

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090818\  
 Data File : VU026623.D  
 Acq On : 07 Sep 2018 17:14  
 Operator : MD/SY  
 Sample : J4750-09  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0SY9

Quant Time: Sep 08 01:22:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM082918WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Sep 08 01:21:38 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 154490   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 144034   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 59801    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 44237    | 46.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 92.44%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 39849    | 46.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 92.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 64556    | 29.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 59.90%# |
| 21) 2-Butanone-d5              | 4.18    | 46    | 79365    | 106.83   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 106.83% |
| 24) Chloroform-d               | 4.65    | 84    | 86387    | 47.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.56%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 58280    | 48.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.84%  |
| 32) Benzene-d6                 | 5.34    | 84    | 167100   | 50.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.66% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 59743    | 52.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 104.78% |
| 41) Toluene-d8                 | 7.57    | 98    | 145402   | 45.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.74%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 24827    | 47.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.34%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 56416    | 107.86   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 107.86% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 83025    | 49.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.82%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 57161    | 52.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 105.36% |

## Target Compounds

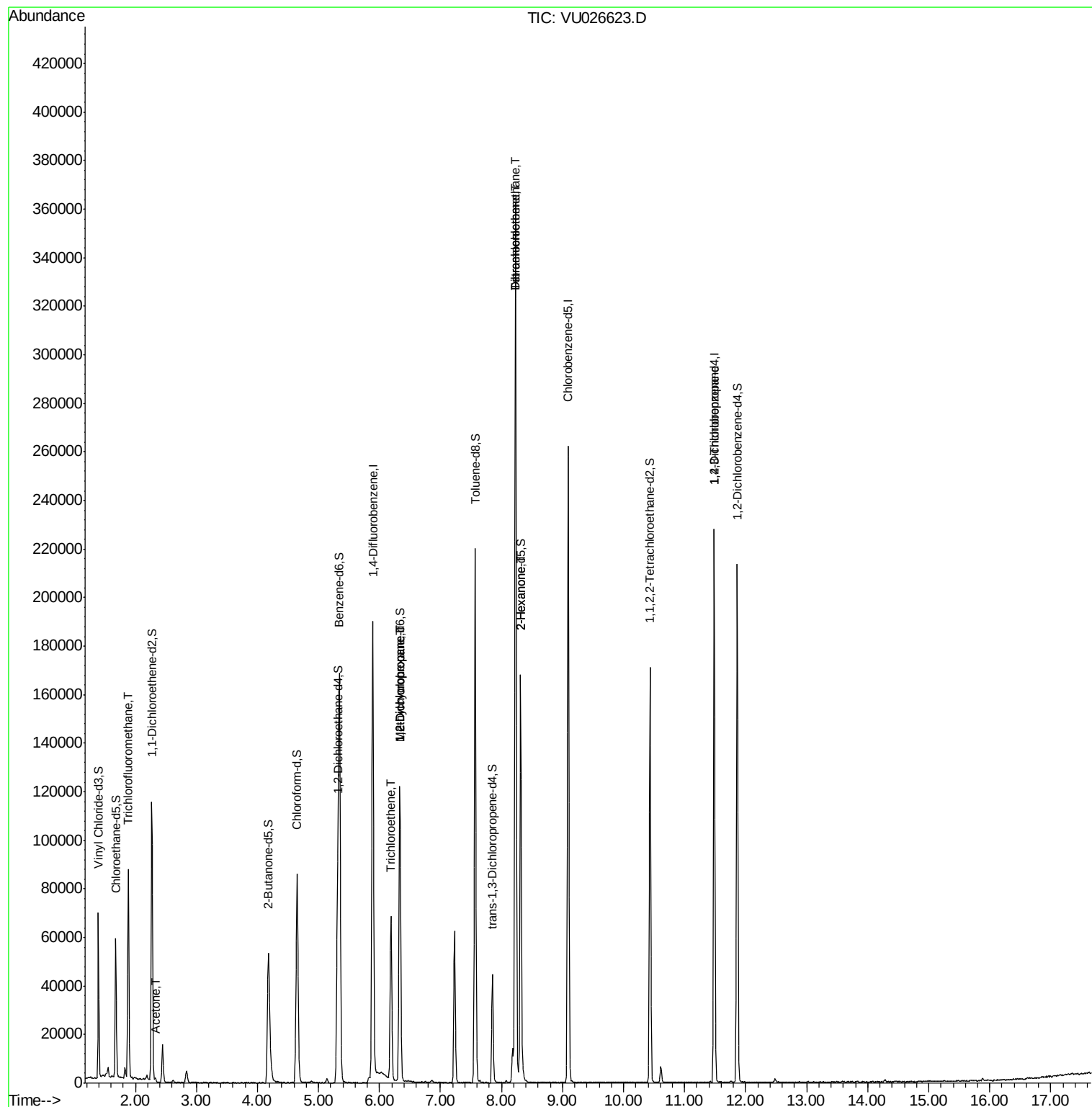
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 9) Trichlorofluoromethane  | 1.88  | 101  | 52754    | 25.727 | ug/L   | 98     |
| 13) Acetone                | 2.32  | 43   | 1482     | 2.304  | ug/L   | 82     |
| 34) Trichloroethene        | 6.19  | 95   | 23487    | 22.676 | ug/L   | 98     |
| 35) Methylcyclohexane      | 6.33  | 83   | 13197    | 8.160  | ug/L # | 18     |
| 37) 1,2-Dichloropropane    | 6.33  | 63   | 6211     | 5.433  | ug/L # | 88     |
| 46) Tetrachloroethene      | 8.23  | 164  | 80169    | 94.672 | ug/L   | 97     |
| 48) 2-Hexanone             | 8.31  | 43   | 7167     | 5.903  | ug/L # | 65     |
| 49) Dibromochloromethane   | 8.23  | 129  | 74279    | 62.949 | ug/L # | 10     |
| 59) 1,2,3-Trichloropropane | 11.48 | 75   | 7177     | 5.032  | ug/L   | 93     |

