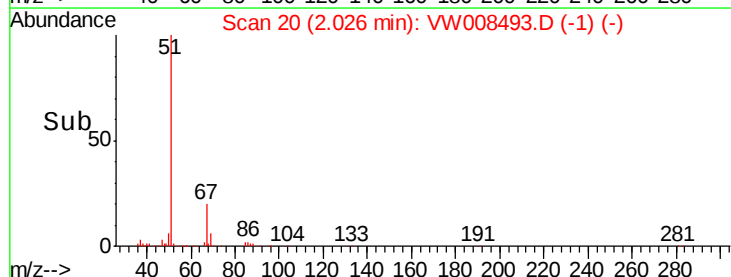
600

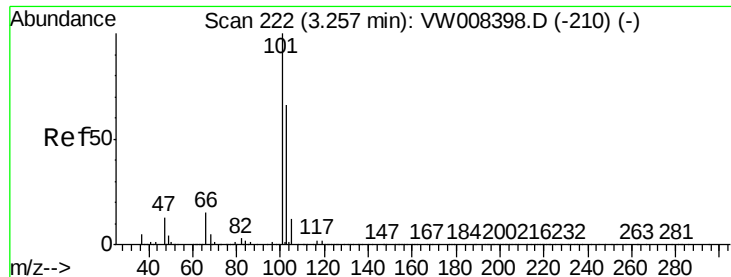
400

200

0

Time-->



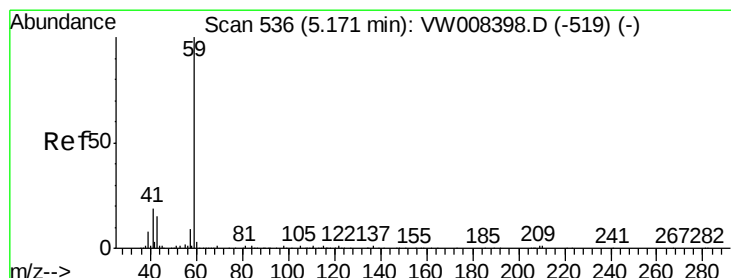
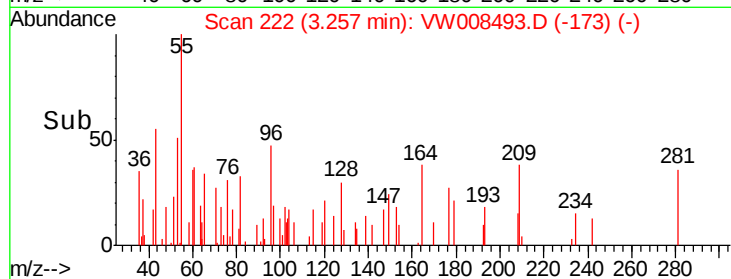
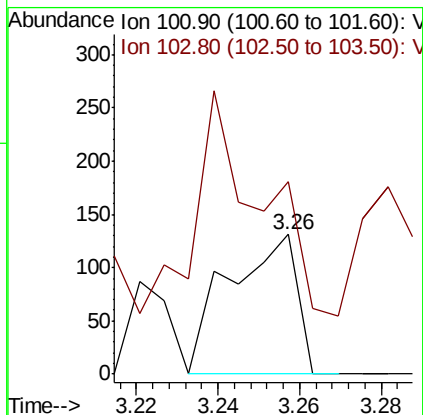
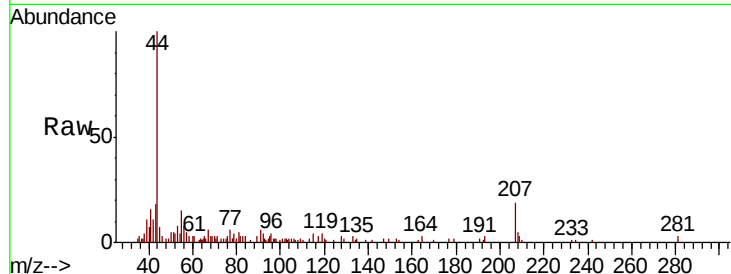


#7

Trichlorofluoromethane  
Concen: 4.767 ug/l  
RT: 3.26 min Scan# 222  
Delta R.T. 0.00 min  
Lab File: VW008493.D  
Acq: 01 Feb 2019 20:24

Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-BPM-03-006-ABCD

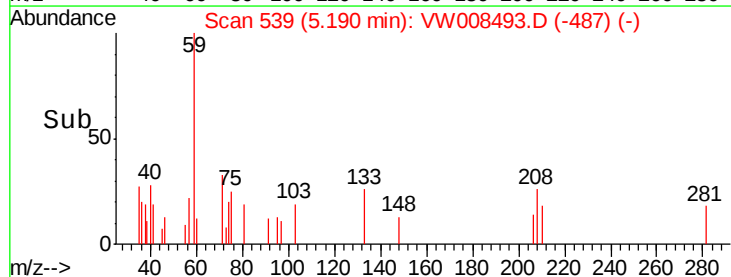
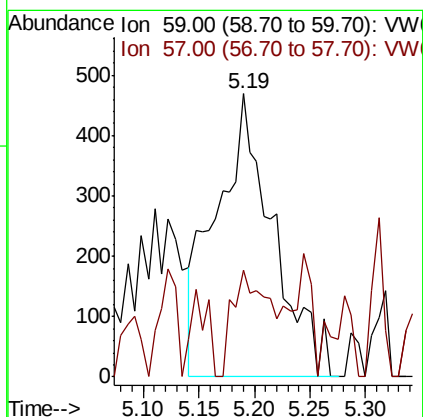
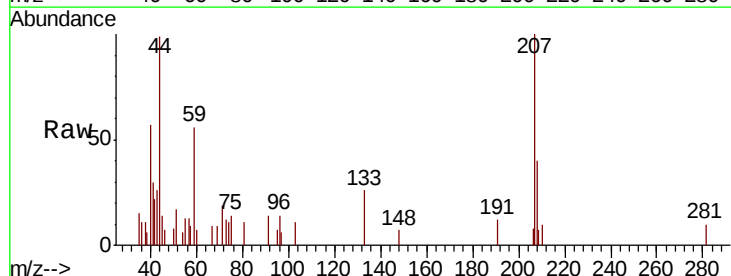
Tgt Ion: 101 Resp: 153  
Ion Ratio Lower Upper  
101 100  
103 96.9 52.5 78.7#

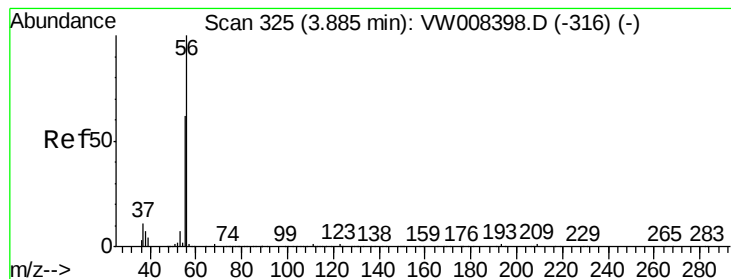


#11

Tert butyl alcohol  
Concen: 5.826 ug/l  
RT: 5.19 min Scan# 539  
Delta R.T. 0.02 min  
Lab File: VW008493.D  
Acq: 01 Feb 2019 20:24

