

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100318\  
 Data File : VW005819.D  
 Acq On : 03 Oct 2018 17:13  
 Operator : SY/AP  
 Sample : J5181-16  
 Misc : 5.14G/105ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Oct 04 05:18:18 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 04 05:16:38 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 20747    | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 22666    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 9935     | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                  |        |       |          |          |      |          |
|----------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3             | 2.35   | 65    | 3772     | 14.26    | ug/L | -0.01    |
| Spiked Amount                    | 25.000 | Range | 30 - 150 | Recovery | =    | 57.04%   |
| 7) Chloroethane-d5               | 2.88   | 69    | 4300     | 20.84    | ug/L | -0.02    |
| Spiked Amount                    | 25.000 | Range | 30 - 150 | Recovery | =    | 83.36%   |
| 10) 1,1-Dichloroethene-d2        | 4.01   | 63    | 7738     | 13.40    | ug/L | 0.00     |
| Spiked Amount                    | 25.000 | Range | 45 - 110 | Recovery | =    | 53.60%   |
| 20) 2-Butanone-d5                | 7.09   | 46    | 5736     | 67.56    | ug/L | 0.00     |
| Spiked Amount                    | 50.000 | Range | 20 - 135 | Recovery | =    | 135.12%# |
| 24) Chloroform-d                 | 7.65   | 84    | 13512    | 25.35    | ug/L | 0.00     |
| Spiked Amount                    | 25.000 | Range | 40 - 150 | Recovery | =    | 101.40%  |
| 26) 1,2-Dichloroethane-d4        | 8.31   | 65    | 9744     | 30.19    | ug/L | 0.00     |
| Spiked Amount                    | 25.000 | Range | 70 - 130 | Recovery | =    | 120.76%  |
| 29) Benzene-d6                   | 8.28   | 84    | 20741    | 18.48    | ug/L | 0.00     |
| Spiked Amount                    | 25.000 | Range | 20 - 135 | Recovery | =    | 73.92%   |
| 33) 1,2-Dichloropropane-d6       | 9.28   | 67    | 7048     | 21.73    | ug/L | 0.00     |
| Spiked Amount                    | 25.000 | Range | 70 - 120 | Recovery | =    | 86.92%   |
| 37) Toluene-d8                   | 10.33  | 98    | 17345    | 15.66    | ug/L | 0.00     |
| Spiked Amount                    | 25.000 | Range | 30 - 130 | Recovery | =    | 62.64%   |
| 38) trans-1,3-Dichloropropene-   | 10.58  | 79    | 3522     | 20.68    | ug/L | 0.00     |
| Spiked Amount                    | 25.000 | Range | 30 - 135 | Recovery | =    | 82.72%   |
| 39) 2-Hexanone-d5                | 10.93  | 63    | 4107     | 54.08    | ug/L | 0.00     |
| Spiked Amount                    | 50.000 | Range | 20 - 135 | Recovery | =    | 108.16%  |
| 48) 1,1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 10040    | 31.87    | ug/L | 0.00     |
| Spiked Amount                    | 25.000 | Range | 45 - 120 | Recovery | =    | 127.48%# |
| 61) 1,2-Dichlorobenzene-d4       | 13.86  | 152   | 7999     | 22.75    | ug/L | 0.00     |
| Spiked Amount                    | 25.000 | Range | 75 - 120 | Recovery | =    | 91.00%   |

