

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102020\  
 Data File : VW016948.D  
 Acq On : 20 Oct 2020 12:14  
 Operator : SY/VA  
 Sample : L4471-02  
 Misc : 5.31G/10ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Oct 20 22:50:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Oct 20 22:43:28 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 596680   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 521662   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 250495   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 117733   | 20.00    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 80.00%  |
| 7) Chloroethane-d5             | 2.90   | 69    | 110335   | 22.35    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 89.40%  |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 188681   | 15.10    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 60.40%  |
| 20) 2-Butanone-d5              | 7.09   | 46    | 53913    | 40.44    | ug/L | 0.01    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 80.88%  |
| 24) Chloroform-d               | 7.65   | 84    | 300982   | 23.91    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 95.64%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 140343   | 23.08    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 92.32%  |
| 29) Benzene-d6                 | 8.28   | 84    | 590735   | 24.93    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 99.72%  |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 166146   | 26.09    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 104.36% |
| 37) Toluene-d8                 | 10.33  | 98    | 536237   | 23.99    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 95.96%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 57678    | 20.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 82.16%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 46446    | 47.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 94.34%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 118875   | 23.11    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 92.44%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 201058   | 25.31    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 101.24% |

## Target Compounds

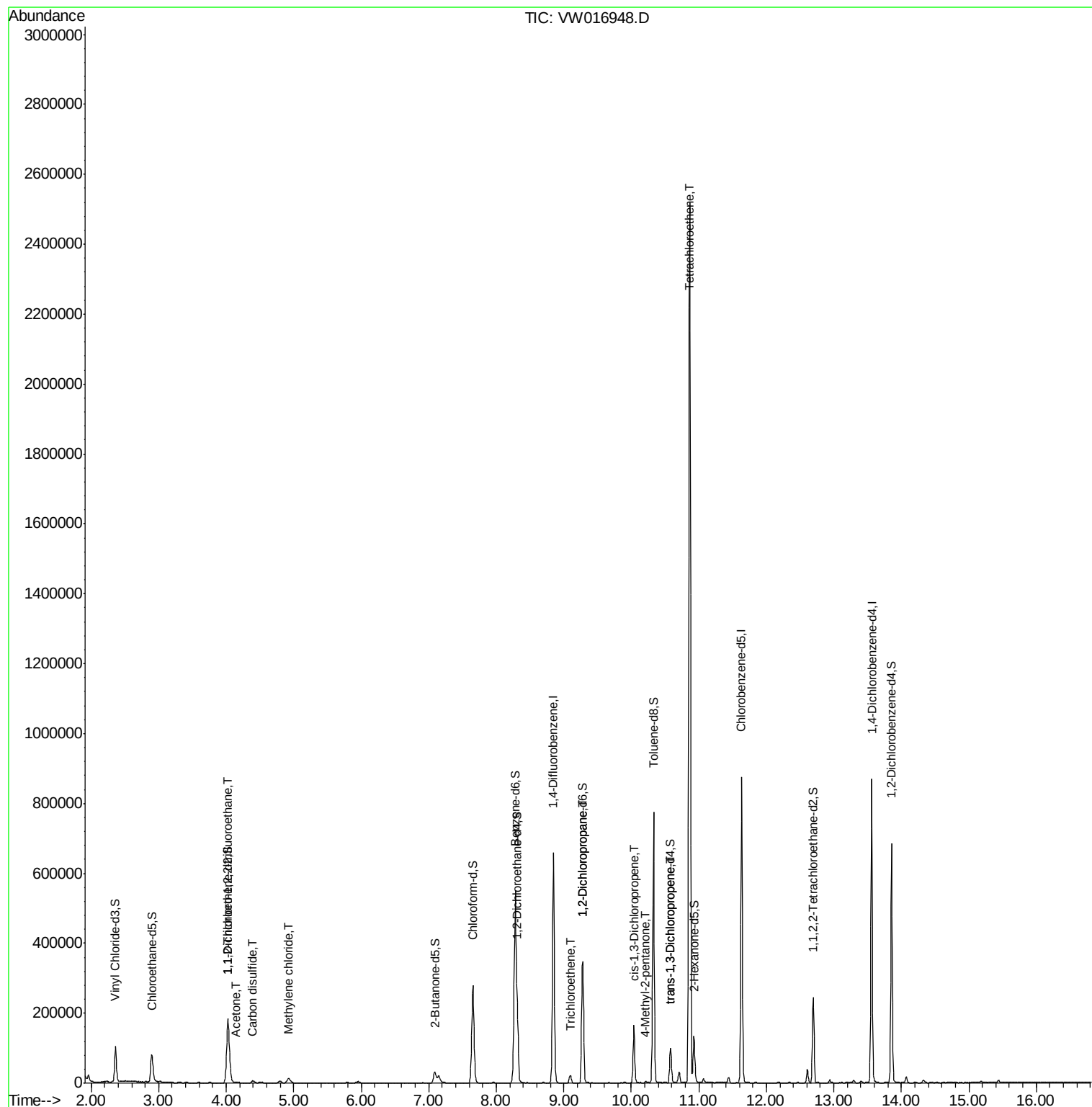
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.03  | 101  | 2100     | 0.261  | ug/L # | 18     |
| 13) Acetone                    | 4.15  | 43   | 3741     | 3.708  | ug/L   | 82     |
| 14) Carbon disulfide           | 4.39  | 76   | 14771    | 0.668  | ug/L # | 92     |
| 16) Methylene chloride         | 4.92  | 84   | 11825    | 1.436  | ug/L   | 89     |
| 35) Trichloroethene            | 9.10  | 95   | 7570     | 0.955  | ug/L   | 98     |
| 40) 1,2-Dichloropropane        | 9.27  | 63   | 18071    | 2.853  | ug/L # | 84     |
| 42) cis-1,3-Dichloropropene    | 10.04 | 75   | 3792     | 0.375  | ug/L # | 70     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 2594     | 0.813  | ug/L   | 93     |
| 45) trans-1,3-Dichloropropene  | 10.58 | 75   | 2602     | 0.306  | ug/L   | 86     |
| 47) Tetrachloroethene          | 10.87 | 164  | 627361   | 85.396 | ug/L   | 97     |

