

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU043020\  
 Data File : VU037958.D  
 Acq On : 30 Apr 2020 17:42  
 Operator : JC/MD  
 Sample : L2395-20  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: May 01 02:20:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM043020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri May 01 02:16:47 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 658394   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 647364   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 284701   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 265752   | 45.89    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 91.78% |
| 7) Chloroethane-d5             | 1.93    | 69    | 227916   | 48.38    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 96.76% |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 373505   | 39.43    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 78.86% |
| 21) 2-Butanone-d5              | 4.66    | 46    | 416034   | 91.91    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 91.91% |
| 24) Chloroform-d               | 5.10    | 84    | 419789   | 46.81    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.62% |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 305323   | 49.01    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.02% |
| 32) Benzene-d6                 | 5.76    | 84    | 926535   | 48.56    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.12% |
| 36) 1,2-Dichloropropane-d6     | 6.72    | 67    | 311309   | 49.21    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.42% |
| 41) Toluene-d8                 | 7.92    | 98    | 832595   | 47.57    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.14% |
| 43) trans-1,3-Dichloropropene- | 8.20    | 79    | 110469   | 37.24    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 74.48% |
| 47) 2-Hexanone-d5              | 8.65    | 63    | 267314   | 97.15    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 97.15% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77   | 84    | 421077   | 46.19    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 92.38% |
| 64) 1,2-Dichlorobenzene-d4     | 12.20   | 152   | 288106   | 48.40    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.80% |