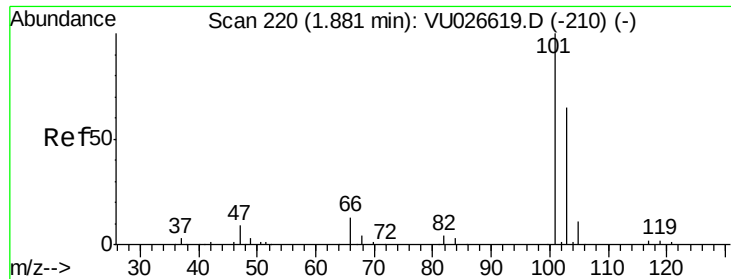
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Sat Sep 08 01:21:38 2018  
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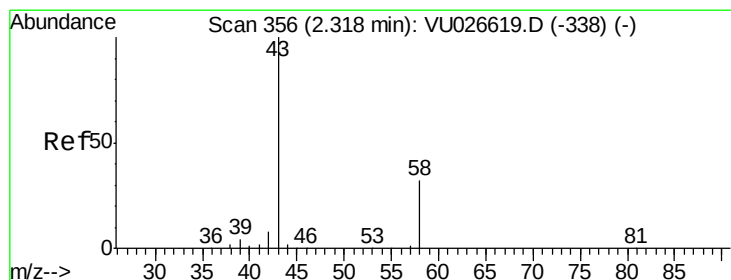
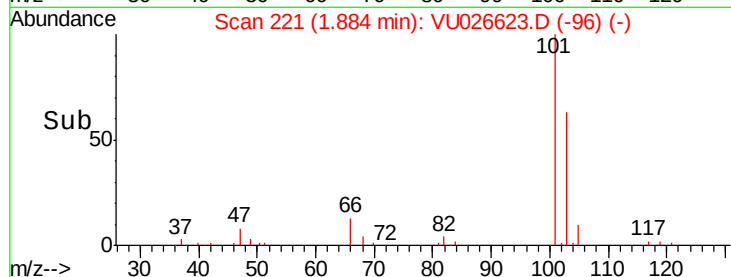
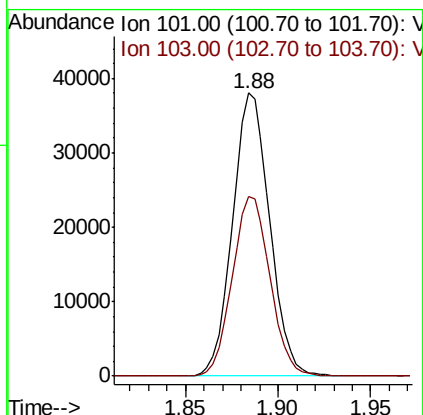
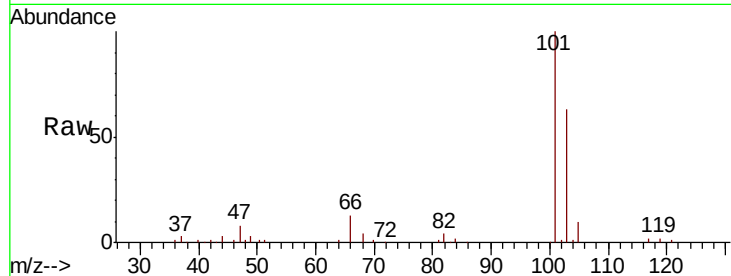