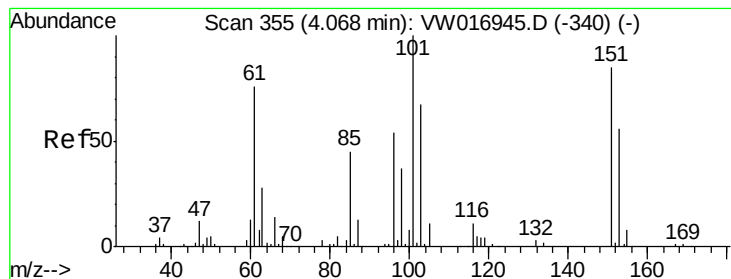
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L4471-02  
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ALS Vial : 6 Sample Multiplier: 1

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MSVOA\_W  
ClientSampleId :

Quant Time: Oct 20 22:50:48 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Oct 20 22:43:28 2020  
Response via : Initial Calibration





#11

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

Concen: 0.261 ug/L

RT: 4.03 min Scan# 348

Delta R.T. -0.04 min

Lab File: VW016948.D

Acq: 20 Oct 2020 12:14

Instrument :

MSVOA\_W

ClientSampleId :

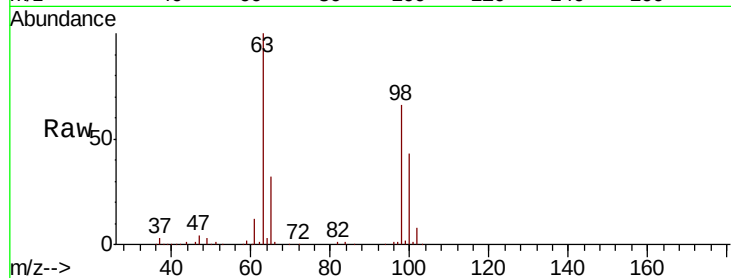
Tot Ion:101 Resp: 2100

Ion Ratio Lower Upper

101 100

85 0.0 31.7 47.5#