## Target Compounds

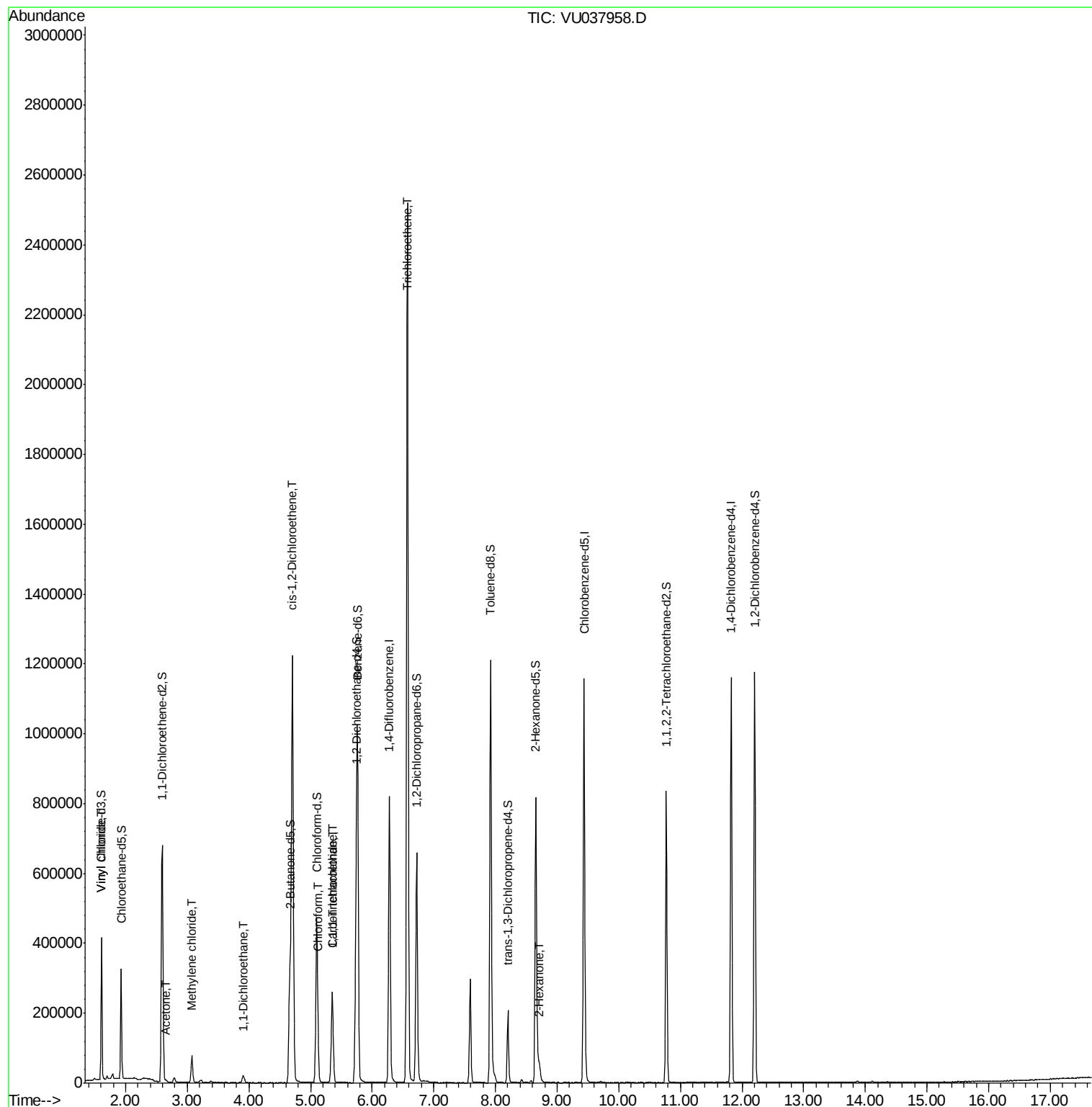
| Target Compounds           | R.T. | QIon | Response | Conc    | Units  | Ovalue |
|----------------------------|------|------|----------|---------|--------|--------|
| 5) Vinyl chloride          | 1.62 | 62   | 7795     | 1.182   | ug/L # | 26     |
| 13) Acetone                | 2.66 | 43   | 5283     | 1.812   | ug/L   | 98     |
| 16) Methylene chloride     | 3.08 | 84   | 36674    | 7.215   | ug/L   | 98     |
| 19) 1,1-Dichloroethane     | 3.91 | 63   | 25713    | 2.773   | ug/L   | 97     |
| 20) cis-1,2-Dichloroethene | 4.71 | 96   | 600484   | 116.649 | ug/L   | 98     |
| 25) Chloroform             | 5.13 | 83   | 17047    | 1.915   | ug/L   | 97     |
| 30) 1,1,1-Trichloroethane  | 5.35 | 97   | 184720   | 25.670  | ug/L   | 99     |
| 31) Carbon tetrachloride   | 5.35 | 117  | 23649    | 4.163   | ug/L   | 97     |
| 34) Trichloroethene        | 6.57 | 95   | 852809   | 173.783 | ug/L   | 100    |
| 48) 2-Hexanone             | 8.71 | 43   | 38068    | 5.269   | ug/L # | 91     |

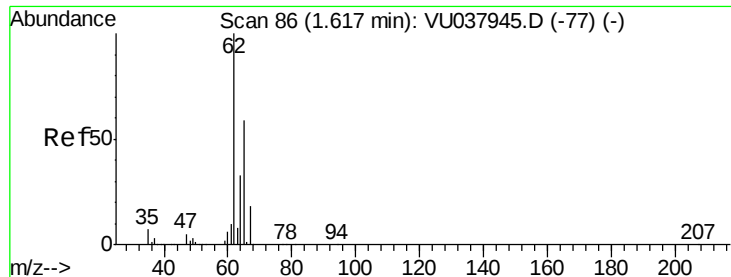
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU043020\  
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Operator : JC/MD  
Sample : L2395-20  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: May 01 02:20:53 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM043020WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri May 01 02:16:47 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.182 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037958.D

Acq: 30 Apr 2020 17:42

Instrument :

