

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100218\  
 Data File : VW005782.D  
 Acq On : 02 Oct 2018 17:38  
 Operator : SY/AP  
 Sample : J5180-10  
 Misc : 5.57G/105ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Oct 03 05:11:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 03 05:07:10 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 81641    | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 70230    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 17255    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 19320    | 18.56    | ug/L | -0.01    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 74.24%   |
| 7) Chloroethane-d5             | 2.89   | 69    | 17572    | 21.64    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 86.56%   |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 32110    | 14.13    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 56.52%   |
| 20) 2-Butanone-d5              | 7.08   | 46    | 17608    | 52.70    | ug/L | -0.01    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 105.40%  |
| 24) Chloroform-d               | 7.65   | 84    | 59407    | 28.32    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 113.28%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 41220    | 32.45    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 129.80%  |
| 29) Benzene-d6                 | 8.28   | 84    | 91834    | 26.41    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 105.64%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 30994    | 30.84    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 123.36%# |
| 37) Toluene-d8                 | 10.33  | 98    | 76696    | 22.35    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 89.40%   |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 13522    | 25.62    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 102.48%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 12088    | 51.37    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 102.74%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 28384    | 29.08    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 116.32%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 14664    | 24.02    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 96.08%   |

## Target Compounds

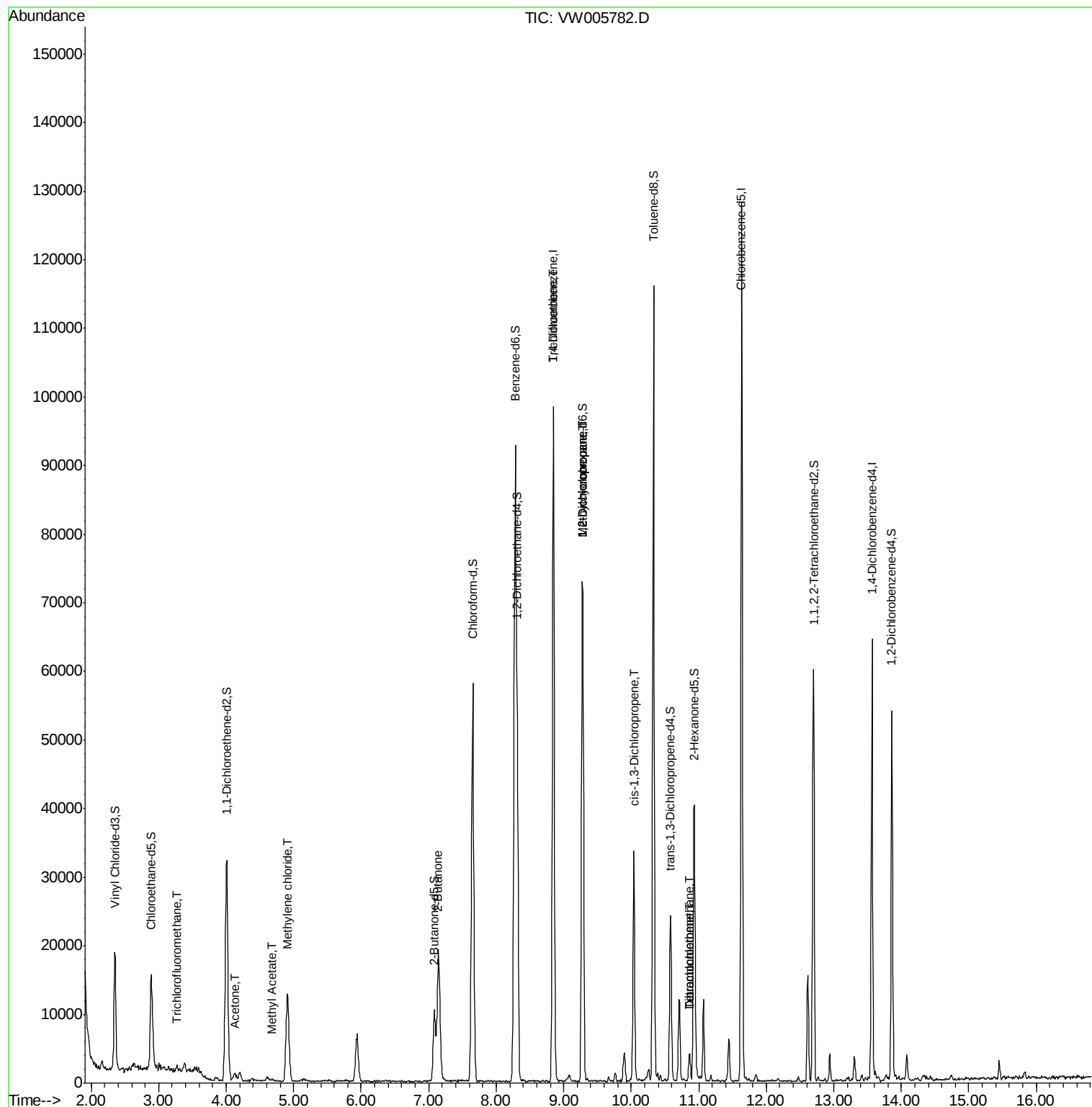
|                             |       |     |      |              | Ovalue |
|-----------------------------|-------|-----|------|--------------|--------|
| 9) Trichlorofluoromethane   | 3.26  | 101 | 319  | 0.325 ug/L   | 96     |
| 13) Acetone                 | 4.12  | 43  | 1648 | 4.736 ug/L   | 95     |
| 15) Methyl Acetate          | 4.68  | 43  | 365  | 0.591 ug/L # | 51     |
| 16) Methylene chloride      | 4.90  | 84  | 9285 | 6.898 ug/L   | 98     |
| 21) 2-Butanone              | 7.13  | 43  | 1851 | 4.442 ug/L # | 61     |
| 35) Trichloroethene         | 8.85  | 95  | 2430 | 2.289 ug/L # | 5      |
| 36) Methylcyclohexane       | 9.27  | 83  | 8467 | 4.587 ug/L # | 18     |
| 40) 1,2-Dichloropropane     | 9.27  | 63  | 4137 | 4.278 ug/L # | 87     |
| 42) cis-1,3-Dichloropropene | 10.04 | 75  | 913  | 0.572 ug/L   | 87     |
| 47) Tetrachloroethene       | 10.87 | 164 | 883  | 0.944 ug/L   | 81     |
| 50) Dibromochloromethane    | 10.87 | 129 | 758  | 0.749 ug/L # | 13     |