Tgt Ion: 59 Resp: 1675  
Ion Ratio Lower Upper  
59 100  
57 23.2 9.3 13.9#





#13

Acrolein

Concen: 4.887 ug/l

RT: 3.87 min Scan# 323

Delta R.T. -0.01 min

Lab File: VW008493.D

Acq: 01 Feb 2019 20:24

Instrument :

MSVOA\_W

ClientSampleId :

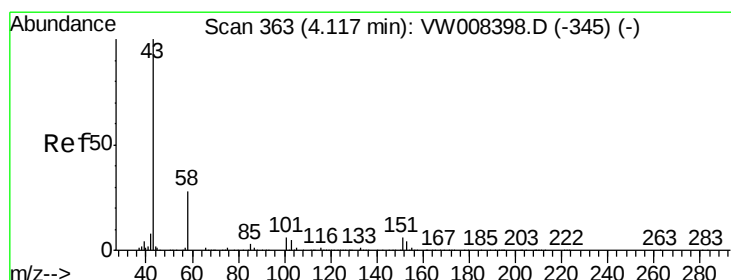
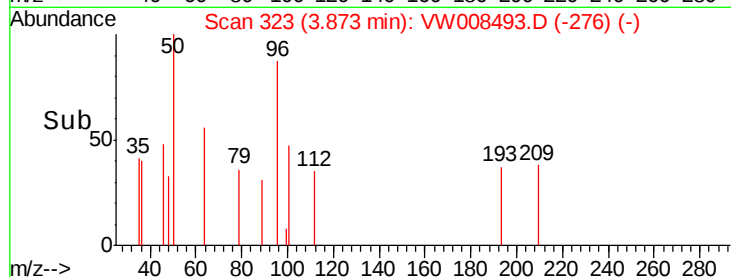
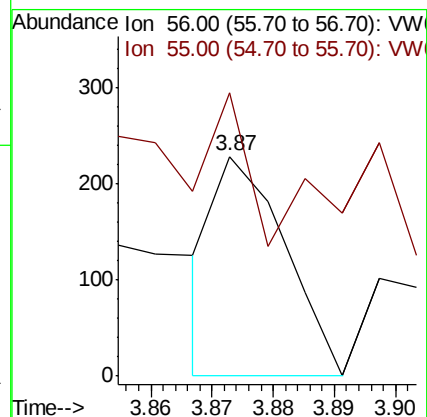
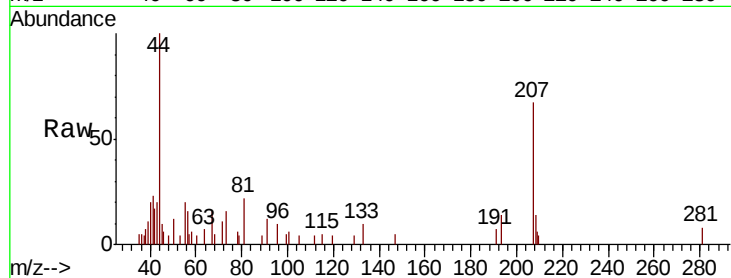
FK-BPM-03-006-ABCD

Tgt Ion: 56 Resp: 181

Ion Ratio Lower Upper

56 100

55 117.7 56.7 85.1#



#16

Acetone

Concen: 19.466 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW008493.D

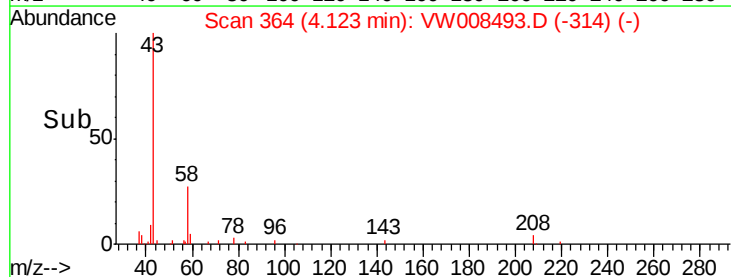
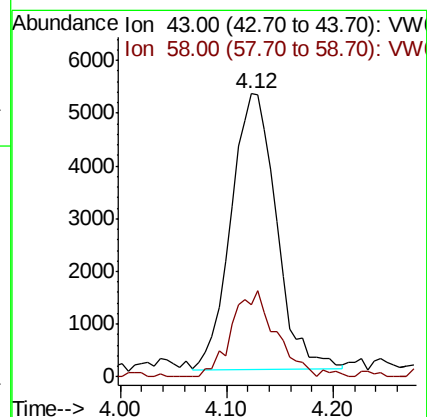
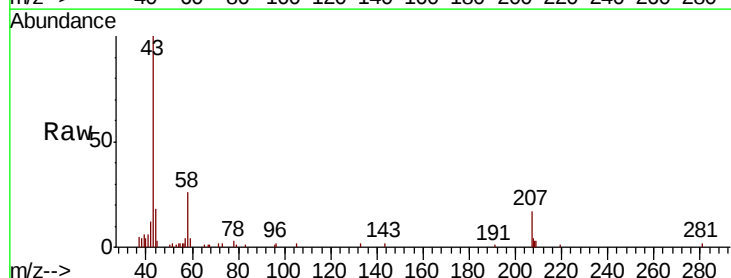
Acq: 01 Feb 2019 20:24

