

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111620\  
 Data File : VW017263.D  
 Acq On : 16 Nov 2020 17:41  
 Operator : SY/VA  
 Sample : L4727-10RE  
 Misc : 4.38G/10ML/MSVOA W/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0AC9RE

Quant Time: Nov 17 06:12:07 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Nov 17 06:08:23 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 34323    | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 27301    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 5556     | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 10469    | 24.22    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 96.88%   |
| 7) Chloroethane-d5             | 2.89   | 69    | 10222    | 30.68    | ug/L | -0.01    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 122.72%  |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 14821    | 19.17    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 76.68%   |
| 20) 2-Butanone-d5              | 7.10   | 46    | 4086     | 42.26    | ug/L | 0.02     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 84.52%   |
| 24) Chloroform-d               | 7.66   | 84    | 22187    | 27.69    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 110.76%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 11729    | 29.44    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 117.76%  |
| 29) Benzene-d6                 | 8.28   | 84    | 40972    | 29.47    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 117.88%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 12059    | 31.36    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 125.44%# |
| 37) Toluene-d8                 | 10.33  | 98    | 31191    | 23.79    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 95.16%   |
| 38) trans-1,3-Dichloropropene- | 10.59  | 79    | 3941     | 22.73    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 90.92%   |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 2453     | 36.55    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 73.10%   |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 8819     | 26.33    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 105.32%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 5962     | 30.46    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 121.84%# |

## Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.03  | 101  | 140      | 0.316 | ug/L # | 17     |
| 12) 1,1-Dichloroethene         | 4.02  | 96   | 131      | 0.308 | ug/L # | 1      |
| 13) Acetone                    | 4.12  | 43   | 269      | 4.156 | ug/L # | 40     |
| 15) Methyl Acetate             | 4.43  | 43   | 106      | 0.661 | ug/L # | 48     |
| 16) Methylene chloride         | 4.92  | 84   | 805      | 1.740 | ug/L   | 90     |
| 21) 2-Butanone                 | 7.18  | 43   | 81       | 0.779 | ug/L # | 42     |
| 35) Trichloroethene            | 8.84  | 95   | 1067     | 2.657 | ug/L # | 2      |
| 36) Methylcyclohexane          | 9.28  | 83   | 3391     | 5.248 | ug/L # | 21     |
| 40) 1,2-Dichloropropane        | 9.27  | 63   | 1438     | 4.291 | ug/L # | 84     |
| 42) cis-1,3-Dichloropropene    | 10.05 | 75   | 329      | 0.620 | ug/L   | 97     |
| 43) 4-Methyl-2-pentanone       | 10.22 | 43   | 381      | 1.843 | ug/L # | 52     |
| 45) trans-1,3-Dichloropropene  | 10.58 | 75   | 147      | 0.322 | ug/L # | 1      |
| 46) 1,1,2-Trichloroethane      | 10.71 | 97   | 159      | 0.550 | ug/L # | 16     |
| 49) 2-Hexanone                 | 10.93 | 43   | 321      | 2.575 | ug/L # | 42     |
| 59) 1,2,3-Trichloropropane     | 13.55 | 75   | 689      | 2.872 | ug/L   | 95     |
| 69) Naphthalene                | 15.36 | 128  | 145      | 0.388 | ug/L # | 70     |

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Instrument :  
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Quant Time: Nov 17 06:12:07 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110420S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Nov 17 06:08:23 2020  
Response via : Initial Calibration

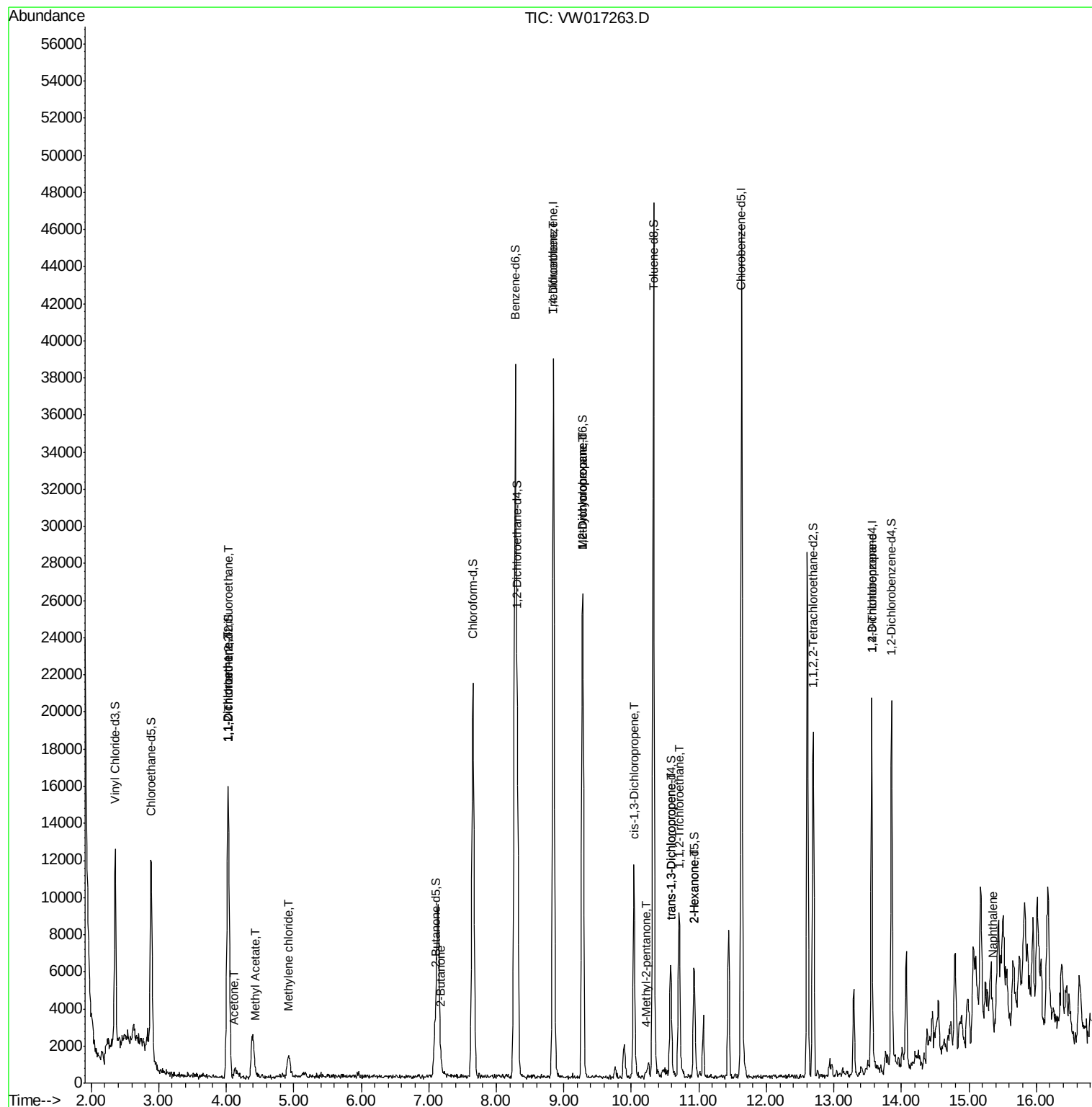
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