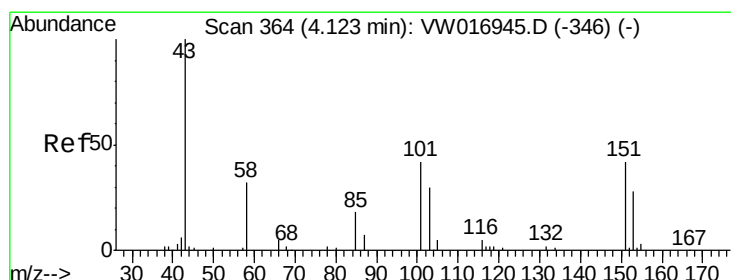
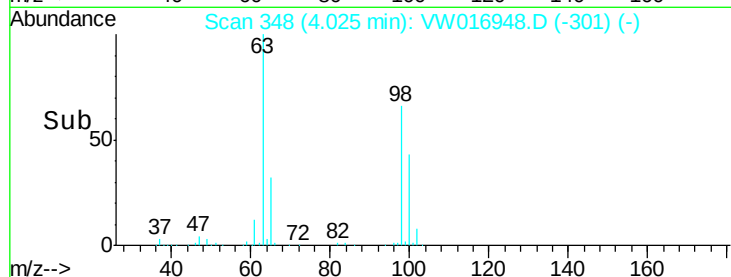
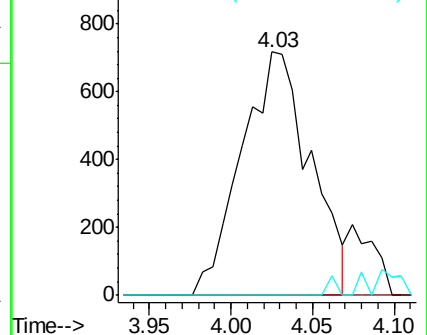
151 1.2 66.6 99.8#



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



#13

Acetone

Concen: 3.708 ug/L

RT: 4.15 min Scan# 369

Delta R.T. 0.03 min

Lab File: VW016948.D

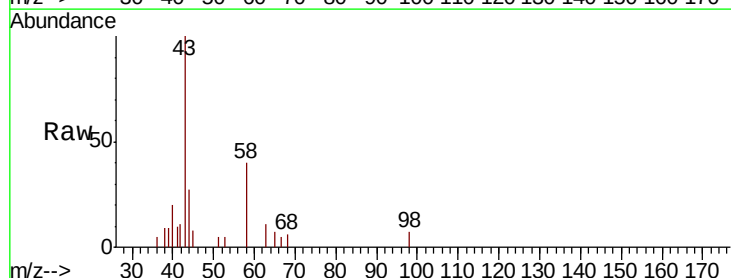
Acq: 20 Oct 2020 12:14

Tgt Ion: 43 Resp: 3741

Ion Ratio Lower Upper

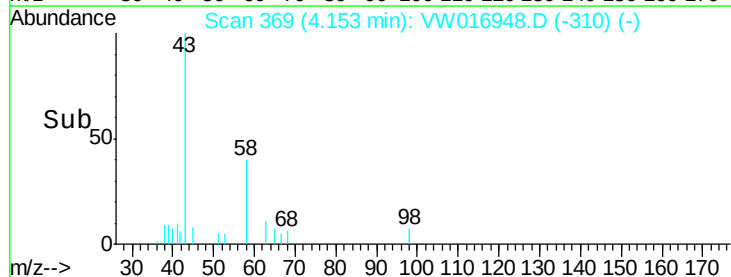
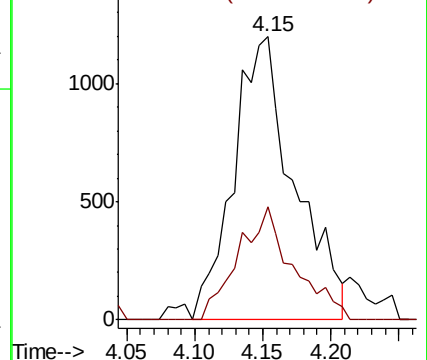
43 100

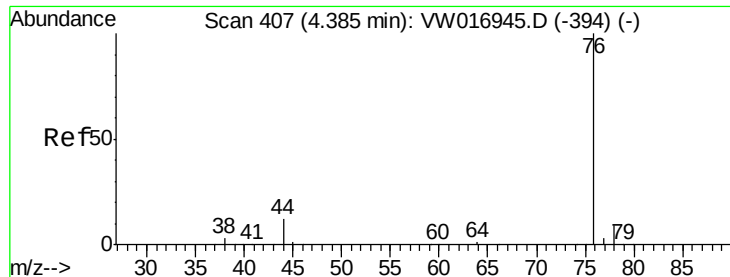
58 23.5 0.0 67.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#14

Carbon disulfide

Concen: 0.668 ug/L

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW016948.D

Acq: 20 Oct 2020 12:14

Instrument :

