

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100219\  
 Data File : VW013381.D  
 Acq On : 02 Oct 2019 16:29  
 Operator : SY/VA  
 Sample : K5083-06RE  
 Misc : 5.10G/5ML/MSVOA W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Oct 02 16:53:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 02 11:49:57 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 275872   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 396799   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 326359   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 145196   | 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   | 100003   | 48.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.10%  |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 108442   | 52.08 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.16% |          |
| 50) Toluene-d8              | 10.32 | 98   | 456305   | 52.81 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.62% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 139750   | 48.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.86%  |          |

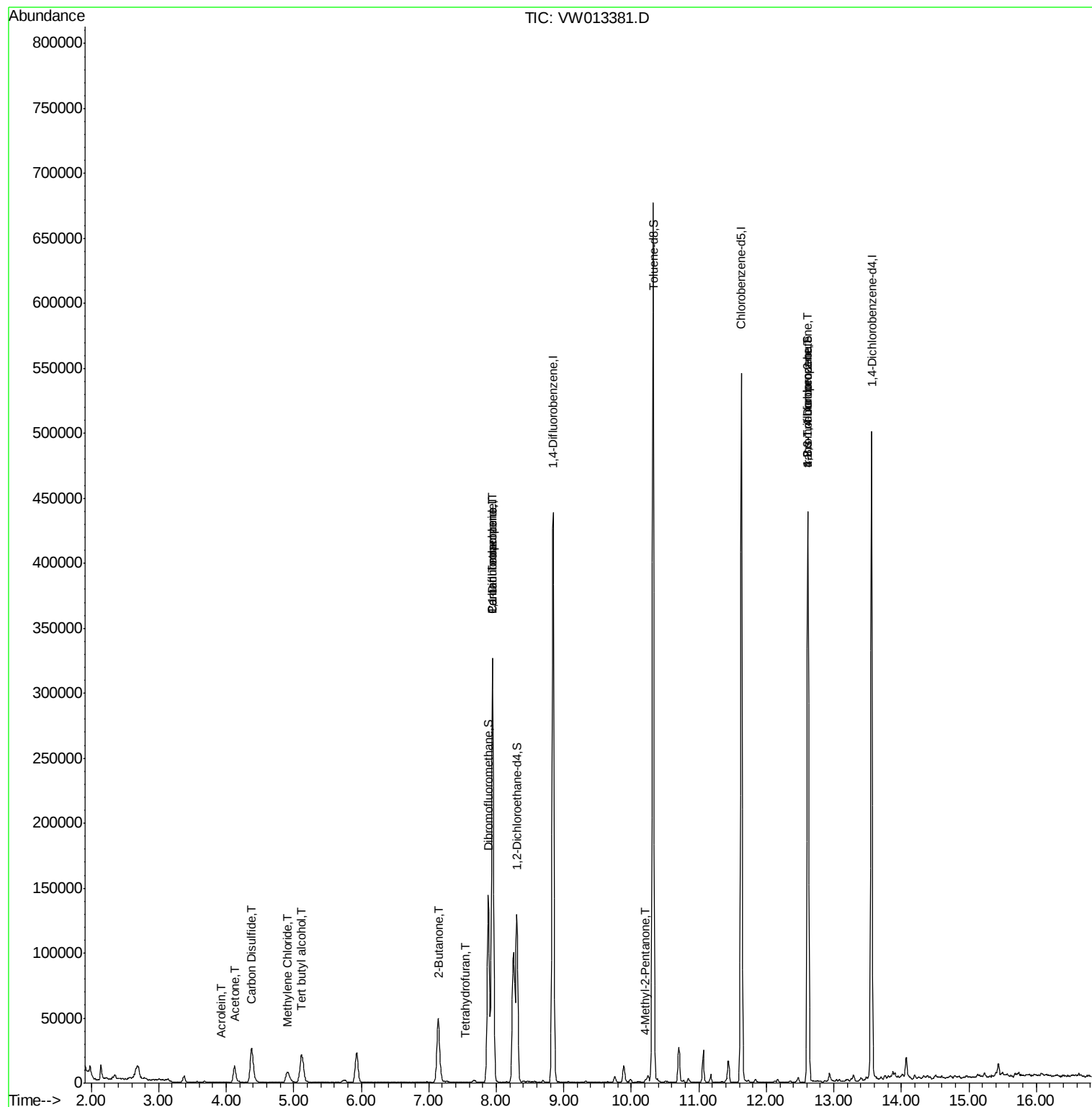
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.12  | 59   | 22652    | 121.572   | ug/l # | 73     |
| 13) Acrolein                   | 3.92  | 56   | 85       | 10.968    | ug/l # | 49     |
| 16) Acetone                    | 4.12  | 43   | 21928    | 34.730    | ug/l # | 85     |
| 17) Carbon Disulfide           | 4.38  | 76   | 59275    | 8.367     | ug/l   | 98     |
| 20) Methylene Chloride         | 4.90  | 84   | 7324     | 1.025     | ug/l # | 86     |
| 25) 2-Butanone                 | 7.15  | 43   | 2217     | 2.744     | ug/l # | 83     |
| 26) 2,2-Dichloropropane        | 7.15  | 77   | 3554     | Below Cal | #      | 52     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 22       | 9.738     | ug/l # | 34     |
| 36) 1,1-Dichloropropene        | 7.94  | 75   | 18167    | 4.929     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 23875    | 7.478     | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 2648     | 1.646     | ug/l # | 84     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 67079    | 51.981    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 67079    | 105.452   | ug/l # | 12     |

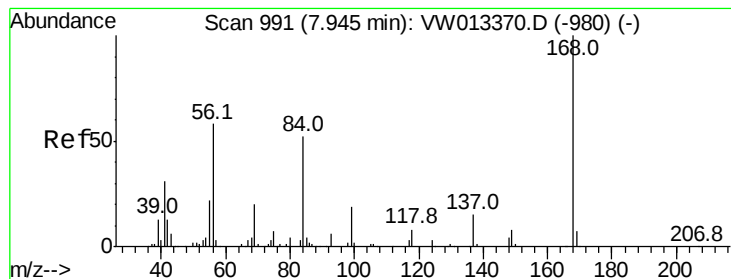
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100219\  
Data File : VW013381.D  
Acq On : 02 Oct 2019 16:29  
Operator : SY/VA  
Sample : K5083-06RE  
Misc : 5.10G/5ML/MSVOA W/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Oct 02 16:53:35 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100119S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 02 11:49:57 2019  
Response via : Initial Calibration