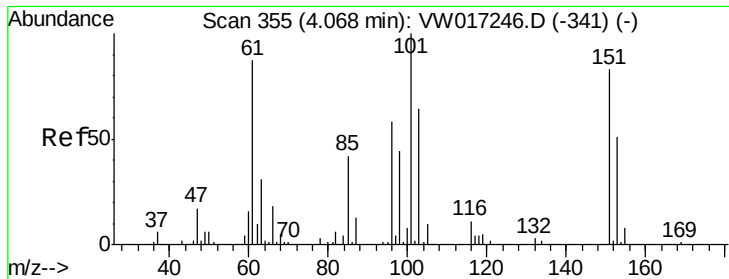
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 17 06:12:07 2020  
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Response via : Initial Calibration





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.316 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.04 min

Lab File: VW017263.D

Acq: 16 Nov 2020 17:41

Instrument :

MSVOA\_W

ClientSampleId :

C0AC9RE

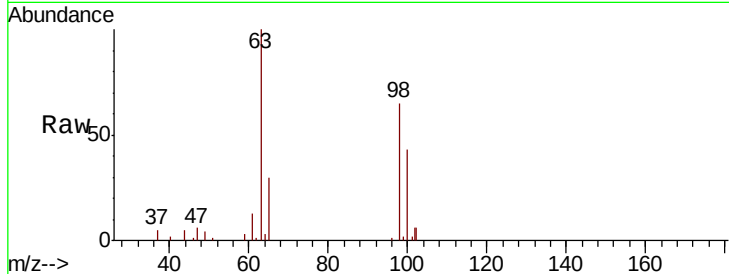
Tot Ion:101 Resp: 140

Ion Ratio Lower Upper

101 100

85 0.0 32.8 49.2#

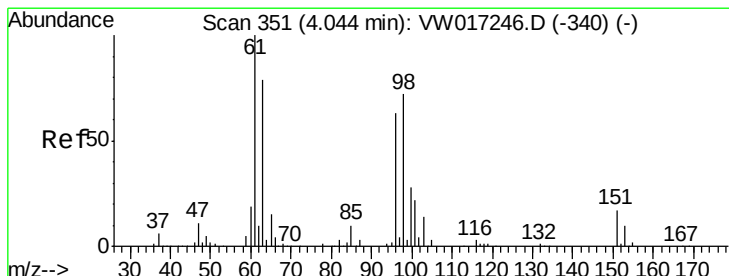
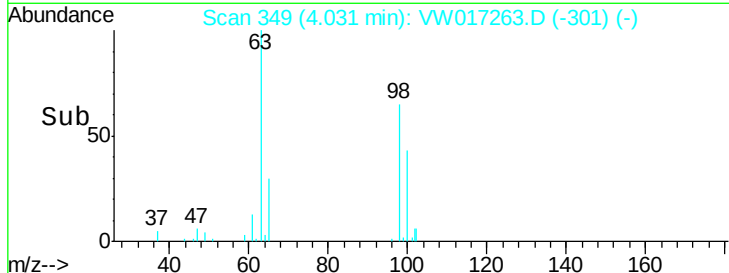
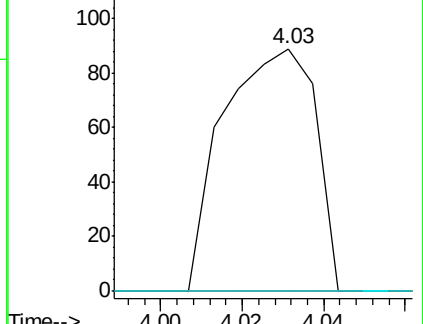
151 0.0 65.4 98.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.308 ug/L

RT: 4.02 min Scan# 347

Delta R.T. -0.02 min

Lab File: VW017263.D

Acq: 16 Nov 2020 17:41

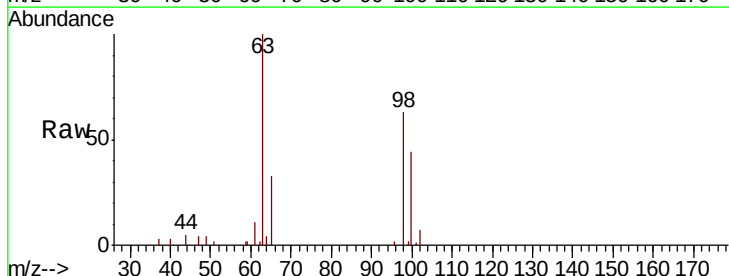
Tgt Ion: 96 Resp: 131

Ion Ratio Lower Upper

96 100

61 578.0 103.8 192.8#

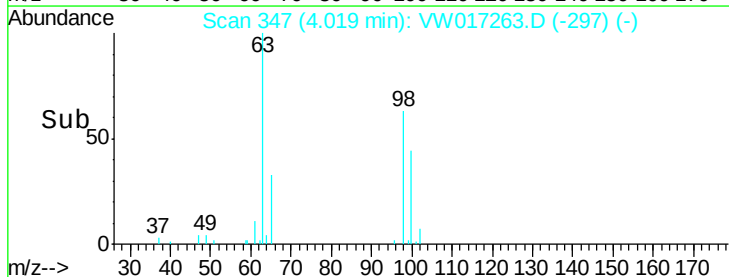
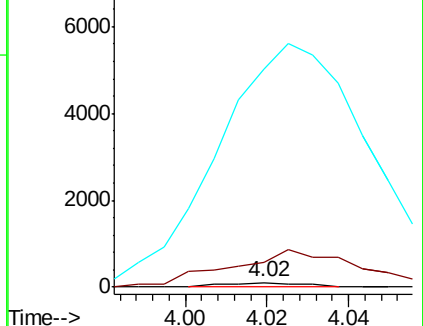
63 5032.0 84.4 156.7#

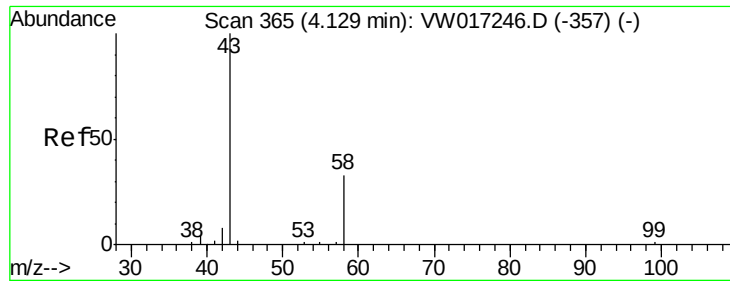


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 4.156 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW017263.D