## Target Compounds

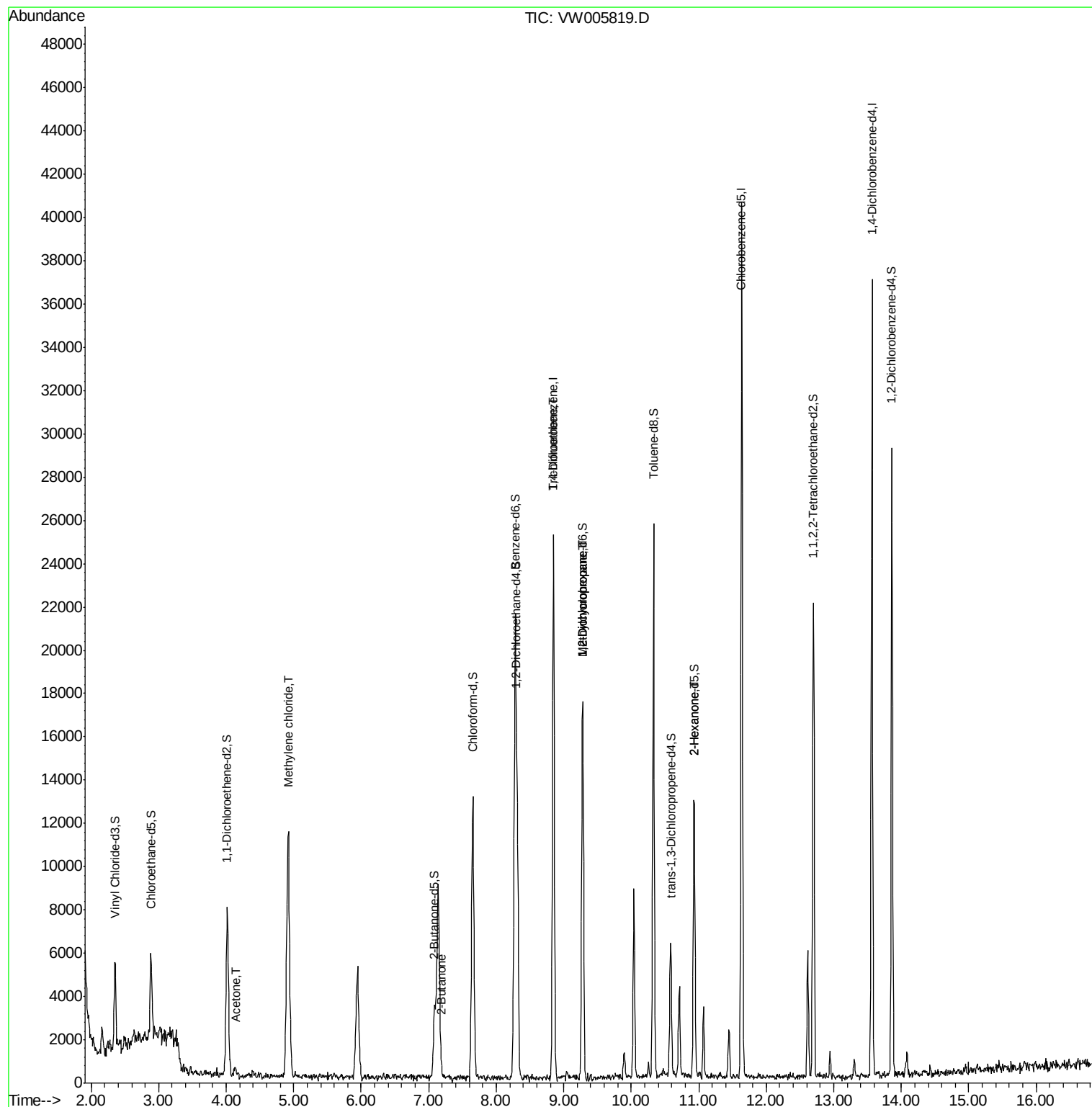
|                         |       |    |      |        | Ovalue    |
|-------------------------|-------|----|------|--------|-----------|
| 13) Acetone             | 4.14  | 43 | 466  | 5.270  | ug/L 81   |
| 16) Methylene chloride  | 4.92  | 84 | 5937 | 17.355 | ug/L 76   |
| 21) 2-Butanone          | 7.19  | 43 | 98   | 0.925  | ug/L # 49 |
| 35) Trichloroethene     | 8.85  | 95 | 617  | 1.801  | ug/L # 5  |
| 36) Methylcyclohexane   | 9.28  | 83 | 1955 | 3.281  | ug/L # 18 |
| 40) 1,2-Dichloropropane | 9.27  | 63 | 1009 | 3.233  | ug/L # 87 |
| 49) 2-Hexanone          | 10.93 | 43 | 695  | 3.887  | ug/L # 61 |