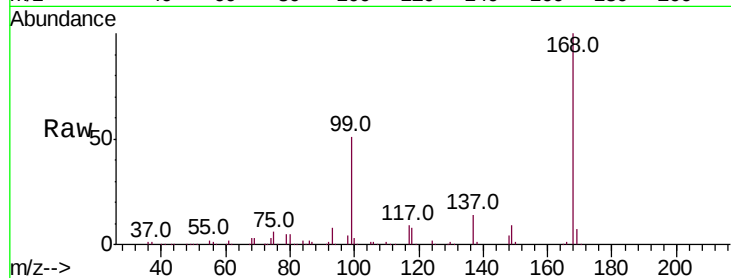


#1

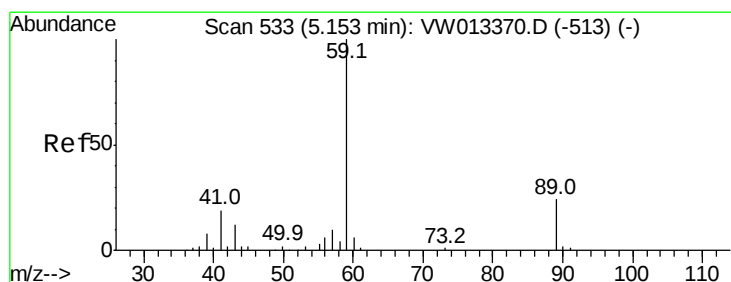
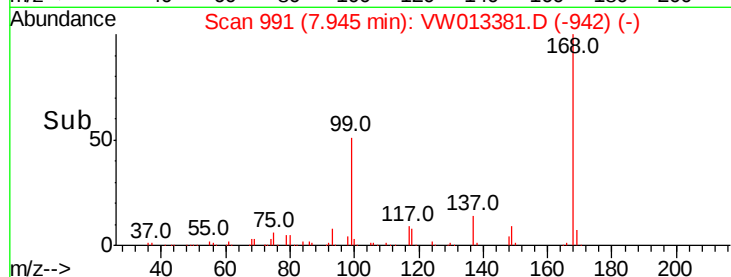
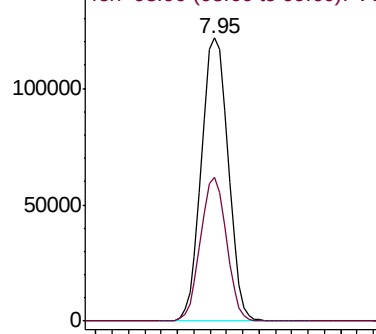
Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. 0.00 min  
 Lab File: VW013381.D  
 Acq: 02 Oct 2019 16:29

Instrument :  
 MSVOA\_W  
 ClientSampled :

Tot Ion:168 Resp: 275872  
 Ion Ratio Lower Upper  
 168 100  
 99 51.0 40.2 60.4



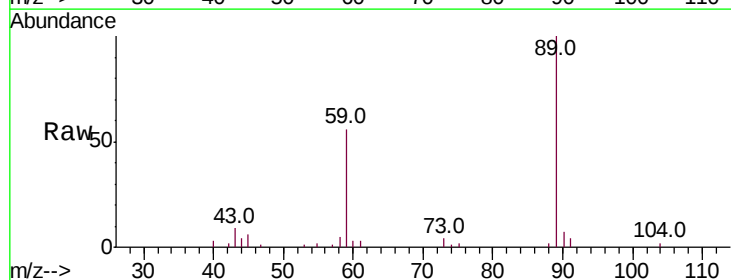
Abundance Ion 167.90 (167.60 to 168.60): V  
 Ion 98.90 (98.60 to 99.60): VW



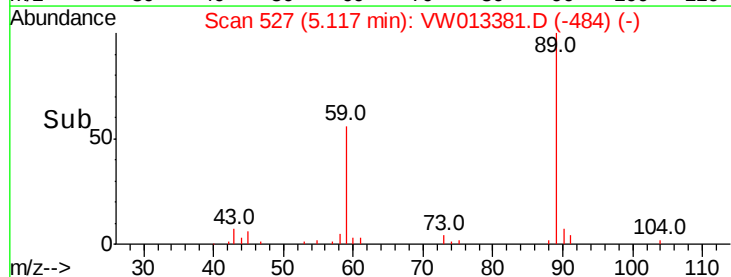
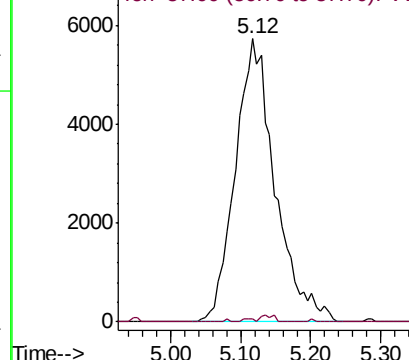
#11

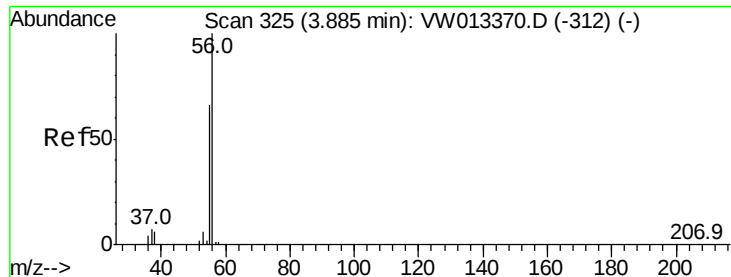
Tert butyl alcohol  
 Concen: 121.572 ug/l  
 RT: 5.12 min Scan# 527  
 Delta R.T. -0.04 min  
 Lab File: VW013381.D  
 Acq: 02 Oct 2019 16:29

Tgt Ion: 59 Resp: 22652  
 Ion Ratio Lower Upper  
 59 100  
 57 0.3 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VW  
 Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 10.968 ug/l

RT: 3.92 min Scan# 330

Delta R.T. 0.03 min

Lab File: VW013381.D

Acq: 02 Oct 2019 16:29

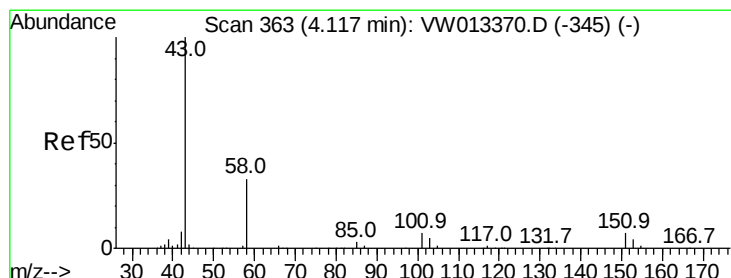
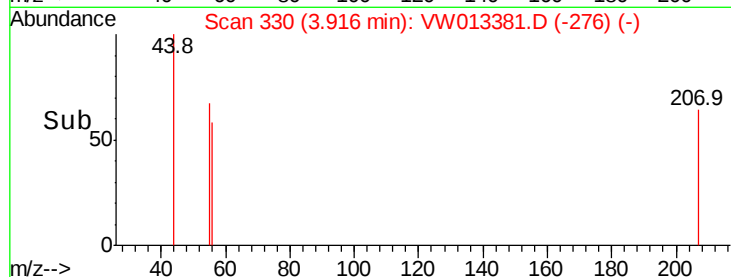
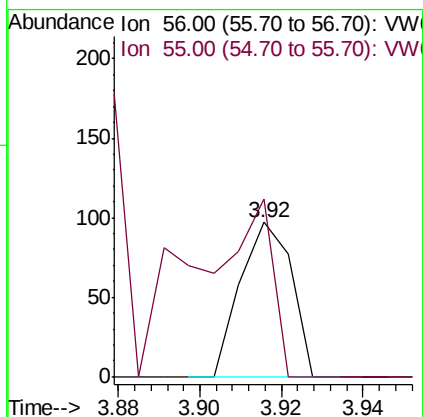
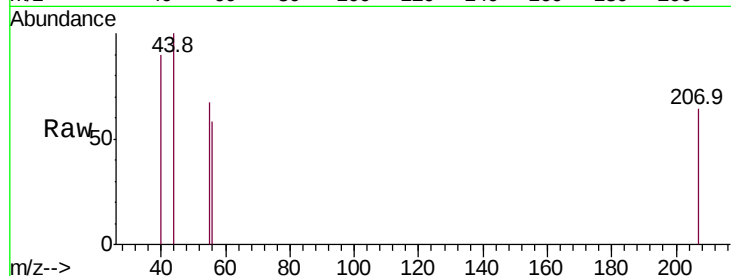
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 56 Resp: 85

