

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011619\  
 Data File : VW008313.D  
 Acq On : 16 Jan 2019 17:23  
 Operator : SY/VA  
 Sample : K1156-02  
 Misc : 5.47G/5ML/MSVOA W/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VOC-9

Quant Time: Jan 17 05:04:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 09 04:40:48 2019  
 Response via : Initial Calibration

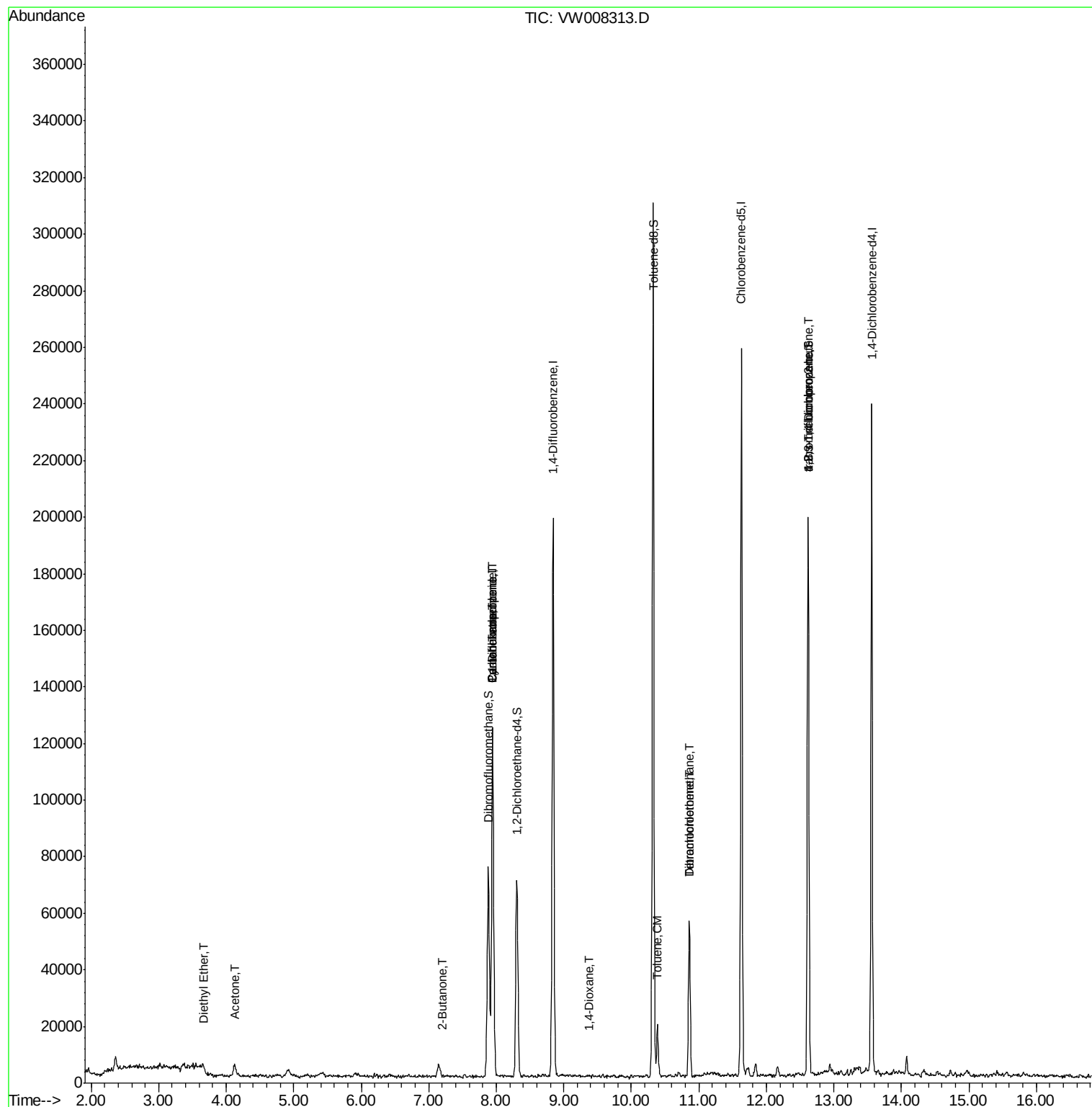
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.95  | 168  | 90713    | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.84  | 114  | 162824   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.63 | 117  | 141968   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.56 | 152  | 59454    | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.31  | 65   | 54191    | 53.15     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 106.30% |          |
| 35) Dibromofluoromethane       | 7.88  | 113  | 52090    | 54.85     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 109.70% |          |
| 50) Toluene-d8                 | 10.32 | 98   | 202087   | 50.71     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 101.42% |          |
| 62) 4-Bromofluorobenzene       | 12.62 | 95   | 64125    | 44.88     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 89.76%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 8) Diethyl Ether               | 3.67  | 74   | 729      | 1.265     | ug/l    | 78       |
| 11) Tert butyl alcohol         | 5.26  | 59   | 299      | Below Cal | #       | 100      |
| 16) Acetone                    | 4.12  | 43   | 7645     | 22.467    | ug/l    | 98       |
| 20) Methylene Chloride         | 4.92  | 84   | 1111     | Below Cal | #       | 37       |
| 25) 2-Butanone                 | 7.20  | 43   | 395      | 1.392     | ug/l #  | 84       |
| 31) Cyclohexane                | 7.95  | 56   | 2255     | 1.051     | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 7328     | 4.369     | ug/l #  | 50       |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 9108     | 5.933     | ug/l #  | 18       |
| 49) 1,4-Dioxane                | 9.37  | 88   | 51       | 5.725     | ug/l #  | 54       |
| 52) Toluene                    | 10.39 | 92   | 7459     | 2.567     | ug/l    | 95       |
| 60) Dibromochloromethane       | 10.86 | 129  | 10489    | 12.281    | ug/l #  | 11       |
| 64) Tetrachloroethene          | 10.86 | 164  | 11807    | 12.779    | ug/l    | 95       |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 31608    | 58.319    | ug/l #  | 1        |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 31608    | 135.806   | ug/l #  | 11       |

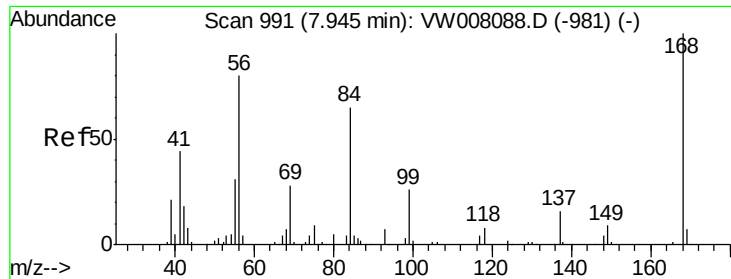
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW011619\  
Data File : VW008313.D  
Acq On : 16 Jan 2019 17:23  
Operator : SY/VA  
Sample : K1156-02  
Misc : 5.47G/5ML/MSVOA W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VOC-9

Quant Time: Jan 17 05:04:32 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jan 09 04:40:48 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: VW008313.D

Acq: 16 Jan 2019 17:23

Instrument :

MSVOA\_W

ClientSampleId :