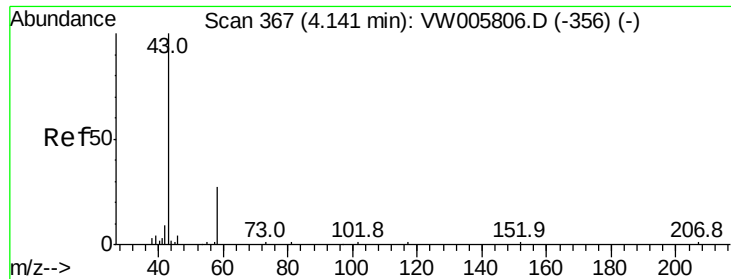
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_W  
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Quant Time: Oct 04 05:18:18 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092818S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Oct 04 05:16:38 2018  
Response via : Initial Calibration





#13

Acetone

Concen: 5.270 ug/L

RT: 4.14 min Scan# 366

Delta R.T. -0.01 min

Lab File: VW005819.D

Acq: 03 Oct 2018 17:13

Instrument :

MSVOA\_W

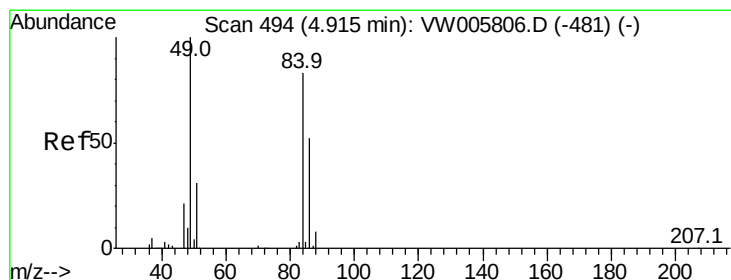
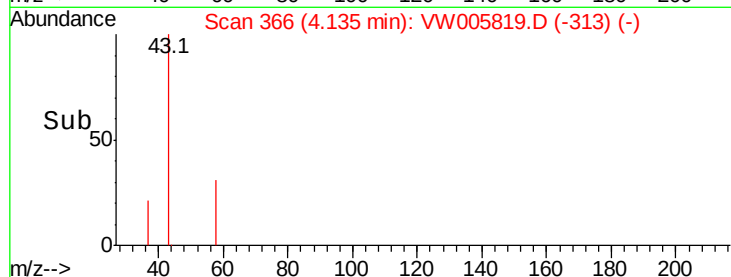
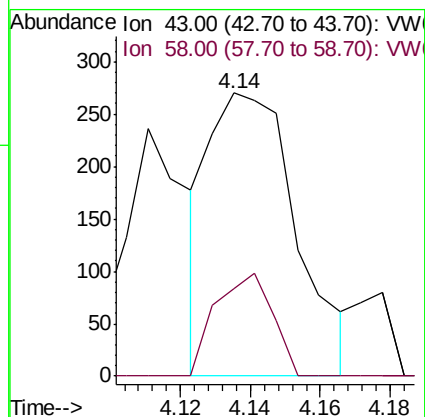
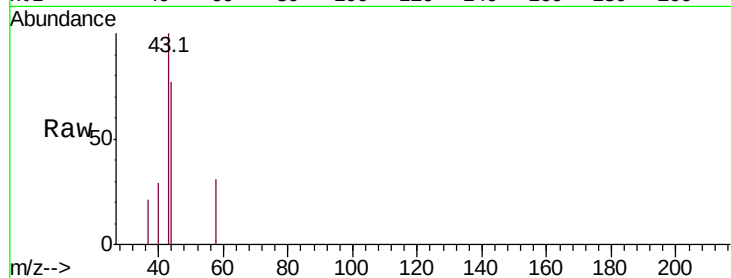
ClientSampled :