Ion Ratio Lower Upper

56 100

55 110.6 55.4 83.0#



#16

Acetone

Concen: 34.730 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW013381.D

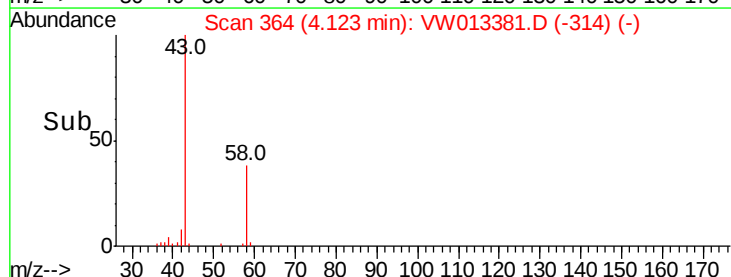
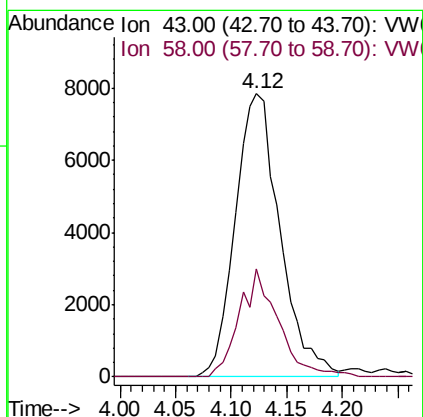
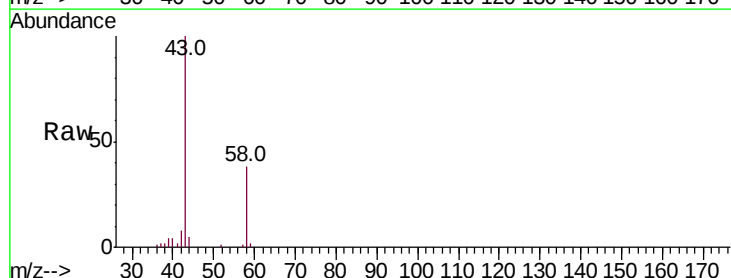
Acq: 02 Oct 2019 16:29

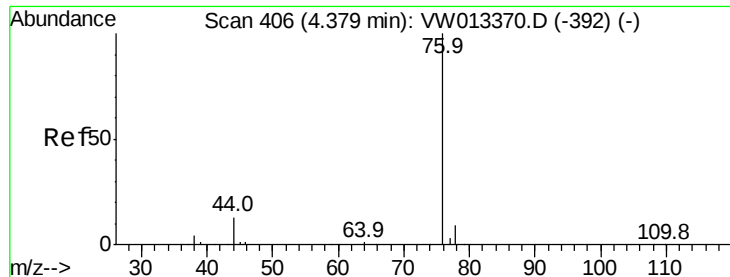
Tgt Ion: 43 Resp: 21928

Ion Ratio Lower Upper

43 100

58 38.0 24.1 36.1#





#17

Carbon Disulfide

Concen: 8.367 ug/l

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW013381.D

Acq: 02 Oct 2019 16:29

Instrument :

MSVOA\_W

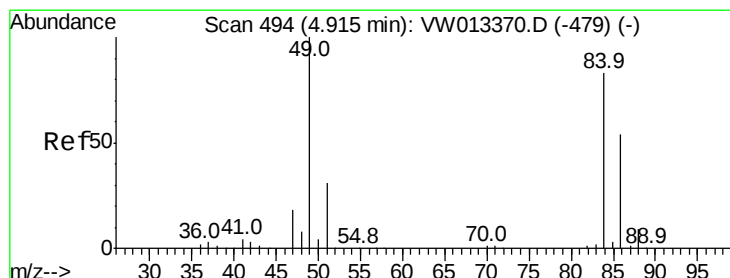
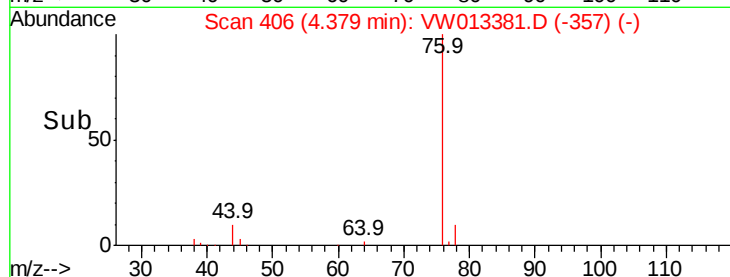
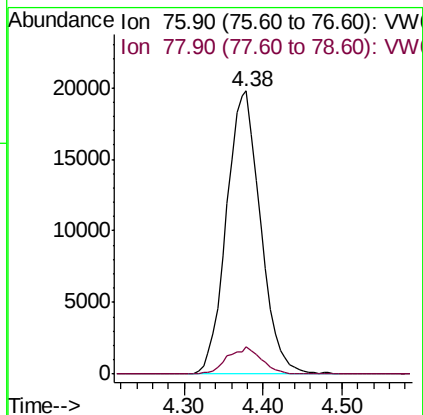
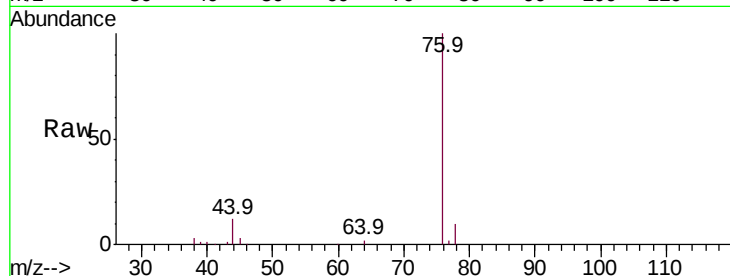
ClientSampleId :

Tot Ion: 76 Resp: 59275

Ion Ratio Lower Upper

76 100

78 9.6 7.0 10.4



#20

Methylene Chloride

Concen: 1.025 ug/l

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW013381.D

Acq: 02 Oct 2019 16:29

Tgt Ion: 84 Resp: 7324

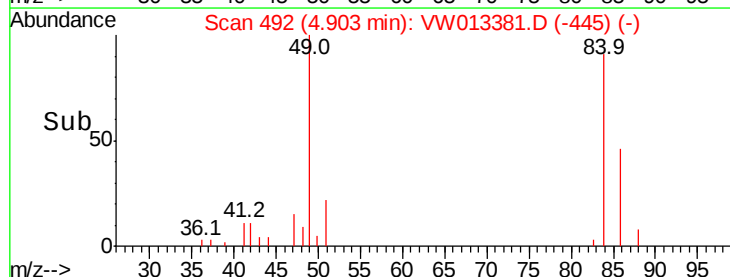
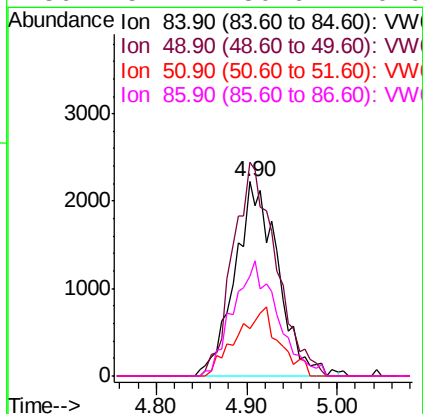
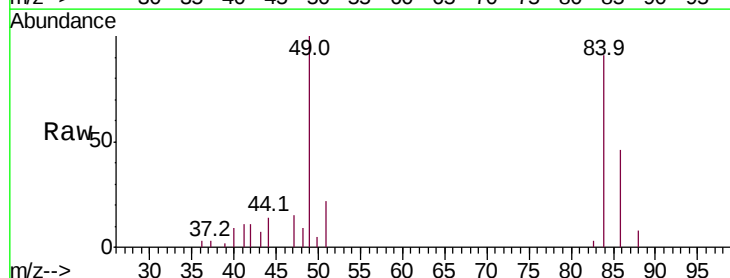
Ion Ratio Lower Upper