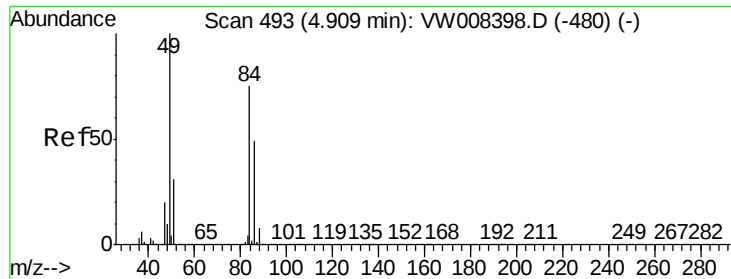
Tgt Ion: 43 Resp: 15609

Ion Ratio Lower Upper

43 100

58 26.4 22.6 34.0

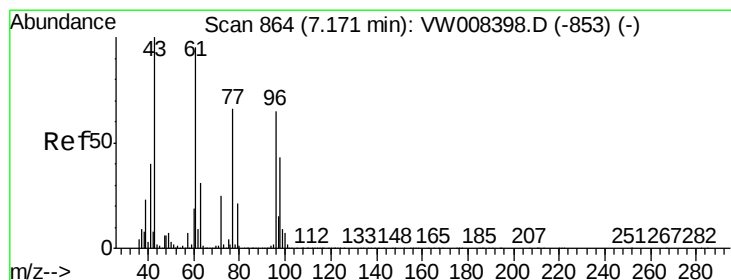
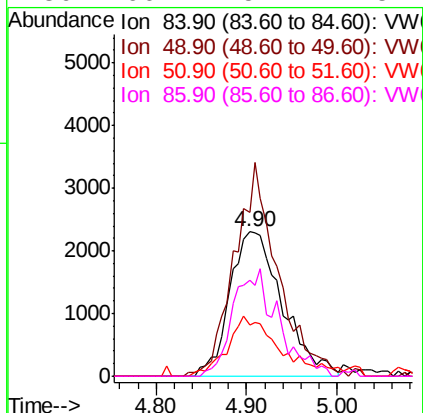
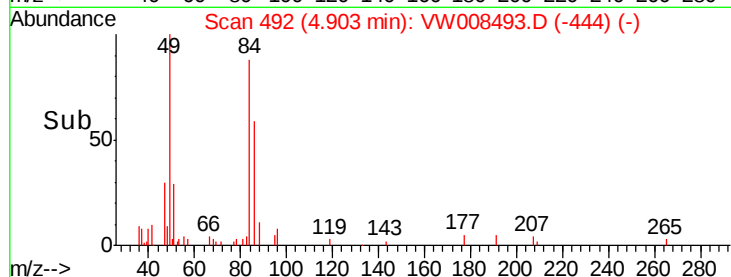
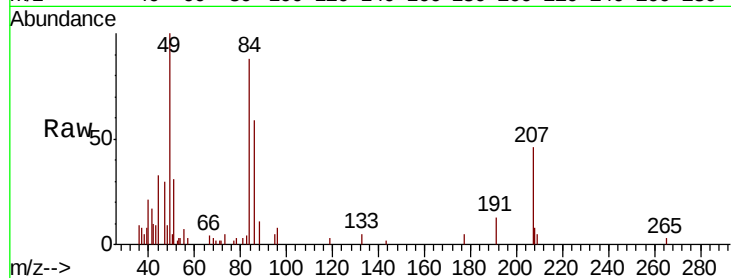




#20  
Methylene Chloride  
Concen: 2.511 ug/l  
RT: 4.90 min Scan# 492  
Delta R.T. -0.01 min  
Lab File: VW008493.D  
Acq: 01 Feb 2019 20:24

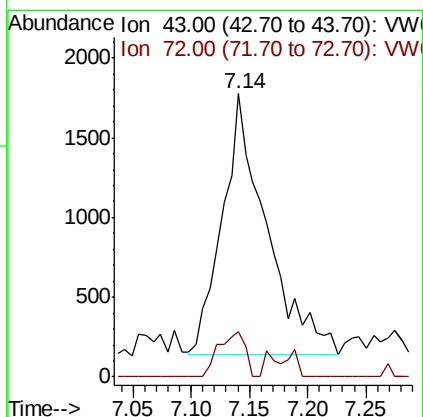
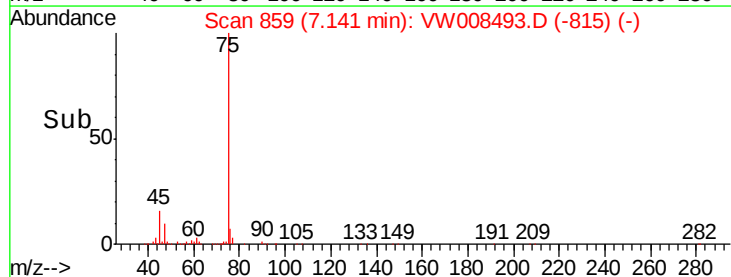
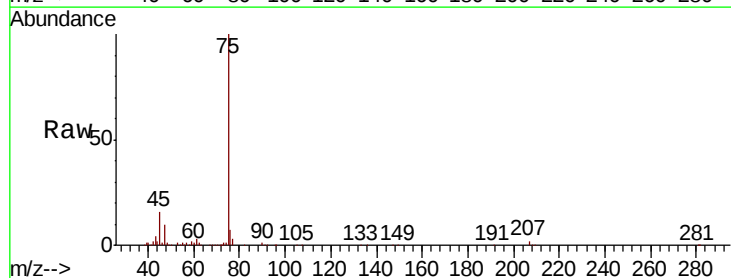
Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-BPM-03-006-ABCD

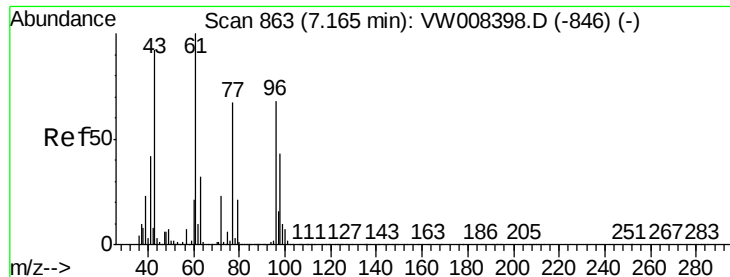
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 9281  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 111.5 | 106.8 | 160.2 |
| 51       | 35.8  | 32.9  | 49.3  |
| 86       | 66.7  | 52.2  | 78.2  |



#25  
2-Butanone  
Concen: 3.875 ug/l  
RT: 7.14 min Scan# 859  
Delta R.T. -0.03 min  
Lab File: VW008493.D  
Acq: 01 Feb 2019 20:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4316  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 17.3  | 20.1  | 30.1# |





#26

2,2-Dichloropropane

Concen: 1.290 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW008493.D

Acq: 01 Feb 2019 20:24

Instrument :

MSVOA\_W

ClientSampleId :

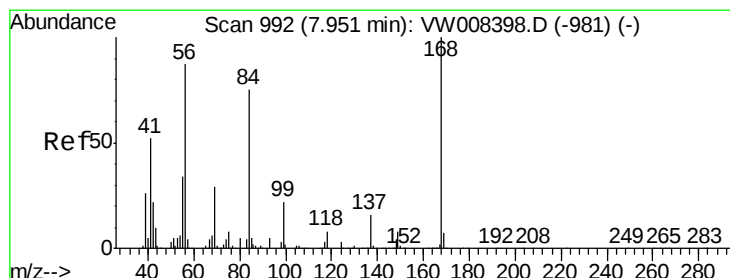
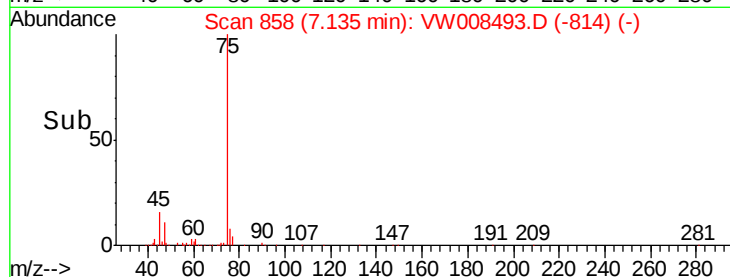
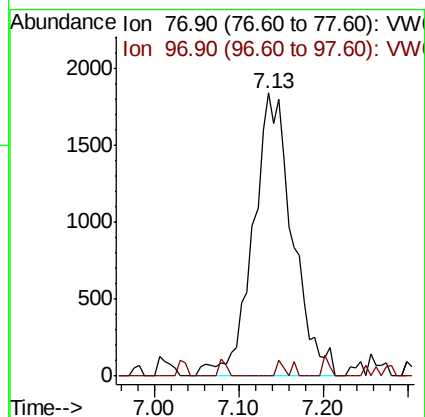
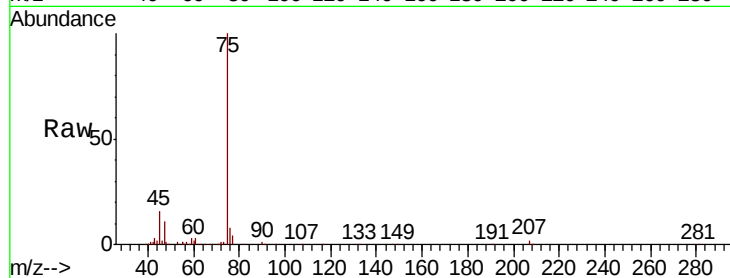
FK-BPM-03-006-ABCD