#9

Trichlorofluoromethane  
 Concen: 25.727 ug/L  
 RT: 1.88 min Scan# 221  
 Delta R.T. 0.00 min  
 Lab File: VU026623.D  
 Acq: 07 Sep 2018 17:14

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0SY9

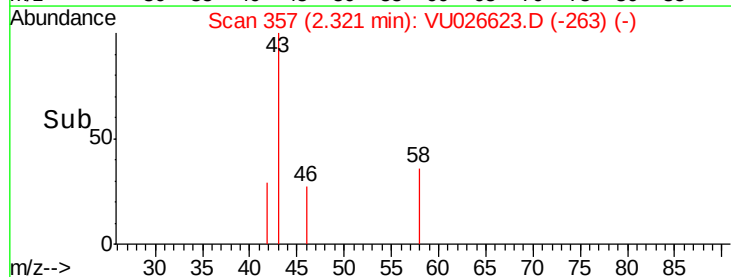
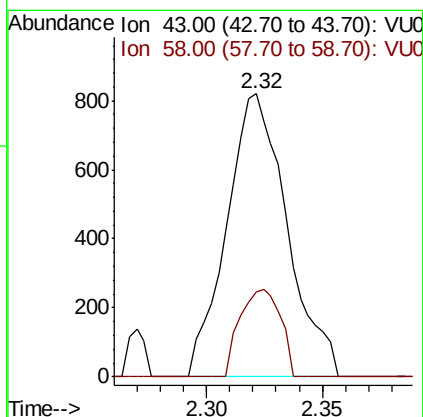
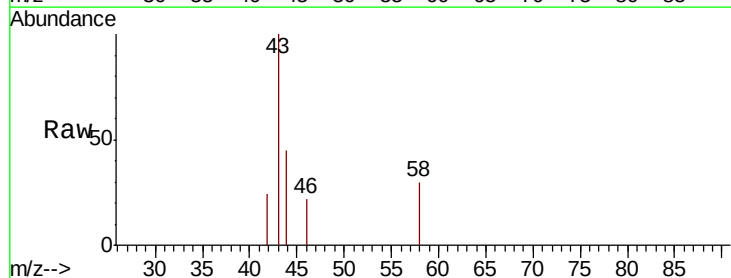
Tot Ion:101 Resp: 52754  
 Ion Ratio Lower Upper  
 101 100  
 103 64.4 52.7 79.1

