

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102219\  
 Data File : VU035358.D  
 Acq On : 22 Oct 2019 12:26  
 Operator : JC/SP  
 Sample : K5461-16  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0G67

Quant Time: Oct 23 07:44:16 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR101719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Oct 23 06:48:58 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 299319   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 282707   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 100047   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.62   | 65    | 125089   | 6.85     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 137.00%# |
| 7) Chloroethane-d5             | 1.93   | 69    | 105216   | 6.31     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 126.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.60   | 63    | 164436   | 4.87     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 97.40%   |
| 20) 2-Butanone-d5              | 4.71   | 46    | 240295   | 45.82    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 91.64%   |
| 24) Chloroform-d               | 5.11   | 84    | 180393   | 5.41     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 108.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 105650   | 5.72     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 114.40%  |
| 32) Benzene-d6                 | 5.77   | 84    | 396384   | 6.13     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 122.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.74   | 67    | 127615   | 6.22     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 124.40%  |
| 41) Toluene-d8                 | 7.93   | 98    | 348372   | 5.63     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 112.60%  |
| 43) trans-1,3-Dichloropropene- | 8.22   | 79    | 40889    | 4.10     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 82.00%   |
| 46) 2-Hexanone-d5              | 8.69   | 63    | 192801   | 43.88    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 87.76%   |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79  | 84    | 101426   | 5.54     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 110.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 103470   | 5.68     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 113.60%  |

## Target Compounds

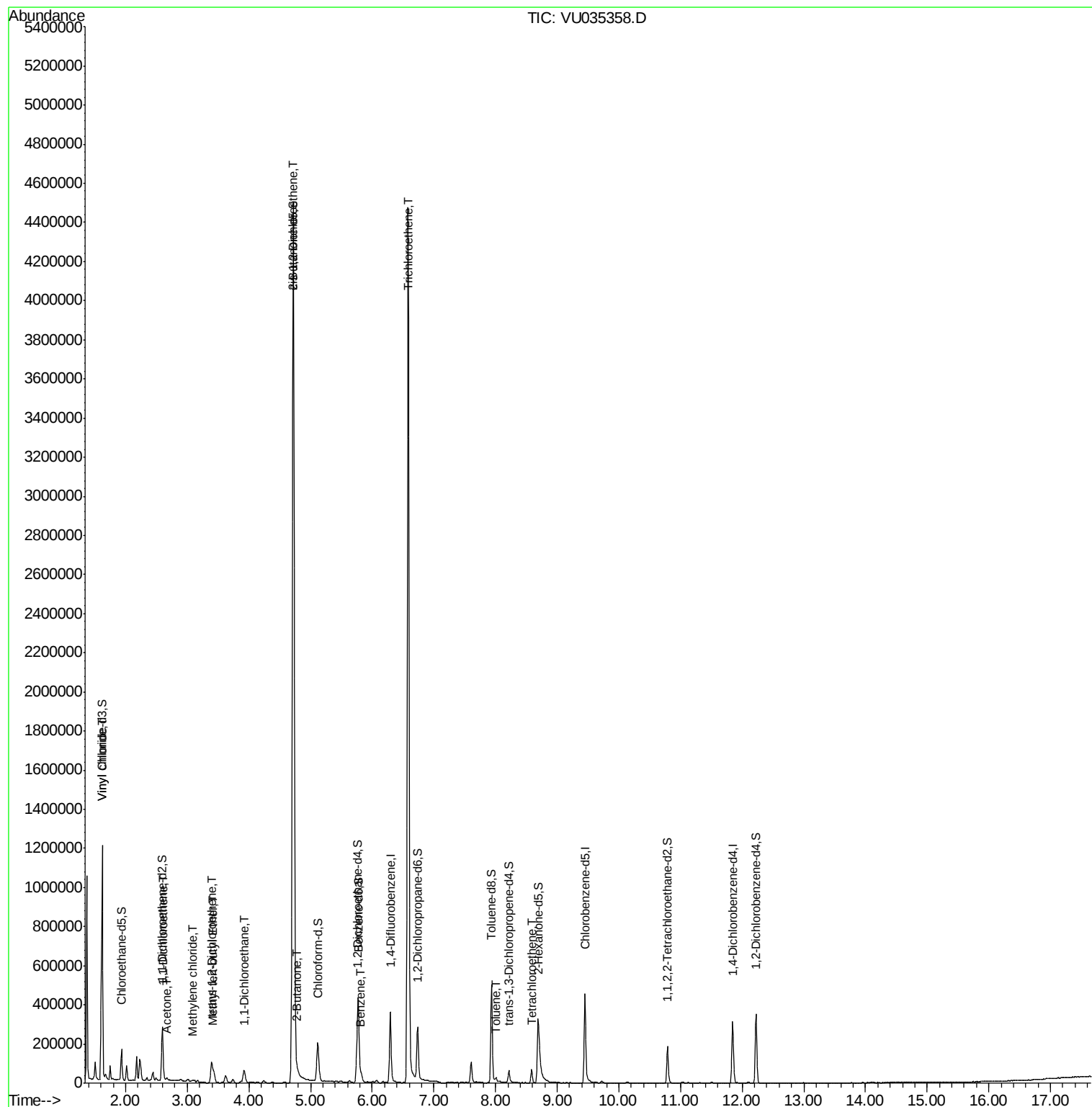
| Target Compounds             | R.T. | QIon | Response | Conc    | Units  | Ovalue |
|------------------------------|------|------|----------|---------|--------|--------|
| 5) Vinyl chloride            | 1.62 | 62   | 494097   | 19.039  | ug/L   | 100    |
| 12) 1,1-Dichloroethene       | 2.61 | 96   | 9613     | 0.500   | ug/L # | 1      |
| 13) Acetone                  | 2.67 | 43   | 10394    | 2.849   | ug/L   | 92     |
| 16) Methylene chloride       | 3.08 | 84   | 3608     | 0.156   | ug/L   | 87     |
| 17) Methyl tert-butyl Ether  | 3.43 | 73   | 62809    | 1.214   | ug/L # | 80     |
| 18) trans-1,2-Dichloroethene | 3.39 | 96   | 37909    | 1.827   | ug/L   | 98     |
| 19) 1,1-Dichloroethane       | 3.92 | 63   | 73398    | 1.956   | ug/L   | 99     |
| 21) 2-Butanone               | 4.79 | 43   | 10519    | 1.769   | ug/L   | 95     |
| 22) cis-1,2-Dichloroethene   | 4.72 | 96   | 2342600  | 102.129 | ug/L   | 99     |
| 33) Benzene                  | 5.82 | 78   | 45429    | 0.546   | ug/L   | 100    |
| 34) Trichloroethene          | 6.58 | 95   | 1548941  | 69.263  | ug/L   | 97     |
| 42) Toluene                  | 8.01 | 91   | 13652    | 0.149   | ug/L   | 94     |
| 47) Tetrachloroethene        | 8.58 | 164  | 15518    | 0.833   | ug/L   | 96     |