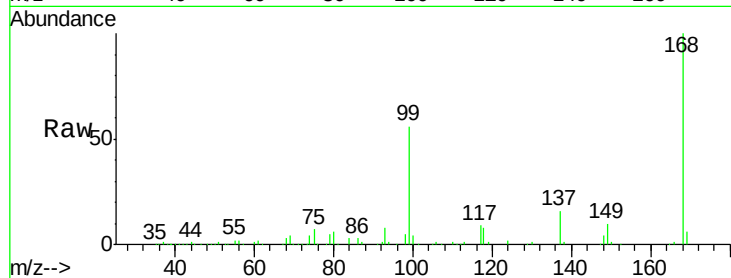
VOC-9

Tot Ion:168 Resp: 90713

Ion Ratio Lower Upper

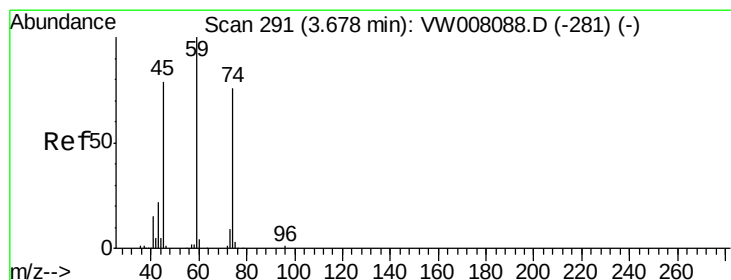
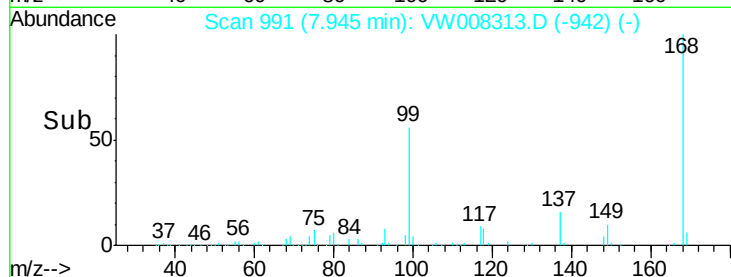
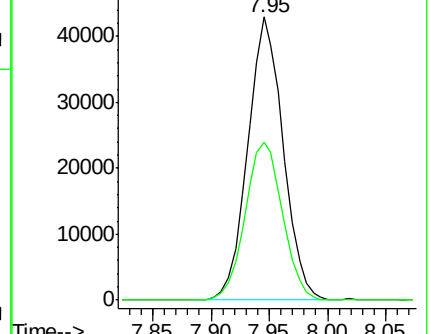
168 100

99 55.8 52.6 78.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.265 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW008313.D

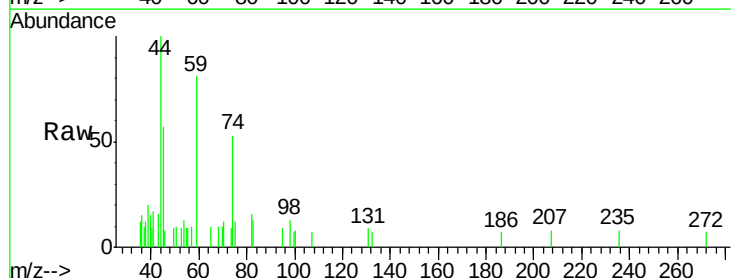
Acq: 16 Jan 2019 17:23

Tgt Ion: 74 Resp: 729

Ion Ratio Lower Upper

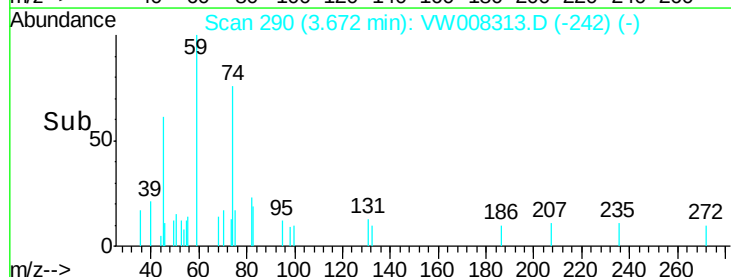
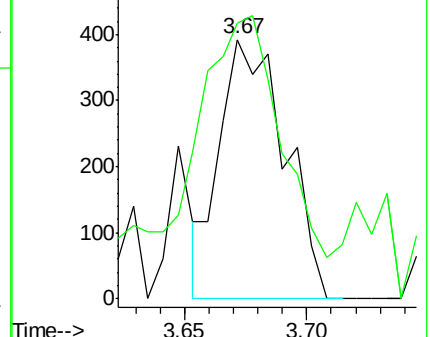
74 100

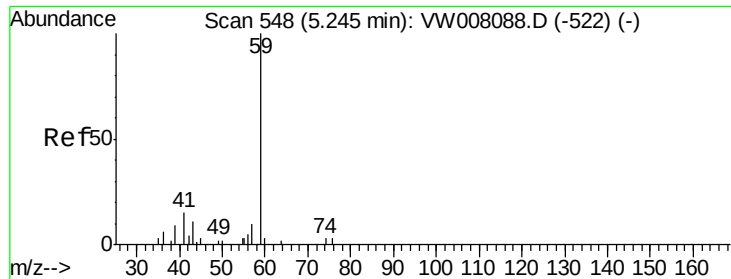
45 127.0 52.4 157.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



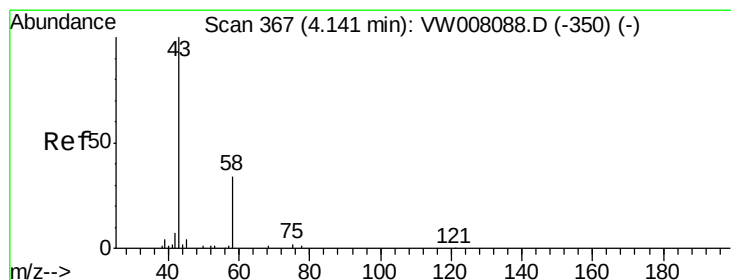
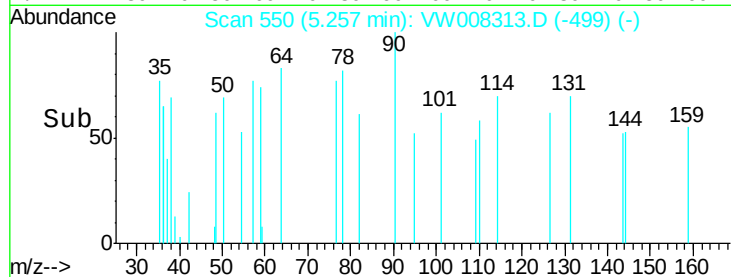
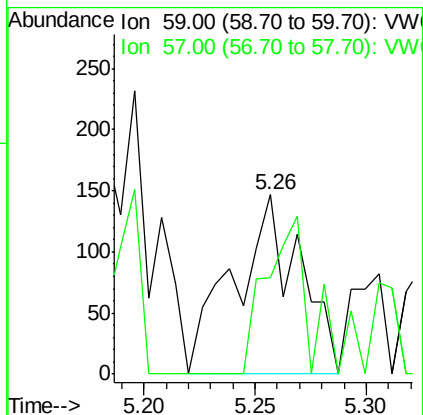
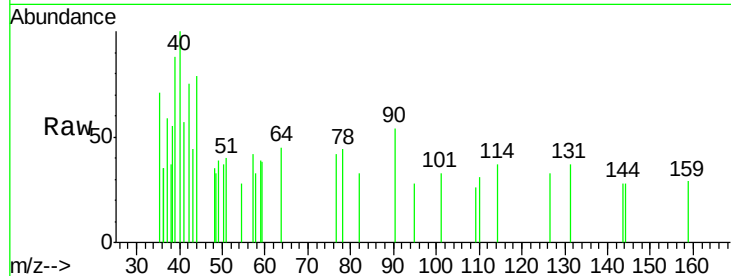


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.26 min Scan# 550  
 Delta R.T. 0.01 min  
 Lab File: VW008313.D  
 Acq: 16 Jan 2019 17:23

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 VOC-9

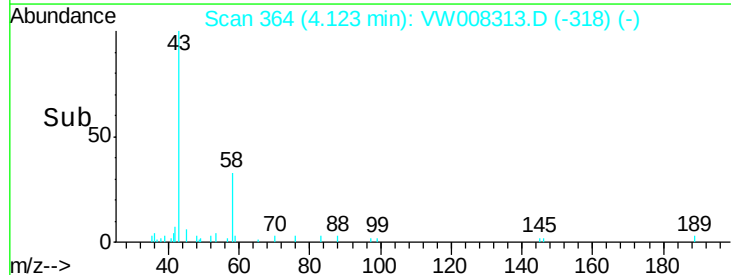
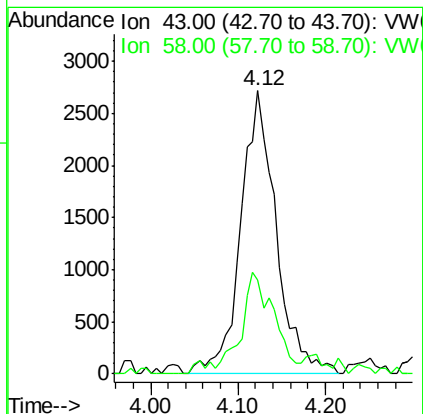
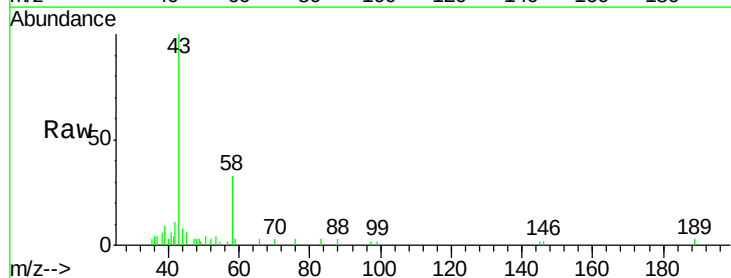
Tot Ion: 59 Resp: 299  
 Ion Ratio Lower Upper  
 59 100  
 57 56.9 0.0 0.0#

