

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080720\  
 Data File : VW016088.D  
 Acq On : 07 Aug 2020 22:32  
 Operator : SY/VA  
 Sample : L3564-03  
 Misc : 6.58G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Aug 08 05:12:20 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM072020S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Aug 08 05:08:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 312064   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 278043   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 110033   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 60791    | 13.81    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 55.24% |
| 7) Chloroethane-d5             | 2.89   | 69    | 54393    | 15.21    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 60.84% |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 107590   | 12.09    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 48.36% |
| 20) 2-Butanone-d5              | 7.09   | 46    | 35126    | 30.37    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 60.74% |
| 24) Chloroform-d               | 7.65   | 84    | 169322   | 19.32    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 77.28% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 89182    | 18.54    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 74.16% |
| 29) Benzene-d6                 | 8.27   | 84    | 326619   | 19.30    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 77.20% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 102298   | 20.16    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 80.64% |
| 37) Toluene-d8                 | 10.32  | 98    | 293741   | 19.16    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 76.64% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 36180    | 16.73    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 66.92% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 28768    | 34.05    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 68.10% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 82335    | 21.11    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 84.44% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 95350    | 22.22    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 88.88% |

## Target Compounds

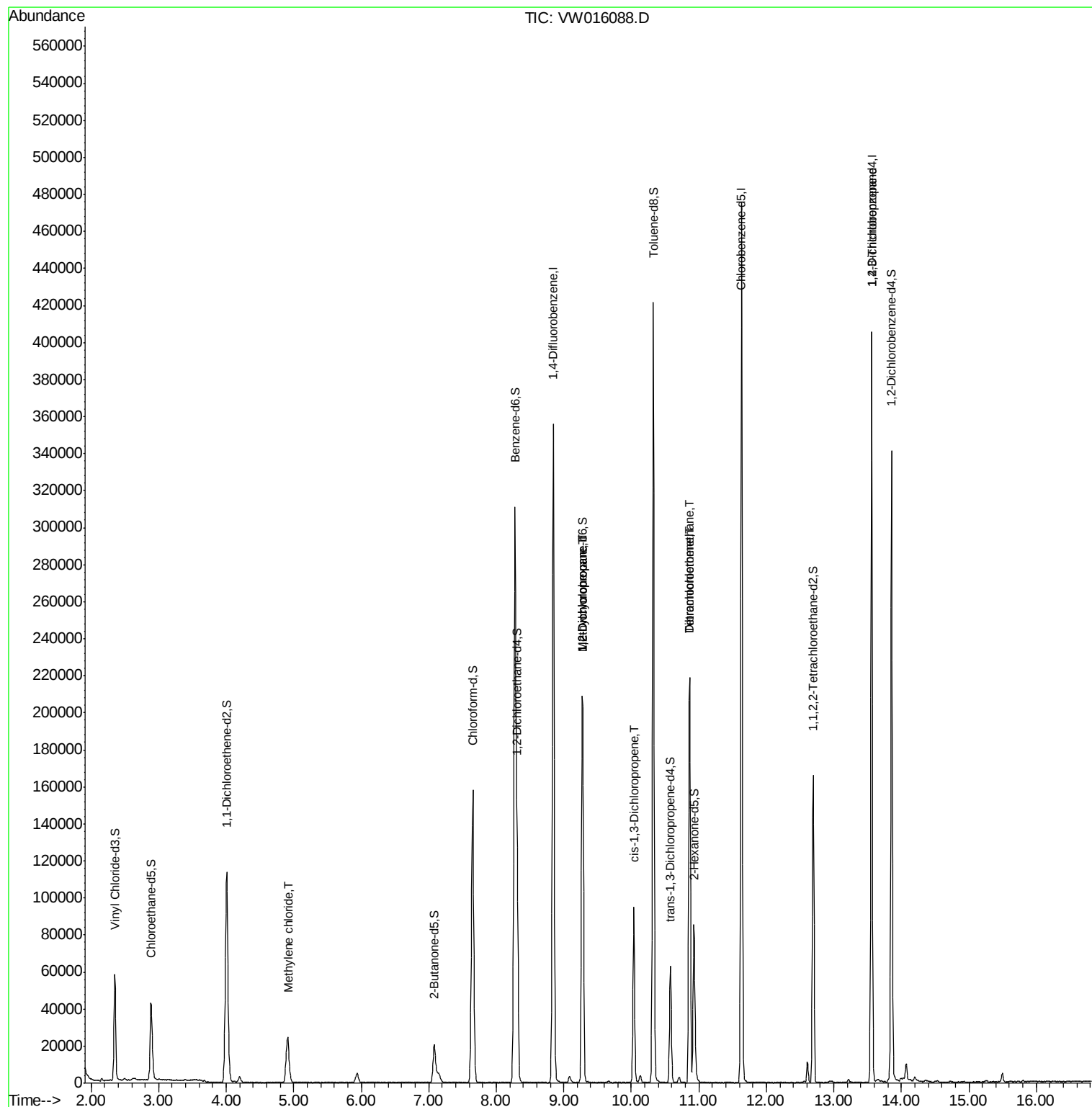
| Target Compounds            | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|-----------------------------|-------|------|----------|--------|--------|--------|
| 16) Methylene chloride      | 4.92  | 84   | 20158    | 3.942  | ug/L   | 83     |
| 36) Methylcyclohexane       | 9.27  | 83   | 25841    | 3.371  | ug/L # | 18     |
| 40) 1,2-Dichloropropane     | 9.27  | 63   | 11002    | 2.630  | ug/L # | 88     |
| 42) cis-1,3-Dichloropropene | 10.04 | 75   | 2339     | 0.367  | ug/L # | 50     |
| 47) Tetrachloroethene       | 10.87 | 164  | 52902    | 15.257 | ug/L   | 94     |
| 50) Dibromochloromethane    | 10.87 | 129  | 49369    | 14.175 | ug/L # | 11     |
| 59) 1,2,3-Trichloropropane  | 13.56 | 75   | 11786    | 4.453  | ug/L   | 94     |