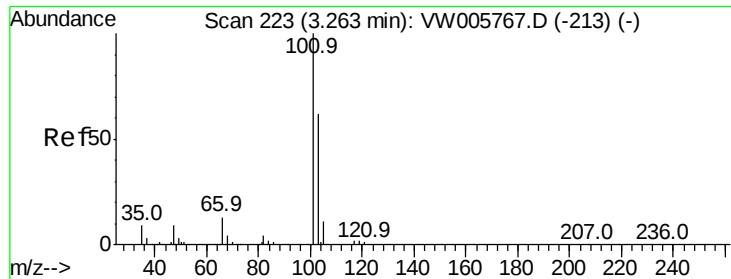
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

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MSVOA\_W  
ClientSampleId :

Quant Time: Oct 03 05:11:59 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Oct 03 05:07:10 2018  
Response via : Initial Calibration



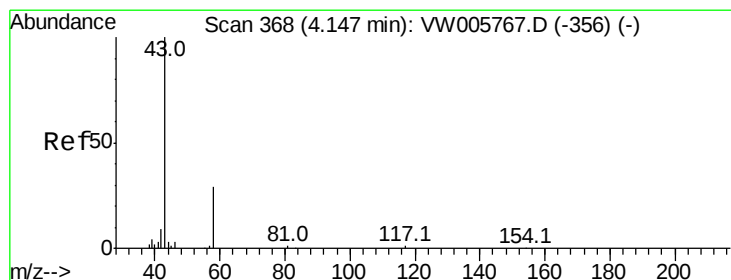
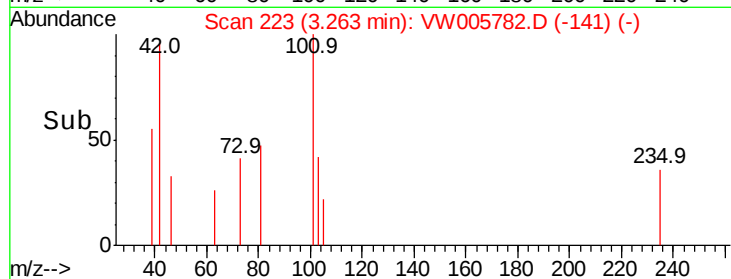
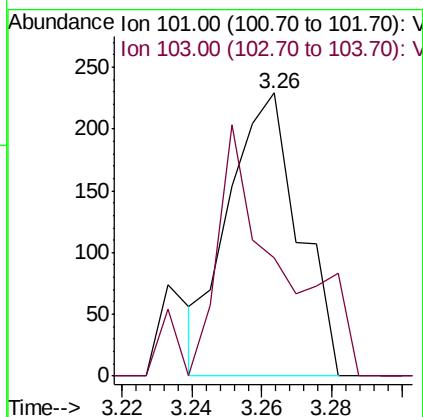
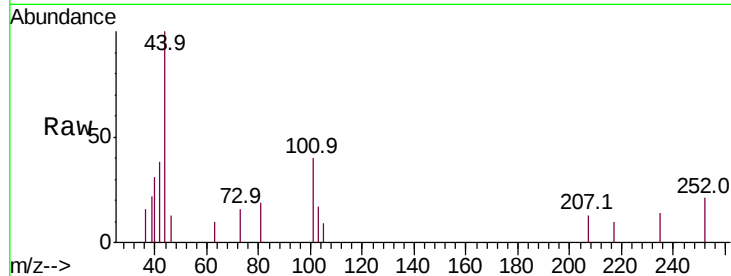