Tgt Ion: 77 Resp: 5910

Ion Ratio Lower Upper

77 100

97 1.0 11.5 34.5#



#31

Cyclohexane

Concen: 1.038 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008493.D

Acq: 01 Feb 2019 20:24

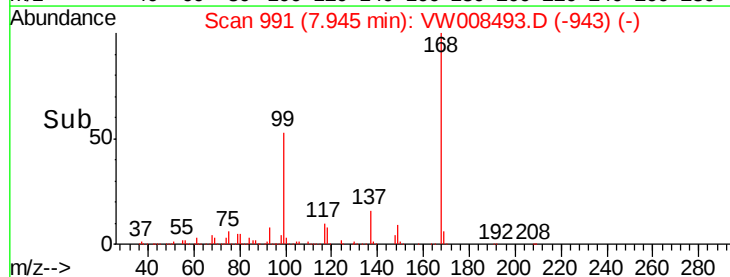
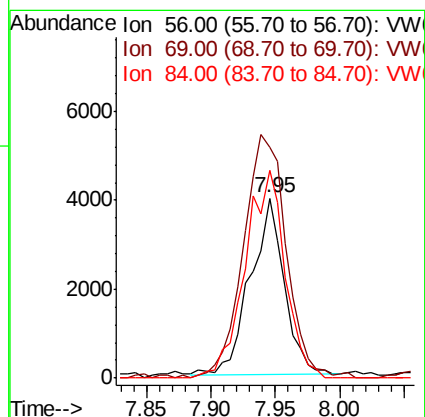
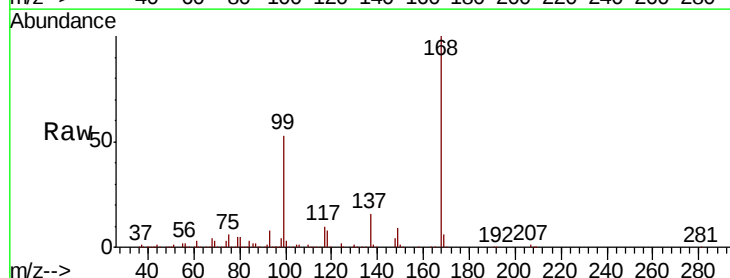
Tgt Ion: 56 Resp: 7273

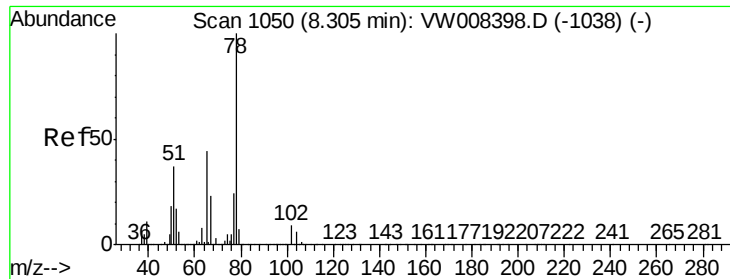
Ion Ratio Lower Upper

56 100

69 131.2 26.4 39.6#

84 118.3 69.1 103.7#

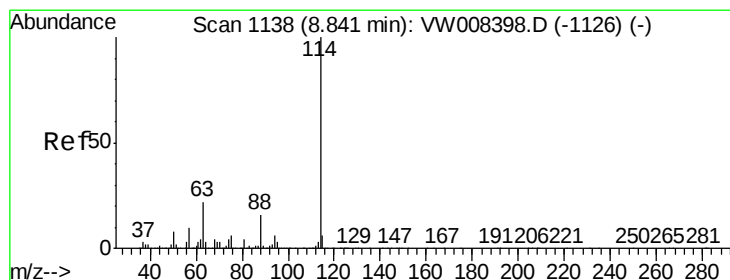
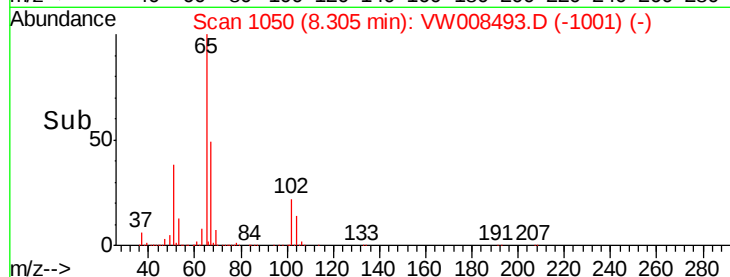
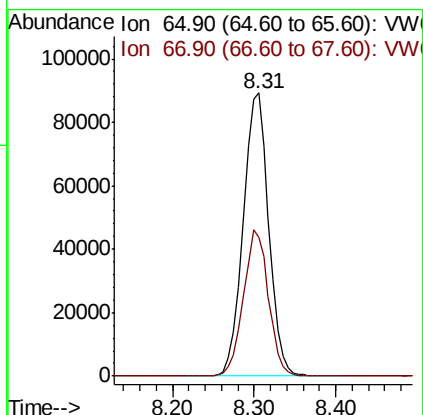
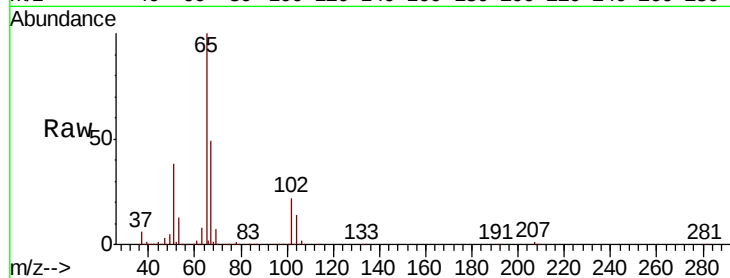




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.095 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW008493.D  
 Acq: 01 Feb 2019 20:24