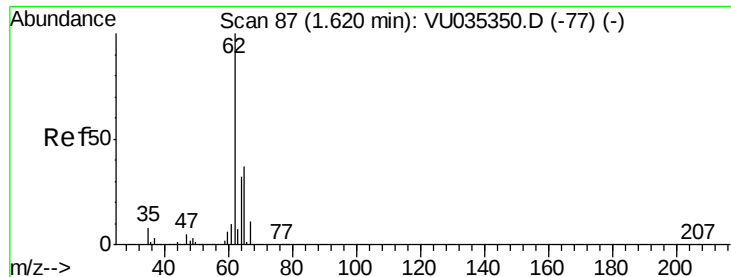
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU102219\  
Data File : VU035358.D  
Acq On : 22 Oct 2019 12:26  
Operator : JC/SP  
Sample : K5461-16  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
H0G67

Quant Time: Oct 23 07:44:16 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR101719WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Oct 23 06:48:58 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 19.039 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VU035358.D

Acq: 22 Oct 2019 12:26

Instrument :

MSVOA\_U

ClientSampleId :

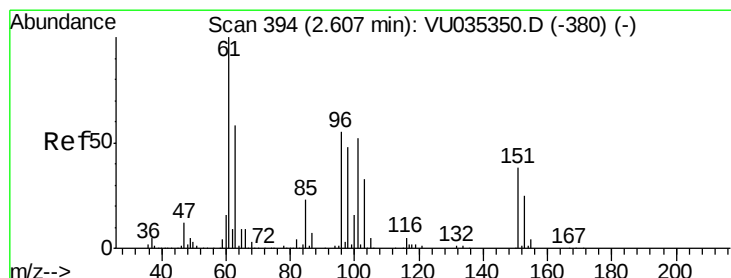
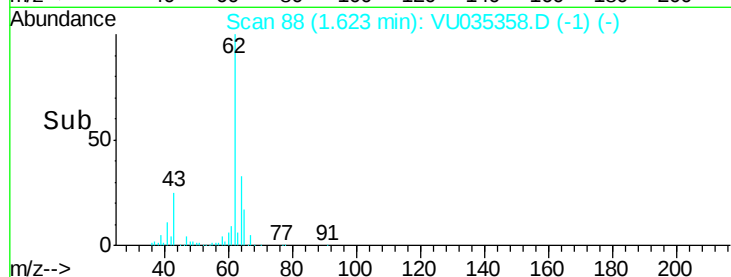
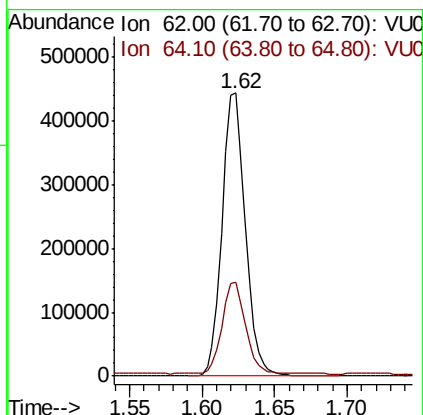
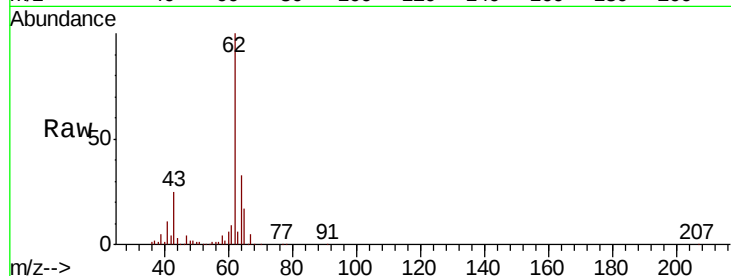
H0G67