#9

Trichlorofluoromethane  
 Concen: 0.325 ug/L  
 RT: 3.26 min Scan# 223  
 Delta R.T. 0.00 min  
 Lab File: VW005782.D  
 Acq: 02 Oct 2018 17:38

Instrument :  
 MSVOA\_W  
 ClientSampled :

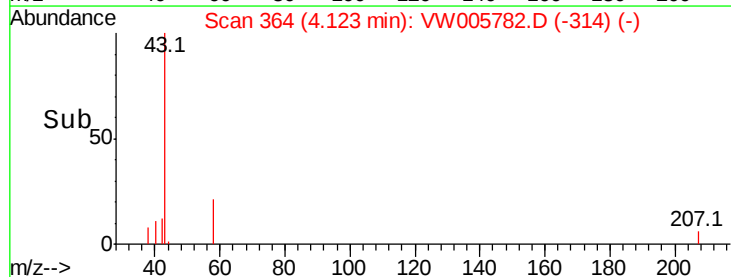
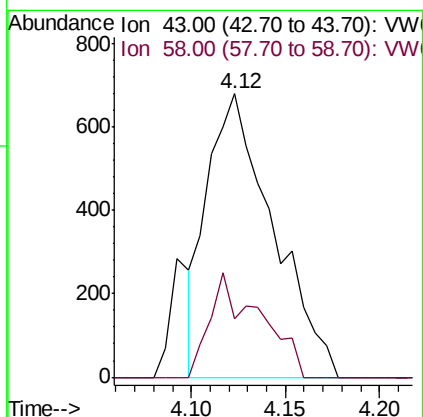
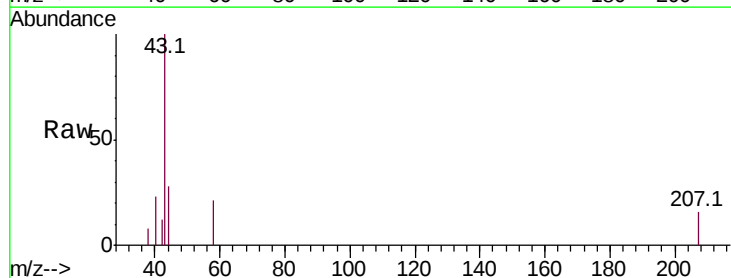
Tot Ion:101 Resp: 319  
 Ion Ratio Lower Upper  
 101 100  
 103 61.1 44.9 83.5

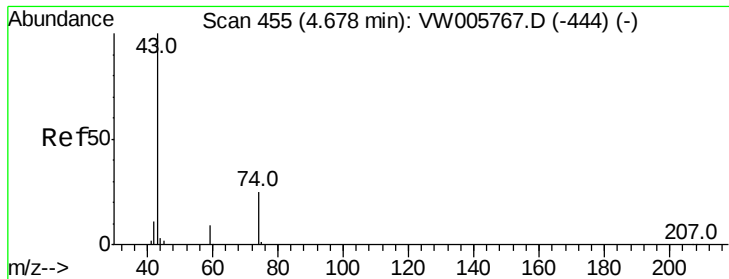


#13

Acetone  
 Concen: 4.736 ug/L  
 RT: 4.12 min Scan# 364  
 Delta R.T. -0.02 min  
 Lab File: VW005782.D  
 Acq: 02 Oct 2018 17:38