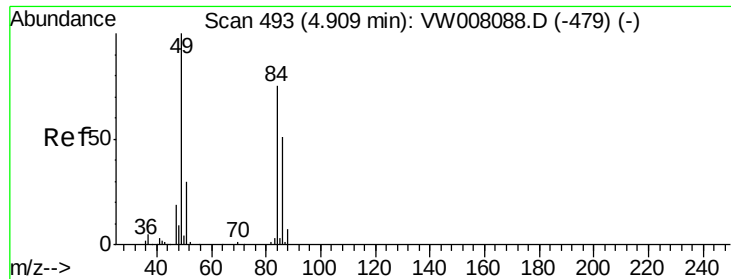


#16

Acetone  
 Concen: 22.467 ug/l  
 RT: 4.12 min Scan# 364  
 Delta R.T. -0.02 min  
 Lab File: VW008313.D  
 Acq: 16 Jan 2019 17:23

Tgt Ion: 43 Resp: 7645  
 Ion Ratio Lower Upper  
 43 100  
 58 33.1 27.5 41.3





#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW008313.D

Acq: 16 Jan 2019 17:23

Instrument :  
MSVOA\_W  
ClientSampled :  
VOC-9

Tot Ion: 84 Resp: 1111

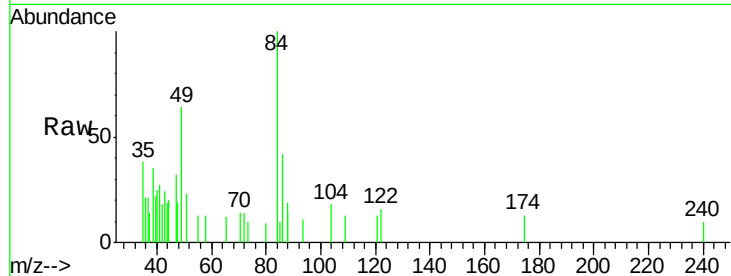
Ion Ratio Lower Upper

84 100

49 49.3 107.1 160.7#

51 5.4 32.4 48.6#

86 28.1 54.2 81.4#

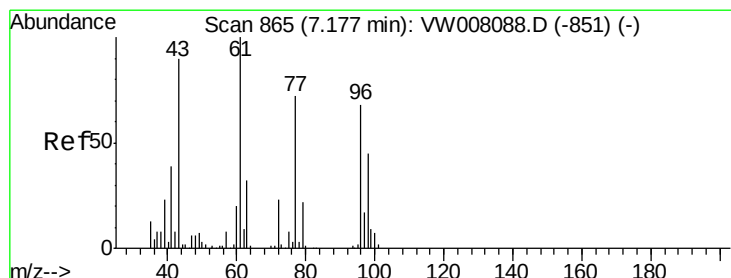
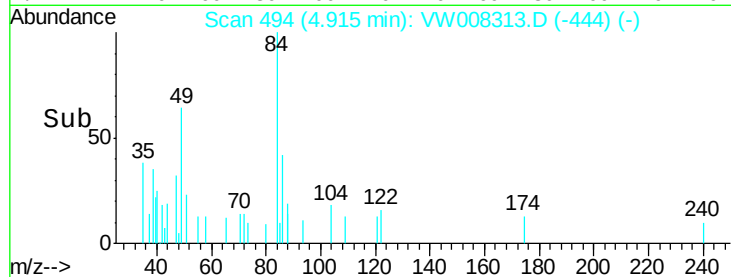
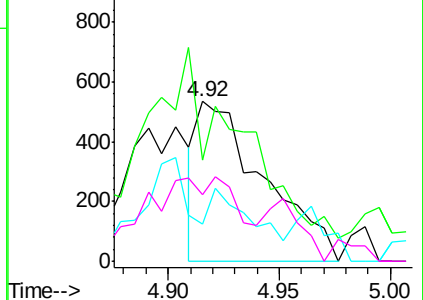


Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#25

2-Butanone

Concen: 1.392 ug/l

RT: 7.20 min Scan# 869

Delta R.T. 0.02 min

Lab File: VW008313.D

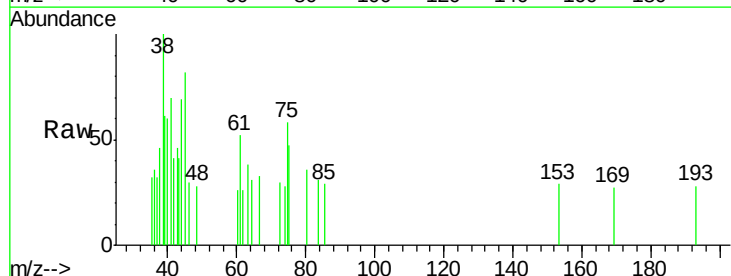
Acq: 16 Jan 2019 17:23

Tgt Ion: 43 Resp: 395

Ion Ratio Lower Upper

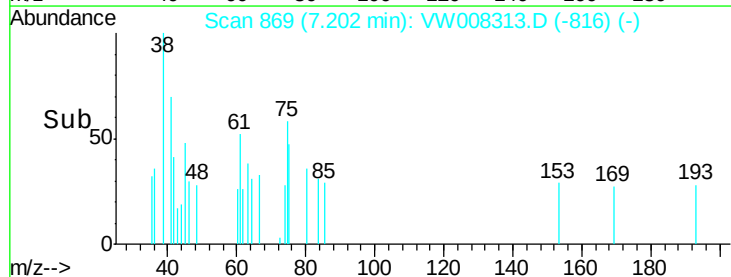
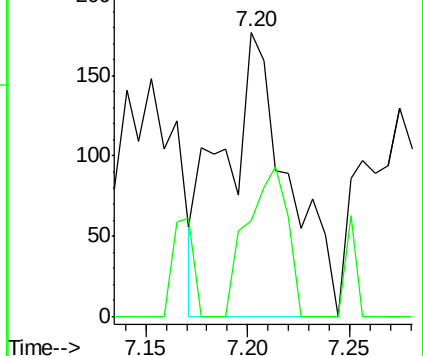
43 100

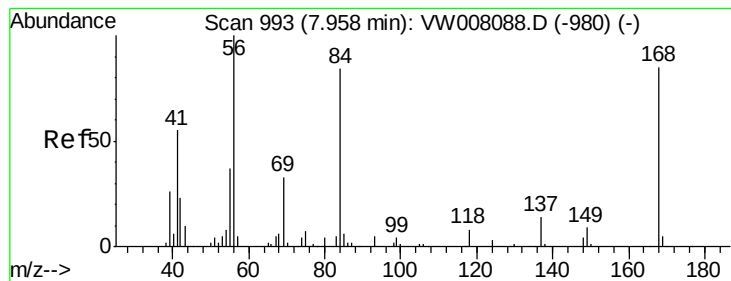
72 33.9 20.5 30.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#31

Cyclohexane

Concen: 1.051 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008313.D

Acq: 16 Jan 2019 17:23

Instrument :

MSVOA\_W

ClientSampleId :