MSVOA\_U

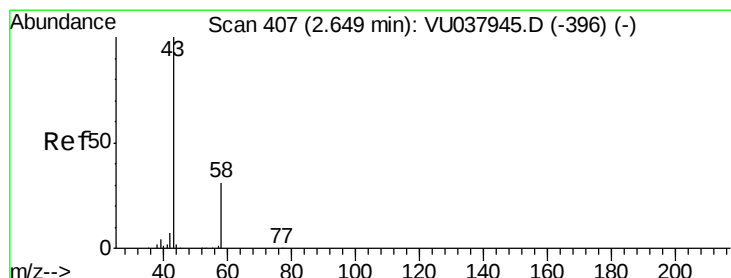
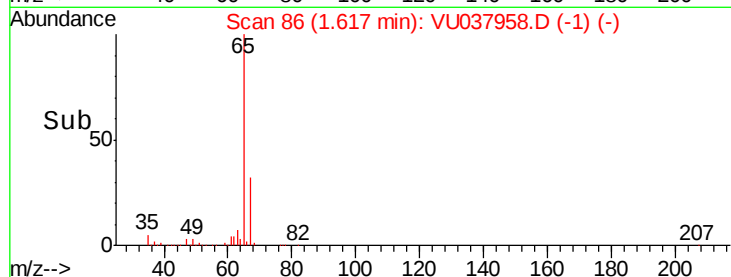
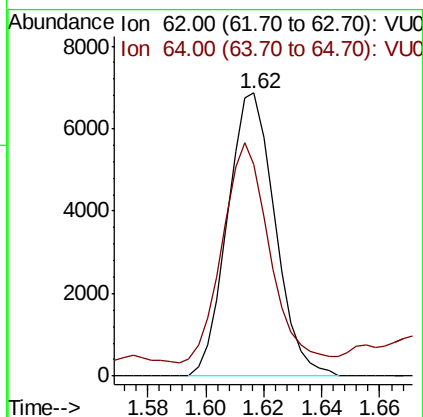
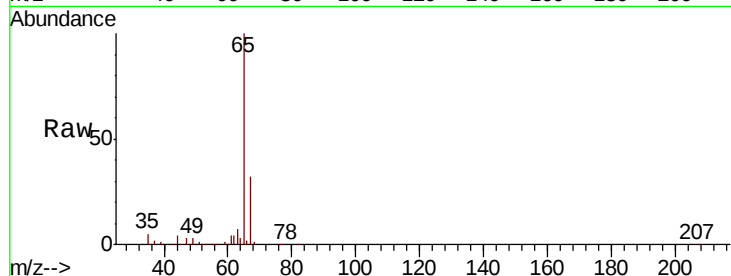
ClientSampleId :

Tot Ion: 62 Resp: 7795

Ion Ratio Lower Upper

62 100

64 75.0 23.2 43.2#



#13

Acetone

Concen: 1.812 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.01 min

Lab File: VU037958.D

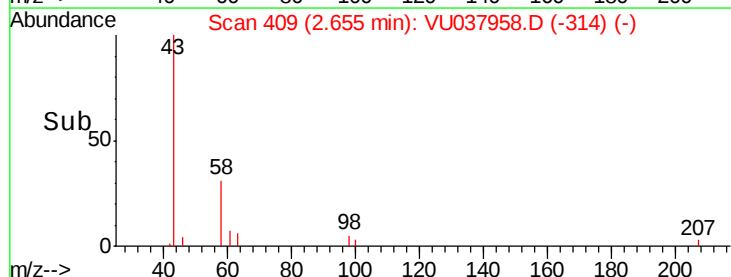
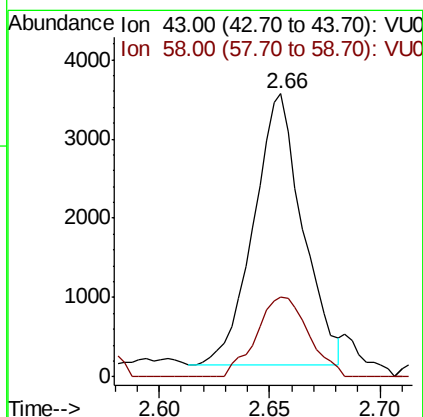
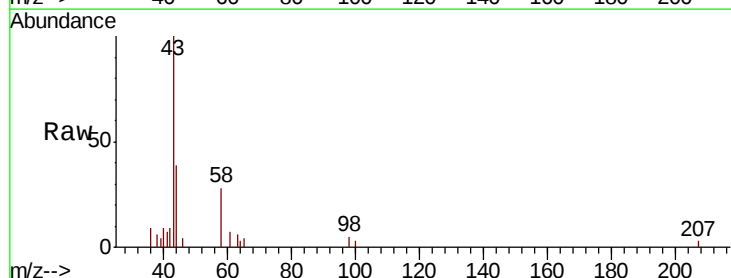
Acq: 30 Apr 2020 17:42