Tot Ion: 62 Resp: 494097

Ion Ratio Lower Upper

62 100

64 33.0 22.9 42.5



#12

1,1-Dichloroethene

Concen: 0.500 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035358.D

Acq: 22 Oct 2019 12:26

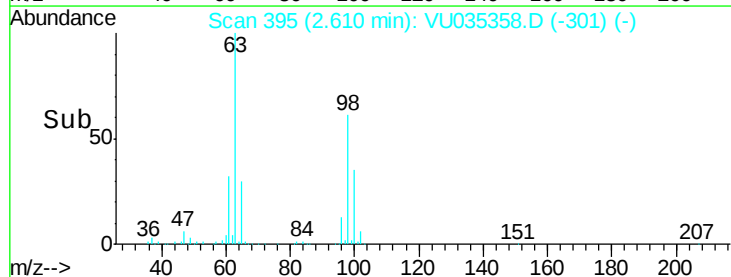
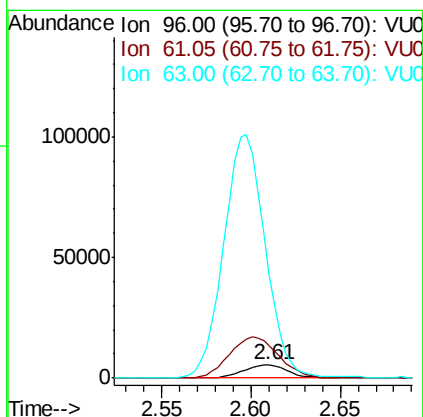
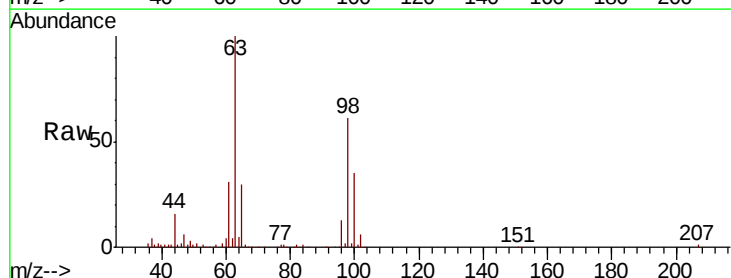
Tgt Ion: 96 Resp: 9613

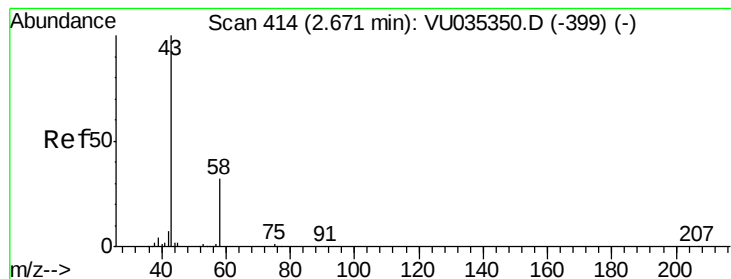
Ion Ratio Lower Upper

96 100

61 241.6 120.6 224.0#

63 767.2 86.8 161.2#





#13

Acetone

Concen: 2.849 ug/L

RT: 2.67 min Scan# 415

Delta R.T. 0.00 min

Lab File: VU035358.D

Acq: 22 Oct 2019 12:26

Instrument :

MSVOA\_U

ClientSampleId :

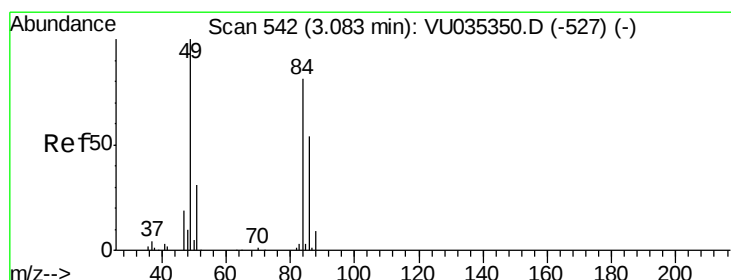
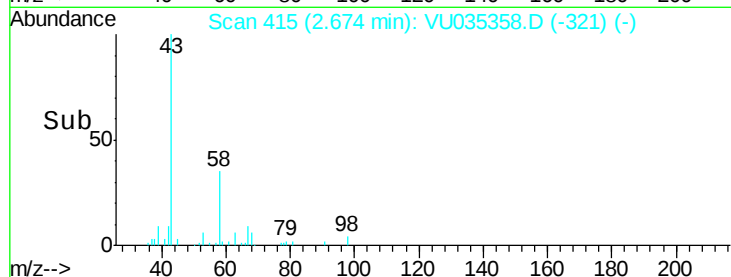
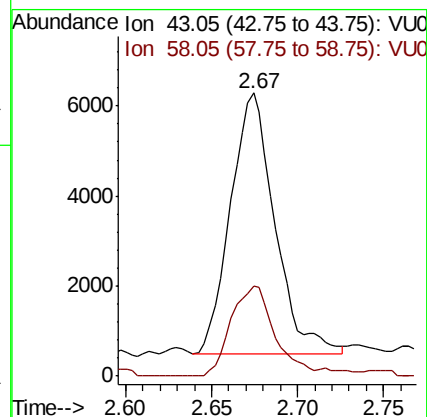
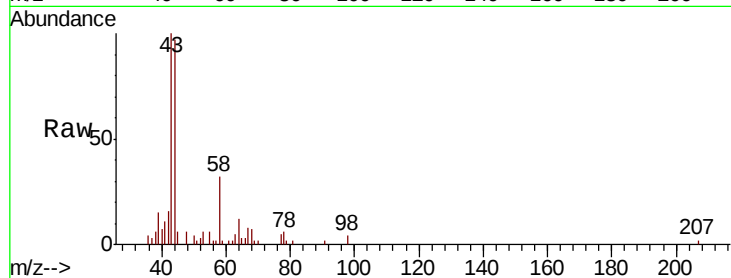
H0G67