Acq: 16 Nov 2020 17:41

Instrument :

MSVOA\_W

ClientSampleId :

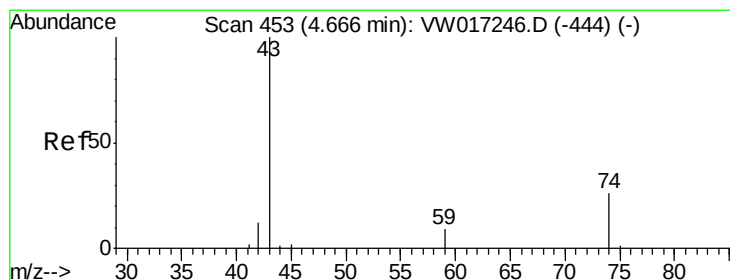
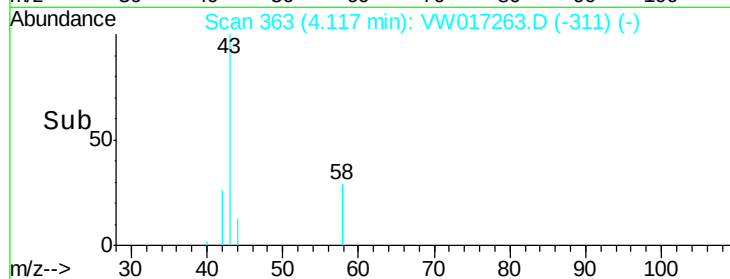
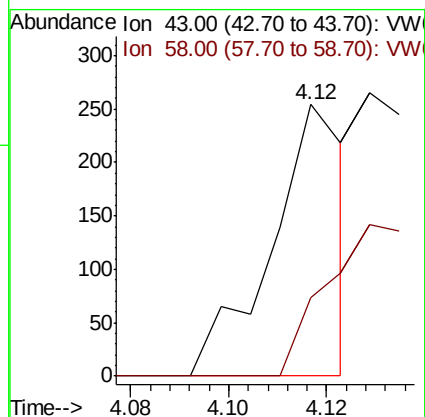
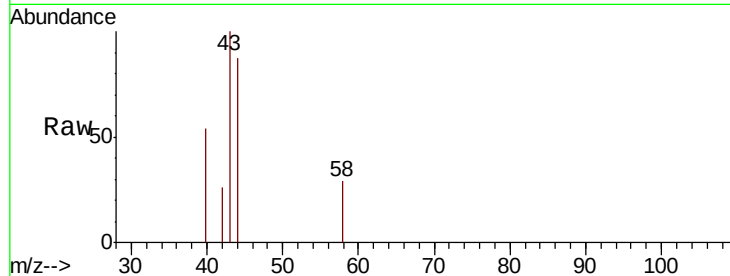
C0AC9RE

Tot Ion: 43 Resp: 269

Ion Ratio Lower Upper

43 100

58 69.5 0.0 69.2#



#15

Methyl Acetate

Concen: 0.661 ug/L

RT: 4.43 min Scan# 415

Delta R.T. -0.23 min

Lab File: VW017263.D

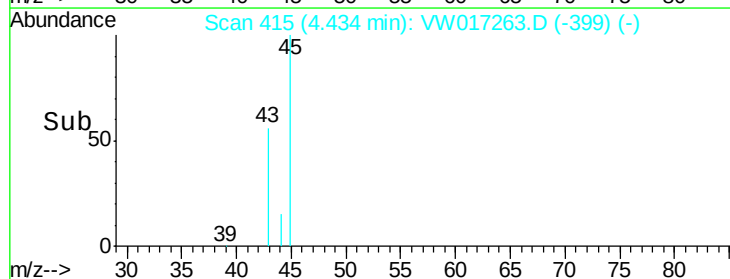
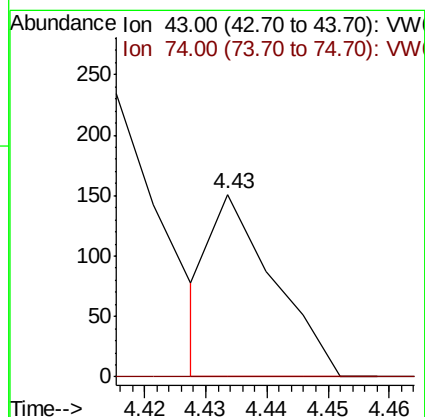
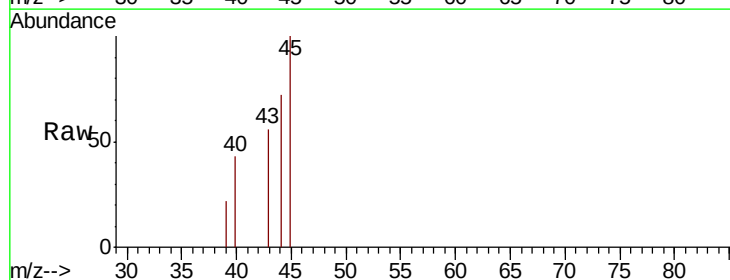
Acq: 16 Nov 2020 17:41