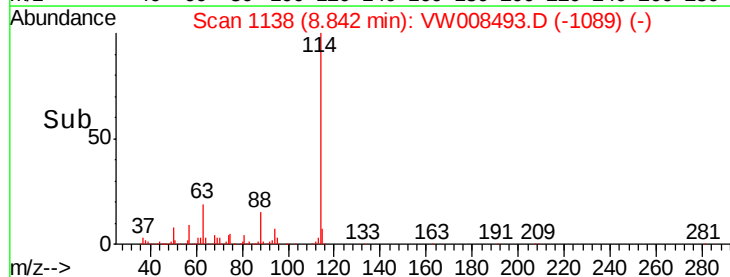
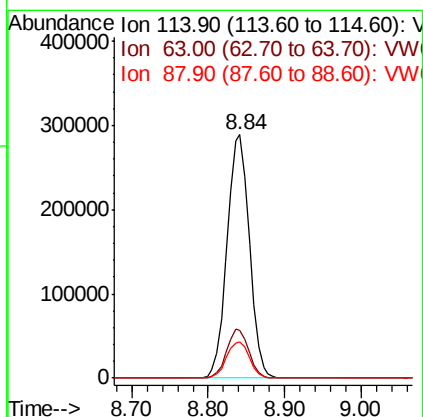
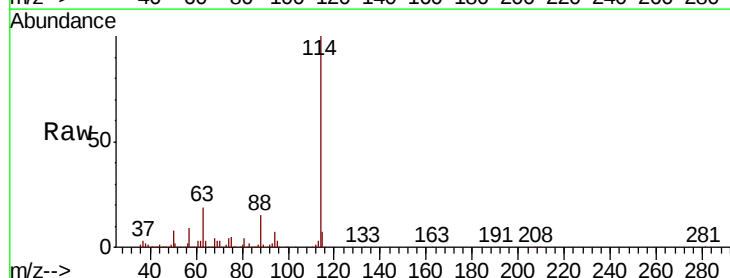
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 FK-BPM-03-006-ABCD

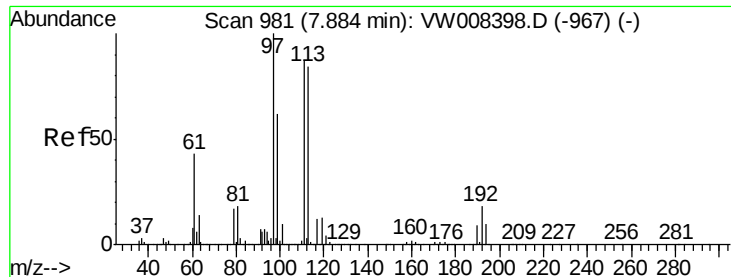
Tgt Ion: 65 Resp: 193161  
 Ion Ratio Lower Upper  
 65 100  
 67 51.1 0.0 104.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW008493.D  
 Acq: 01 Feb 2019 20:24

Tgt Ion: 114 Resp: 581289  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 0.0 43.6  
 88 15.0 0.0 31.8

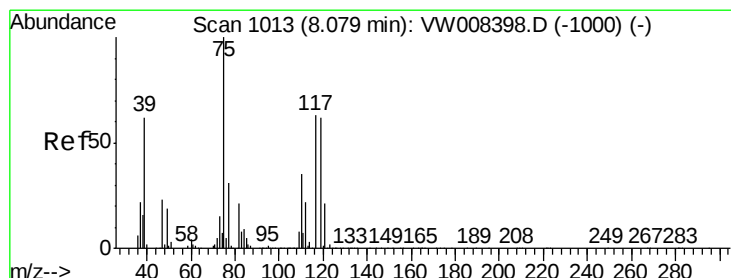
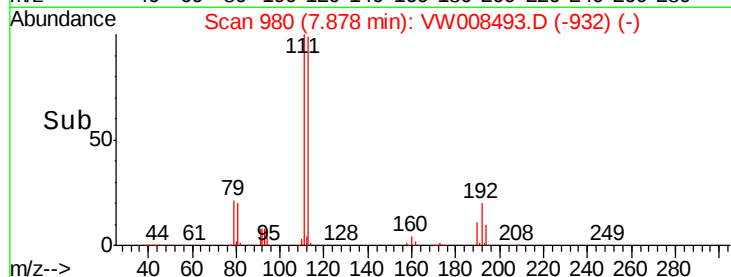
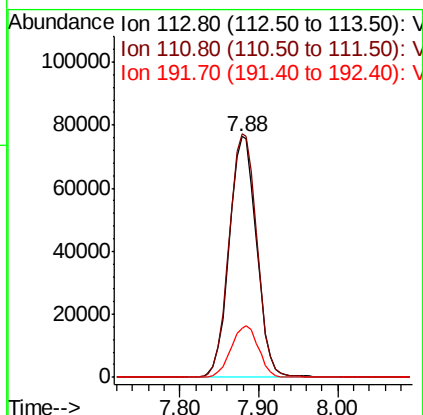
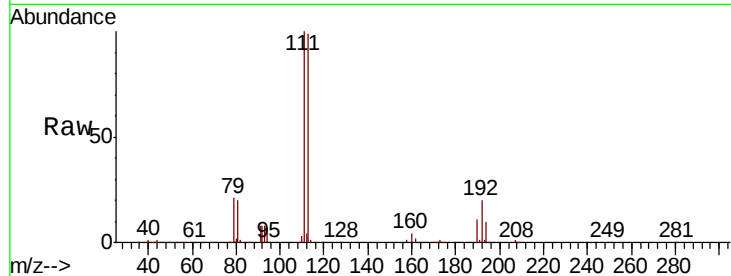




#35  
Dibromofluoromethane  
Concen: 54.023 ug/l  
RT: 7.88 min Scan# 980  
Delta R.T. -0.01 min  
Lab File: VW008493.D  
Acq: 01 Feb 2019 20:24

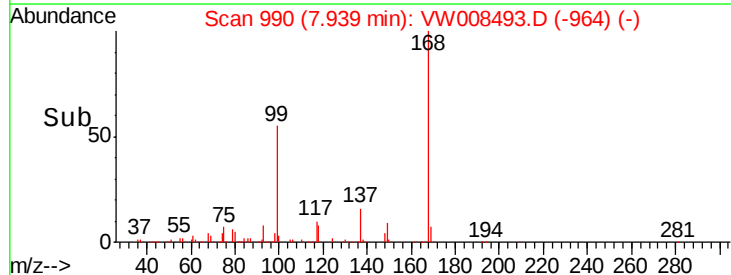
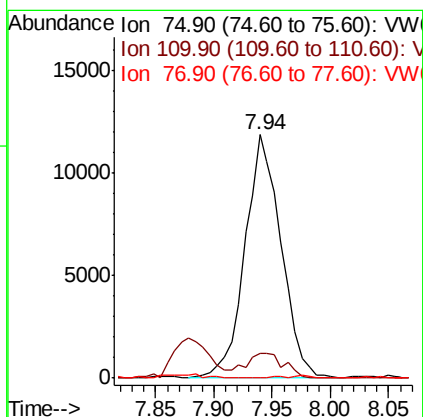
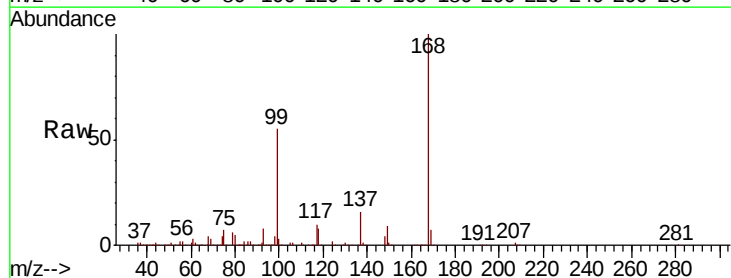
Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-BPM-03-006-ABCD