Tot Ion: 43 Resp: 10394

Ion Ratio Lower Upper

43 100

58 35.0 0.0 61.8



#16

Methylene chloride

Concen: 0.156 ug/L

RT: 3.08 min Scan# 541

Delta R.T. -0.00 min

Lab File: VU035358.D

Acq: 22 Oct 2019 12:26

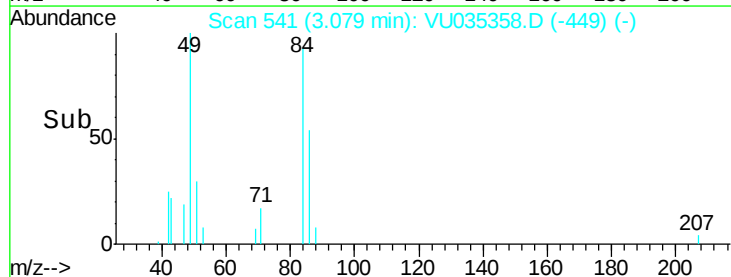
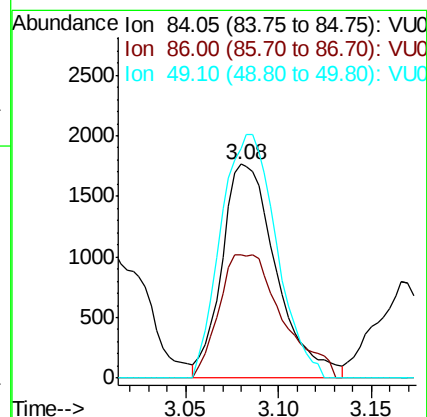
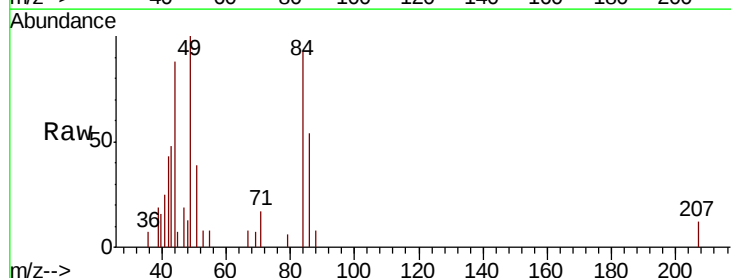
Tgt Ion: 84 Resp: 3608

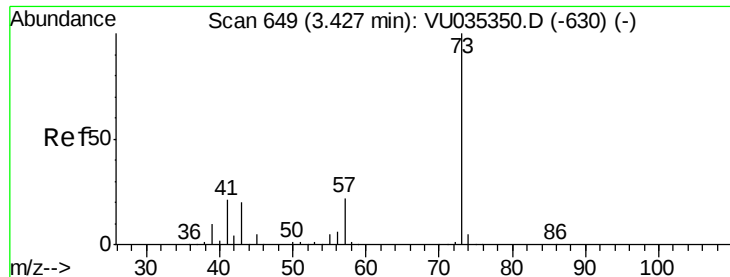
Ion Ratio Lower Upper

84 100

86 57.8 45.4 84.2

49 107.0 86.8 161.2

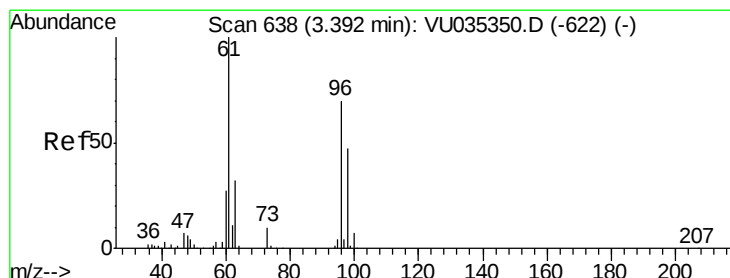
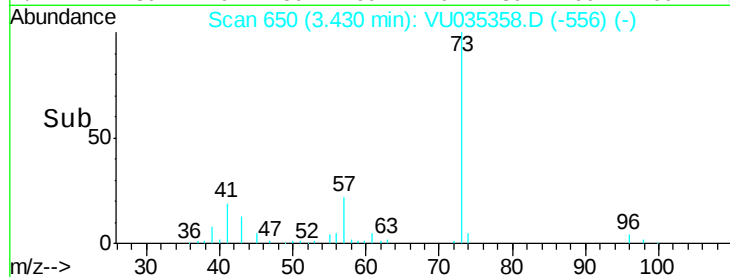
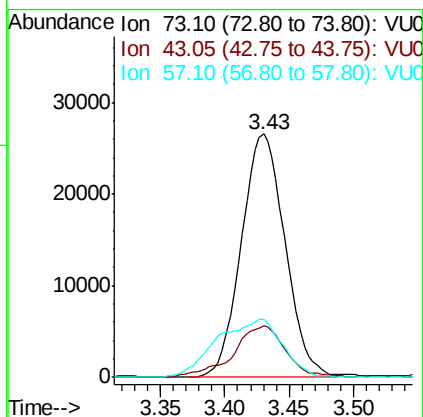
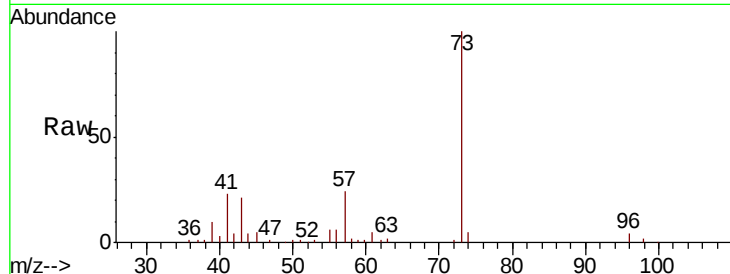