Tot Ion: 43 Resp: 466

Ion Ratio Lower Upper

43 100

58 23.8 0.0 31.8



#16

Methylene chloride

Concen: 17.355 ug/L

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW005819.D

Acq: 03 Oct 2018 17:13

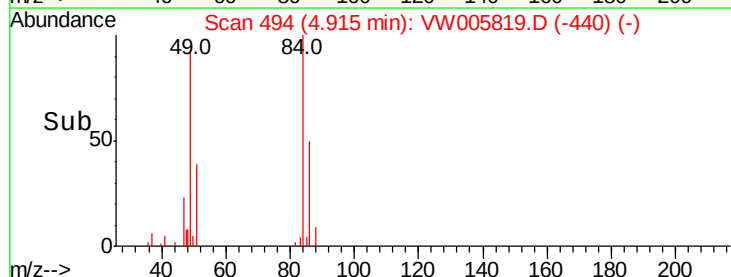
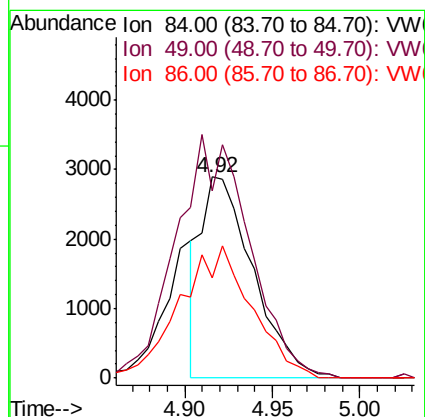
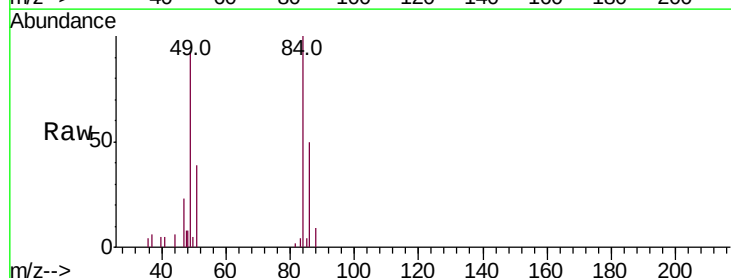
Tgt Ion: 84 Resp: 5937