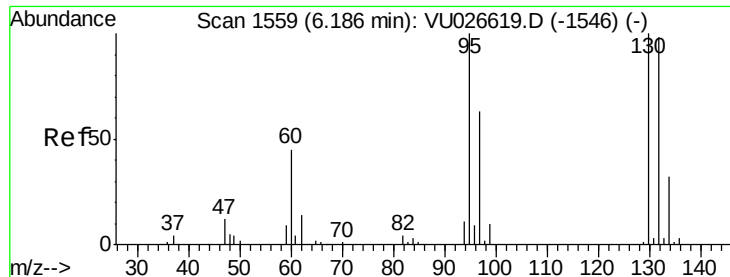


#13

Acetone  
 Concen: 2.304 ug/L  
 RT: 2.32 min Scan# 357  
 Delta R.T. 0.00 min  
 Lab File: VU026623.D  
 Acq: 07 Sep 2018 17:14

Tgt Ion: 43 Resp: 1482  
 Ion Ratio Lower Upper  
 43 100  
 58 20.6 0.0 61.2





#34

Trichloroethene

Concen: 22.676 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU026623.D

Acq: 07 Sep 2018 17:14

Instrument :

MSVOA\_U

ClientSampleId :

C0SY9

Tot Ion: 95 Resp: 23487

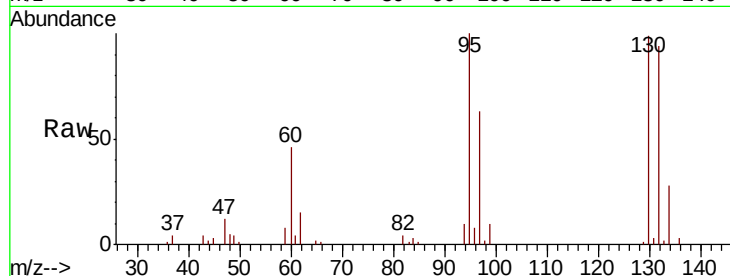
Ion Ratio Lower Upper

95 100

97 62.9 45.1 83.7

132 94.0 67.5 125.3

130 98.6 69.3 128.7



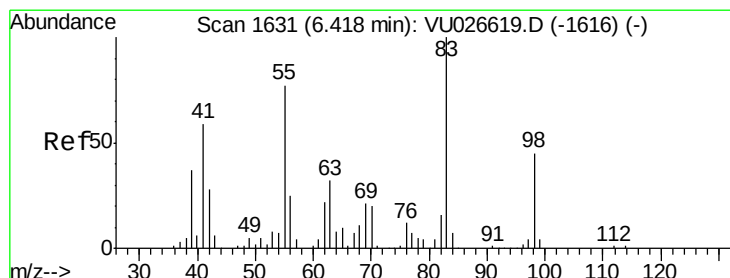
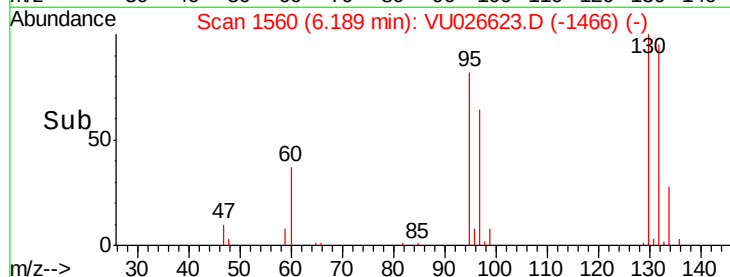
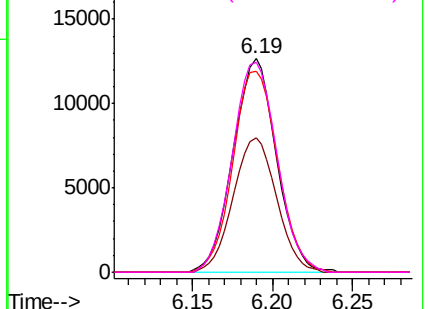
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 8.160 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.08 min