MSVOA\_W

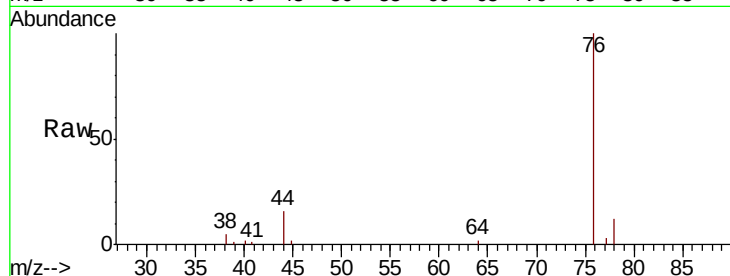
ClientSampled :

Tot Ion: 76 Resp: 14771

Ion Ratio Lower Upper

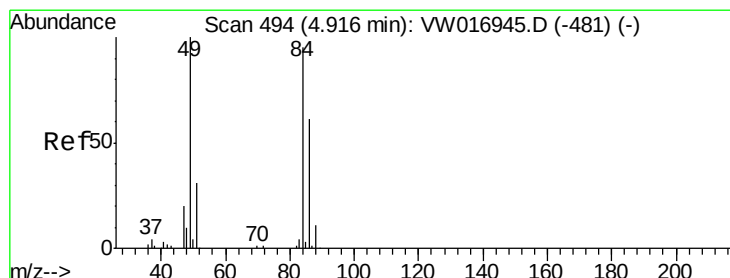
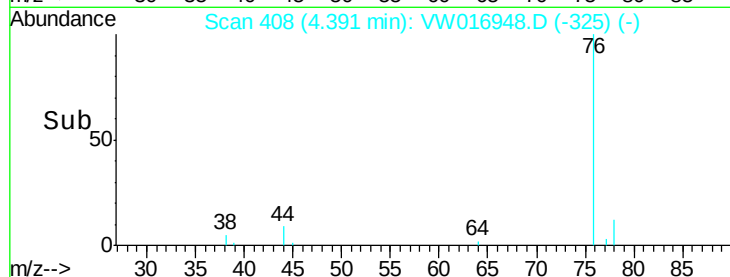
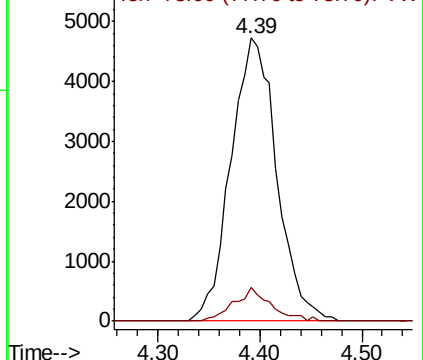
76 100

78 12.1 7.4 11.0#



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW



#16

Methylene chloride

Concen: 1.436 ug/L

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW016948.D

Acq: 20 Oct 2020 12:14

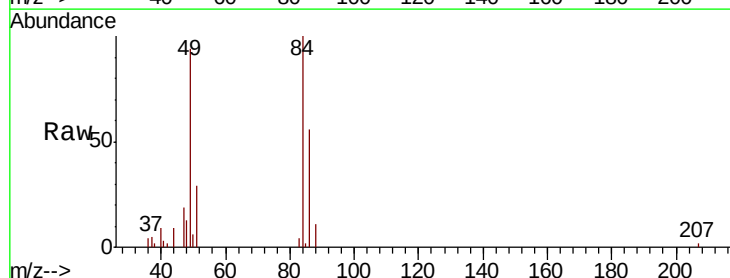
Tgt Ion: 84 Resp: 11825

Ion Ratio Lower Upper

84 100

49 94.3 73.1 135.8

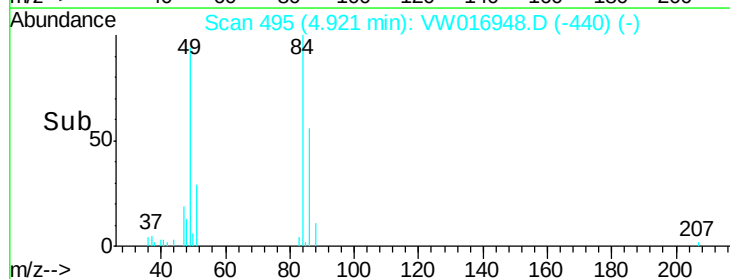
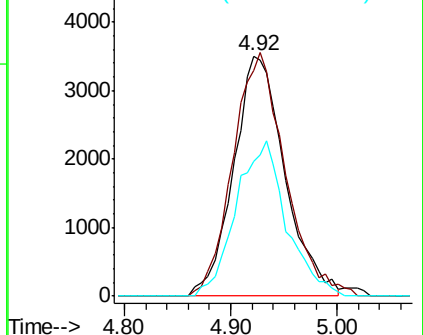
86 56.1 46.0 85.4