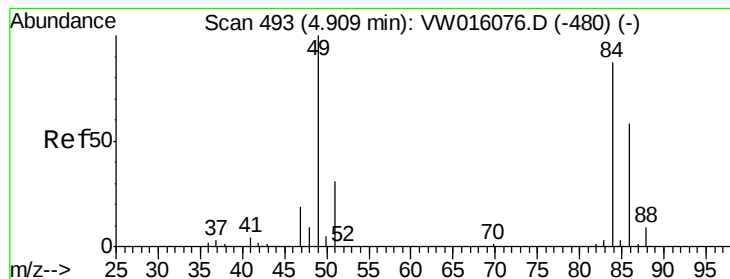
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L3564-03  
Misc : 6.58G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Aug 08 05:12:20 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM072020S.M  
Quant Title : VOC Analysis  
QLast Update : Sat Aug 08 05:08:58 2020  
Response via : Initial Calibration





#16

Methvlene chloride

Concen: 3.942 ug/L

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW016088.D

Acq: 07 Aug 2020 22:32

Instrument :

MSVOA\_W

ClientSampled :

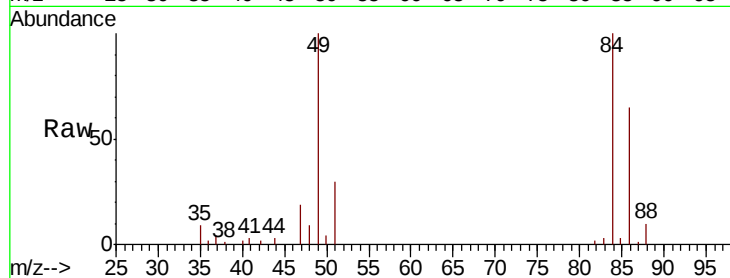
Tot Ion: 84 Resp: 20158

Ion Ratio Lower Upper

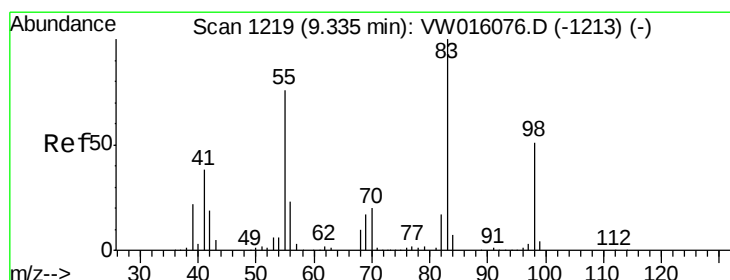
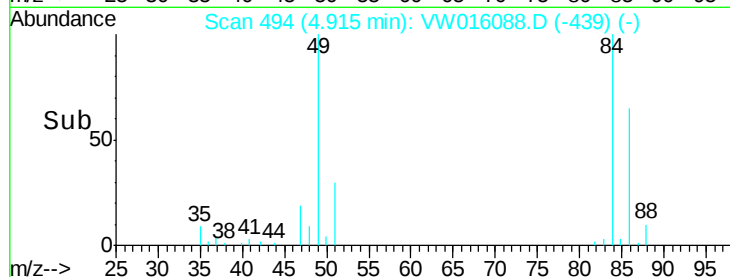
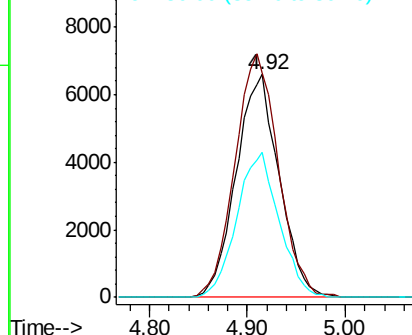
84 100

49 100.5 91.1 169.1

86 65.4 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



#36

Methylcyclohexane

Concen: 3.371 ug/L

RT: 9.27 min Scan# 1209

Delta R.T. -0.06 min

Lab File: VW016088.D

Acq: 07 Aug 2020 22:32

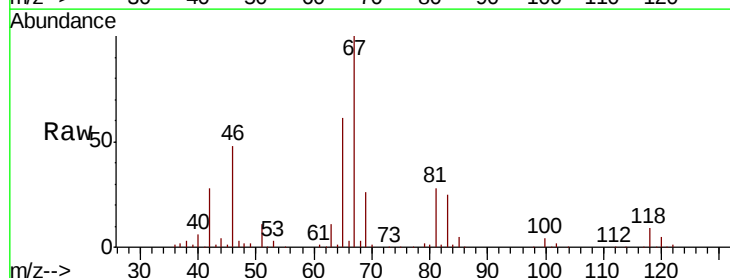
Tgt Ion: 83 Resp: 25841

Ion Ratio Lower Upper

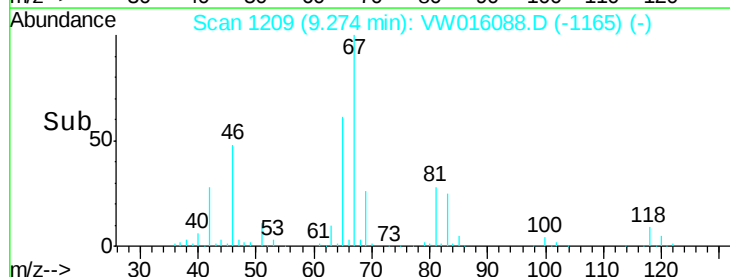
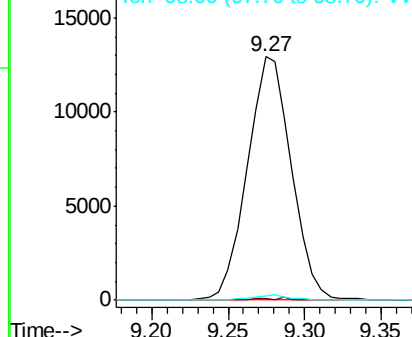
83 100