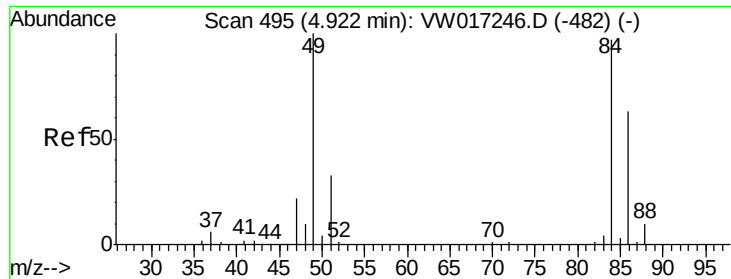
Tgt Ion: 43 Resp: 106

Ion Ratio Lower Upper

43 100

74 0.0 21.5 32.3#

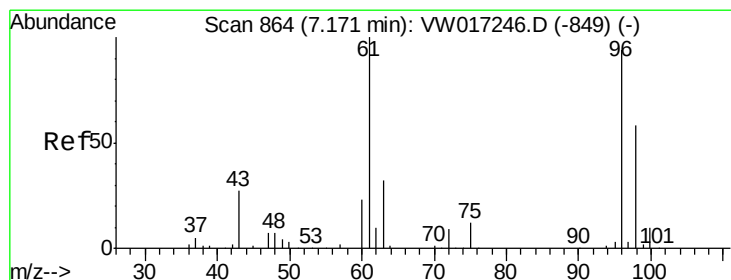
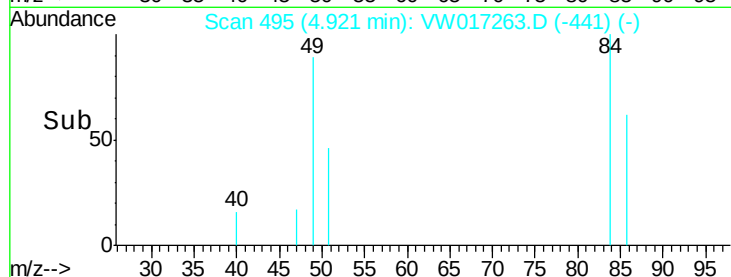
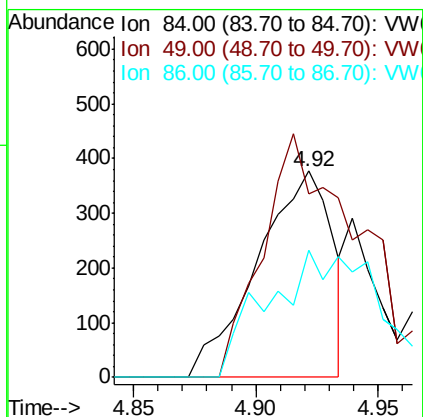
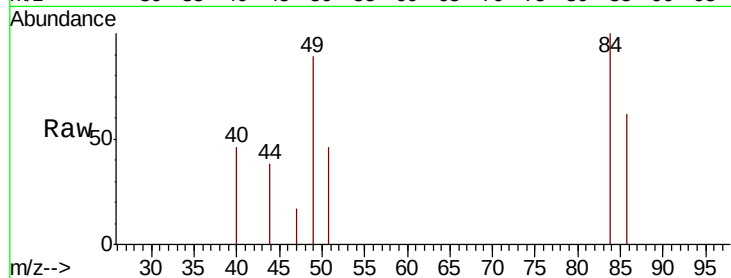




#16  
Methvlene chloride  
Concen: 1.740 ug/L  
RT: 4.92 min Scan# 495  
Delta R.T. -0.00 min  
Lab File: VW017263.D  
Acq: 16 Nov 2020 17:41

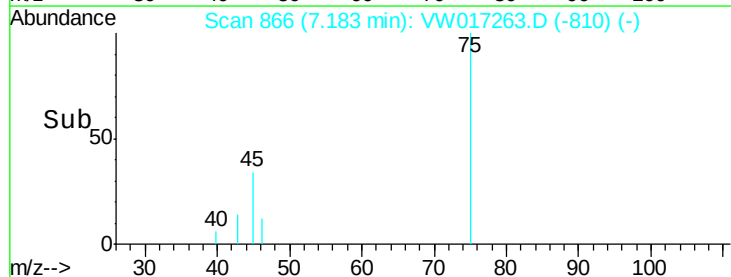
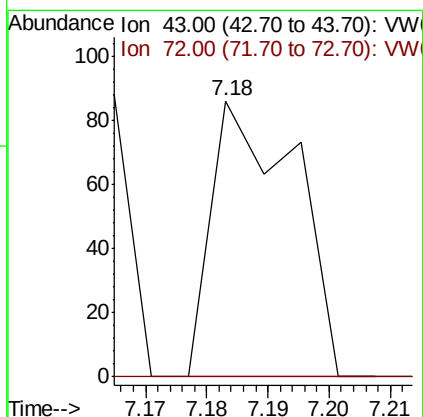
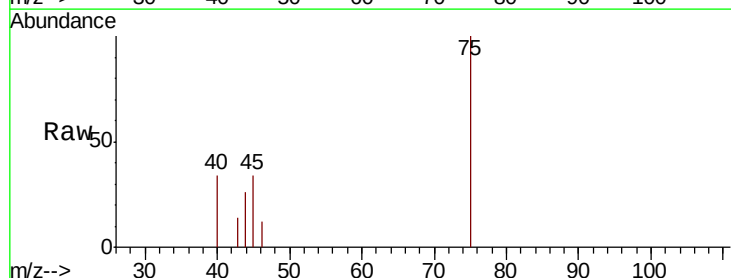
Instrument :  
MSVOA\_W  
ClientSampleId :  
C0AC9RE

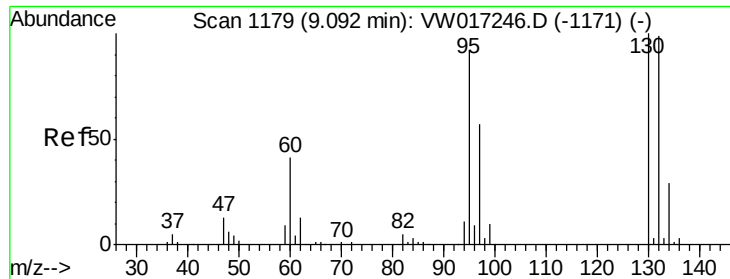
Tot Ion: 84 Resp: 805  
Ion Ratio Lower Upper  
84 100  
49 89.1 72.3 134.3  
86 61.5 45.1 83.7



#21  
2-Butanone  
Concen: 0.779 ug/L  
RT: 7.18 min Scan# 866  
Delta R.T. 0.01 min  
Lab File: VW017263.D  
Acq: 16 Nov 2020 17:41

Tgt Ion: 43 Resp: 81  
Ion Ratio Lower Upper  
43 100  
72 0.0 16.1 48.3#





#35

Trichloroethene

Concen: 2.657 ug/L

RT: 8.84 min Scan# 1138

Delta R.T. -0.25 min

Lab File: VW017263.D

Acq: 16 Nov 2020 17:41

Instrument :

MSVOA\_W

ClientSampleId :

C0AC9RE

Tot Ion: 95 Resp: 1067

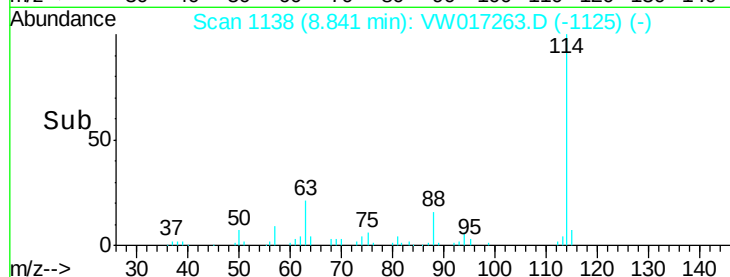
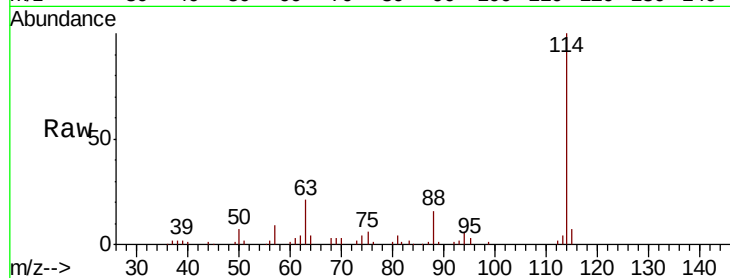
Ion Ratio Lower Upper