Lab File: VU026623.D

Acq: 07 Sep 2018 17:14

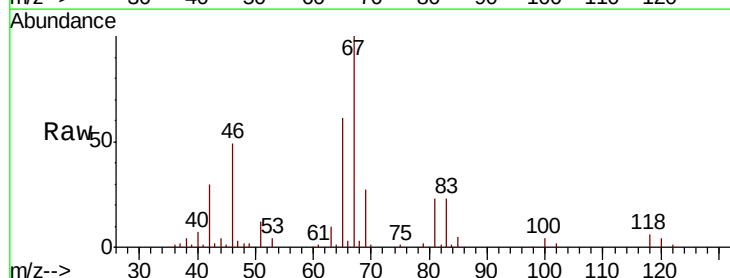
Tgt Ion: 83 Resp: 13197

Ion Ratio Lower Upper

83 100

55 0.0 63.3 94.9#

98 0.6 36.7 55.1#

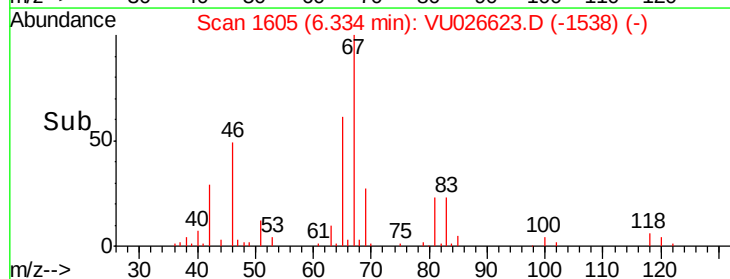
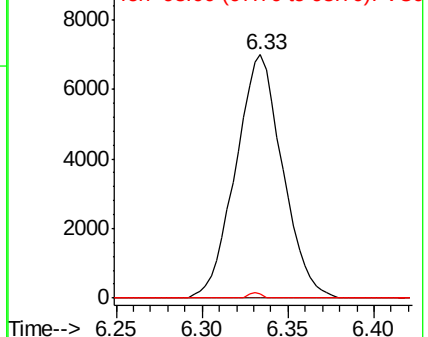


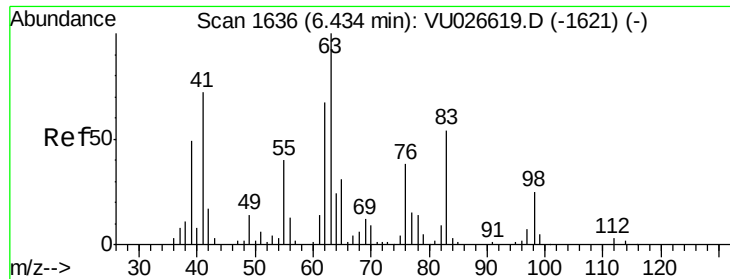
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