Tgt Ion: 43 Resp: 1648  
 Ion Ratio Lower Upper  
 43 100  
 58 13.6 0.0 31.8

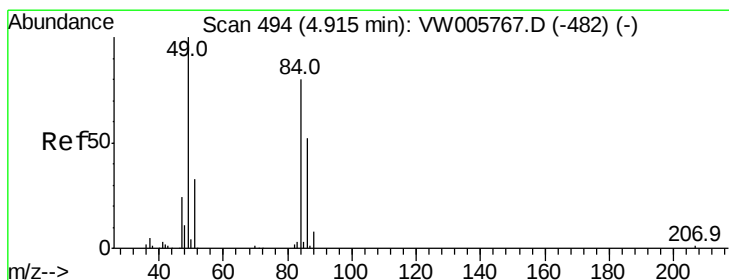
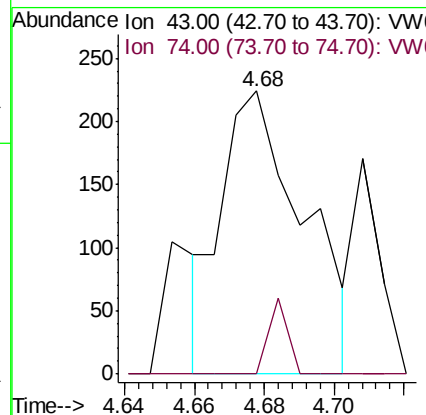
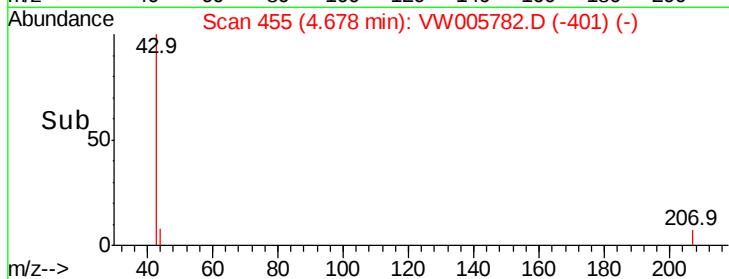
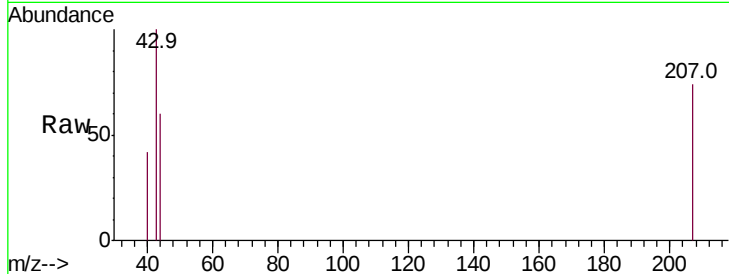




#15  
Methvl Acetate  
Concen: 0.591 ug/L  
RT: 4.68 min Scan# 455  
Delta R.T. 0.00 min  
Lab File: VW005782.D  
Acq: 02 Oct 2018 17:38

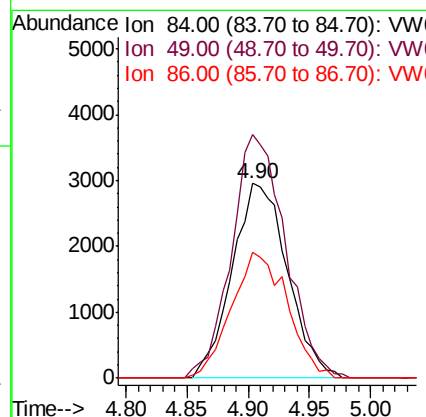
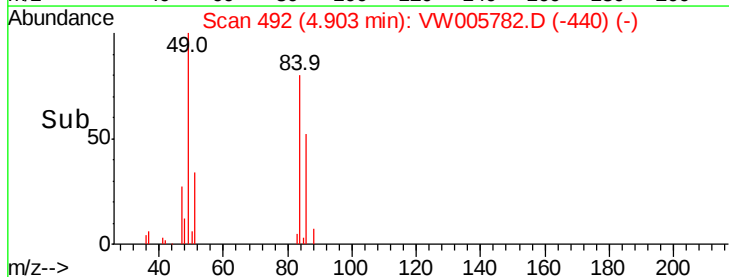
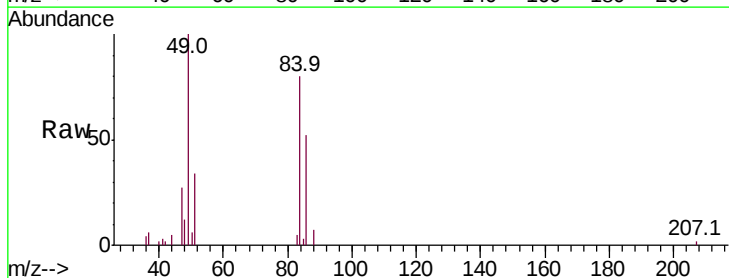
Instrument :  
MSVOA\_W  
ClientSampled :