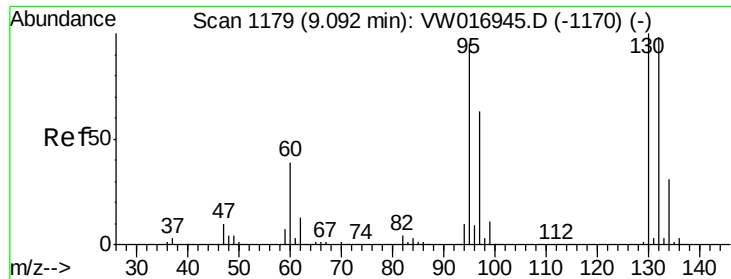


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW

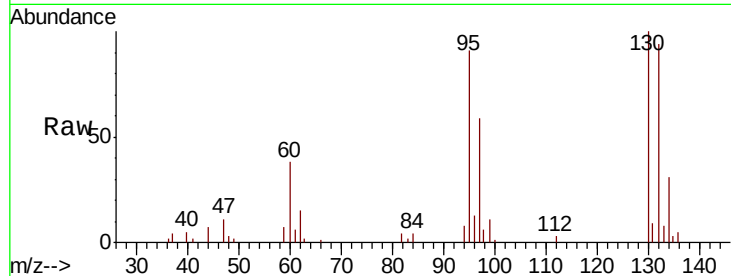




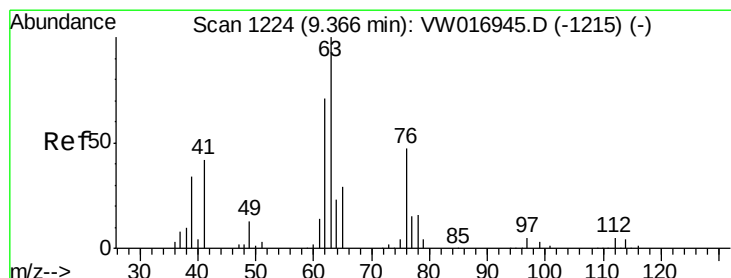
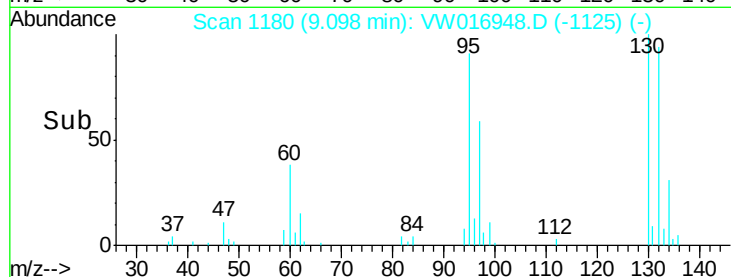
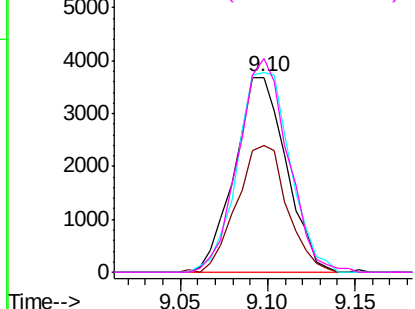
#35  
 Trichloroethene  
 Concen: 0.955 ug/L  
 RT: 9.10 min Scan# 1180  
 Delta R.T. 0.01 min  
 Lab File: VW016948.D  
 Acq: 20 Oct 2020 12:14

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion: 95 Resp: 7570  
 Ion Ratio Lower Upper  
 95 100  
 97 63.4 44.7 83.1  
 132 105.1 73.8 137.2  
 130 105.4 77.1 143.3