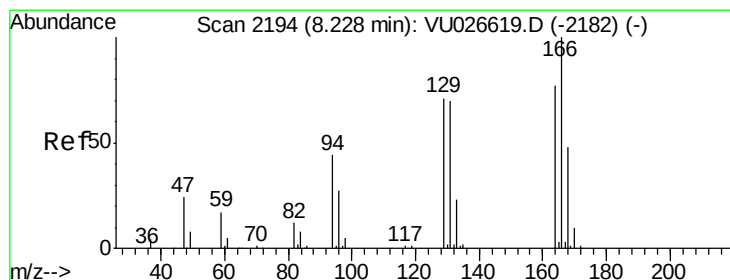
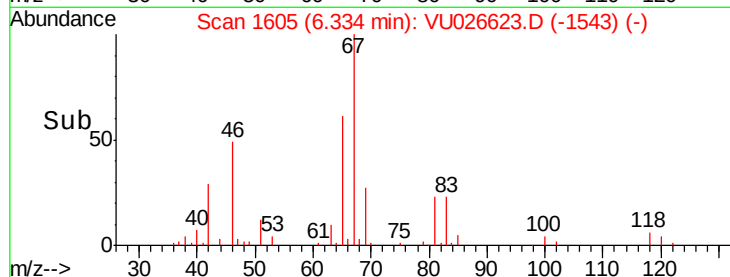
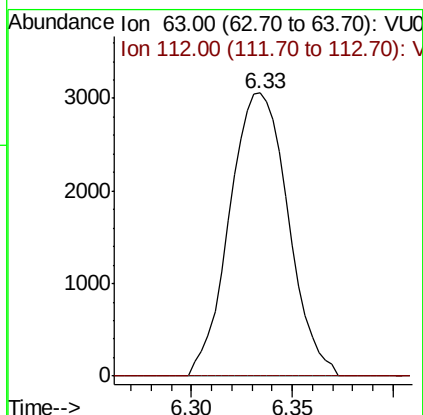
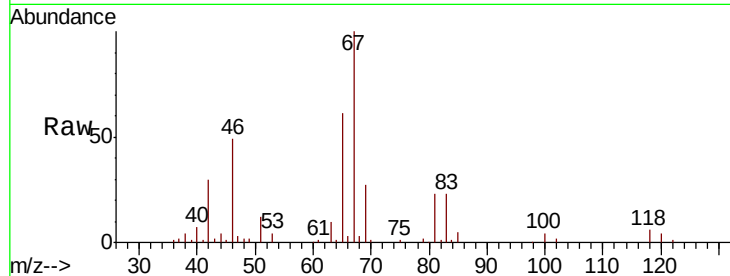




#37  
 1,2-Dichloropropane  
 Concen: 5.433 ug/L  
 RT: 6.33 min Scan# 1605  
 Delta R.T. -0.10 min  
 Lab File: VU026623.D  
 Acq: 07 Sep 2018 17:14

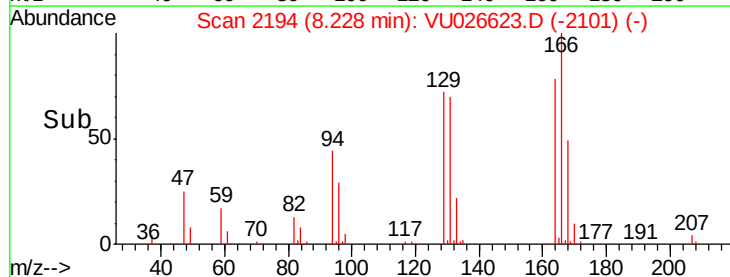
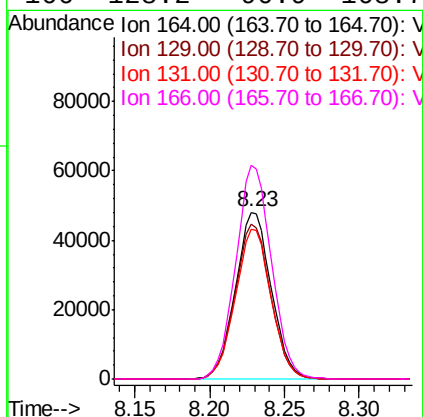
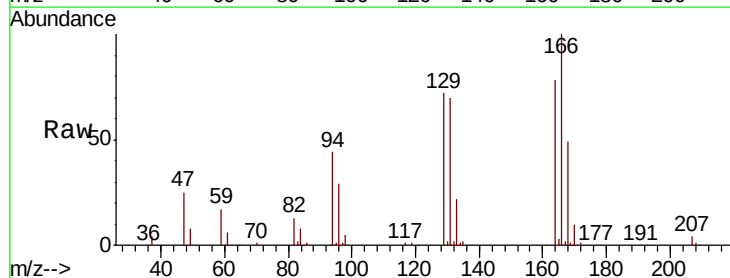
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 C0SY9