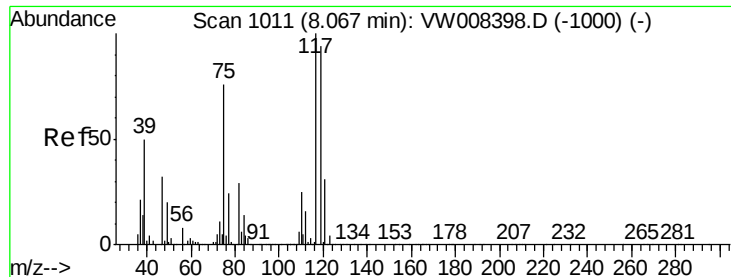
Tgt Ion: 113 Resp: 183623  
Ion Ratio Lower Upper  
113 100  
111 102.8 81.0 121.4  
192 21.4 16.8 25.2



#36  
1,1-Dichloropropene  
Concen: 4.672 ug/l  
RT: 7.94 min Scan# 990  
Delta R.T. -0.14 min  
Lab File: VW008493.D  
Acq: 01 Feb 2019 20:24

Tgt Ion: 75 Resp: 25654  
Ion Ratio Lower Upper  
75 100  
110 10.7 17.3 52.0#  
77 0.2 24.7 37.1#

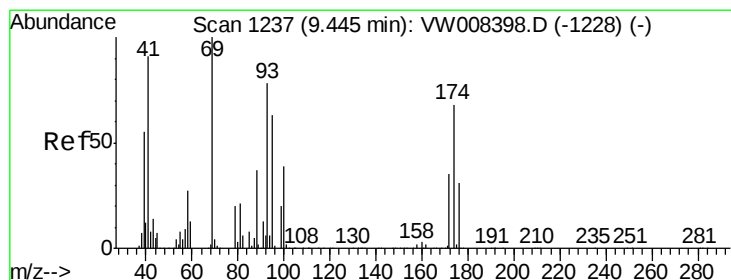
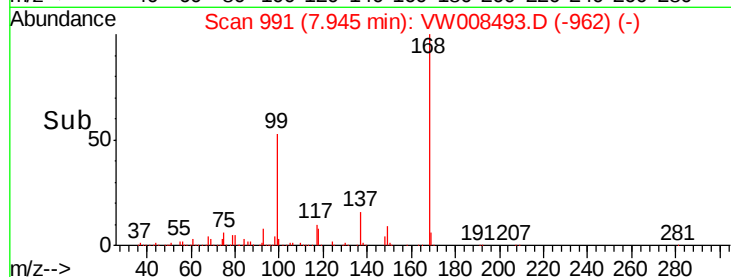
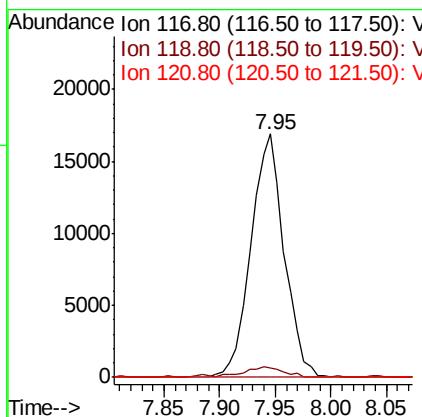
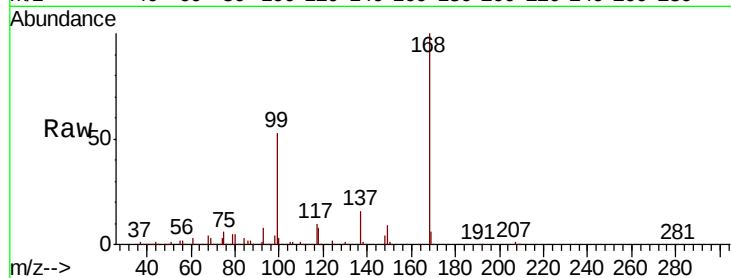




#38  
Carbon Tetrachloride  
Concen: 6.334 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.12 min  
Lab File: VW008493.D  
Acq: 01 Feb 2019 20:24

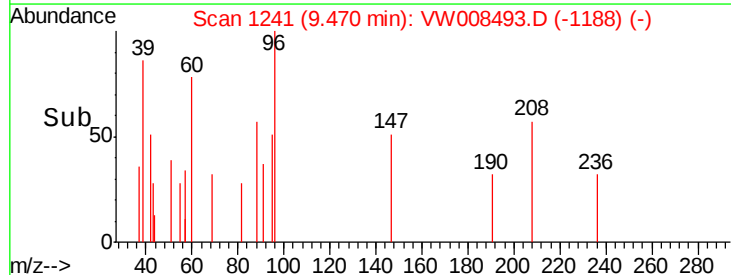
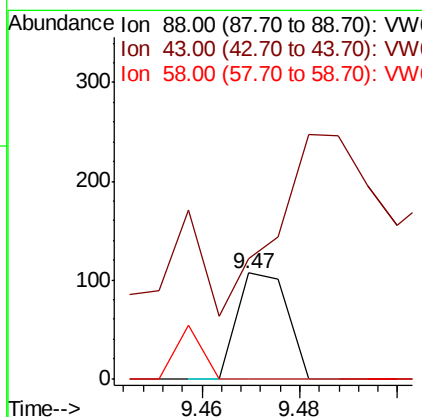
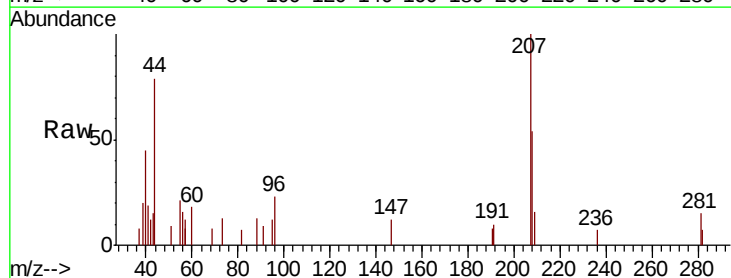
Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-BPM-03-006-ABCD

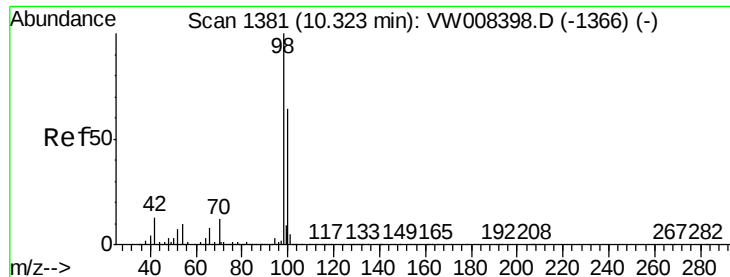
Tgt Ion: 117 Resp: 35001  
Ion Ratio Lower Upper  
117 100  
119 3.6 75.0 112.4#  
121 0.0 24.9 37.3#



#49  
1,4-Dioxane  
Concen: 2.301 ug/l  
RT: 9.47 min Scan# 1241  
Delta R.T. 0.02 min  
Lab File: VW008493.D  
Acq: 01 Feb 2019 20:24

Tgt Ion: 88 Resp: 76  
Ion Ratio Lower Upper  
88 100  
43 51.3 29.0 43.4#  
58 26.3 56.4 84.6#





#50

Toluene-d8

Concen: 51.028 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008493.D

Acq: 01 Feb 2019 20:24

Instrument :

MSVOA\_W

ClientSampleId :