VOC-9

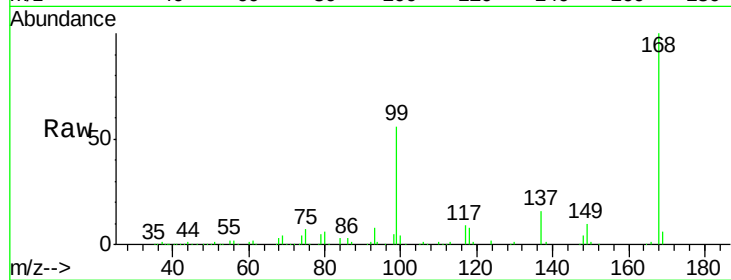
Tot Ion: 56 Resp: 2255

Ion Ratio Lower Upper

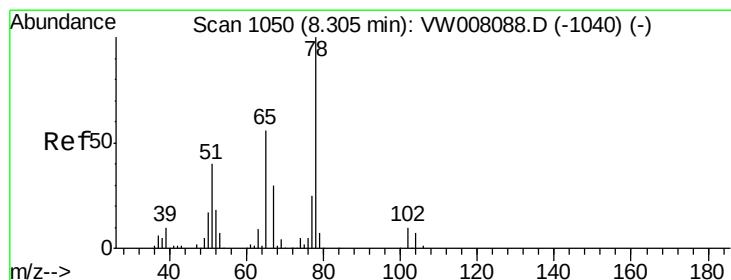
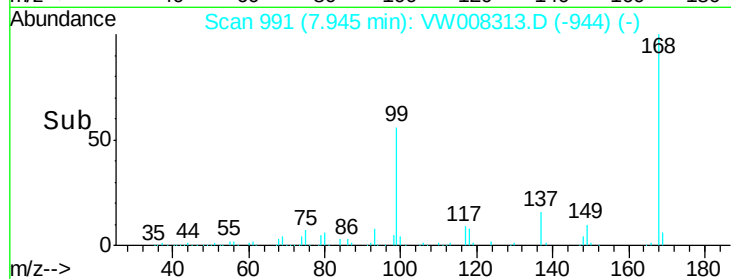
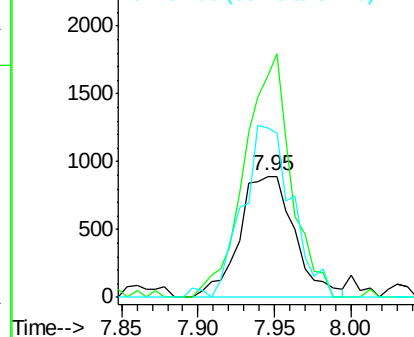
56 100

69 182.6 26.2 39.4#

84 139.4 67.4 101.2#



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: 53.153 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW008313.D

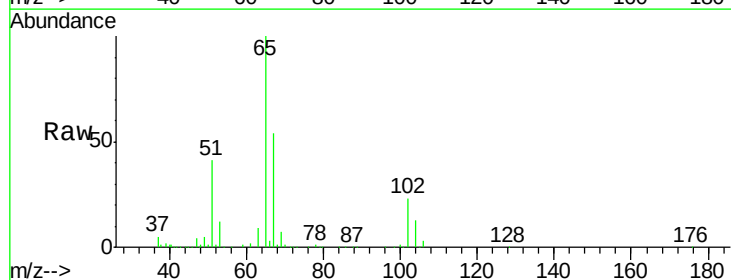
Acq: 16 Jan 2019 17:23

Tgt Ion: 65 Resp: 54191

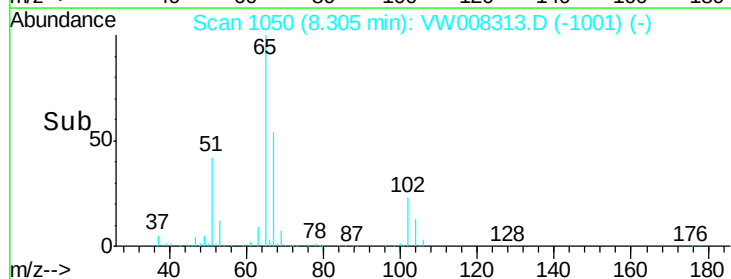
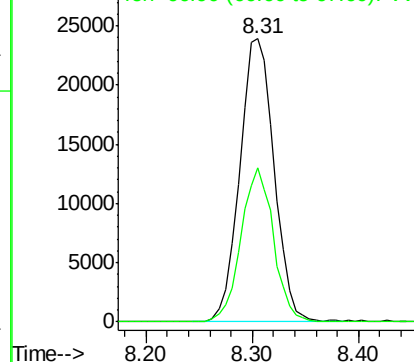
Ion Ratio Lower Upper

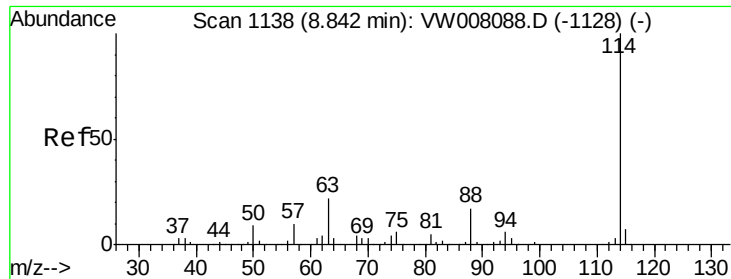
65 100

67 51.2 0.0 106.8



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

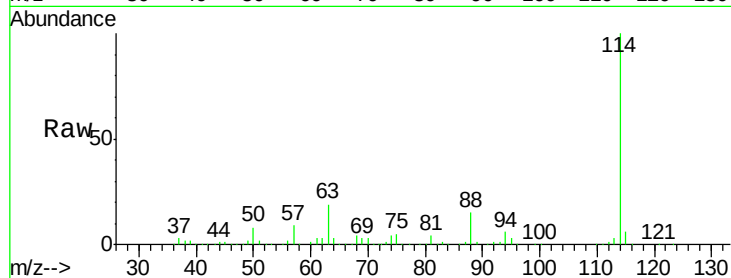




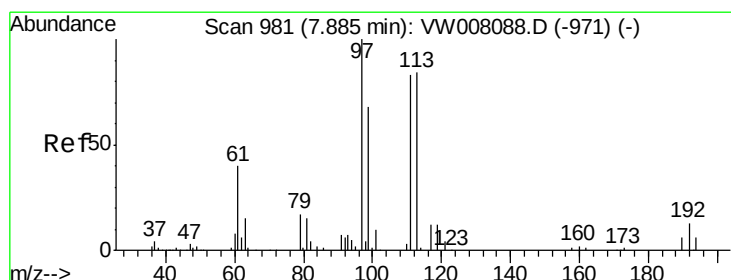
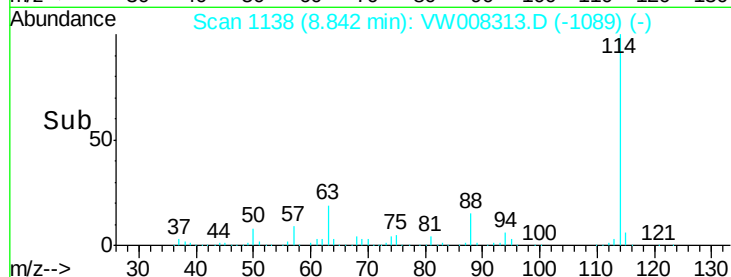
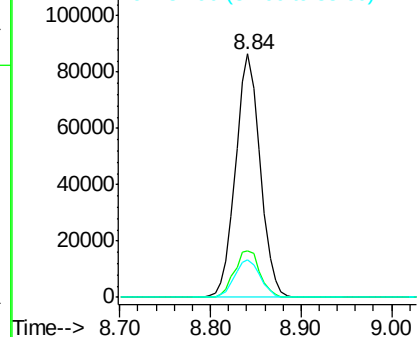
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW008313.D  
 Acq: 16 Jan 2019 17:23

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VOC-9

Tot Ion:114 Resp: 162824  
 Ion Ratio Lower Upper  
 114 100  
 63 19.3 0.0 43.4  
 88 15.5 0.0 33.4