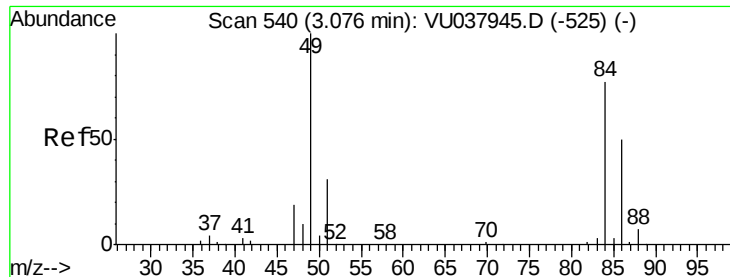
Tgt Ion: 43 Resp: 5283

Ion Ratio Lower Upper

43 100

58 31.2 0.0 64.4

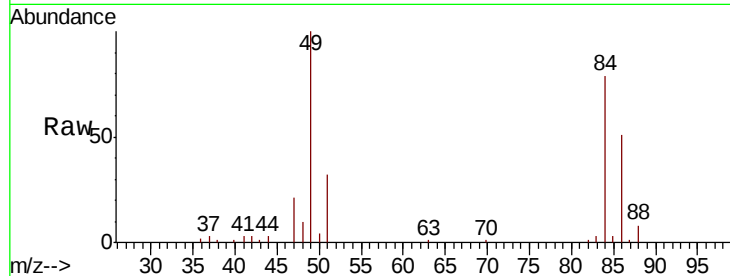




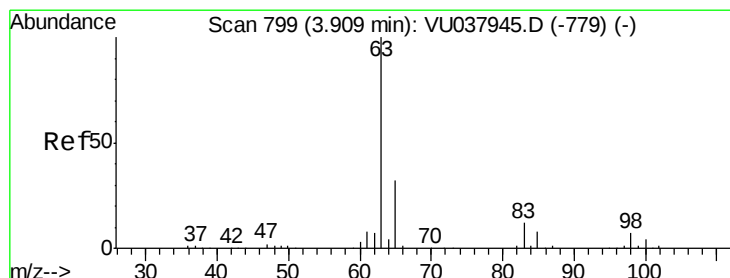
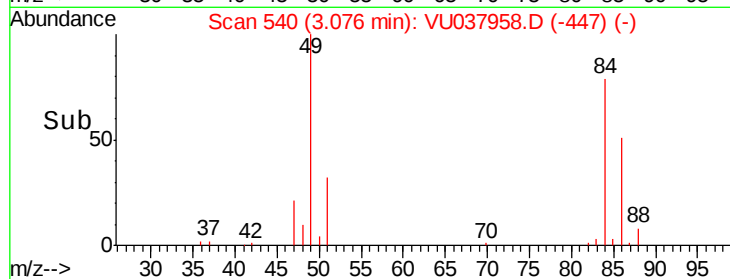
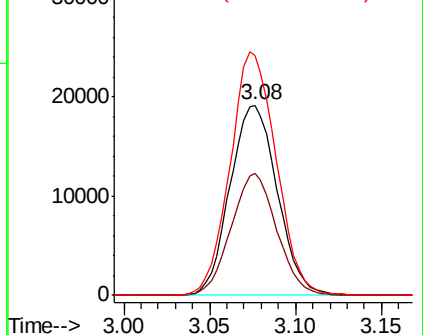
#16  
Methvlene chloride  
Concen: 7.215 ug/L  
RT: 3.08 min Scan# 540  
Delta R.T. 0.00 min  
Lab File: VU037958.D  
Acq: 30 Apr 2020 17:42