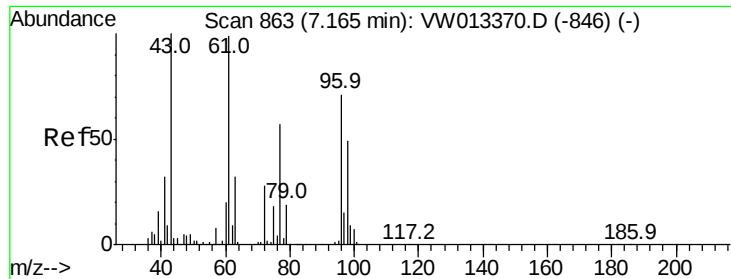
84 100

49 109.8 97.6 146.4

51 24.1 30.2 45.2#

86 51.1 50.6 76.0





#25

2-Butanone

Concen: 2.744 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW013381.D

Acq: 02 Oct 2019 16:29

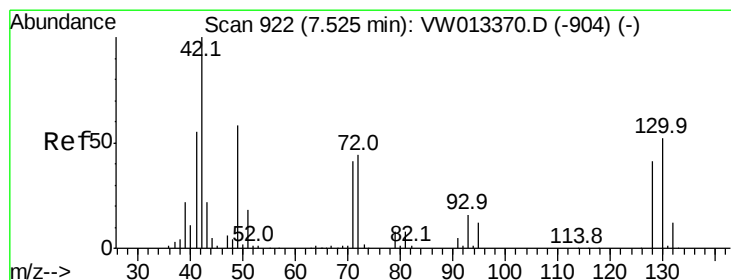
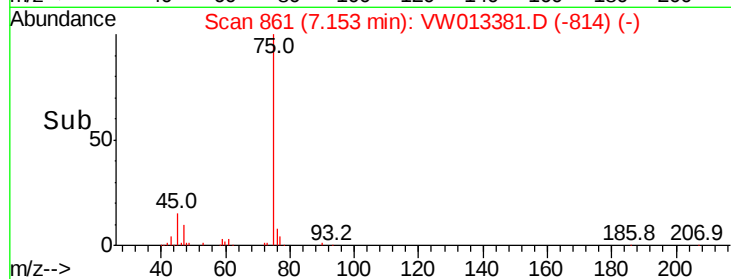
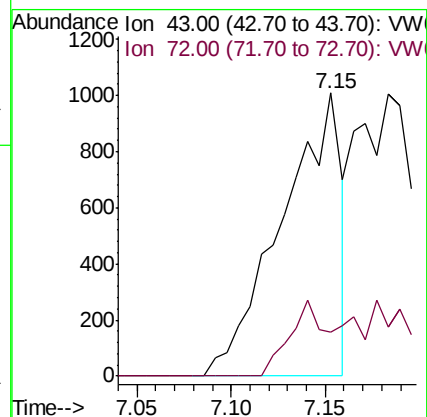
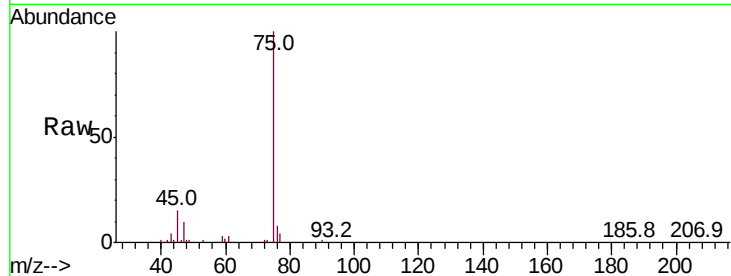
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 43 Resp: 2217

Ion Ratio Lower Upper

43 100

72 15.6 19.4 29.0#



#29

Tetrahydrofuran

Concen: 9.738 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.02 min

Lab File: VW013381.D

Acq: 02 Oct 2019 16:29

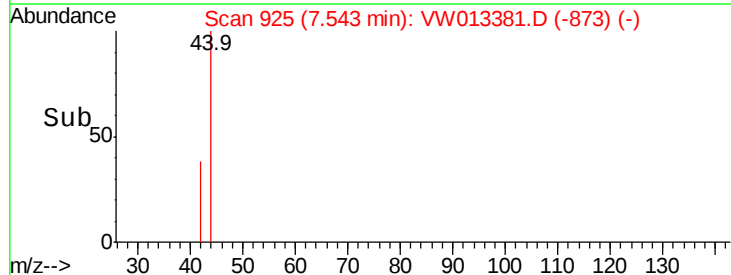
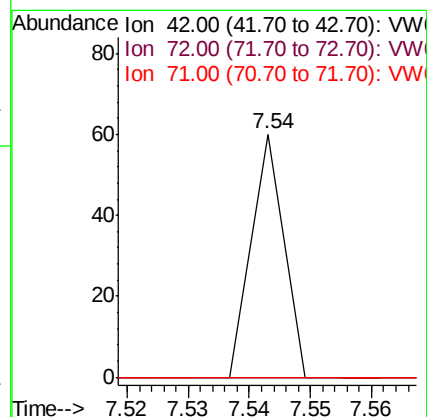
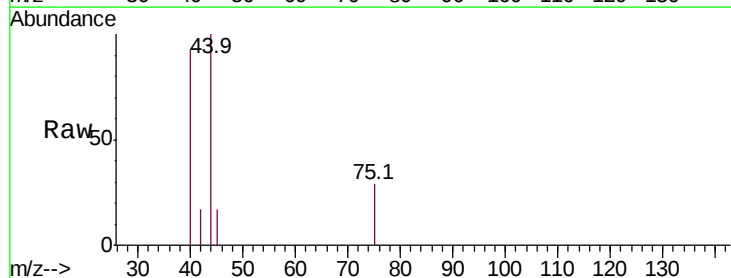
Tgt Ion: 42 Resp: 22