#17  
Methvl tert-butvl Ether  
Concen: 1.214 ug/L  
RT: 3.43 min Scan# 650  
Delta R.T. 0.00 min  
Lab File: VU035358.D  
Acq: 22 Oct 2019 12:26

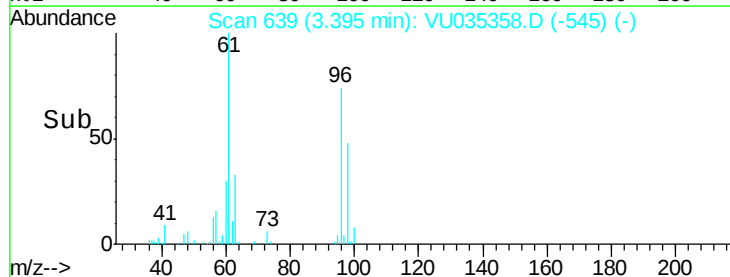
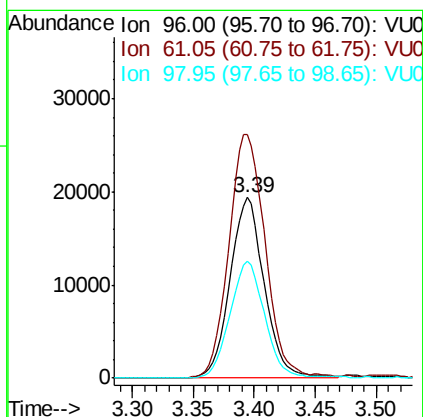
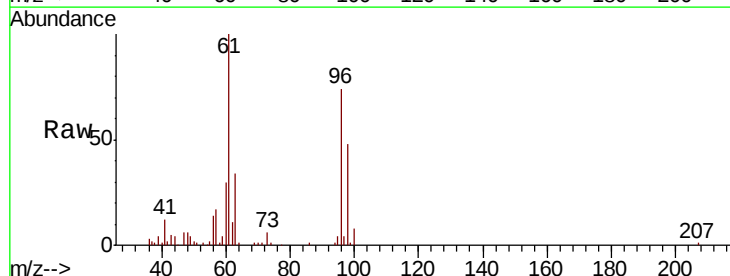
Instrument :  
MSVOA\_U  
ClientSampleId :  
H0G67

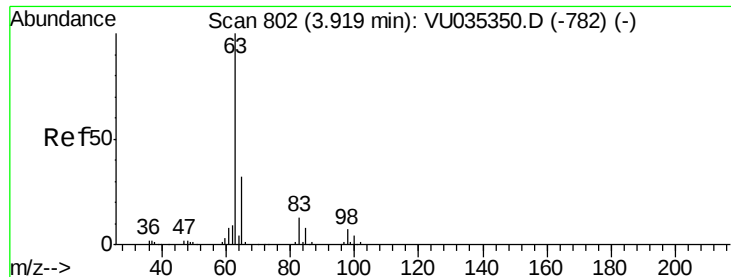
Tot Ion: 73 Resp: 62809  
Ion Ratio Lower Upper  
73 100  
43 25.2 16.0 24.0#  
57 35.5 17.4 26.2#



#18  
trans-1,2-Dichloroethene  
Concen: 1.827 ug/L  
RT: 3.39 min Scan# 639  
Delta R.T. 0.00 min  
Lab File: VU035358.D  
Acq: 22 Oct 2019 12:26

Tgt Ion: 96 Resp: 37909  
Ion Ratio Lower Upper  
96 100  
61 135.0 93.0 172.6  
98 65.0 43.7 81.1

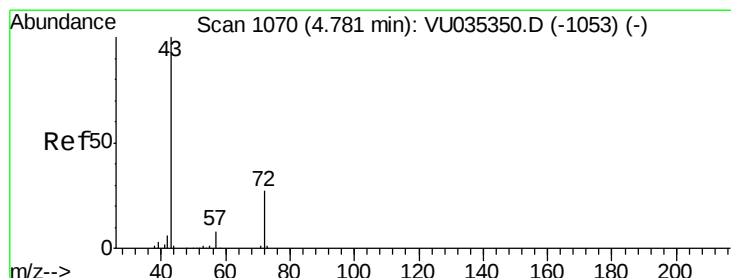
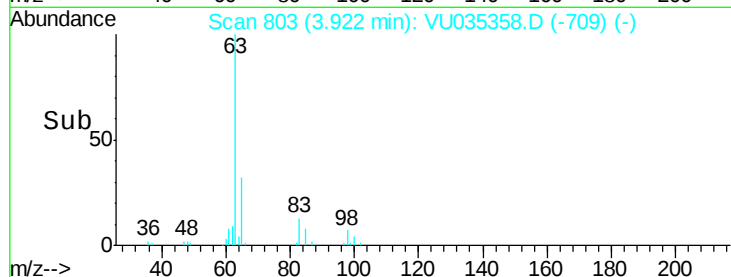
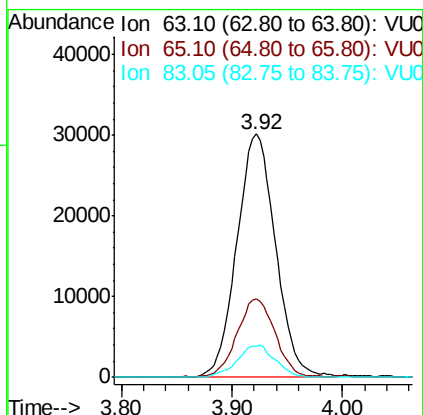
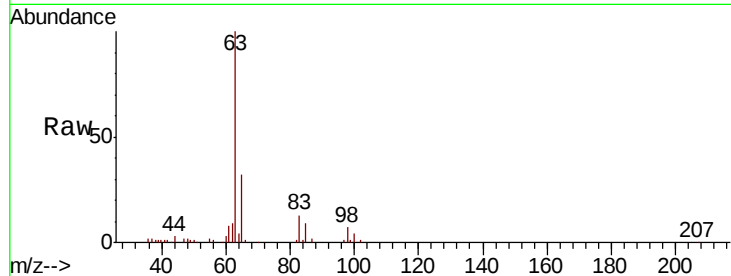