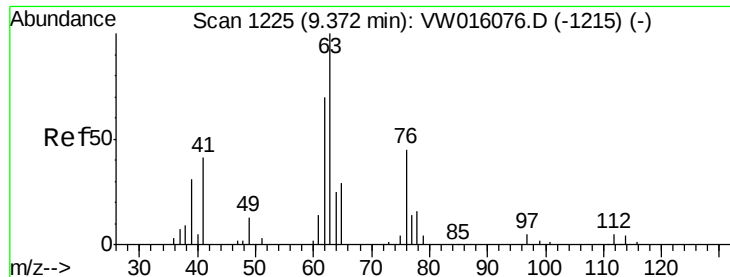
55 0.3 63.5 95.3#

98 2.0 39.0 58.4#



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

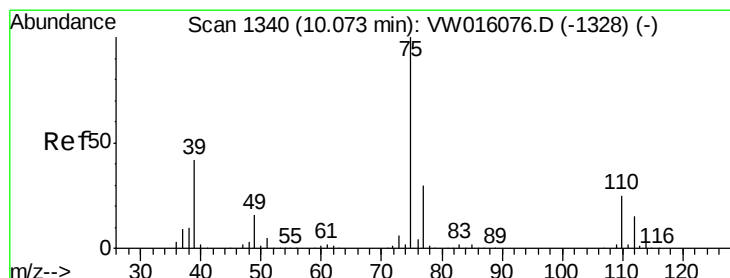
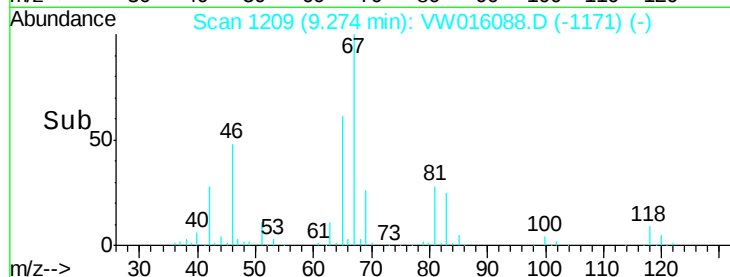
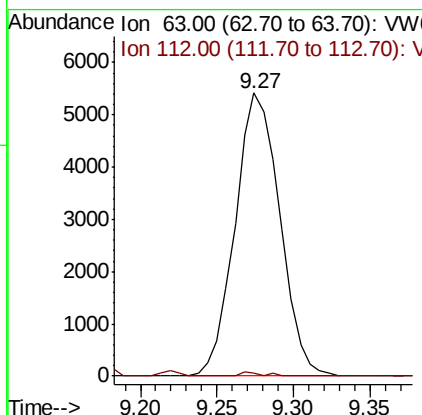
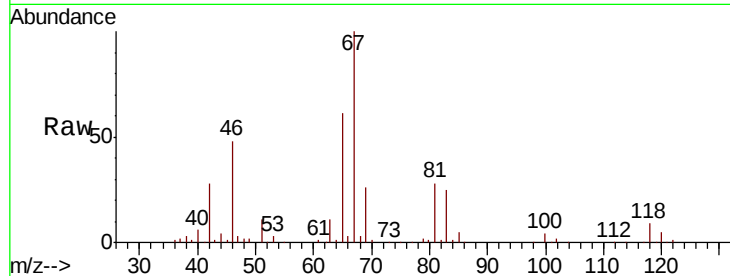




#40  
 1,2-Dichloropropane  
 Concen: 2.630 ug/L  
 RT: 9.27 min Scan# 1209  
 Delta R.T. -0.10 min  
 Lab File: VW016088.D  
 Acq: 07 Aug 2020 22:32

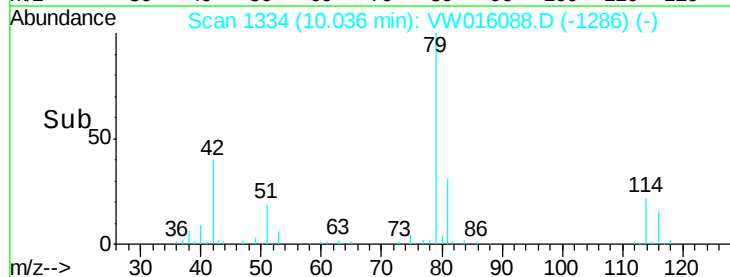
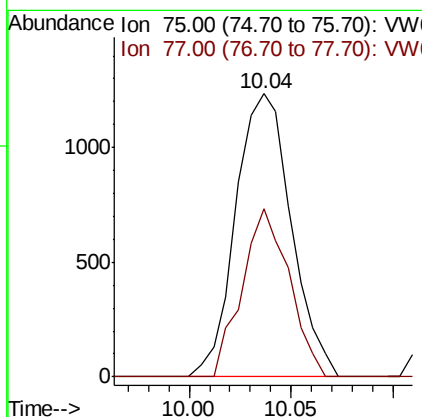
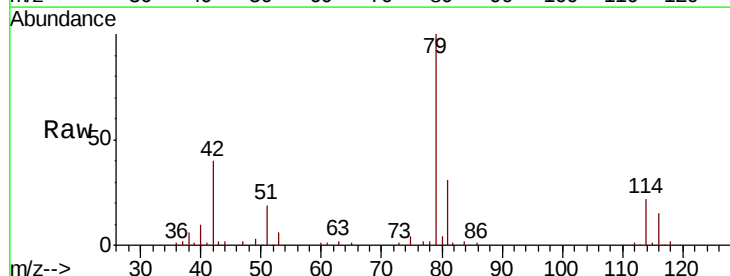
Instrument :  
 MSVOA\_W  
 ClientSampleId :