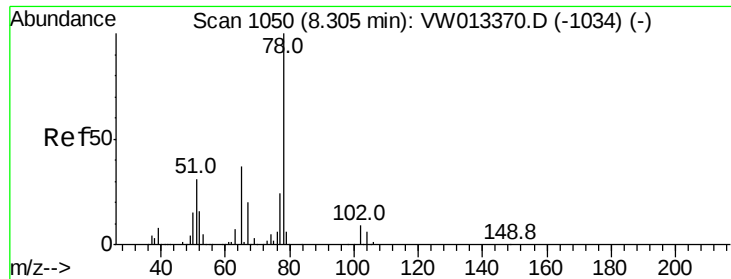
Ion Ratio Lower Upper

42 100

72 0.0 33.9 50.9#

71 0.0 31.9 47.9#

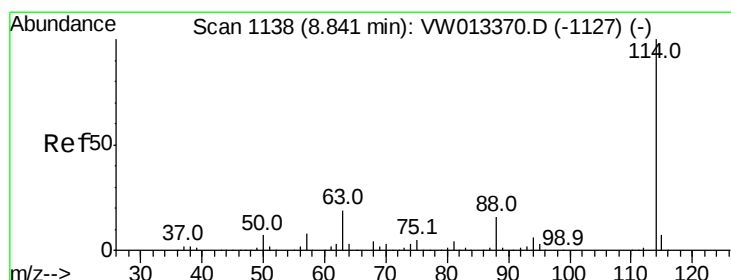
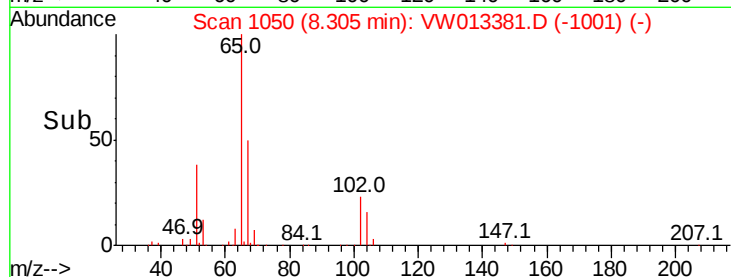
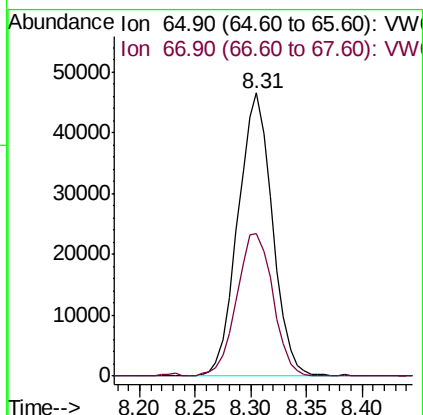
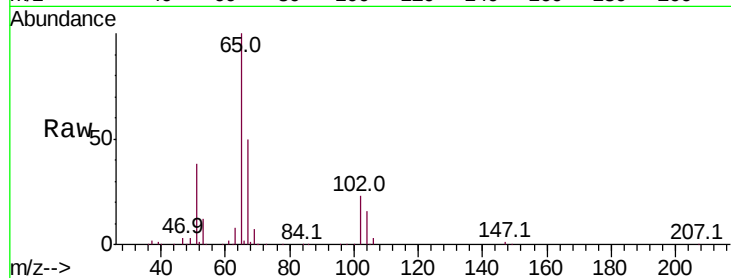




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.548 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW013381.D  
 Acq: 02 Oct 2019 16:29

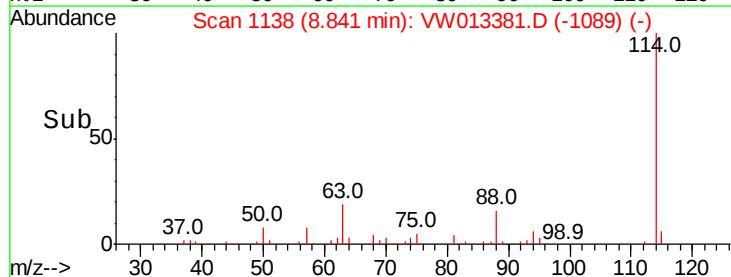
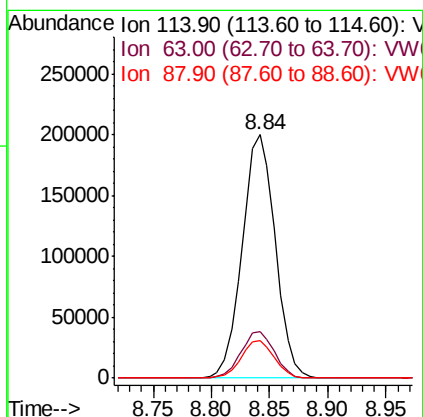
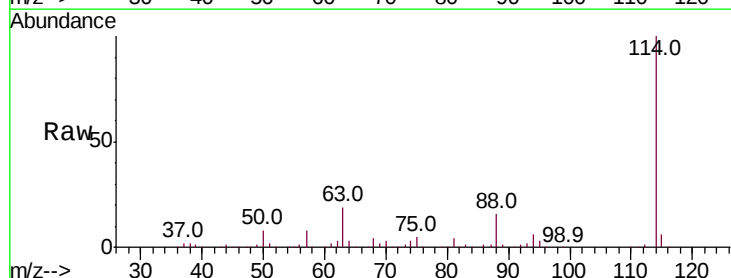
Instrument :  
 MSVOA\_W  
 ClientSampleId :

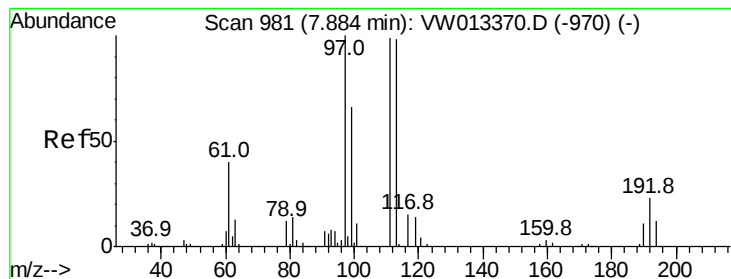
Tot Ion: 65 Resp: 100003  
 Ion Ratio Lower Upper  
 65 100  
 67 53.4 0.0 106.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW013381.D  
 Acq: 02 Oct 2019 16:29

Tgt Ion: 114 Resp: 396799  
 Ion Ratio Lower Upper  
 114 100  
 63 19.2 0.0 41.4  
 88 15.7 0.0 32.0





#35

Dibromofluoromethane

Concen: 52.083 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW013381.D

Acq: 02 Oct 2019 16:29

Instrument :

MSVOA\_W

ClientSampled :

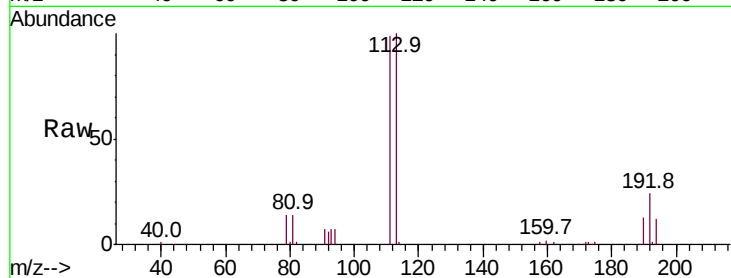
Tot Ion:113 Resp: 108442

Ion Ratio Lower Upper

113 100

111 101.0 81.9 122.9

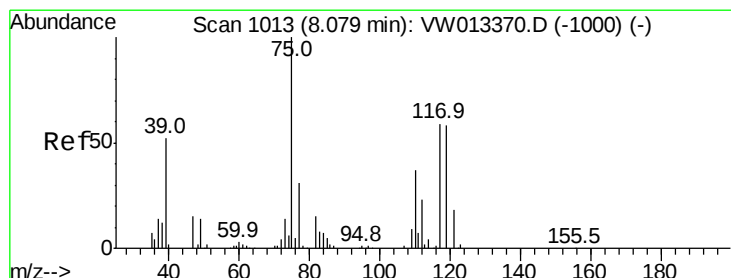
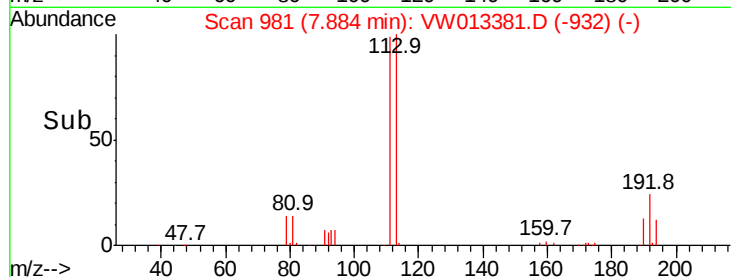
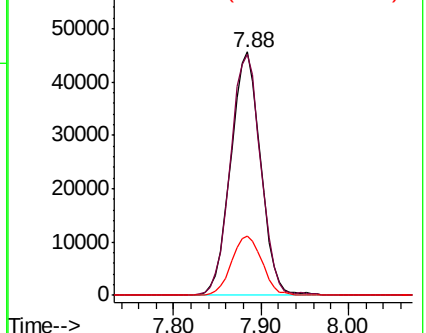
192 24.8 19.1 28.7



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: 4.929 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW013381.D