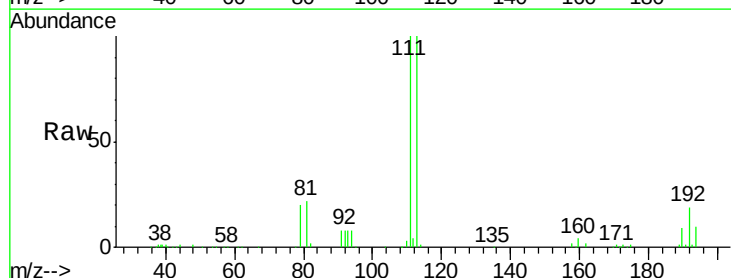


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

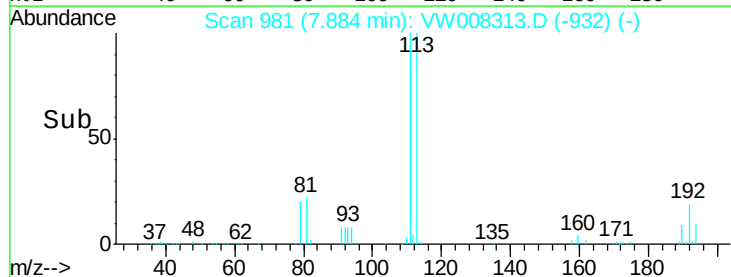
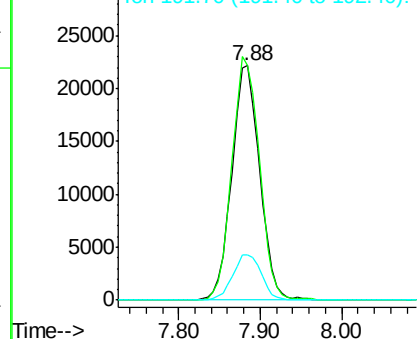


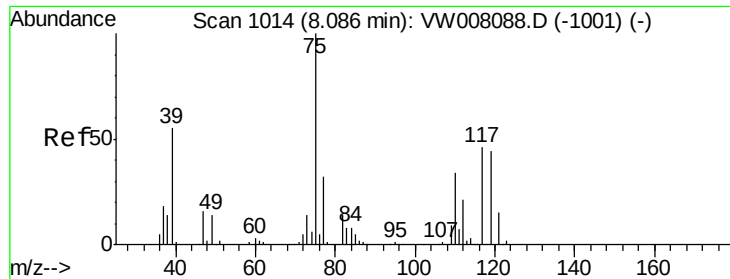
#35  
 Dibromofluoromethane  
 Concen: 54.852 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW008313.D  
 Acq: 16 Jan 2019 17:23

Tgt Ion:113 Resp: 52090  
 Ion Ratio Lower Upper  
 113 100  
 111 102.9 81.8 122.8  
 192 19.9 12.8 19.2#



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

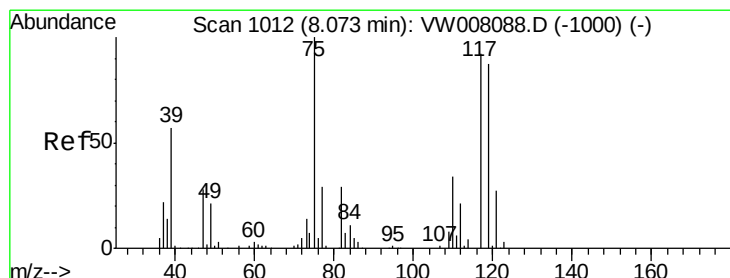
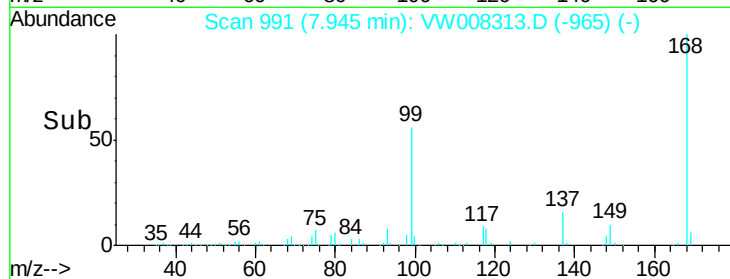
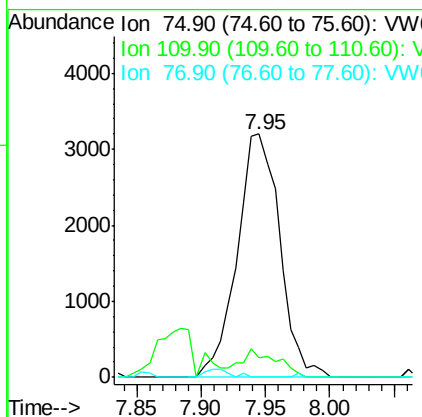
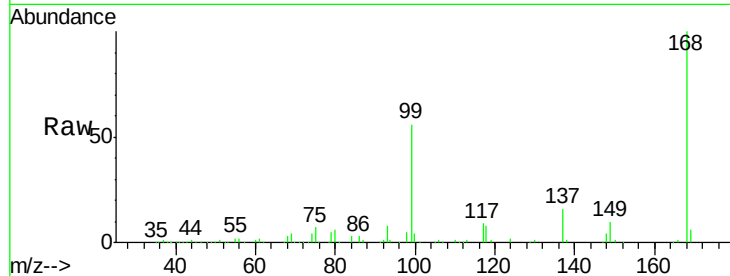




#36  
 1,1-Dichloropropene  
 Concen: 4.369 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.14 min  
 Lab File: VW008313.D  
 Acq: 16 Jan 2019 17:23

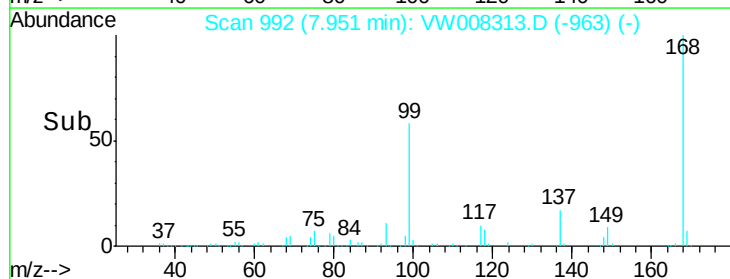
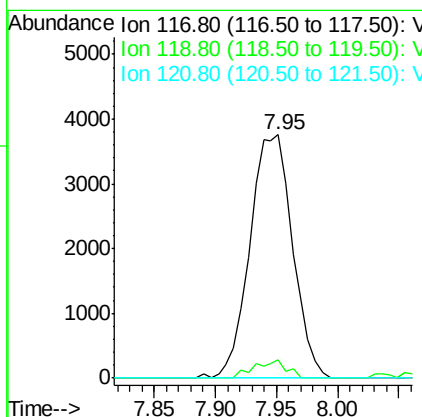
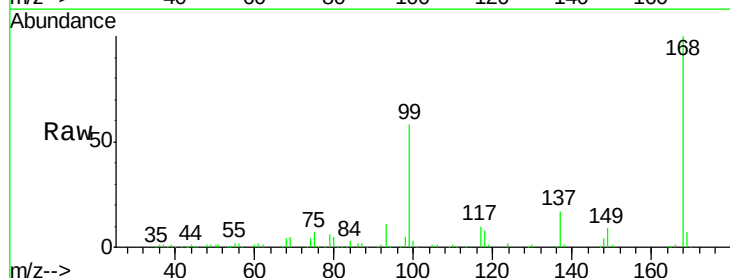
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VOC-9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.6   | 17.1  | 51.3# |
| 77      | 0.0   | 25.5  | 38.3# |

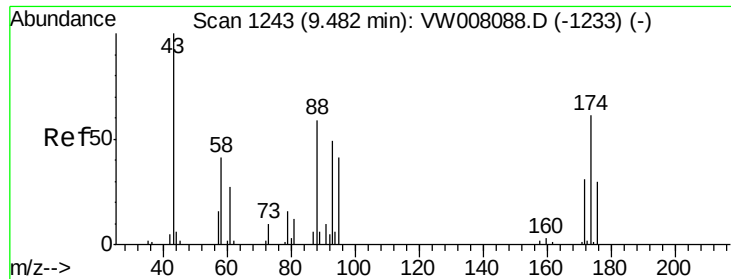


#38  
 Carbon Tetrachloride  
 Concen: 5.933 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.12 min  
 Lab File: VW008313.D  
 Acq: 16 Jan 2019 17:23

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 7.3   | 75.8  | 113.8# |
| 121     | 0.0   | 23.7  | 35.5#  |







#49

1,4-Dioxane

Concen: 5.725 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. -0.11 min

Lab File: VW008313.D

Acq: 16 Jan 2019 17:23

Instrument :

MSVOA\_W

ClientSampled :