#19  
 1,1-Dichloroethane  
 Concen: 1.956 ug/L  
 RT: 3.92 min Scan# 803  
 Delta R.T. 0.00 min  
 Lab File: VU035358.D  
 Acq: 22 Oct 2019 12:26

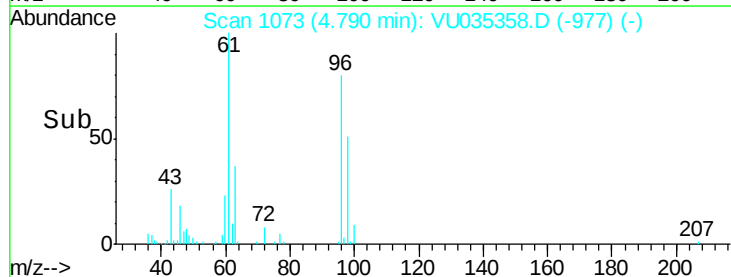
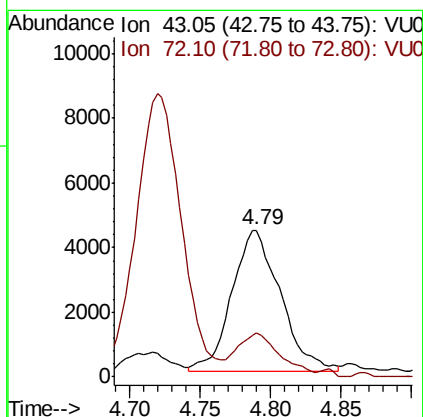
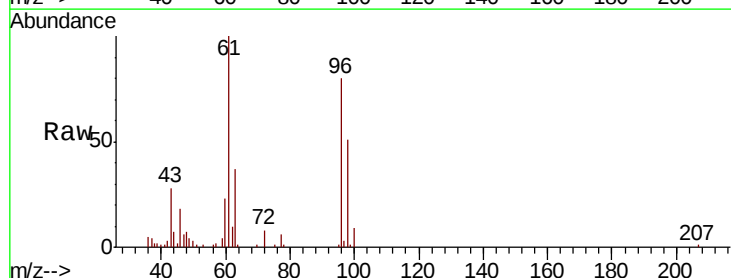
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0G67

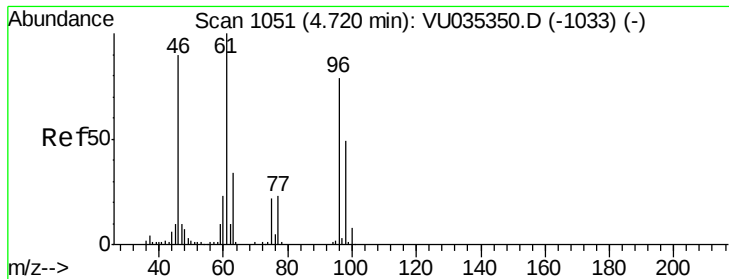
Tot Ion: 63 Resp: 73398  
 Ion Ratio Lower Upper  
 63 100  
 65 32.2 22.4 41.6  
 83 12.9 9.3 17.3



#21  
 2-Butanone  
 Concen: 1.769 ug/L  
 RT: 4.79 min Scan# 1073  
 Delta R.T. 0.01 min  
 Lab File: VU035358.D  
 Acq: 22 Oct 2019 12:26

Tgt Ion: 43 Resp: 10519  
 Ion Ratio Lower Upper  
 43 100  
 72 24.6 13.6 40.8

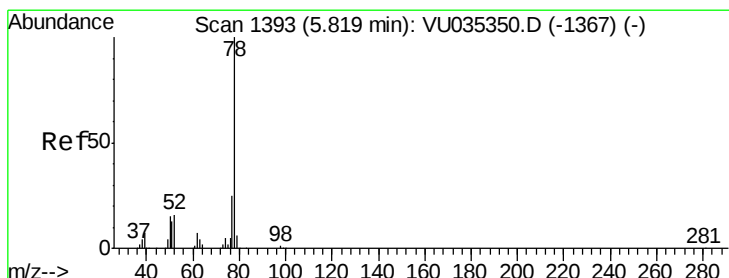
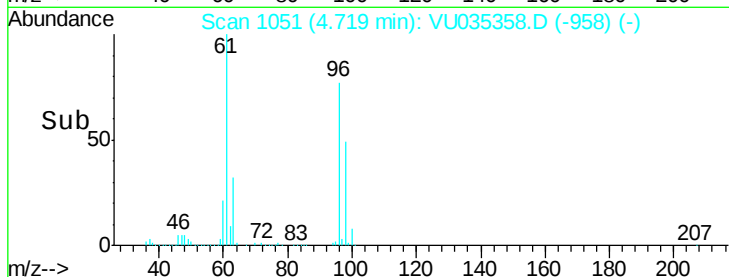
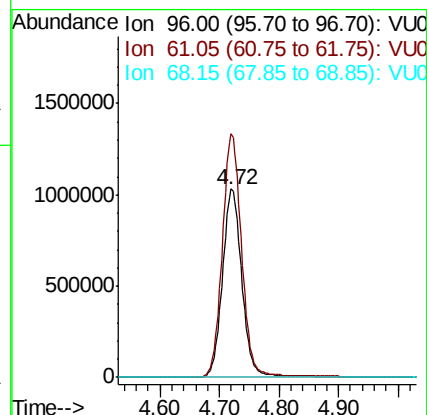
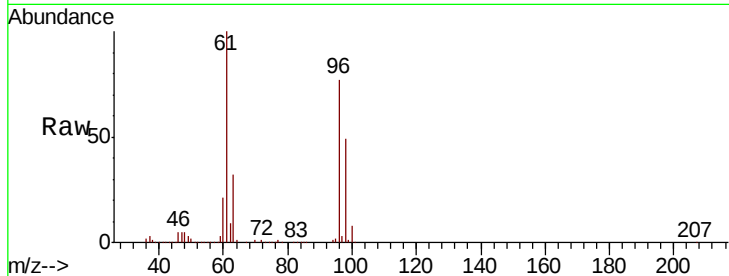