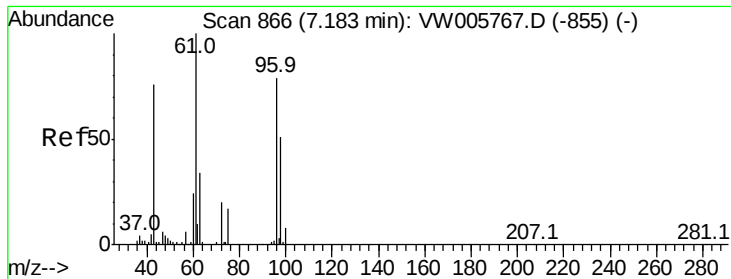
Tot Ion: 43 Resp: 365  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.5 29.3#



#16  
Methylene chloride  
Concen: 6.898 ug/L  
RT: 4.90 min Scan# 492  
Delta R.T. -0.01 min  
Lab File: VW005782.D  
Acq: 02 Oct 2018 17:38

Tgt Ion: 84 Resp: 9285  
Ion Ratio Lower Upper  
84 100  
49 125.2 87.2 162.0  
86 65.0 43.2 80.2





#21

2-Butanone

Concen: 4.442 ug/L

RT: 7.13 min Scan# 858

Delta R.T. -0.05 min

Lab File: VW005782.D

Acq: 02 Oct 2018 17:38

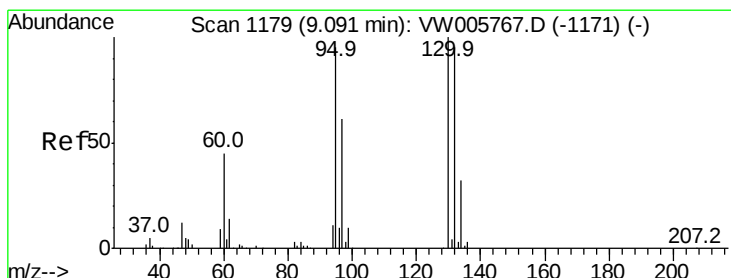
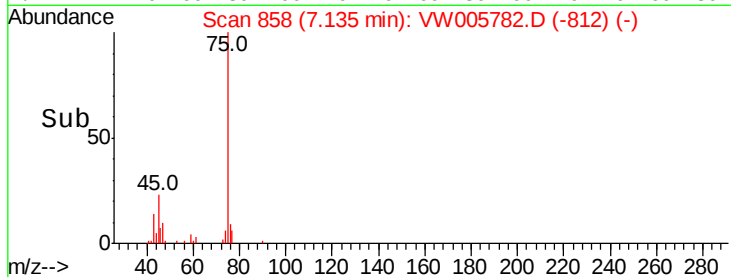
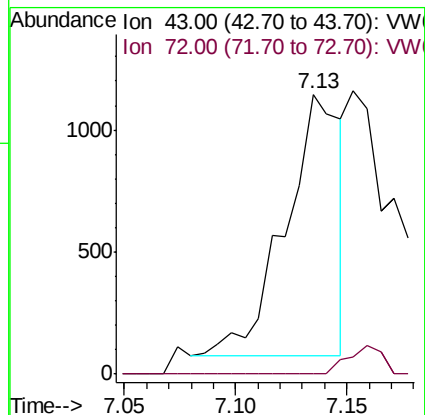
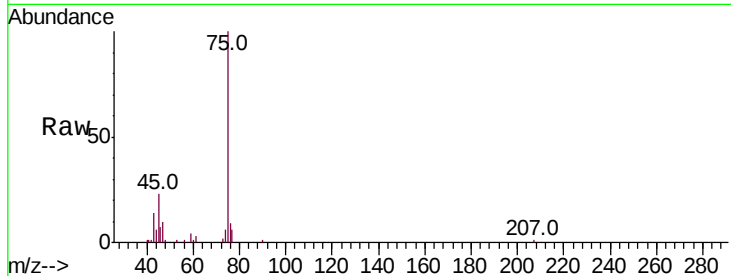
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 43 Resp: 1851