Acq: 02 Oct 2019 16:29

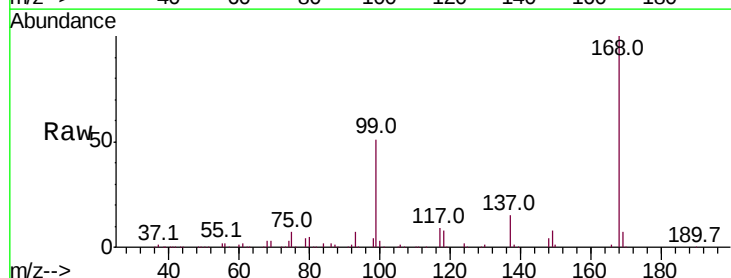
Tgt Ion: 75 Resp: 18167

Ion Ratio Lower Upper

75 100

110 9.5 18.1 54.3#

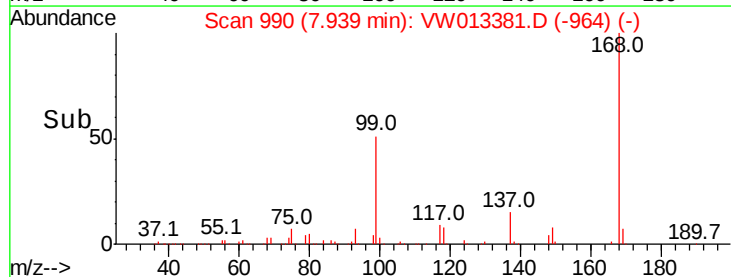
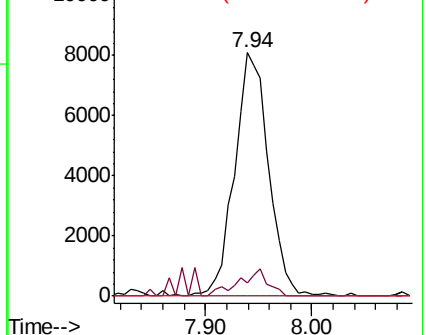
77 0.0 25.8 38.6#

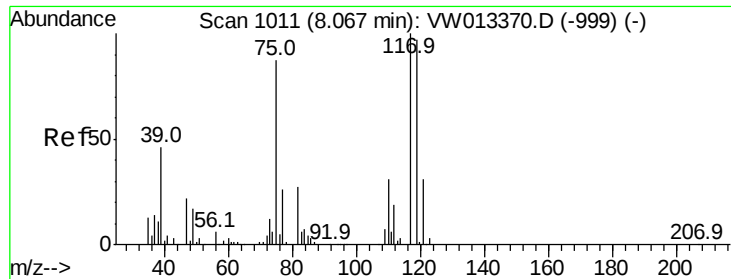


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

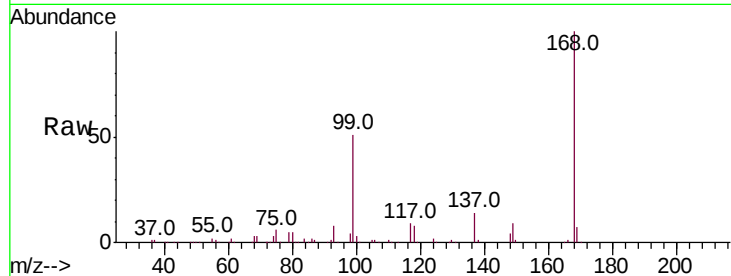




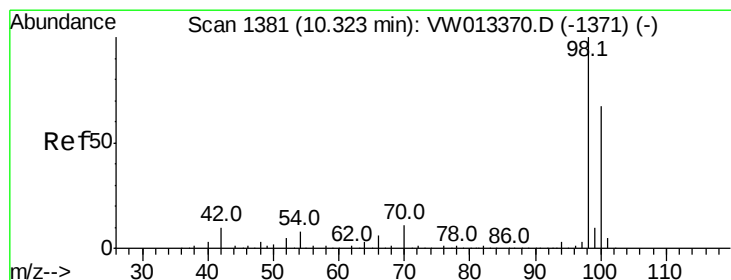
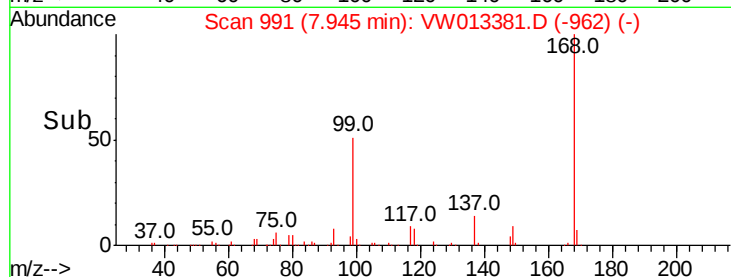
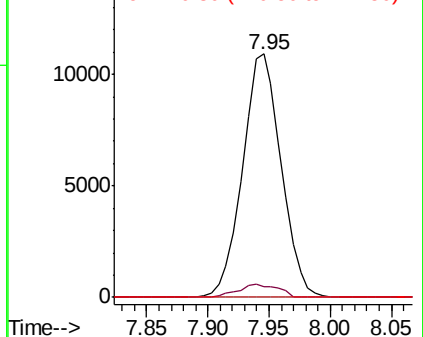
#38  
Carbon Tetrachloride  
Concen: 7.478 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.12 min  
Lab File: VW013381.D  
Acq: 02 Oct 2019 16:29

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:117 Resp: 23875  
Ion Ratio Lower Upper  
117 100  
119 4.2 73.5 110.3#  
121 0.0 25.0 37.6#

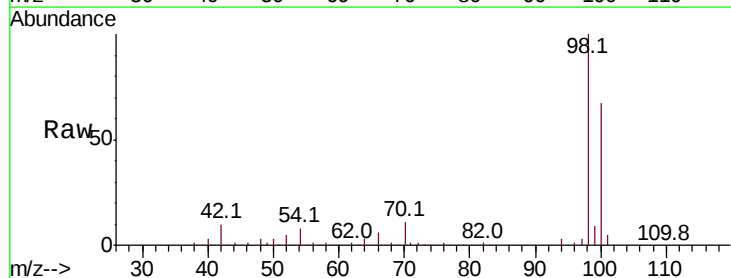


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

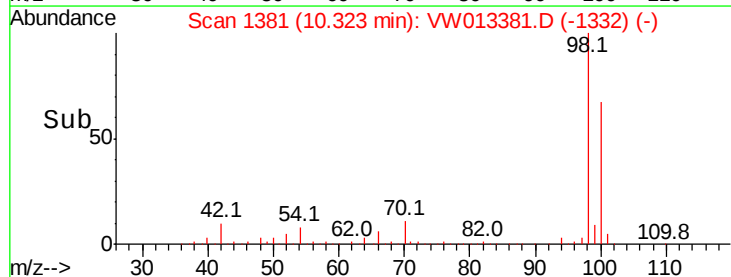
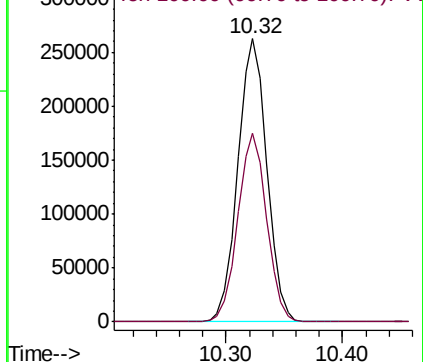