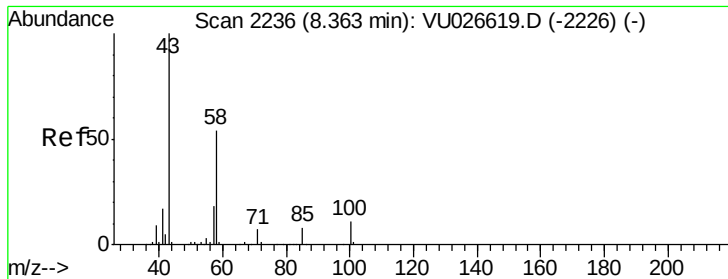
Tot Ion: 63 Resp: 6211  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.0 4.6#



#46  
 Tetrachloroethene  
 Concen: 94.672 ug/L  
 RT: 8.23 min Scan# 2194  
 Delta R.T. -0.00 min  
 Lab File: VU026623.D  
 Acq: 07 Sep 2018 17:14

Tgt Ion: 164 Resp: 80169  
 Ion Ratio Lower Upper  
 164 100  
 129 92.7 67.3 125.1  
 131 89.7 65.3 121.3  
 166 128.2 90.9 168.7

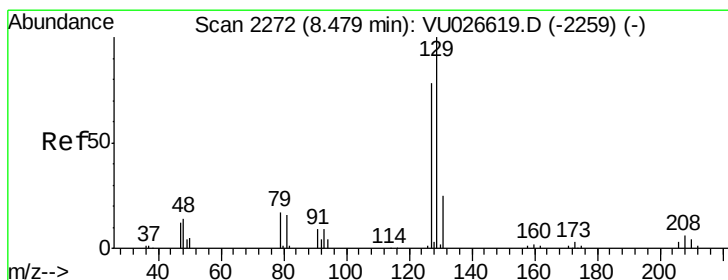
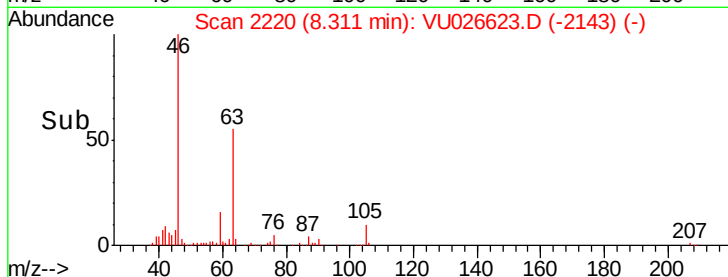
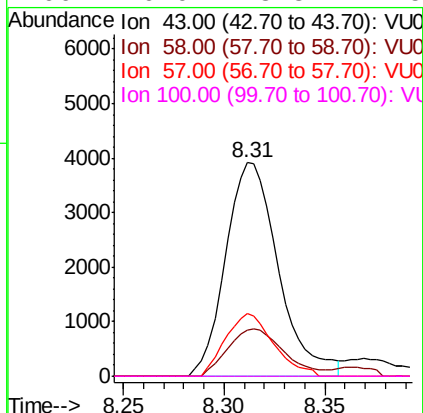
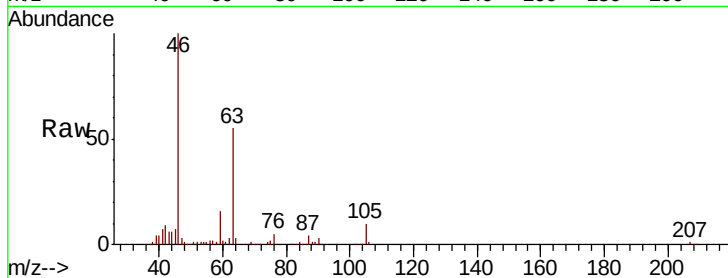