#22  
 cis-1,2-Dichloroethene  
 Concen: 102.129 ug/L  
 RT: 4.72 min Scan# 1051  
 Delta R.T. -0.00 min  
 Lab File: VU035358.D  
 Acq: 22 Oct 2019 12:26

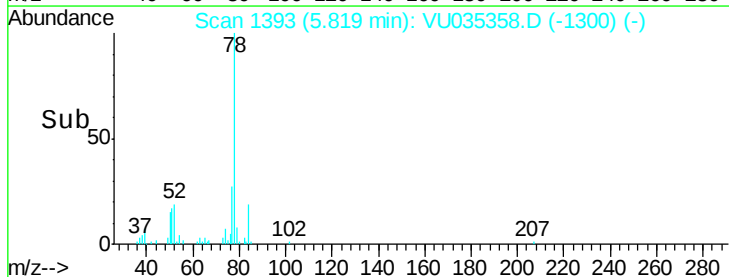
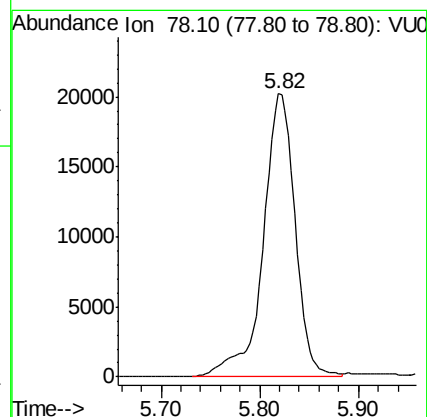
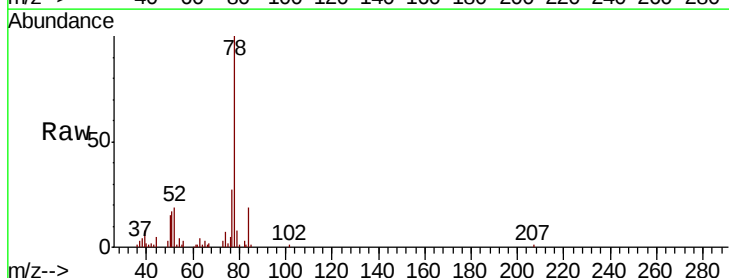
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0G67

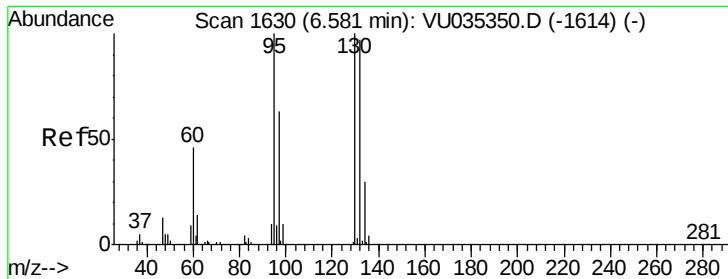
Tot Ion: 96 Resp: 2342600  
 Ion Ratio Lower Upper  
 96 100  
 61 129.5 89.7 166.5  
 68 0.0 0.0 0.0



#33  
 Benzene  
 Concen: 0.546 ug/L  
 RT: 5.82 min Scan# 1393  
 Delta R.T. -0.00 min  
 Lab File: VU035358.D  
 Acq: 22 Oct 2019 12:26