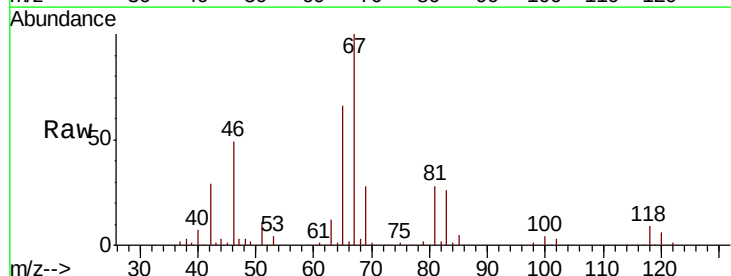


Abundance Ion 95.00 (94.70 to 95.70): VW  
 Ion 97.00 (96.70 to 97.70): VW  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

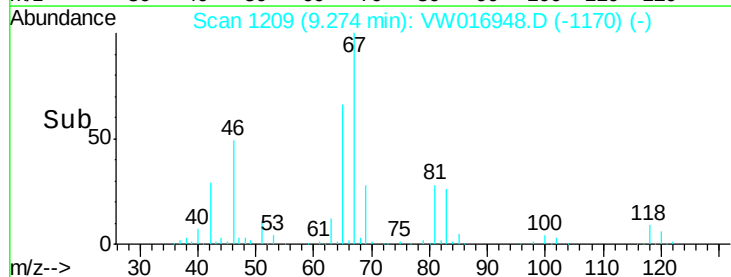
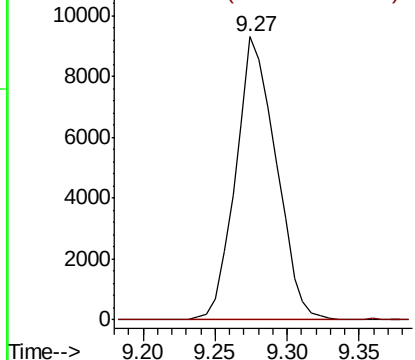


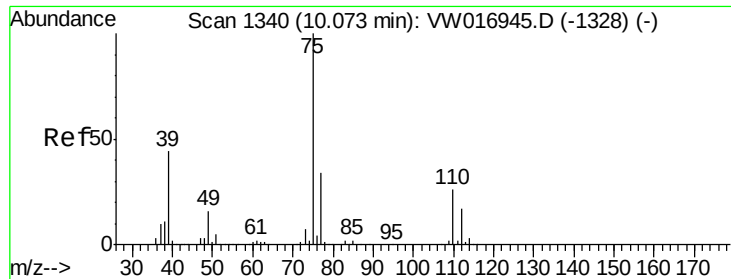
#40  
 1,2-Dichloropropane  
 Concen: 2.853 ug/L  
 RT: 9.27 min Scan# 1209  
 Delta R.T. -0.09 min  
 Lab File: VW016948.D  
 Acq: 20 Oct 2020 12:14

Tgt Ion: 63 Resp: 18071  
 Ion Ratio Lower Upper  
 63 100  
 112 0.2 4.5 6.7#



Abundance Ion 63.00 (62.70 to 63.70): VW  
 Ion 112.00 (111.70 to 112.70): V

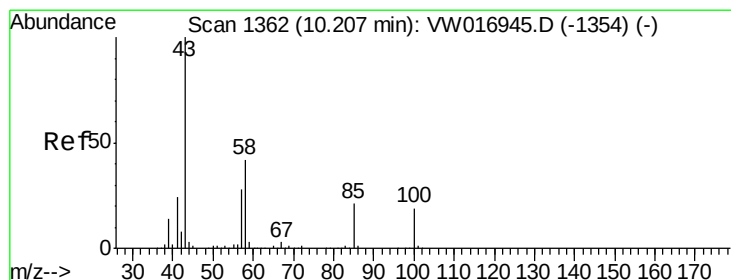
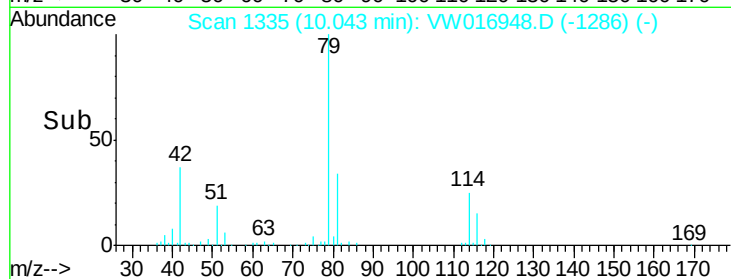
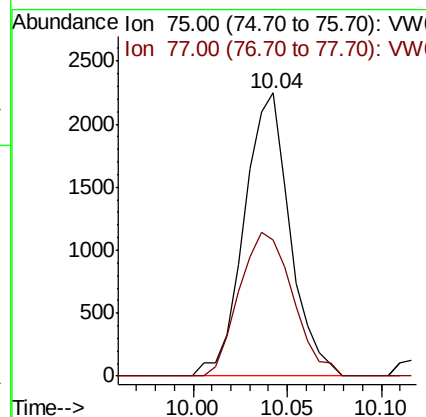
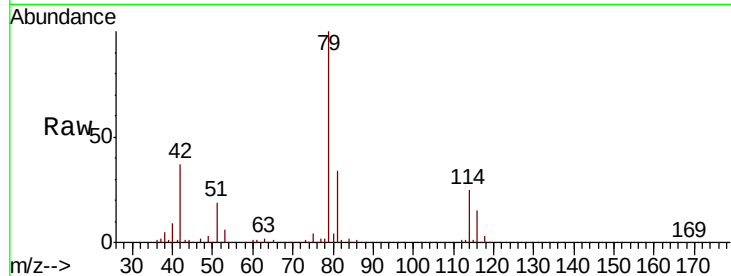