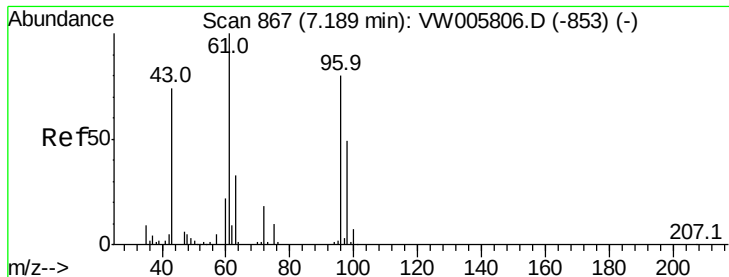
Ion Ratio Lower Upper

84 100

49 93.0 87.2 162.0

86 50.1 43.2 80.2





#21

2-Butanone

Concen: 0.925 ug/L

RT: 7.19 min Scan# 867

Delta R.T. 0.00 min

Lab File: VW005819.D

Acq: 03 Oct 2018 17:13

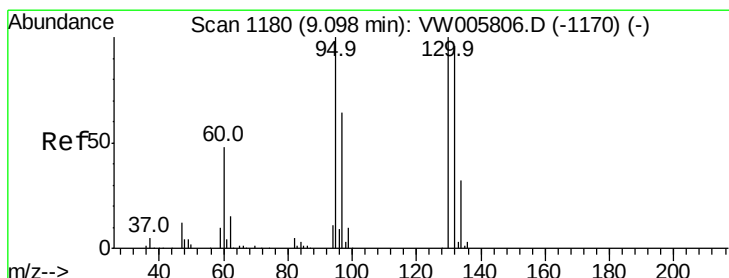
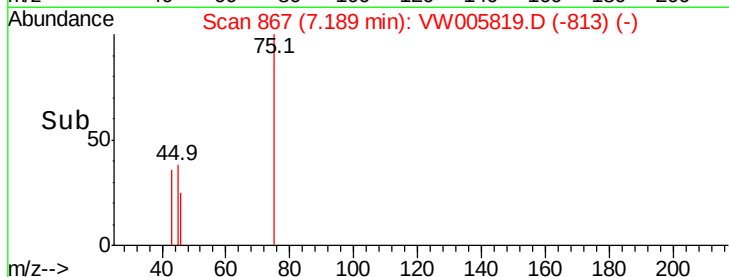
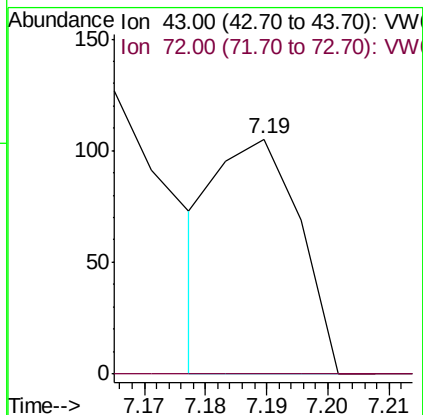
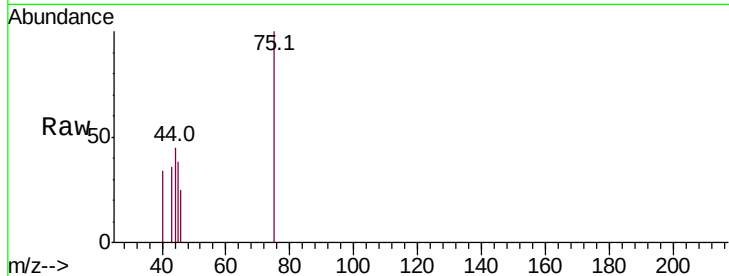
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 43 Resp: 98

Ion Ratio Lower Upper

43 100

72 0.0 13.2 39.6#



#35

Trichloroethene

Concen: 1.801 ug/L

RT: 8.85 min Scan# 1139

Delta R.T. -0.25 min

Lab File: VW005819.D

Acq: 03 Oct 2018 17:13

Tgt Ion: 95 Resp: 617

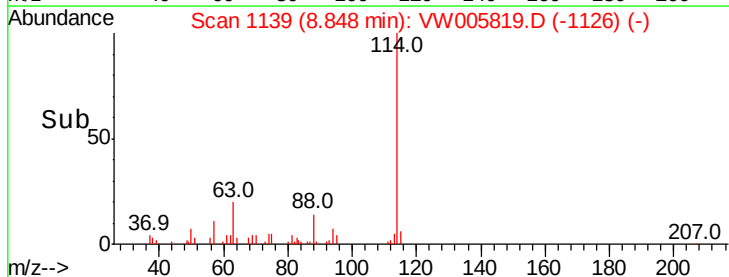
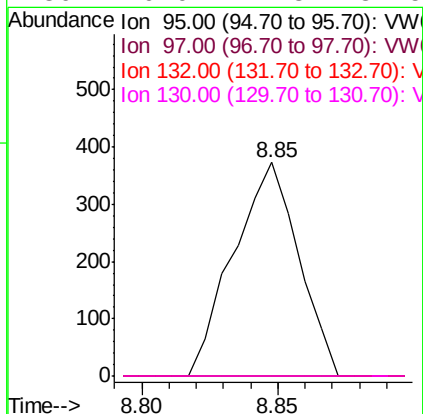
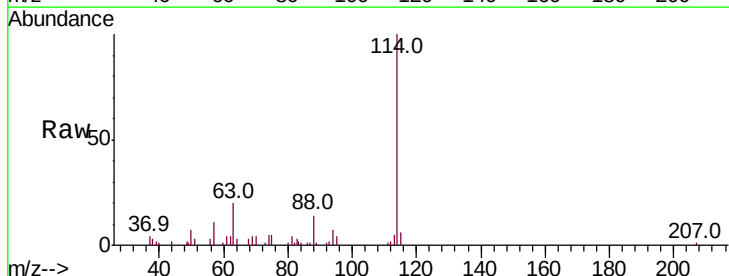
Ion Ratio Lower Upper