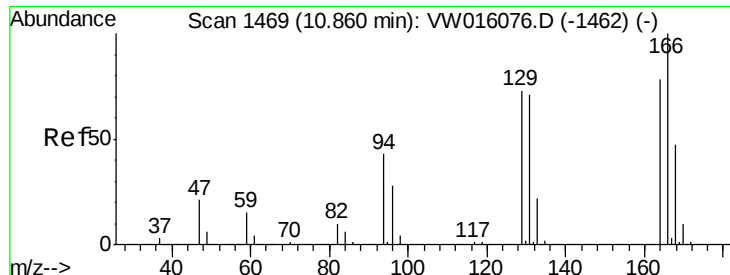
Tot Ion: 63 Resp: 11002  
 Ion Ratio Lower Upper  
 63 100  
 112 0.5 3.7 5.5#



#42  
 cis-1,3-Dichloropropene  
 Concen: 0.367 ug/L  
 RT: 10.04 min Scan# 1334  
 Delta R.T. -0.04 min  
 Lab File: VW016088.D  
 Acq: 07 Aug 2020 22:32

Tgt Ion: 75 Resp: 2339  
 Ion Ratio Lower Upper  
 75 100  
 77 59.6 22.2 41.2#

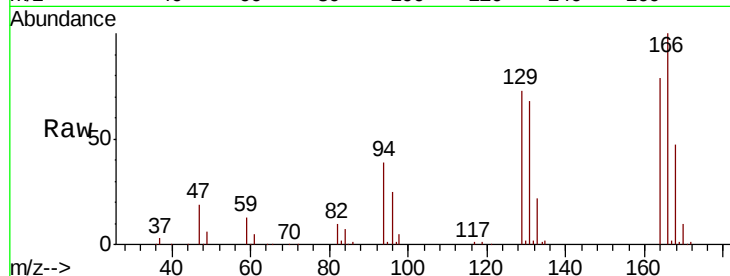




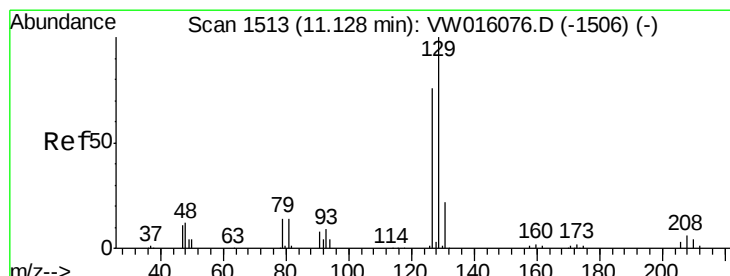
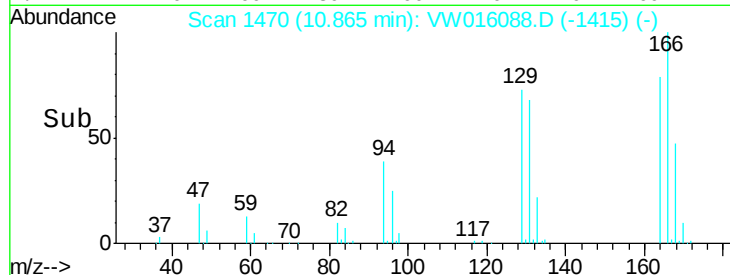
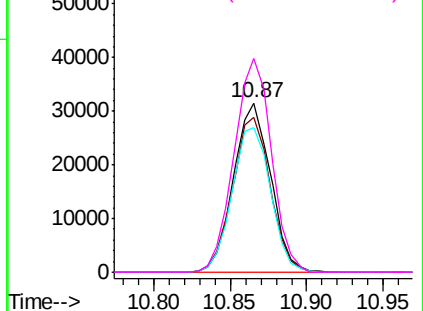
#47  
Tetrachloroethene  
Concen: 15.257 ug/L  
RT: 10.87 min Scan# 1470  
Delta R.T. 0.01 min  
Lab File: VW016088.D  
Acq: 07 Aug 2020 22:32