#42  
 cis-1,3-Dichloropropene  
 Concen: 0.375 ug/L  
 RT: 10.04 min Scan# 1335  
 Delta R.T. -0.03 min  
 Lab File: VW016948.D  
 Acq: 20 Oct 2020 12:14

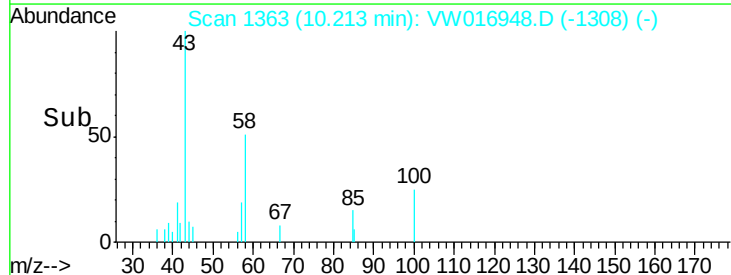
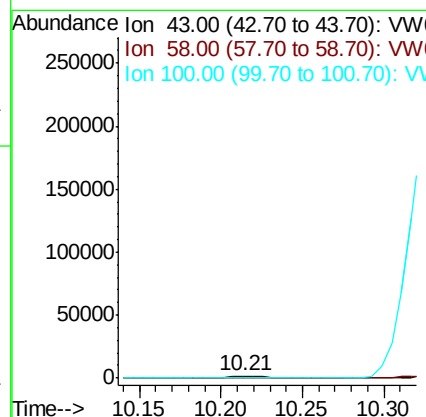
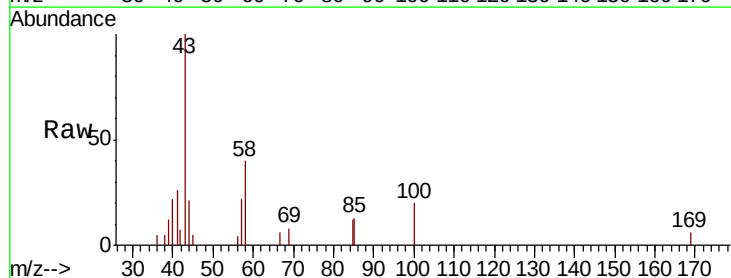
Instrument :  
 MSVOA\_W  
 ClientSampled :

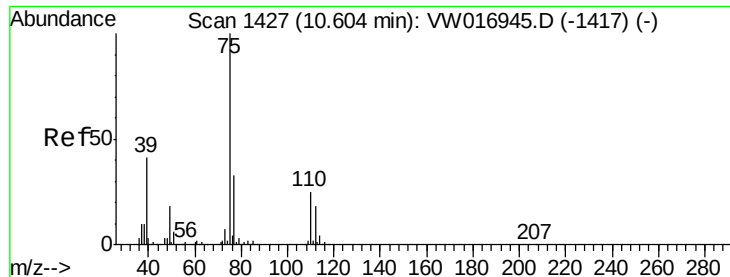
Tot Ion: 75 Resp: 3792  
 Ion Ratio Lower Upper  
 75 100  
 77 48.0 22.1 41.1#