95 100

97 0.0 45.0 83.6#

132 0.0 73.7 136.9#

130 0.0 77.1 143.1#

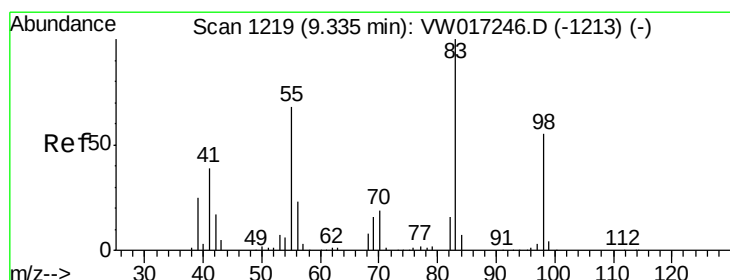
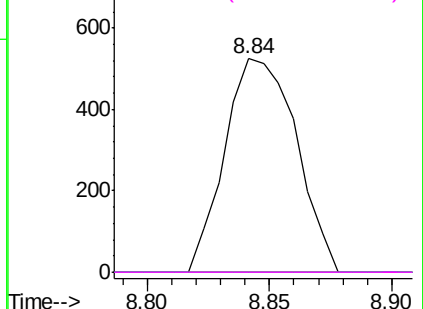


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW



#36

Methylcyclohexane

Concen: 5.248 ug/L

RT: 9.28 min Scan# 1210

Delta R.T. -0.06 min

Lab File: VW017263.D

Acq: 16 Nov 2020 17:41

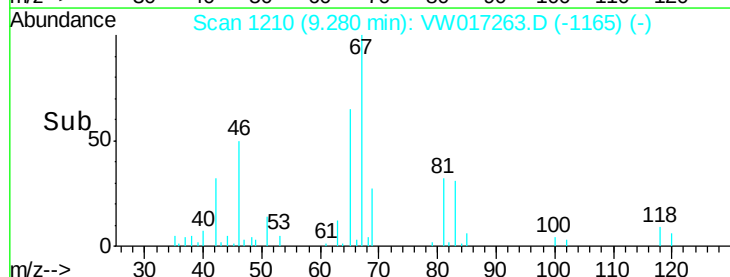
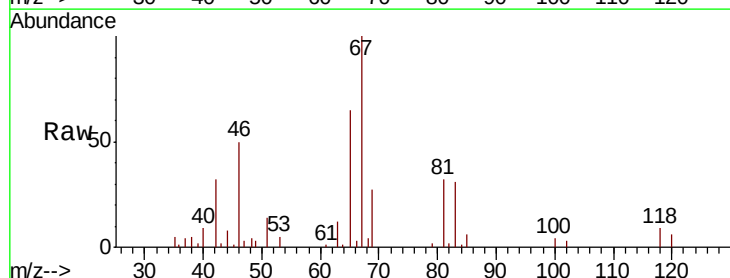
Tgt Ion: 83 Resp: 3391

Ion Ratio Lower Upper

83 100

55 0.0 54.4 81.6#

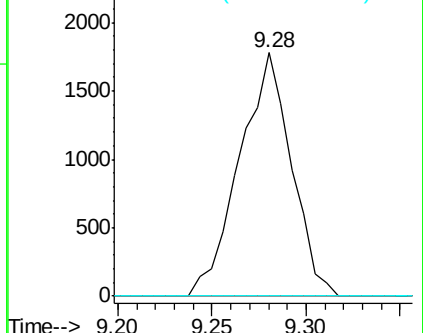
98 0.0 40.5 60.7#

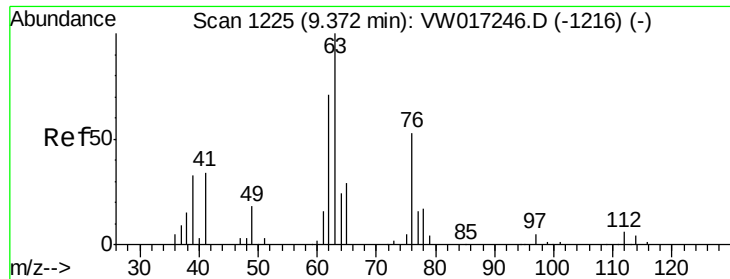


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

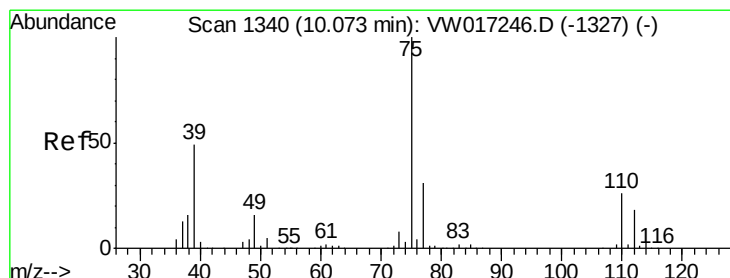
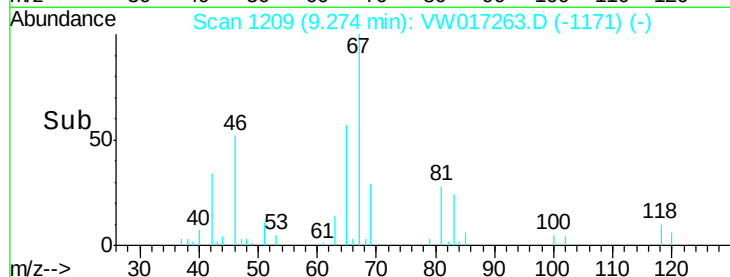
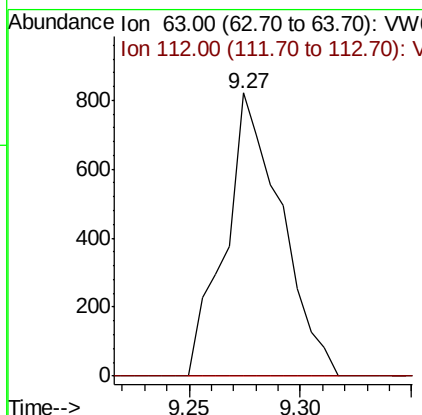
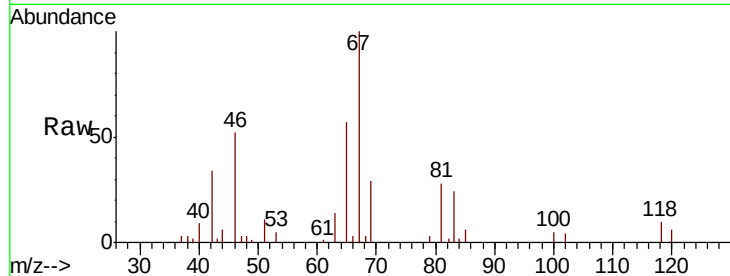