Ion Ratio Lower Upper

43 100

72 6.6 13.2 39.6#



#35

Trichloroethene

Concen: 2.289 ug/L

RT: 8.85 min Scan# 1139

Delta R.T. -0.24 min

Lab File: VW005782.D

Acq: 02 Oct 2018 17:38

Tgt Ion: 95 Resp: 2430

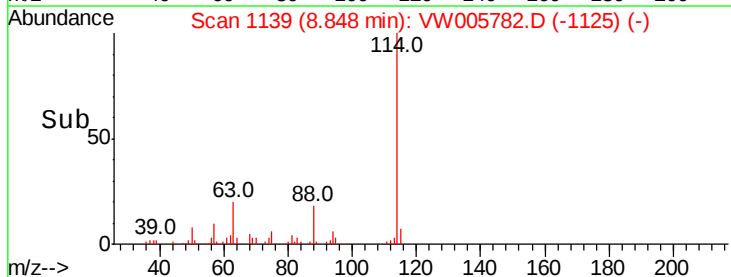
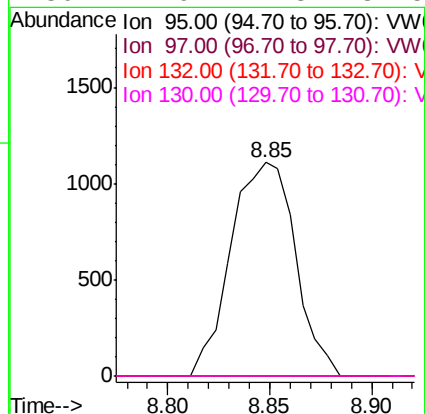
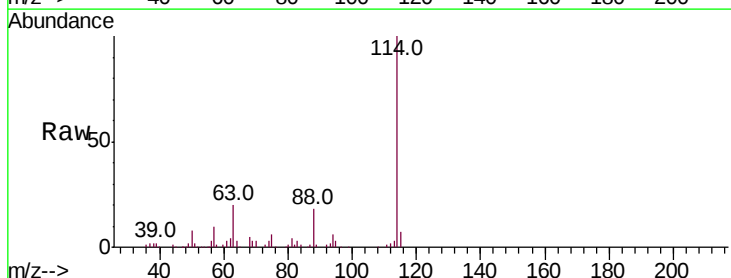
Ion Ratio Lower Upper

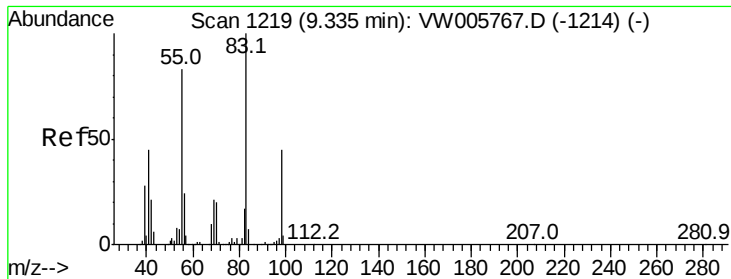
95 100

97 0.0 45.2 84.0#

132 0.0 68.0 126.4#

130 1.9 71.3 132.5#

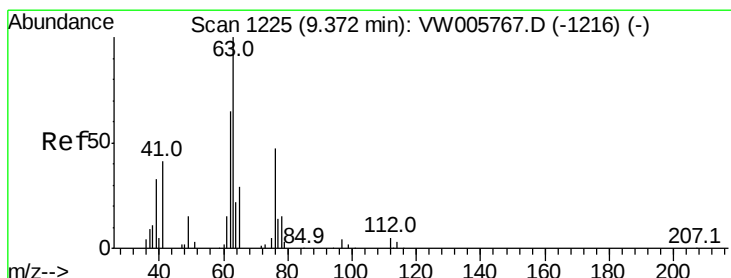
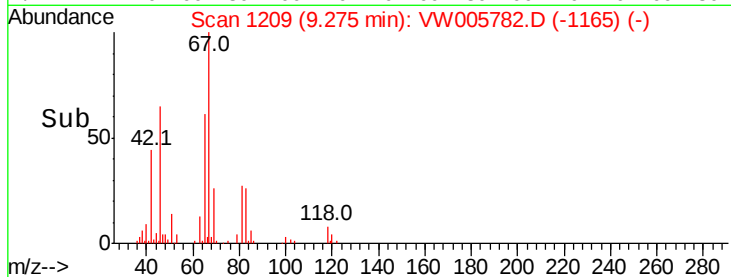
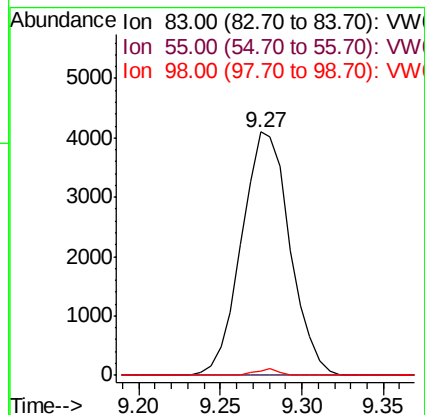
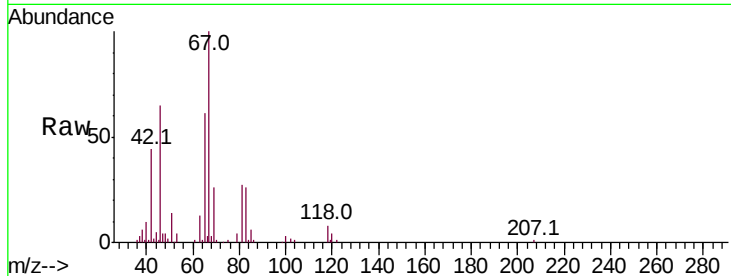