Tgt Ion: 78 Resp: 45429

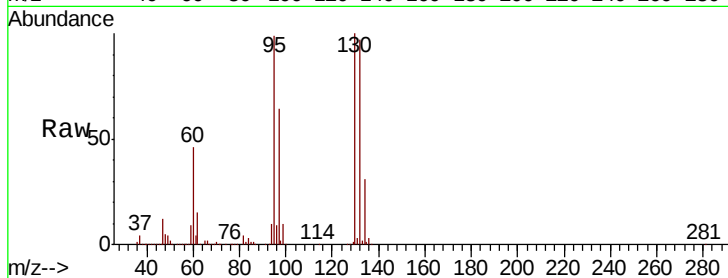




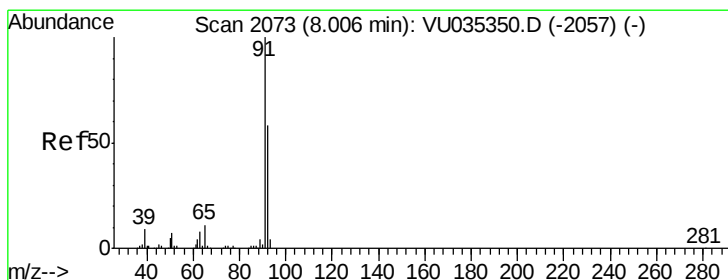
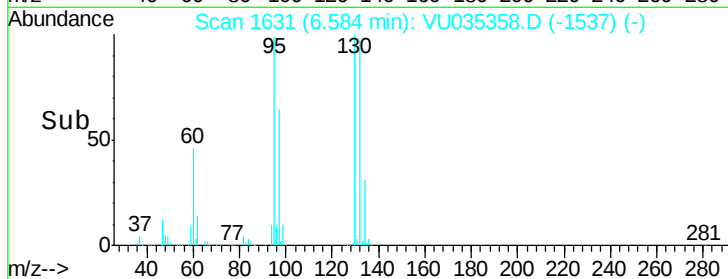
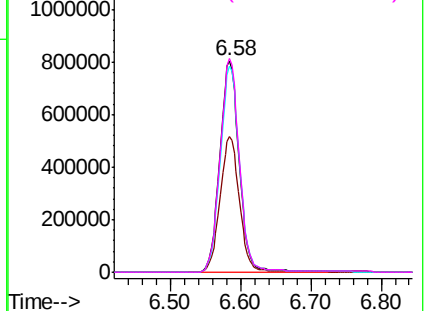
#34  
 Trichloroethene  
 Concen: 69.263 ug/L  
 RT: 6.58 min Scan# 1631  
 Delta R.T. 0.00 min  
 Lab File: VU035358.D  
 Acq: 22 Oct 2019 12:26

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0G67

Tot Ion: 95 Resp: 1548941  
 Ion Ratio Lower Upper  
 95 100  
 97 64.2 46.6 86.6  
 132 97.6 68.7 127.7  
 130 100.9 73.9 137.3

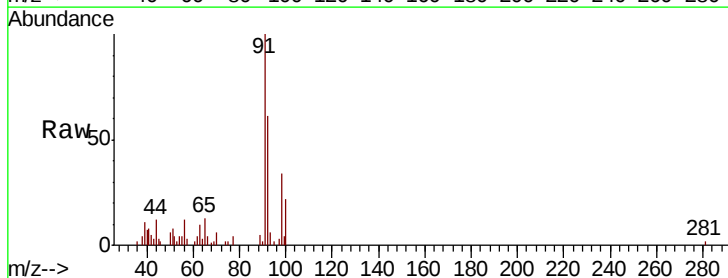


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 96.95 (96.65 to 97.65): VU0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

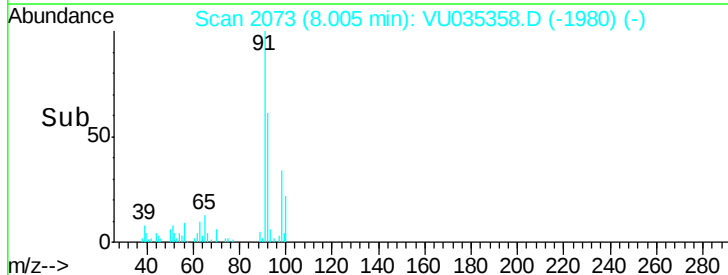
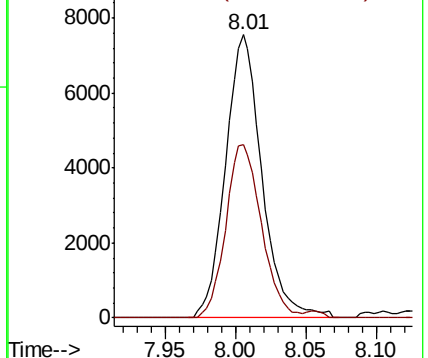


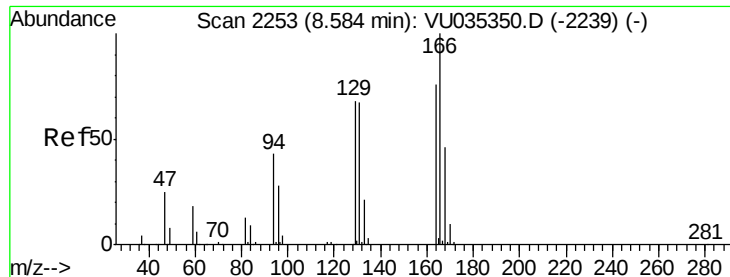
#42  
 Toluene  
 Concen: 0.149 ug/L  
 RT: 8.01 min Scan# 2073  
 Delta R.T. -0.00 min  
 Lab File: VU035358.D  
 Acq: 22 Oct 2019 12:26

Tgt Ion: 91 Resp: 13652  
 Ion Ratio Lower Upper  
 91 100  
 92 61.4 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VU0  
 Ion 92.15 (91.85 to 92.85): VU0





#47

Tetrachloroethene

Concen: 0.833 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU035358.D

Acq: 22 Oct 2019 12:26

Instrument :

MSVOA\_U

ClientSampleId :

H0G67

Tot Ion:164 Resp: 15518

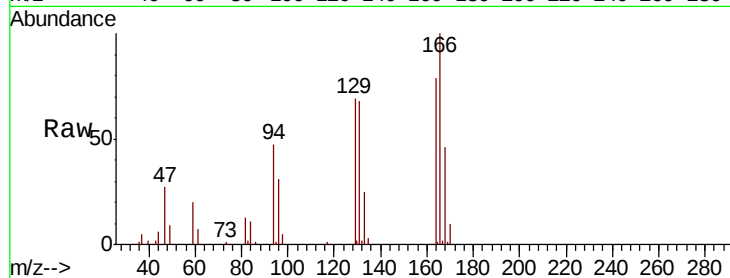
Ion Ratio Lower Upper

164 100

129 87.8 65.2 121.0

131 85.9 62.9 116.9

166 126.4 91.5 169.9



Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