#40  
 1,2-Dichloropropane  
 Concen: 4.291 ug/L  
 RT: 9.27 min Scan# 1209  
 Delta R.T. -0.10 min  
 Lab File: VW017263.D  
 Acq: 16 Nov 2020 17:41

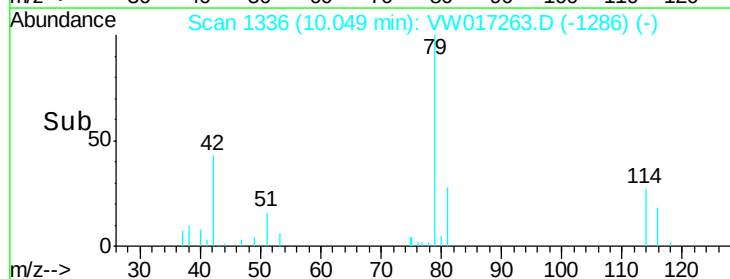
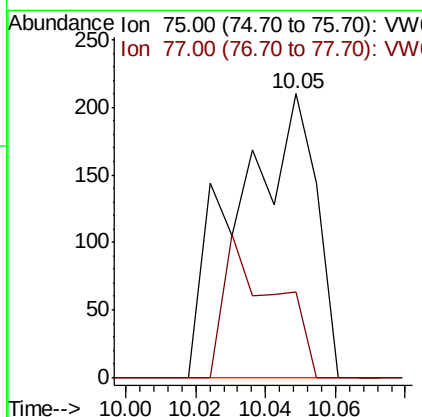
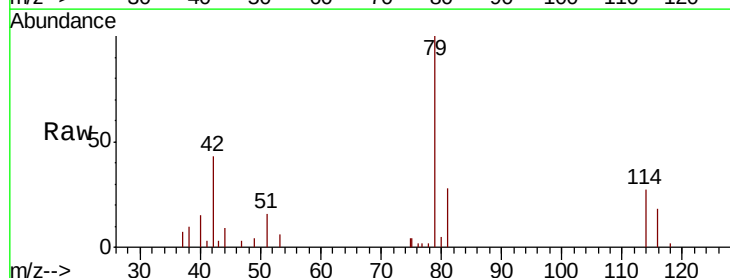
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0AC9RE

Tot Ion: 63 Resp: 1438  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 4.2 6.2#

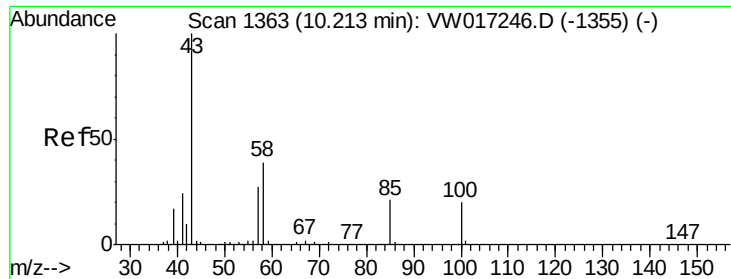


#42  
 cis-1,3-Dichloropropene  
 Concen: 0.620 ug/L  
 RT: 10.05 min Scan# 1336  
 Delta R.T. -0.02 min  
 Lab File: VW017263.D  
 Acq: 16 Nov 2020 17:41

Tgt Ion: 75 Resp: 329  
 Ion Ratio Lower Upper  
 75 100  
 77 30.0 22.0 41.0



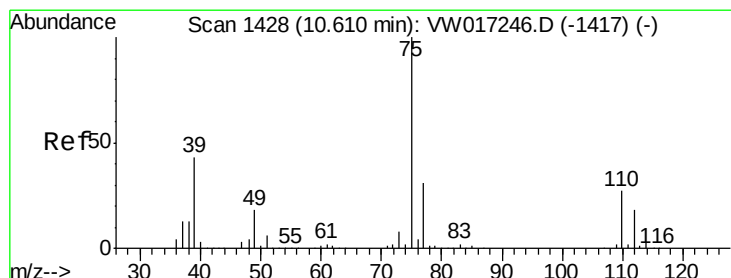
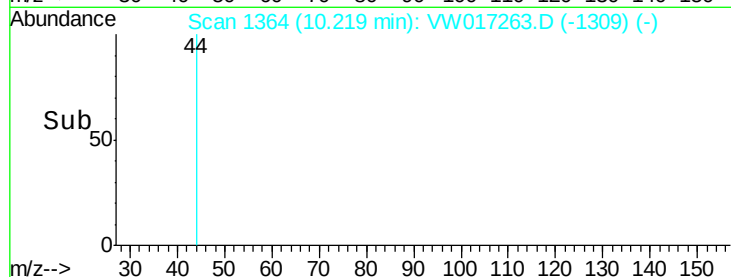
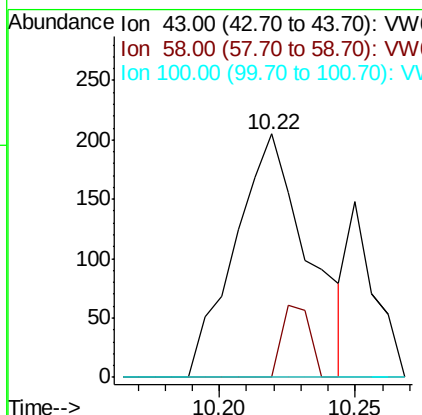
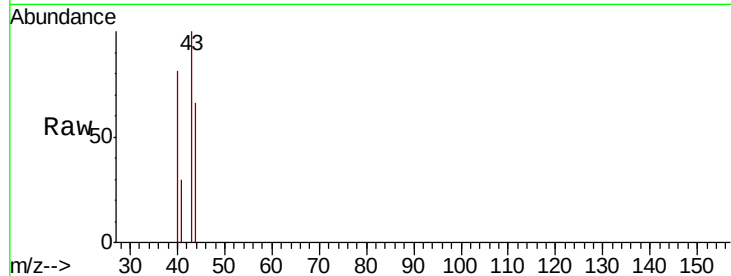