#36  
Methylcyclohexane  
Concen: 4.587 ug/L  
RT: 9.27 min Scan# 1209  
Delta R.T. -0.06 min  
Lab File: VW005782.D  
Acq: 02 Oct 2018 17:38

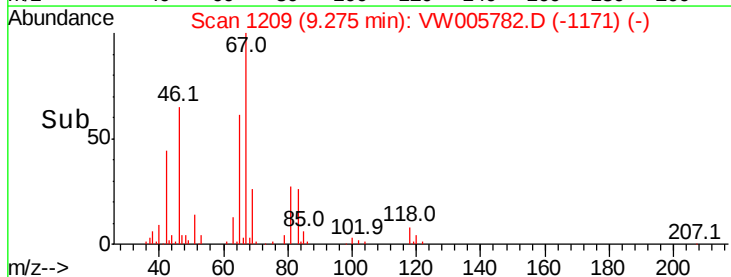
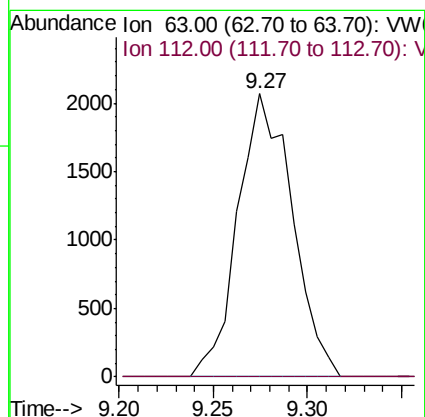
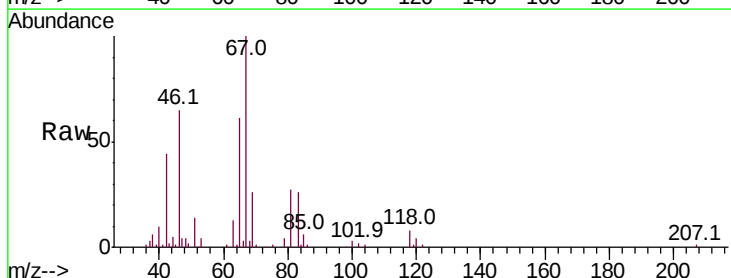
Instrument :  
MSVOA\_W  
ClientSampled :

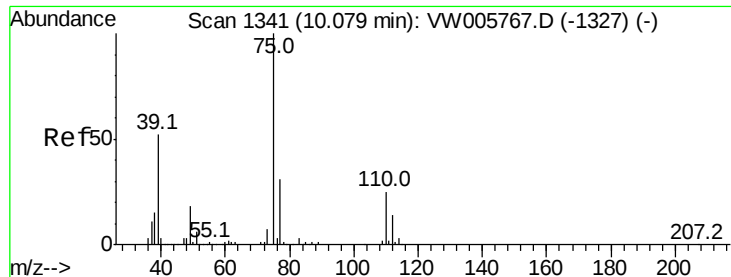
Tot Ion: 83 Resp: 8467  
Ion Ratio Lower Upper  
83 100  
55 0.0 62.5 93.7#  
98 1.3 37.7 56.5#



#40  
1,2-Dichloropropane  
Concen: 4.278 ug/L  
RT: 9.27 min Scan# 1209  
Delta R.T. -0.10 min  
Lab File: VW005782.D  
Acq: 02 Oct 2018 17:38

Tgt Ion: 63 Resp: 4137  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.4 5.2#





#42

cis-1,3-Dichloropropene

Concen: 0.572 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.04 min

Lab File: VW005782.D

Acq: 02 Oct 2018 17:38

Instrument :

MSVOA\_W

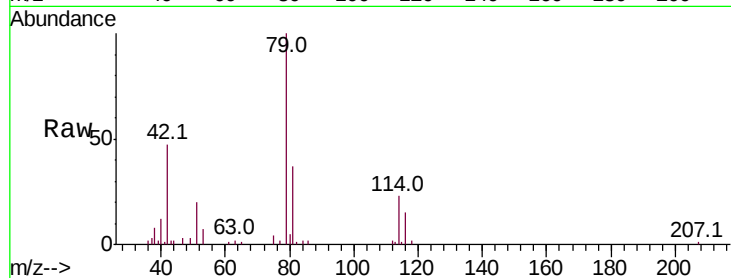
ClientSampled :