VOC-9

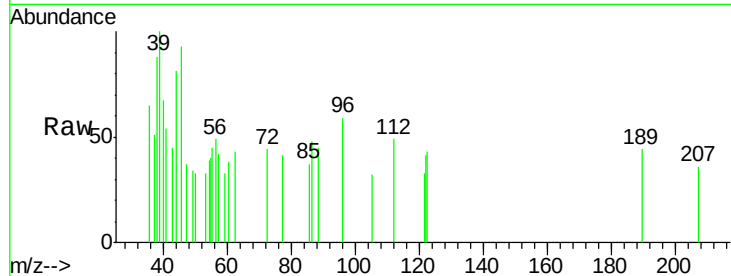
Tot Ion: 88 Resp: 51

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

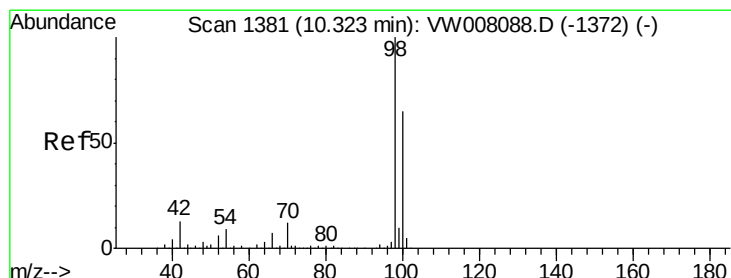
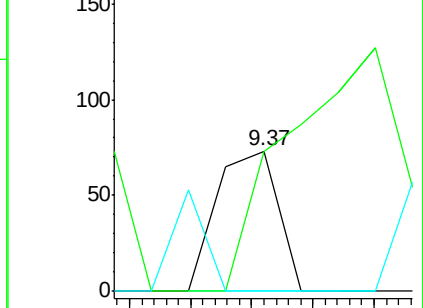
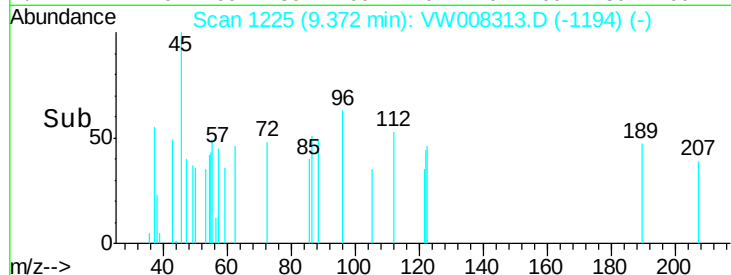
58 37.3 61.7 92.5#



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: 50.710 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008313.D

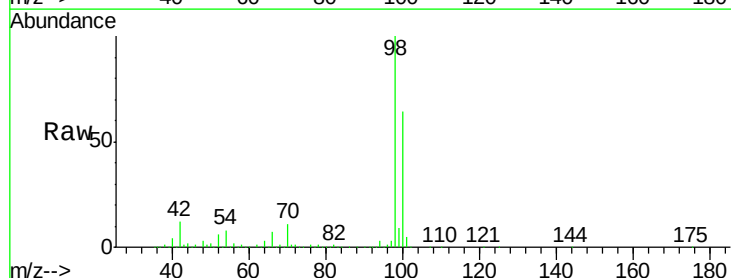
Acq: 16 Jan 2019 17:23

Tgt Ion: 98 Resp: 202087

Ion Ratio Lower Upper

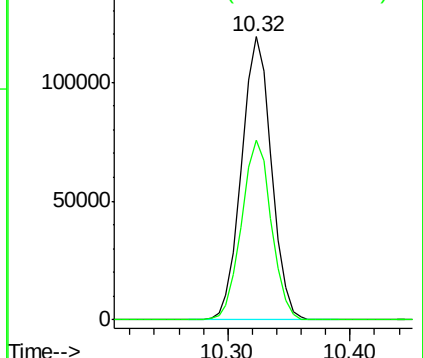
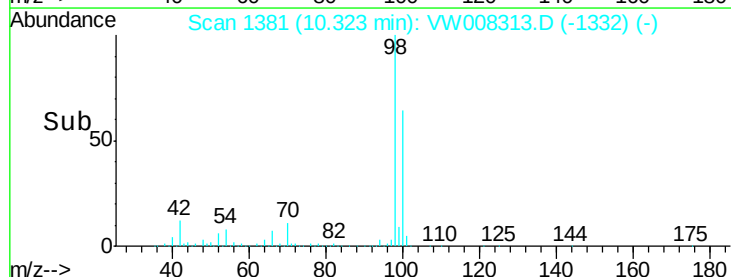
98 100

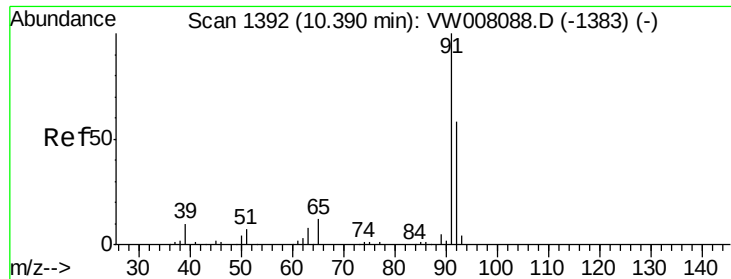
100 63.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 2.567 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW008313.D

Acq: 16 Jan 2019 17:23

Instrument :

MSVOA\_W

ClientSampled :

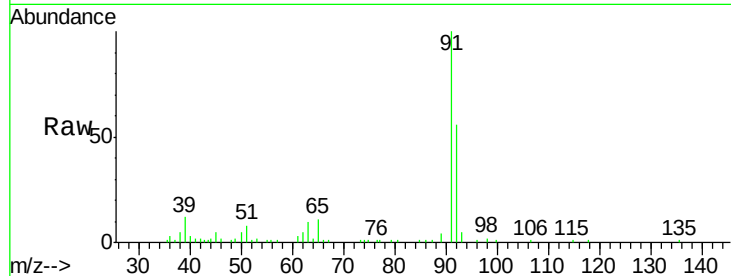
VOC-9

Tot Ion: 92 Resp: 7459

Ion Ratio Lower Upper

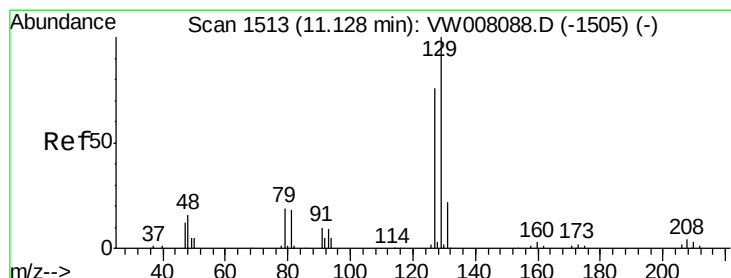
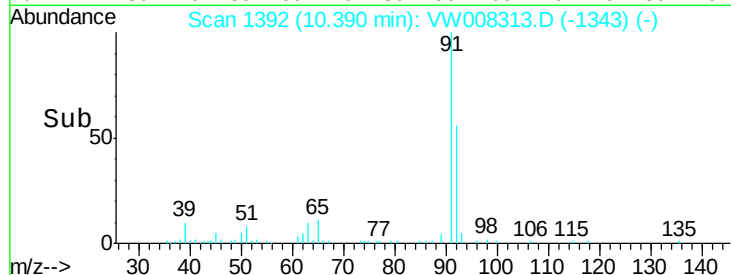
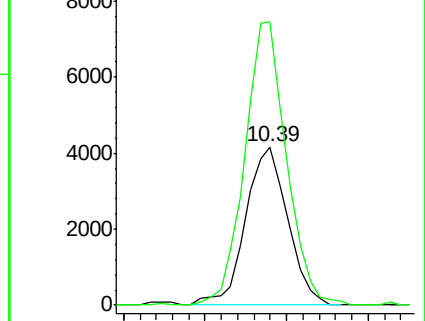
92 100