#43  
4-Methyl-2-pentanone  
Concen: 1.843 ug/L  
RT: 10.22 min Scan# 1364  
Delta R.T. 0.01 min  
Lab File: VW017263.D  
Acq: 16 Nov 2020 17:41

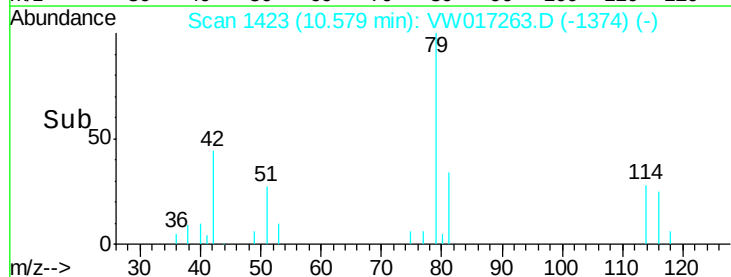
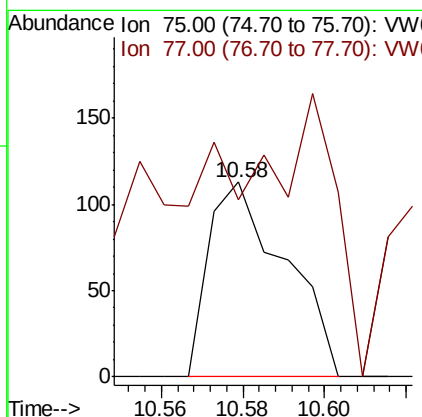
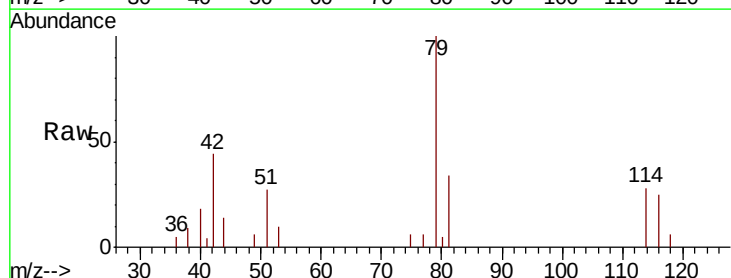
Instrument :  
MSVOA\_W  
ClientSampled :  
C0AC9RE

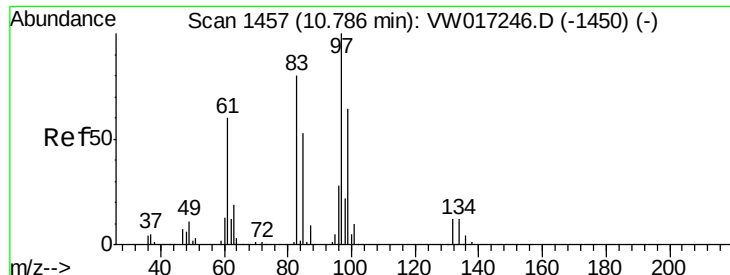
Tot Ion: 43 Resp: 381  
Ion Ratio Lower Upper  
43 100  
58 11.3 35.0 52.6#  
100 0.0 16.6 24.8#



#45  
trans-1,3-Dichloropropene  
Concen: 0.322 ug/L  
RT: 10.58 min Scan# 1423  
Delta R.T. -0.03 min  
Lab File: VW017263.D  
Acq: 16 Nov 2020 17:41

Tgt Ion: 75 Resp: 147  
Ion Ratio Lower Upper  
75 100  
77 91.2 22.1 41.1#

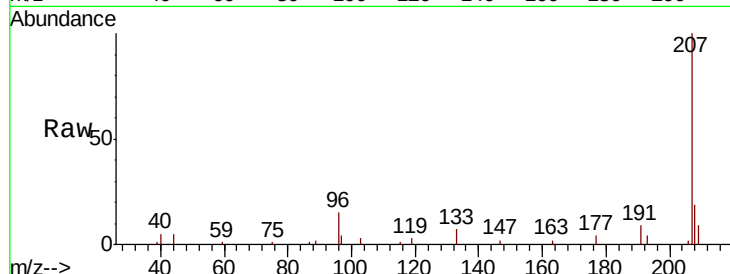




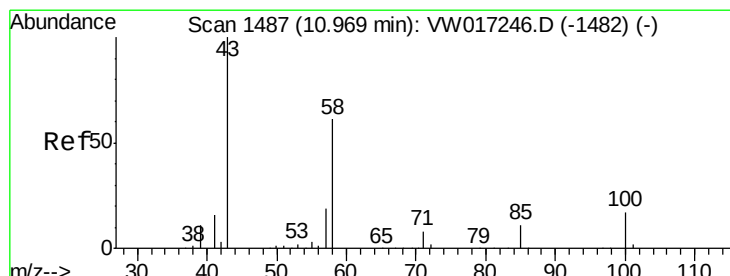
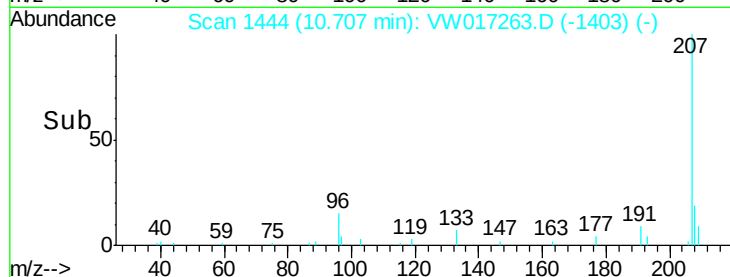
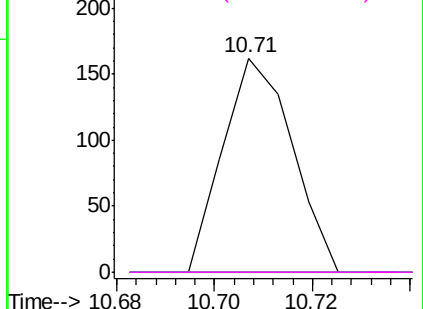
#46  
 1,1,2-Trichloroethane  
 Concen: 0.550 ug/L  
 RT: 10.71 min Scan# 1444  
 Delta R.T. -0.08 min  
 Lab File: VW017263.D  
 Acq: 16 Nov 2020 17:41

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0AC9RE

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 159    |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 0.0   | 57.3  | 106.5# |
| 85       | 0.0   | 37.2  | 69.0#  |
| 99       | 0.0   | 45.7  | 84.9#  |