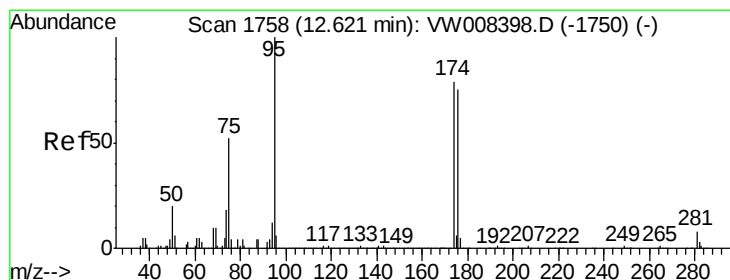
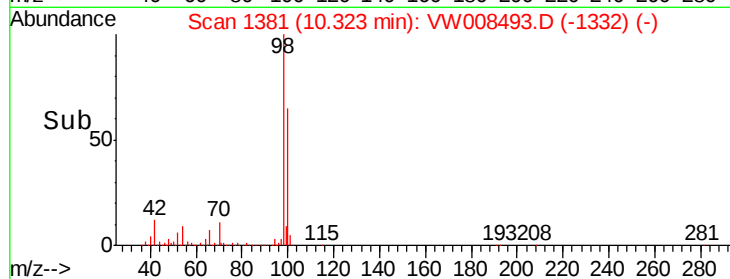
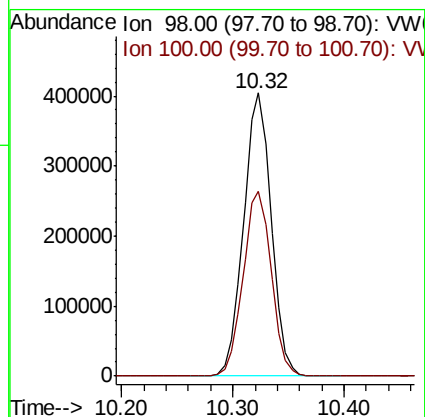
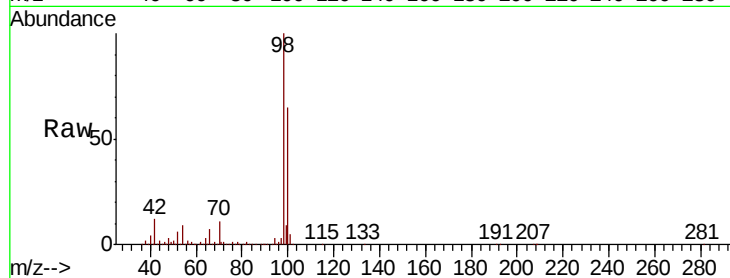
FK-BPM-03-006-ABCD

Tgt Ion: 98 Resp: 695523

Ion Ratio Lower Upper

98 100

100 66.3 52.6 78.8



#62

4-Bromofluorobenzene

Concen: 50.650 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW008493.D

Acq: 01 Feb 2019 20:24

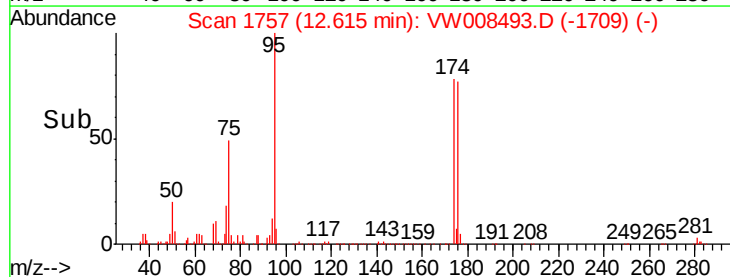
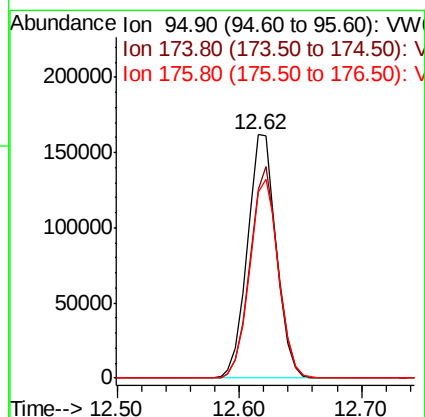
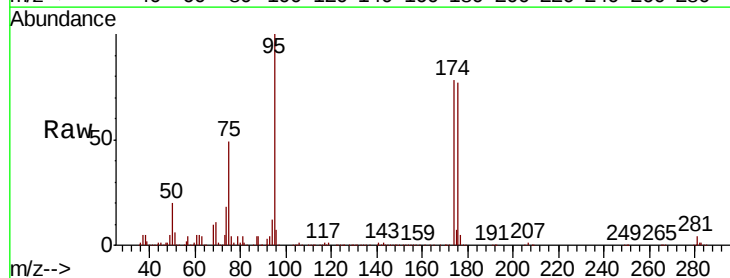
Tgt Ion: 95 Resp: 265366

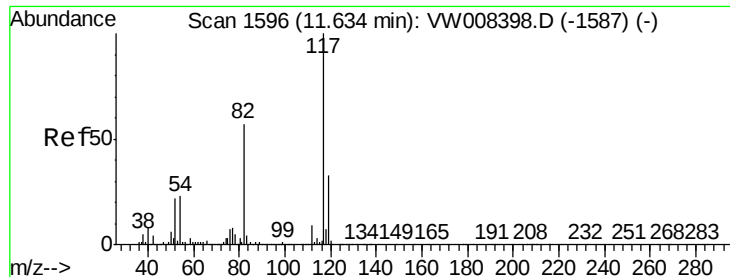
Ion Ratio Lower Upper

95 100

174 84.2 0.0 157.6

176 81.8 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008493.D

Acq: 01 Feb 2019 20:24

Instrument :

MSVOA\_W

ClientSampleId :