91 177.7 137.0 205.4



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW



#60

Dibromochloromethane

Concen: 12.281 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.27 min

Lab File: VW008313.D

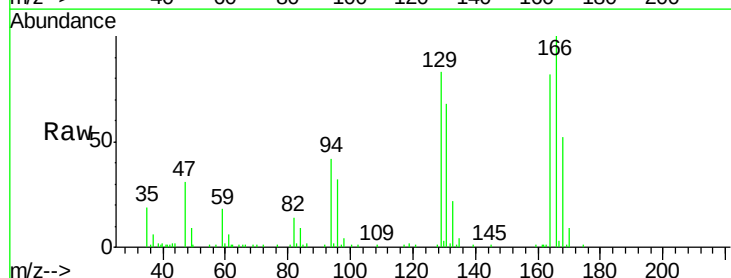
Acq: 16 Jan 2019 17:23

Tgt Ion: 129 Resp: 10489

Ion Ratio Lower Upper

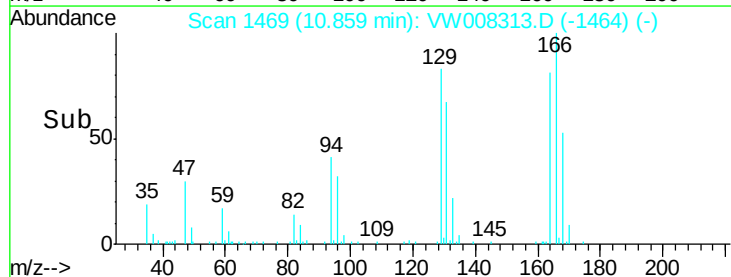
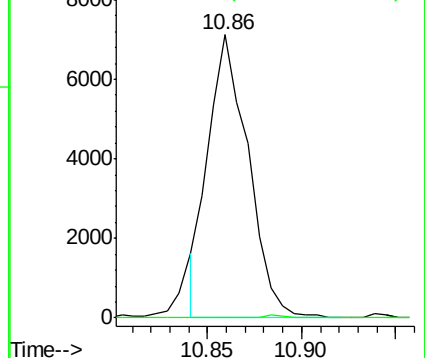
129 100

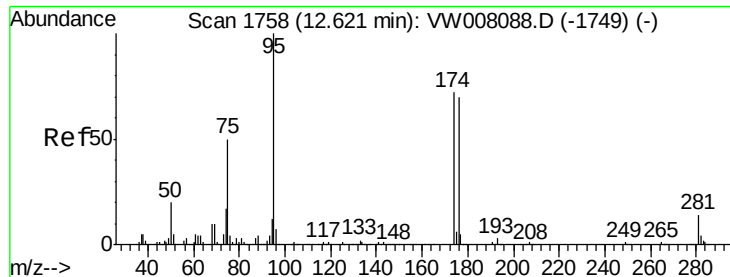
127 0.0 38.9 116.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

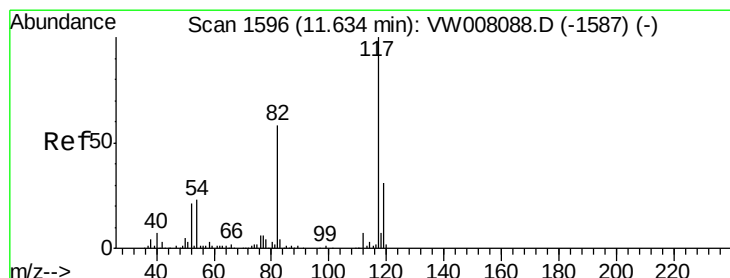
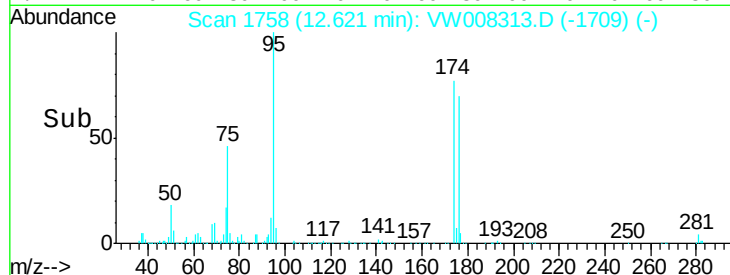
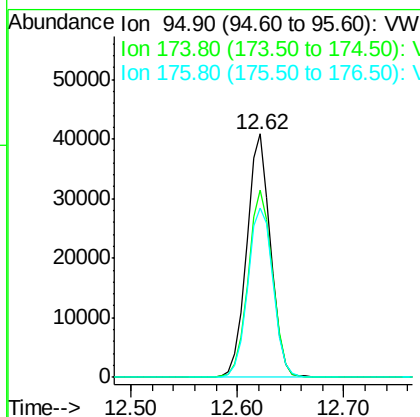
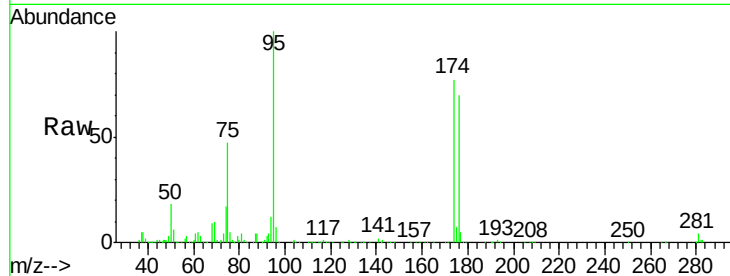




#62  
4-Bromofluorobenzene  
Concen: 44.885 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. -0.00 min  
Lab File: VW008313.D  
Acq: 16 Jan 2019 17:23

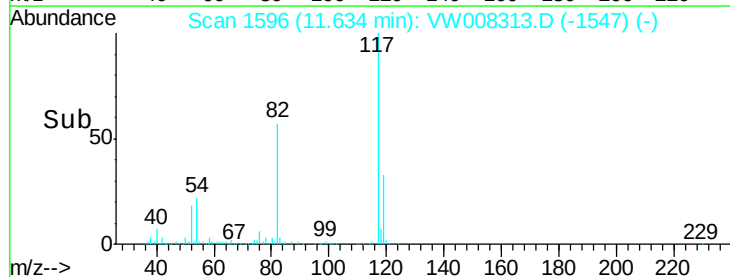
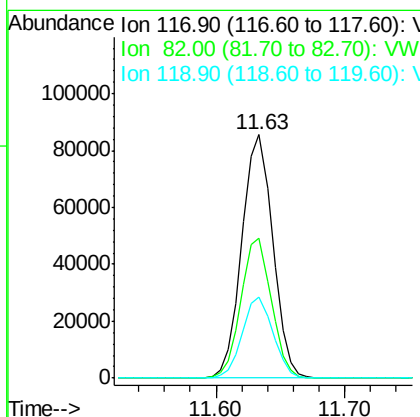
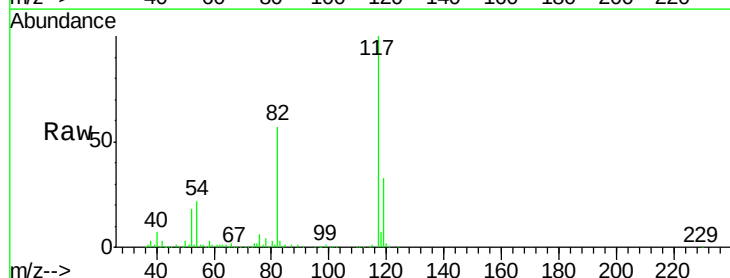
Instrument :  
MSVOA\_W  
ClientSampled :  
VOC-9

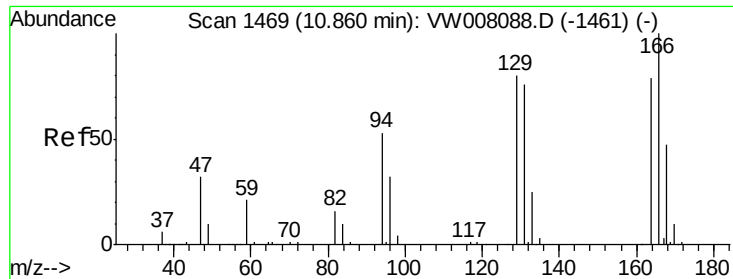
Tot Ion: 95 Resp: 64125  
Ion Ratio Lower Upper  
95 100  
174 78.7 0.0 143.0  
176 74.1 0.0 140.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW008313.D  
Acq: 16 Jan 2019 17:23

Tgt Ion: 117 Resp: 141968  
Ion Ratio Lower Upper  
117 100  
82 57.4 46.4 69.6  
119 33.1 24.7 37.1





#64

Tetrachloroethene

Concen: 12.779 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW008313.D

Acq: 16 Jan 2019 17:23

Instrument :

MSVOA\_W

ClientSampled :