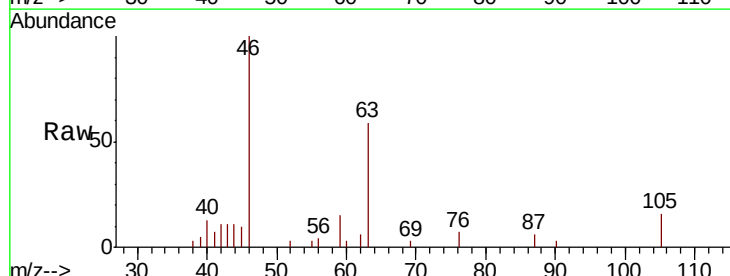


Abundance Ion 97.00 (96.70 to 97.70): VW  
 Ion 83.00 (82.70 to 83.70): VW  
 Ion 85.00 (84.70 to 85.70): VW  
 Ion 99.00 (98.70 to 99.70): VW

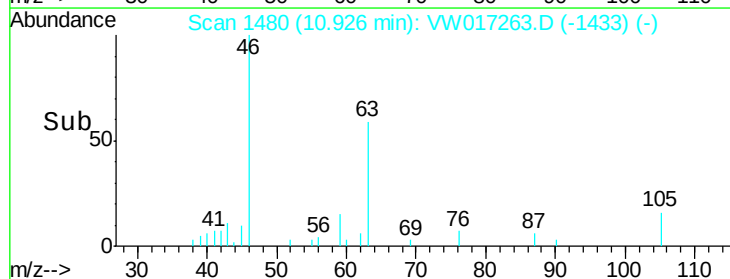
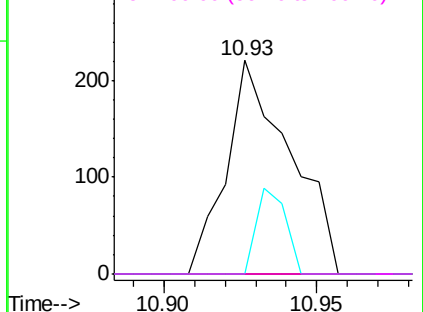


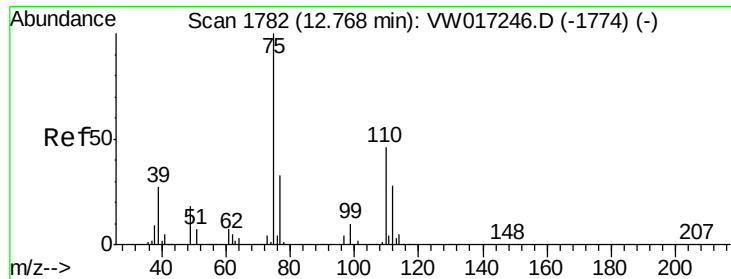
#49  
 2-Hexanone  
 Concen: 2.575 ug/L  
 RT: 10.93 min Scan# 1480  
 Delta R.T. -0.04 min  
 Lab File: VW017263.D  
 Acq: 16 Nov 2020 17:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 321   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 0.0   | 50.6  | 75.8# |
| 57       | 18.4  | 17.8  | 26.6  |
| 100      | 0.0   | 13.9  | 20.9# |



Abundance Ion 43.00 (42.70 to 43.70): VW  
 Ion 58.00 (57.70 to 58.70): VW  
 Ion 57.00 (56.70 to 57.70): VW  
 Ion 100.00 (99.70 to 100.70): VW

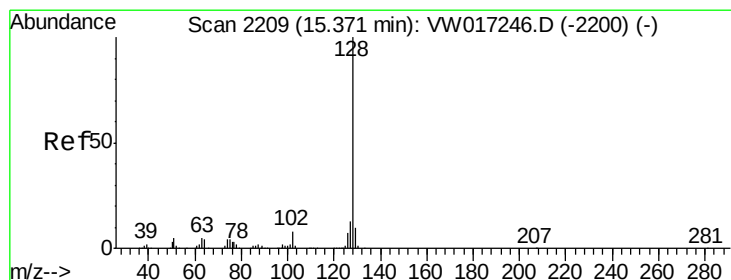
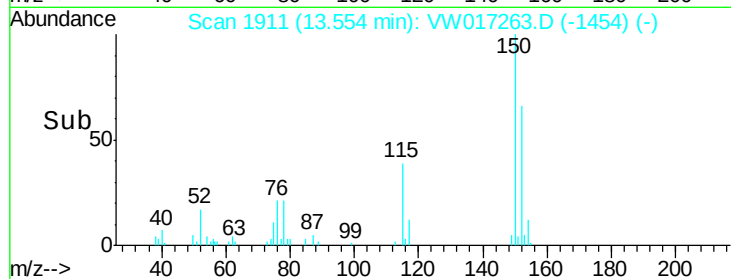
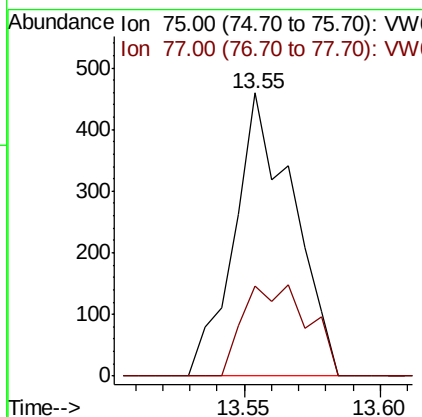
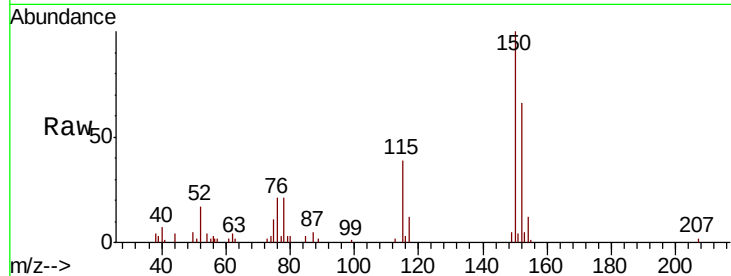




#59  
 1,2,3-Trichloropropane  
 Concen: 2.872 ug/L  
 RT: 13.55 min Scan# 1911  
 Delta R.T. 0.79 min  
 Lab File: VW017263.D  
 Acq: 16 Nov 2020 17:41

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 C0AC9RE

Tot Ion: 75 Resp: 689  
 Ion Ratio Lower Upper  
 75 100  
 77 35.6 26.4 39.6



#69  
 Naphthalene  
 Concen: 0.388 ug/L  
 RT: 15.36 min Scan# 2207  
 Delta R.T. -0.01 min  
 Lab File: VW017263.D  
 Acq: 16 Nov 2020 17:41

Tgt Ion: 128 Resp: 145  
 Ion Ratio Lower Upper  
 128 100  
 129 0.0 8.6 12.8#  
 127 0.0 10.2 15.2#