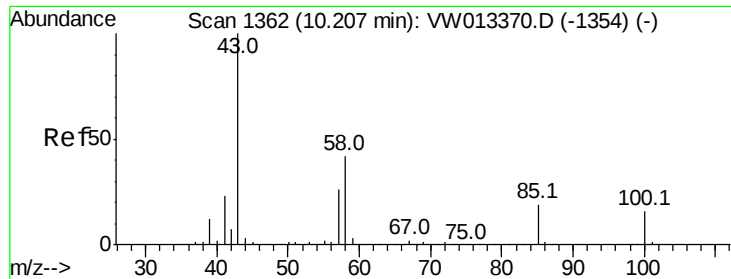
#50  
Toluene-d8  
Concen: 52.811 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: VW013381.D  
Acq: 02 Oct 2019 16:29

Tgt Ion: 98 Resp: 456305  
Ion Ratio Lower Upper  
98 100  
100 66.1 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VW  
Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 1.646 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW013381.D

Acq: 02 Oct 2019 16:29

Instrument :

MSVOA\_W

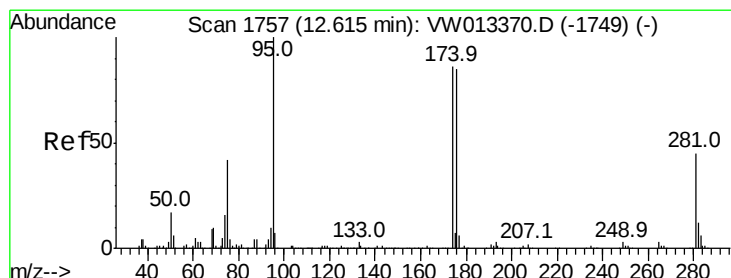
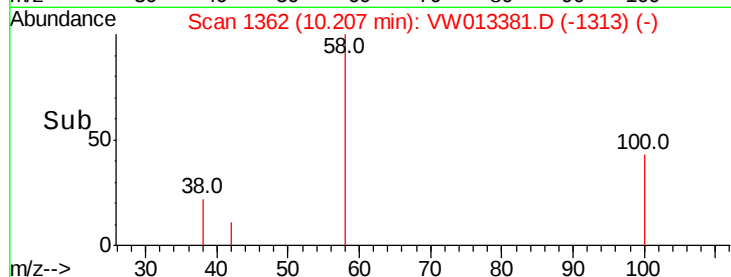
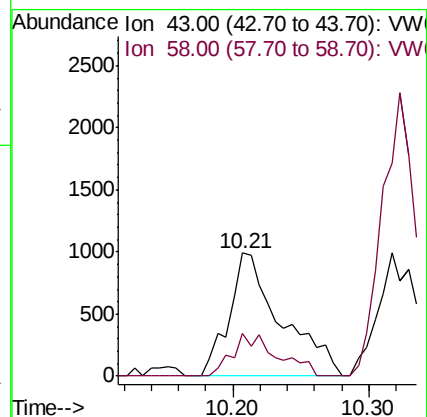
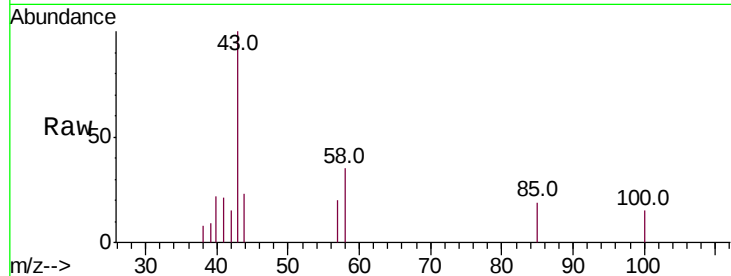
ClientSampled :

Tot Ion: 43 Resp: 2648

Ion Ratio Lower Upper

43 100

58 29.6 31.7 47.5#



#62

4-Bromofluorobenzene

Concen: 48.435 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW013381.D

Acq: 02 Oct 2019 16:29

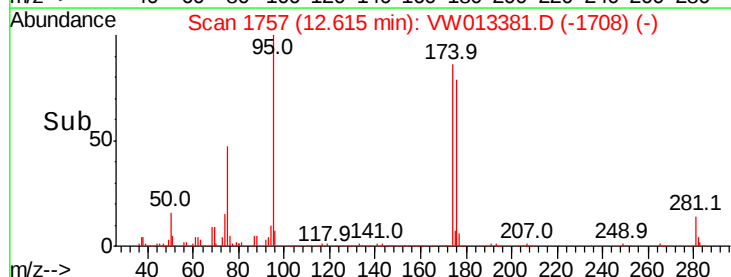
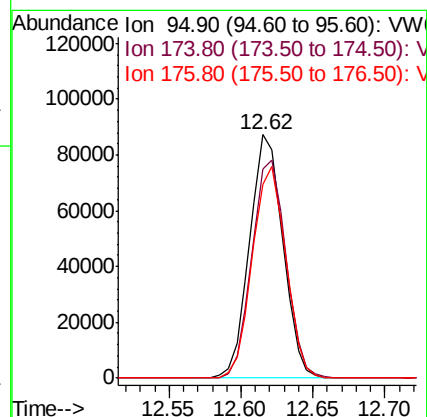
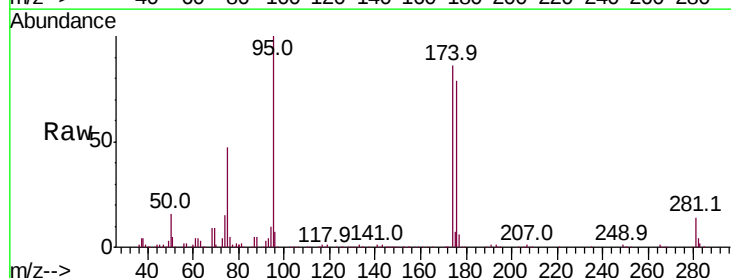
Tgt Ion: 95 Resp: 139750