#48  
2-Hexanone  
Concen: 5.903 ug/L  
RT: 8.31 min Scan# 2220  
Delta R.T. -0.05 min  
Lab File: VU026623.D  
Acq: 07 Sep 2018 17:14

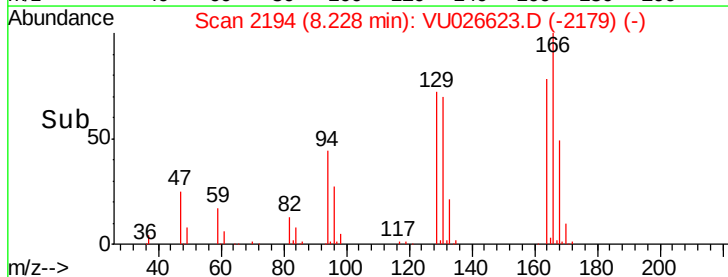
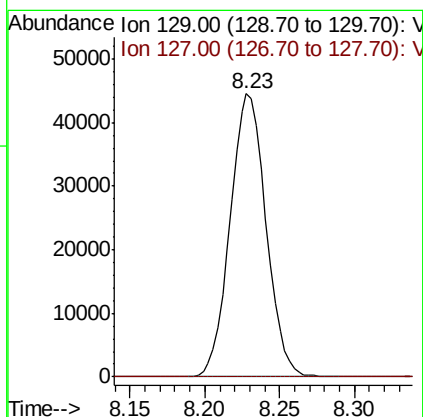
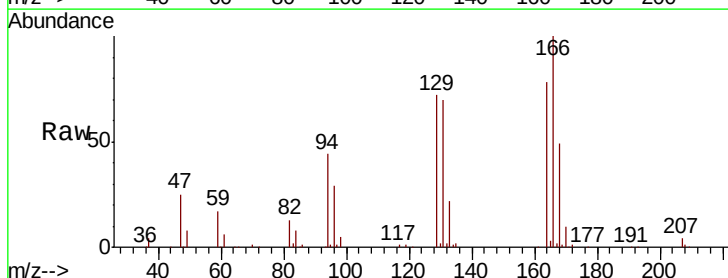
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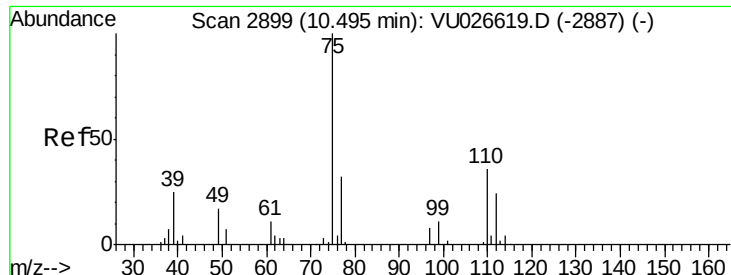
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 7167  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 23.4  | 42.2  | 63.4# |
| 57       | 26.7  | 14.6  | 21.8# |
| 100      | 0.0   | 8.3   | 12.5# |



#49  
Dibromochloromethane  
Concen: 62.949 ug/L  
RT: 8.23 min Scan# 2194  
Delta R.T. -0.25 min  
Lab File: VU026623.D  
Acq: 07 Sep 2018 17:14

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 74279  |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 0.0   | 55.0  | 102.2# |





#59

1,2,3-Trichloropropane

Concen: 5.032 ug/L

RT: 11.48 min Scan# 3207

Delta R.T. 0.99 min

Lab File: VU026623.D

Acq: 07 Sep 2018 17:14

Instrument :

MSVOA\_U

ClientSampleId :

C0SY9

Tot Ion: 75 Resp: 7177

Ion Ratio Lower Upper

75 100

77 35.4 25.0 37.6