VOC-9

Tot Ion:164 Resp: 11807

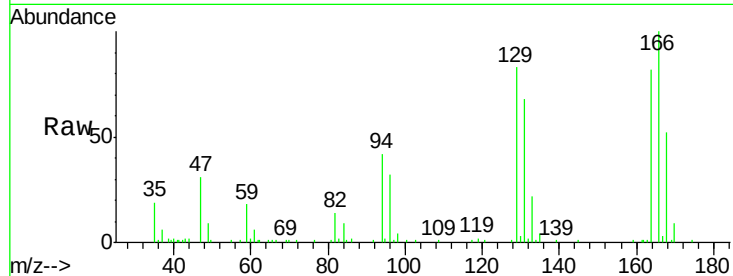
Ion Ratio Lower Upper

164 100

166 122.0 100.7 151.1

129 100.9 81.0 121.4

131 83.1 76.1 114.1

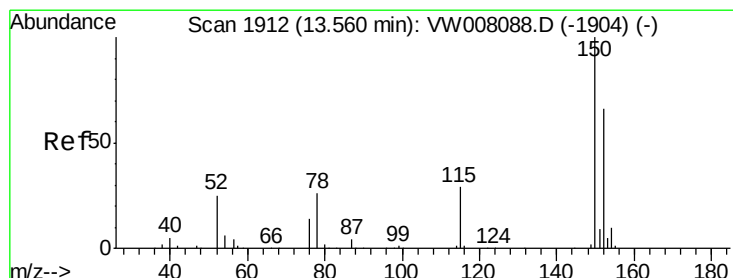
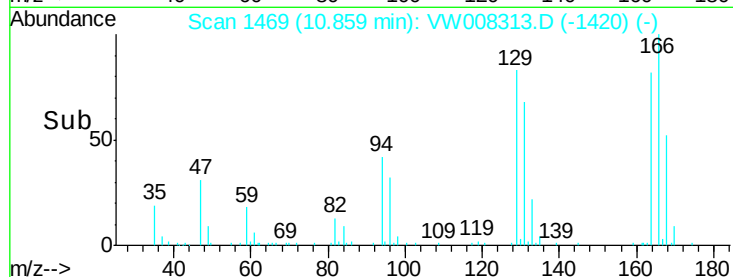
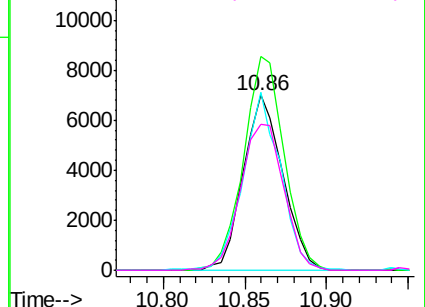


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VW008313.D

Acq: 16 Jan 2019 17:23

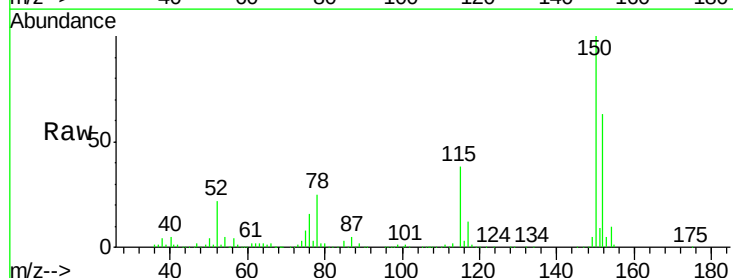
Tgt Ion:152 Resp: 59454

Ion Ratio Lower Upper

152 100

115 60.7 30.8 92.4

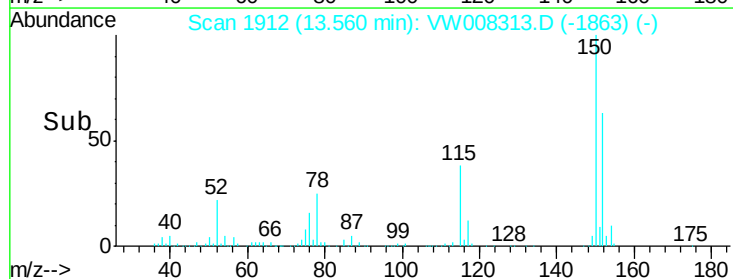
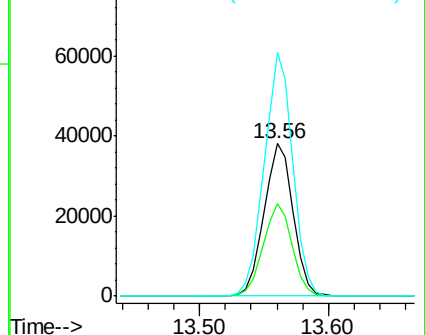
150 156.9 0.0 350.2

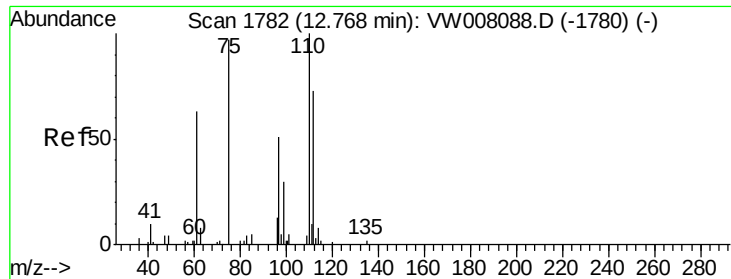


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 58.319 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008313.D

Acq: 16 Jan 2019 17:23

Instrument :

MSVOA\_W

ClientSampleId :

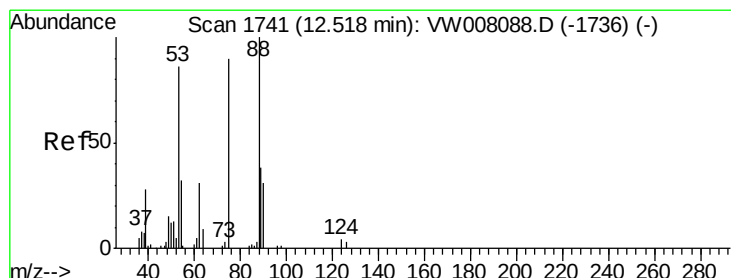
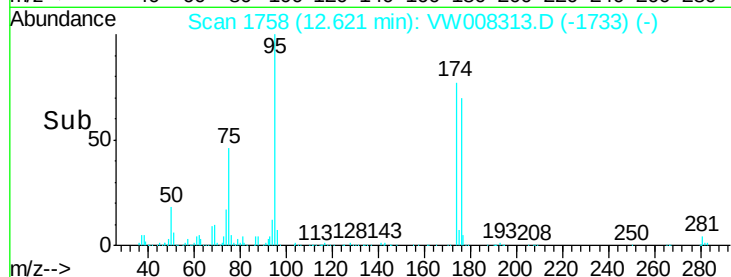
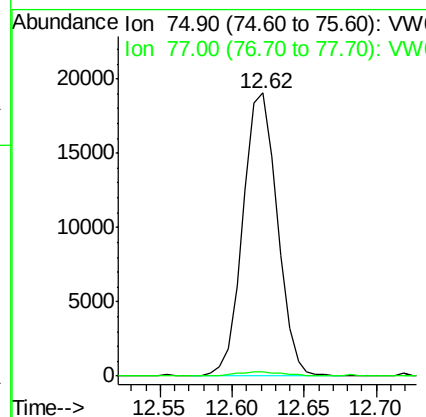
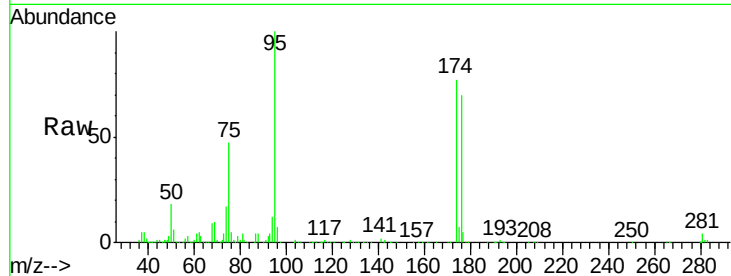
VOC-9

Tot Ion: 75 Resp: 31608

Ion Ratio Lower Upper

75 100

77 2.0 179.4 538.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 135.806 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW008313.D

Acq: 16 Jan 2019 17:23

Tgt Ion: 75 Resp: 31608

Ion Ratio Lower Upper

75 100

53 0.9 78.8 118.2#

89 0.1 35.4 53.2#