FK-BPM-03-006-ABCD

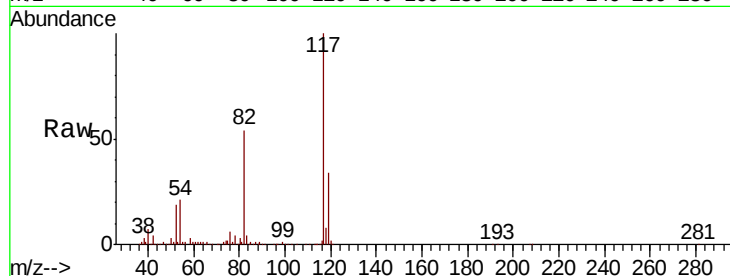
Tgt Ion:117 Resp: 534529

Ion Ratio Lower Upper

117 100

82 54.4 45.4 68.0

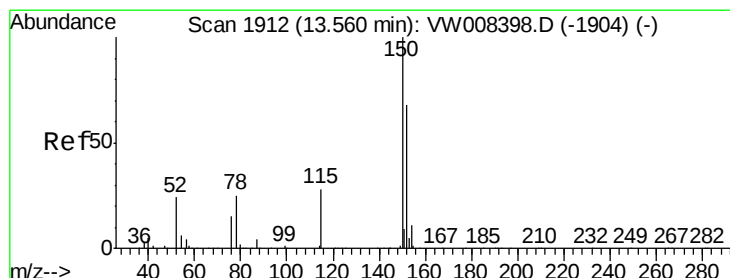
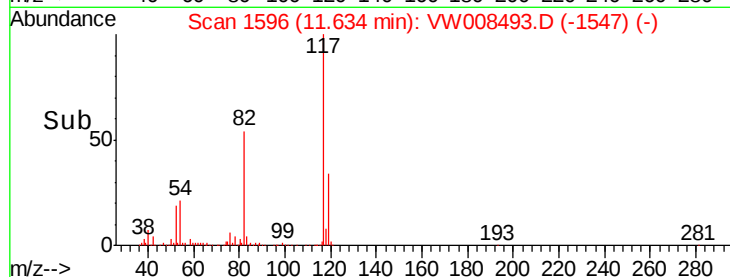
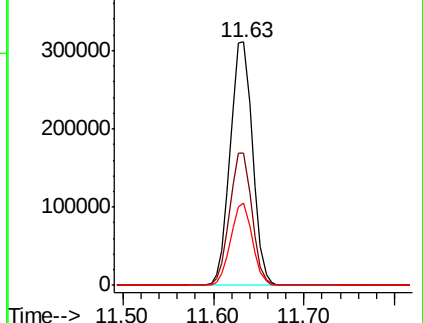
119 33.6 26.2 39.4



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: VW008493.D

Acq: 01 Feb 2019 20:24

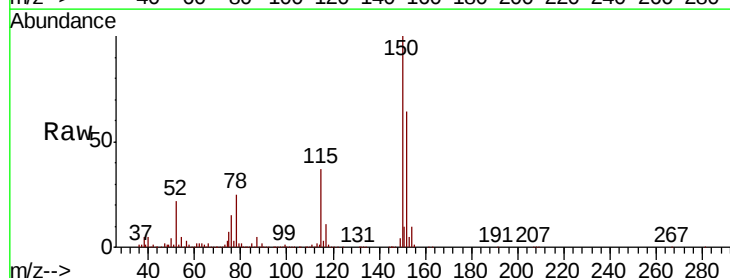
Tgt Ion:152 Resp: 272611

Ion Ratio Lower Upper

152 100

115 57.4 29.9 89.7

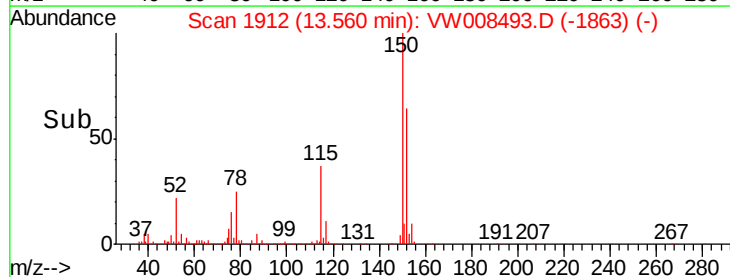
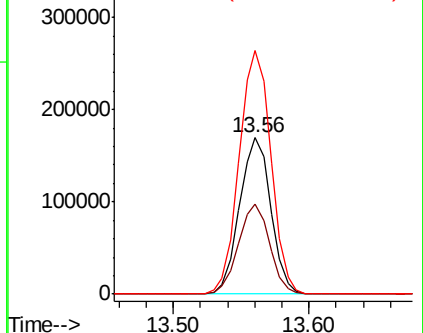
150 158.3 0.0 351.4

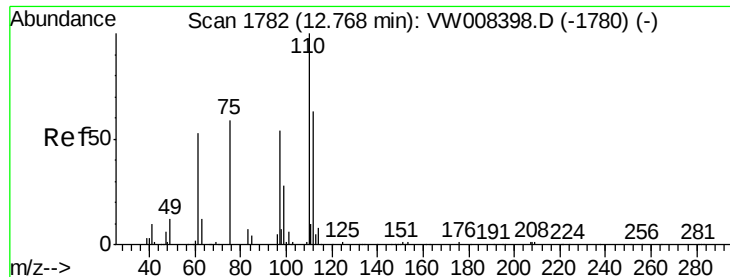


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 54.911 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW008493.D

Acq: 01 Feb 2019 20:24

Instrument :

MSVOA\_W

ClientSampleId :

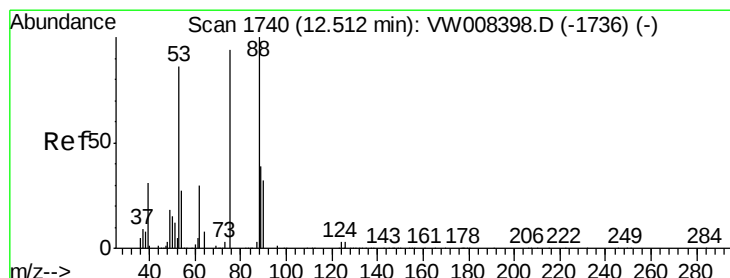
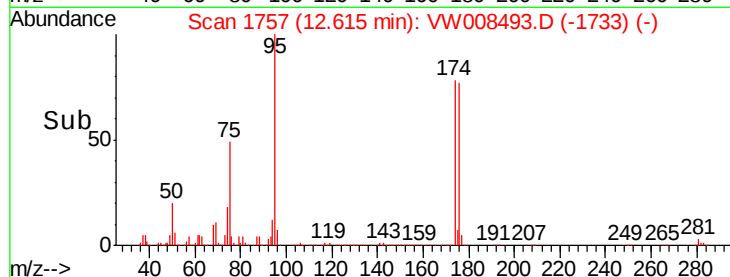
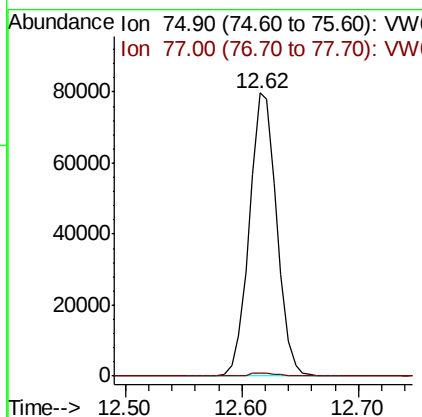
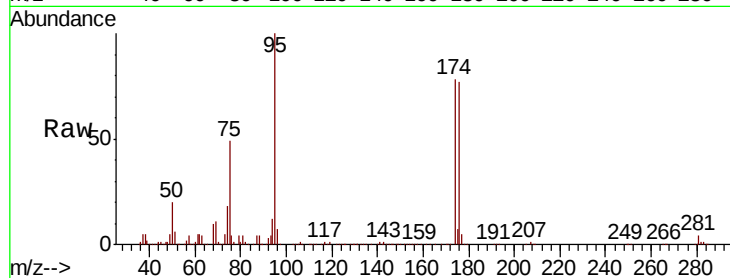
FK-BPM-03-006-ABCD

Tgt Ion: 75 Resp: 130147

Ion Ratio Lower Upper

75 100

77 1.4 180.7 542.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 108.453 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW008493.D

Acq: 01 Feb 2019 20:24

Tgt Ion: 75 Resp: 130147

Ion Ratio Lower Upper

75 100

53 0.1 76.0 114.0#

89 0.1 35.4 53.0#