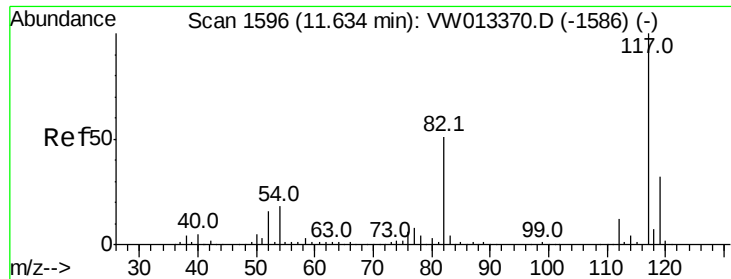
Ion Ratio Lower Upper

95 100

174 91.2 0.0 178.4

176 87.1 0.0 172.2

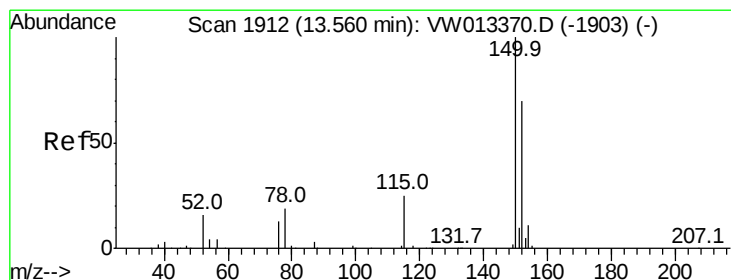
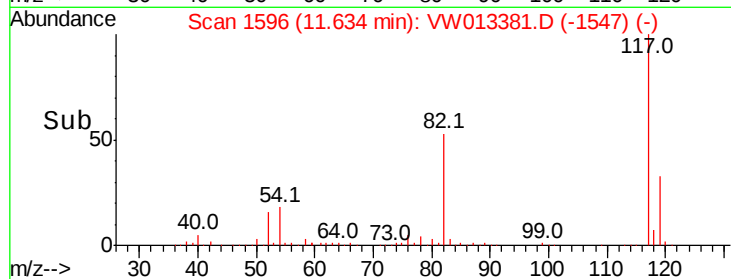
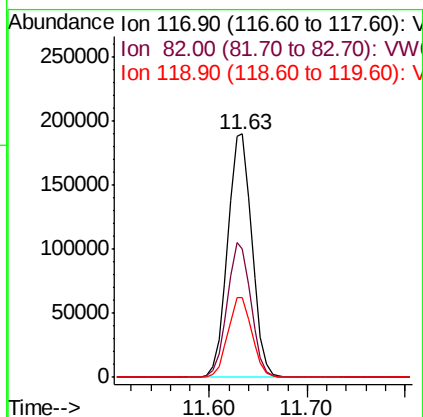
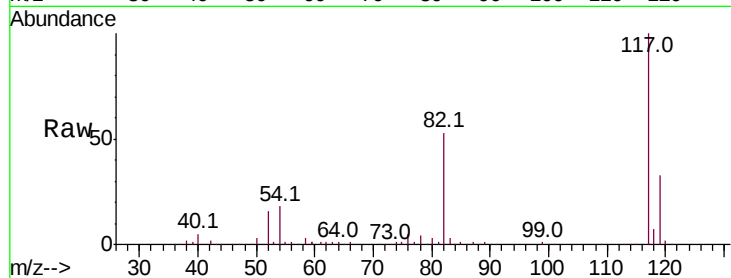




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW013381.D  
Acq: 02 Oct 2019 16:29

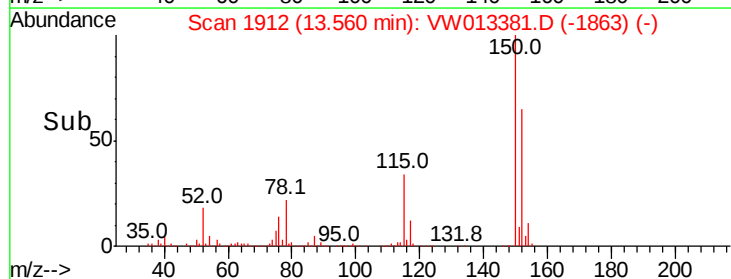
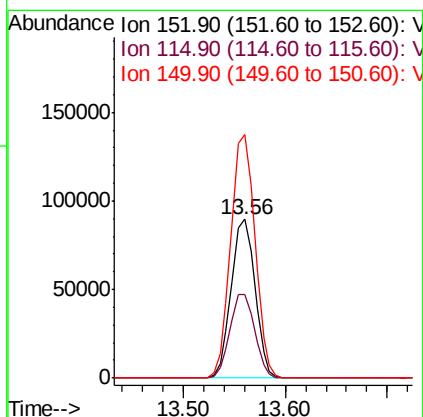
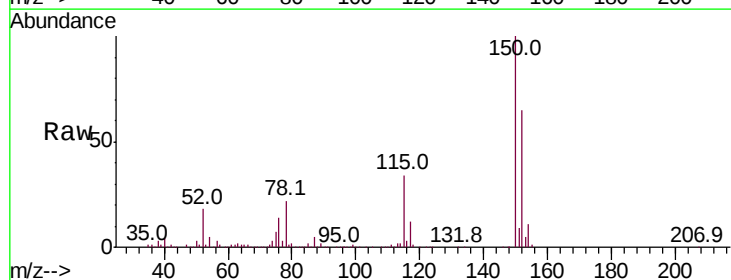
Instrument :  
MSVOA\_W  
ClientSampled :

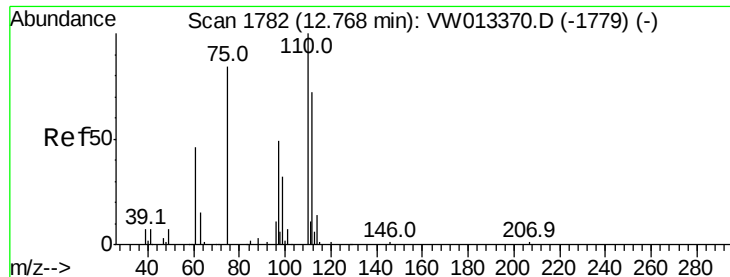
Tot Ion:117 Resp: 326359  
Ion Ratio Lower Upper  
117 100  
82 52.6 45.9 68.9  
119 32.7 26.2 39.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW013381.D  
Acq: 02 Oct 2019 16:29

Tgt Ion:152 Resp: 145196  
Ion Ratio Lower Upper  
152 100  
115 54.8 27.3 81.9  
150 155.3 0.0 349.0

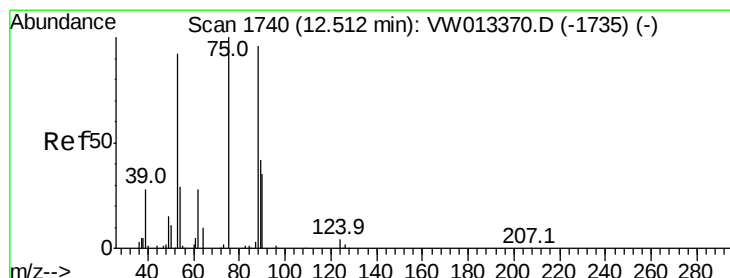
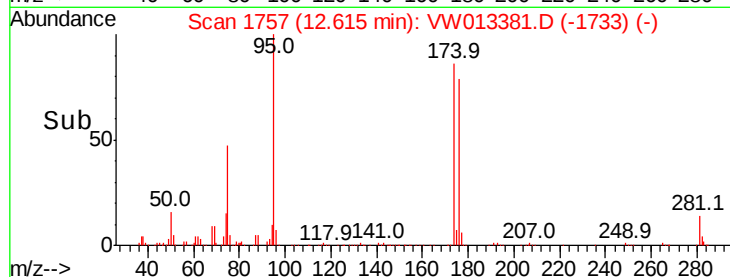
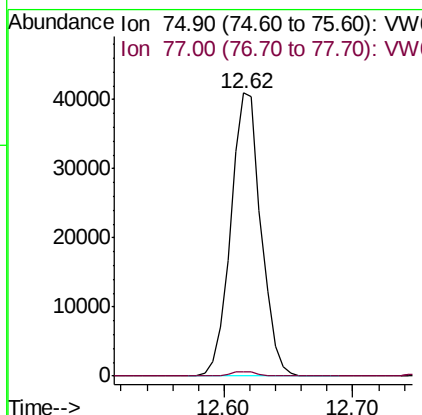
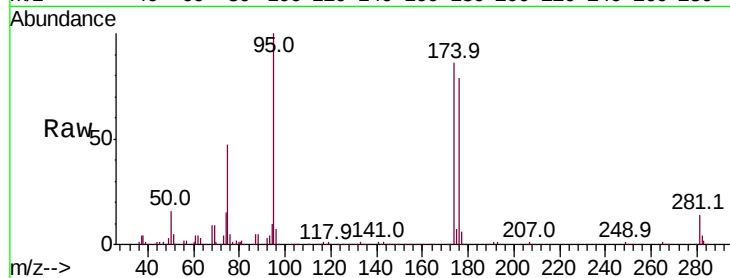




#76  
 1,2,3-Trichloropropane  
 Concen: 51.981 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.15 min  
 Lab File: VW013381.D  
 Acq: 02 Oct 2019 16:29

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion: 75 Resp: 67079  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 105.452 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. 0.10 min  
 Lab File: VW013381.D  
 Acq: 02 Oct 2019 16:29

Tgt Ion: 75 Resp: 67079  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 76.6 114.8#  
 89 0.1 33.5 50.3#