#43  
 4-Methyl-2-pentanone  
 Concen: 0.813 ug/L  
 RT: 10.21 min Scan# 1363  
 Delta R.T. 0.01 min  
 Lab File: VW016948.D  
 Acq: 20 Oct 2020 12:14

Tgt Ion: 43 Resp: 2594  
 Ion Ratio Lower Upper  
 43 100  
 58 37.6 34.7 52.1  
 100 19.7 16.9 25.3





#45

trans-1,3-Dichloropropene

Concen: 0.306 ug/L

RT: 10.58 min Scan# 1423

Delta R.T. -0.02 min

Lab File: VW016948.D

Acq: 20 Oct 2020 12:14

Instrument :

MSVOA\_W

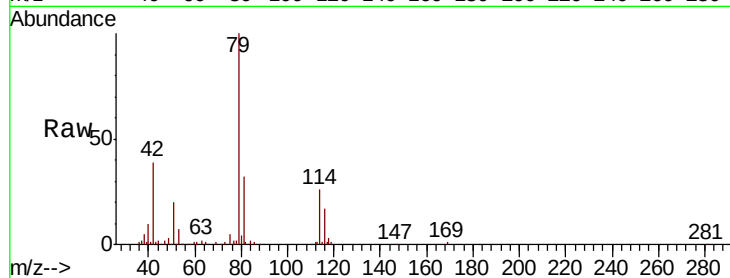
ClientSampleId :

Tot Ion: 75 Resp: 2602

Ion Ratio Lower Upper

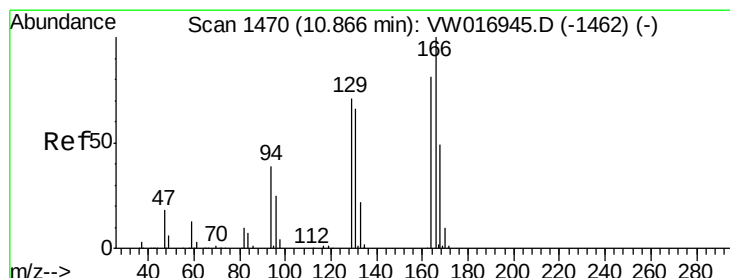
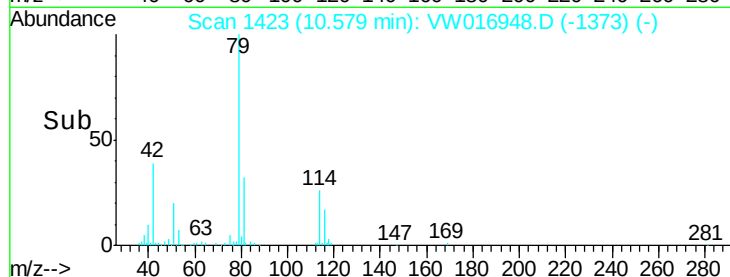
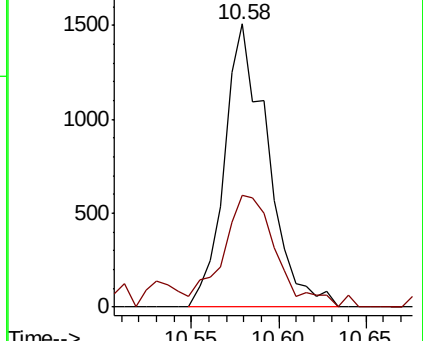
75 100

77 39.6 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#47

Tetrachloroethene

Concen: 85.396 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VW016948.D

Acq: 20 Oct 2020 12:14

Tgt Ion: 164 Resp: 627361

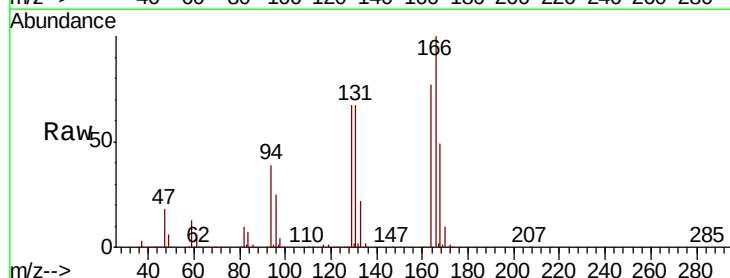
Ion Ratio Lower Upper

164 100

129 88.1 61.7 114.7

131 88.2 59.7 110.9

166 130.7 88.3 164.1



Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