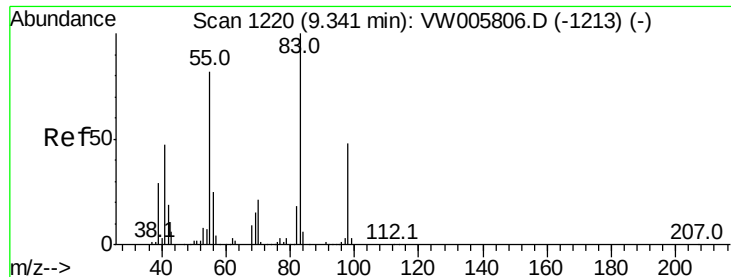
95 100

97 0.0 45.2 84.0#

132 0.0 68.0 126.4#

130 0.0 71.3 132.5#

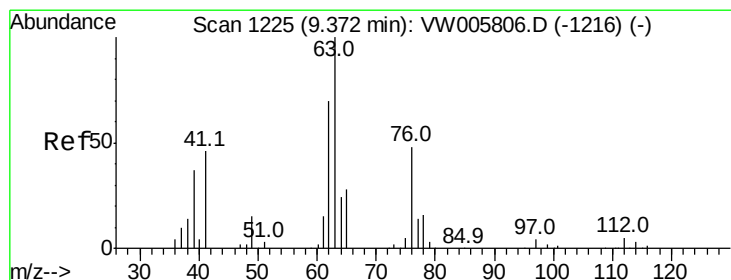
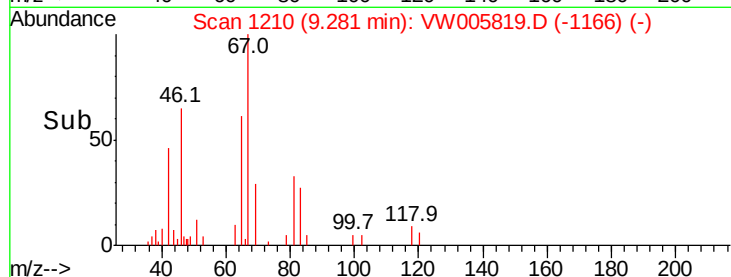
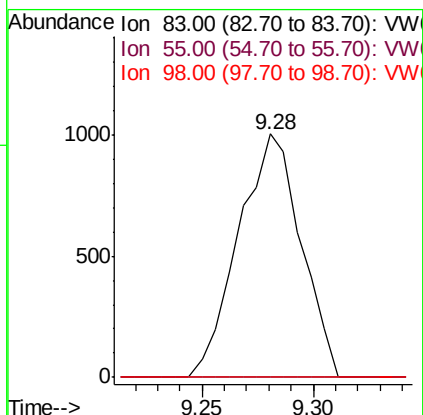
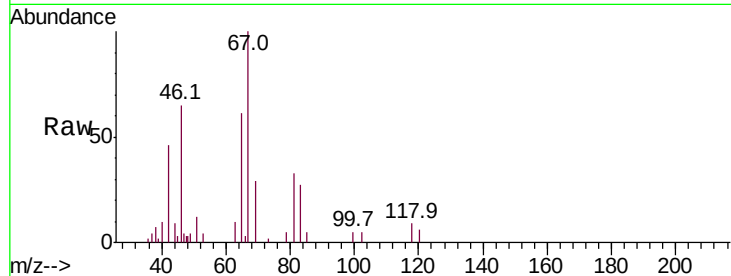