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:164 Resp: 52902  
Ion Ratio Lower Upper  
164 100  
129 91.5 70.0 130.0  
131 85.3 67.3 124.9  
166 126.2 88.5 164.3

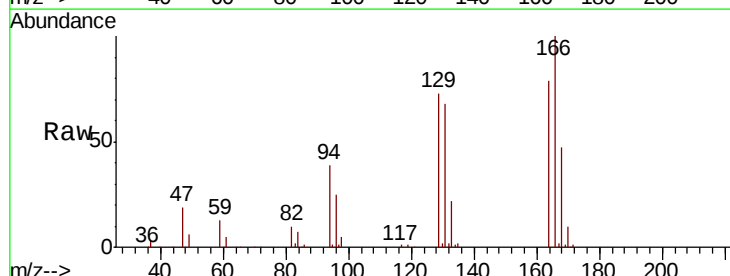


Abundance Ion 164.00 (163.70 to 164.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V  
Ion 166.00 (165.70 to 166.70): V

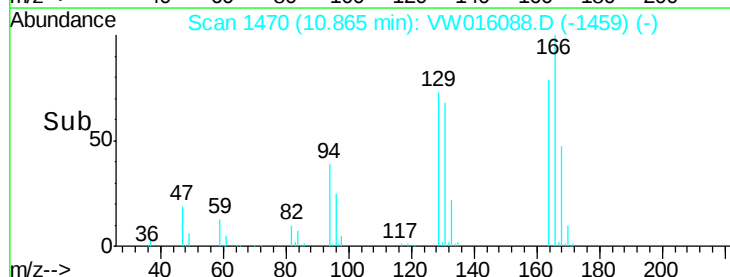
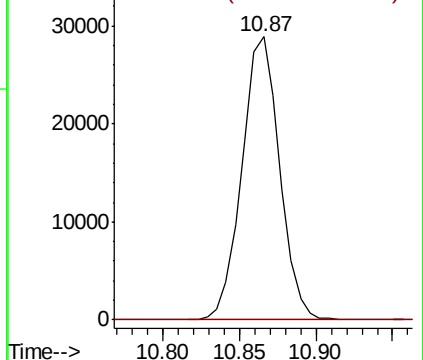


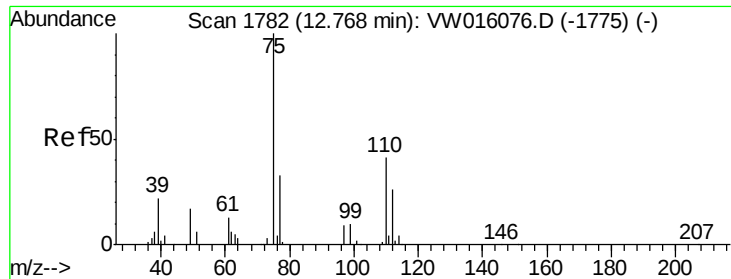
#50  
Dibromochloromethane  
Concen: 14.175 ug/L  
RT: 10.87 min Scan# 1470  
Delta R.T. -0.26 min  
Lab File: VW016088.D  
Acq: 07 Aug 2020 22:32

Tgt Ion:129 Resp: 49369  
Ion Ratio Lower Upper  
129 100  
127 0.0 53.8 100.0#



Abundance Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V





#59

1,2,3-Trichloropropane

Concen: 4.453 ug/L

RT: 13.56 min Scan# 1912

Delta R.T. 0.79 min

Lab File: VW016088.D

Acq: 07 Aug 2020 22:32

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 75 Resp: 11786

Ion Ratio Lower Upper

75 100

77 35.6 26.0 39.0