Tot Ion: 75 Resp: 913

Ion Ratio Lower Upper

75 100

77 39.2 22.3 41.3



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.04

500

400

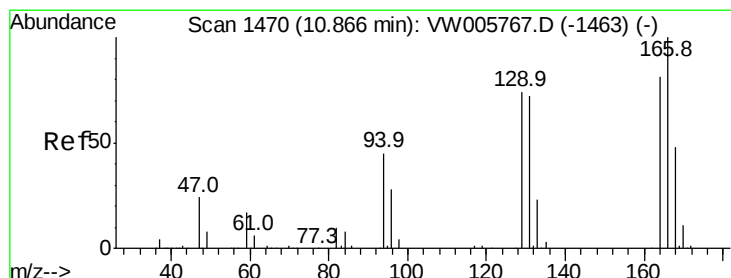
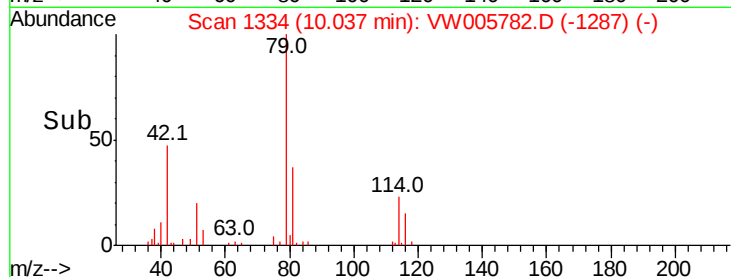
300

200

100

0

Time-->



#47

Tetrachloroethene

Concen: 0.944 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VW005782.D

Acq: 02 Oct 2018 17:38

Tgt Ion: 164 Resp: 883

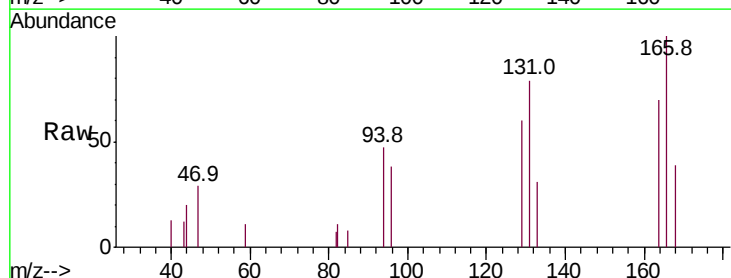
Ion Ratio Lower Upper

164 100

129 85.6 63.8 118.4

131 113.6 61.5 114.3

166 143.8 83.2 154.6



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

1000

800

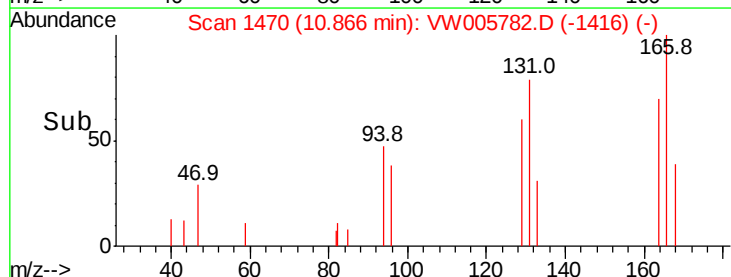
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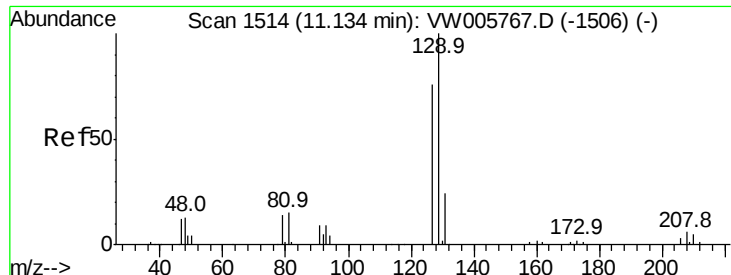
400

200

0

Time-->





#50  
 Dibromochloromethane  
 Concen: 0.749 ug/L  
 RT: 10.87 min Scan# 1470  
 Delta R.T. -0.27 min  
 Lab File: VW005782.D  
 Acq: 02 Oct 2018 17:38

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:129 Resp: 758  
 Ion Ratio Lower Upper  
 129 100  
 127 0.0 51.7 95.9#