#36  
 Methylvlcyclohexane  
 Concen: 3.281 ug/L  
 RT: 9.28 min Scan# 1210  
 Delta R.T. -0.06 min  
 Lab File: VW005819.D  
 Acq: 03 Oct 2018 17:13

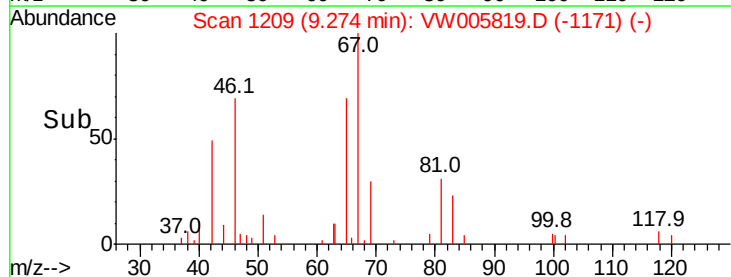
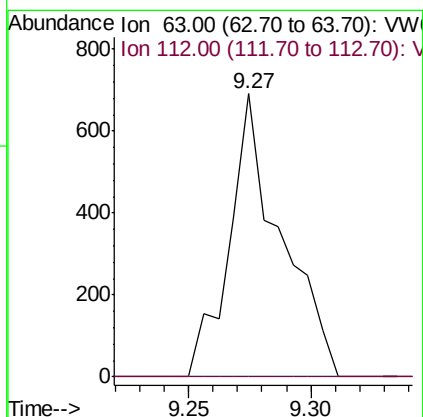
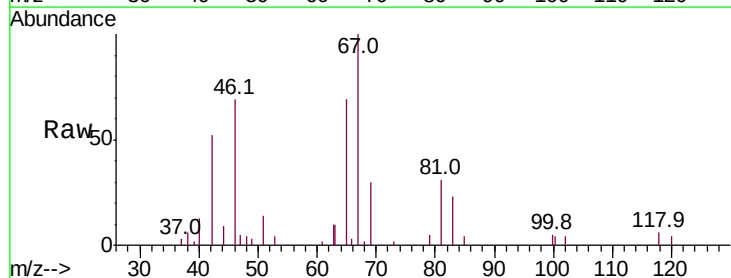
Instrument :  
 MSVOA\_W  
 ClientSampled :

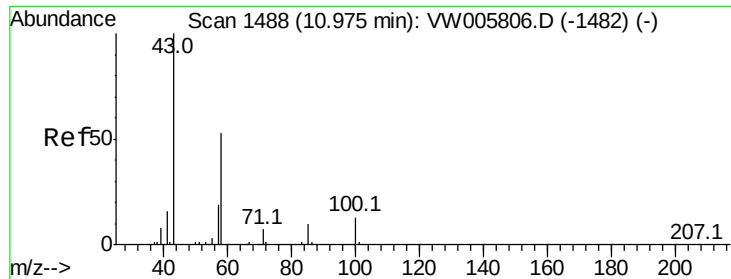
Tot Ion: 83 Resp: 1955  
 Ion Ratio Lower Upper  
 83 100  
 55 0.0 62.5 93.7#  
 98 0.0 37.7 56.5#



#40  
 1,2-Dichloropropane  
 Concen: 3.233 ug/L  
 RT: 9.27 min Scan# 1209  
 Delta R.T. -0.10 min  
 Lab File: VW005819.D  
 Acq: 03 Oct 2018 17:13

Tgt Ion: 63 Resp: 1009  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.4 5.2#





#49  
 2-Hexanone  
 Concen: 3.887 ug/L  
 RT: 10.93 min Scan# 1481  
 Delta R.T. -0.04 min  
 Lab File: VW005819.D  
 Acq: 03 Oct 2018 17:13

Instrument :  
 MSVOA\_W  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 695   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 25.2  | 42.0  | 63.0# |
| 57       | 39.4  | 15.7  | 23.5# |
| 100      | 0.0   | 9.7   | 14.5# |