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 84 Resp: 36674  
Ion Ratio Lower Upper  
84 100  
86 64.4 45.1 83.9  
49 126.3 91.2 169.4

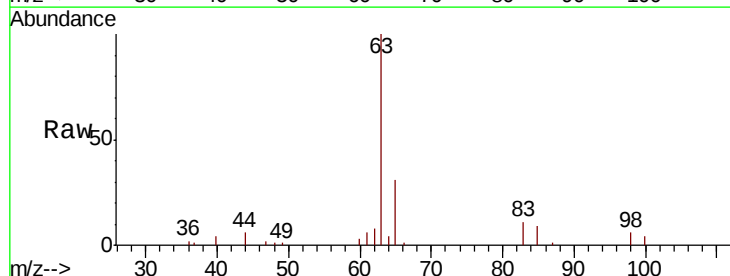


Abundance Ion 84.00 (83.70 to 84.70): VU0  
Ion 86.00 (85.70 to 86.70): VU0  
Ion 49.00 (48.70 to 49.70): VU0

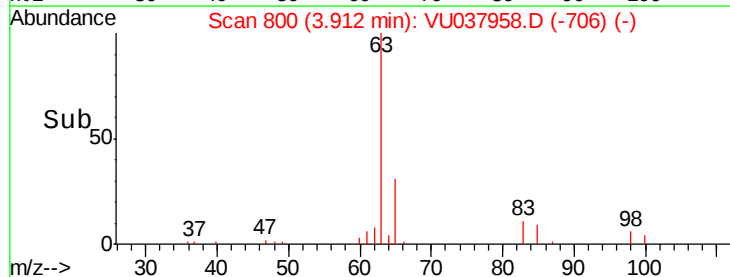
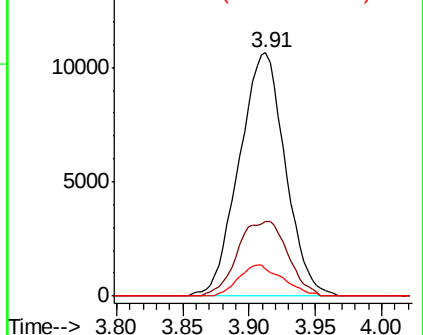


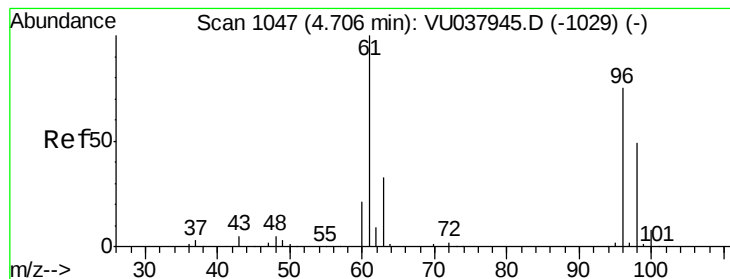
#19  
1,1-Dichloroethane  
Concen: 2.773 ug/L  
RT: 3.91 min Scan# 800  
Delta R.T. 0.00 min  
Lab File: VU037958.D  
Acq: 30 Apr 2020 17:42

Tgt Ion: 63 Resp: 25713  
Ion Ratio Lower Upper  
63 100  
65 30.5 22.5 41.7  
83 11.2 8.5 15.7



Abundance Ion 63.00 (62.70 to 63.70): VU0  
Ion 65.00 (64.70 to 65.70): VU0  
Ion 83.00 (82.70 to 83.70): VU0





#20

cis-1,2-Dichloroethene

Concen: 116.649 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU037958.D

Acq: 30 Apr 2020 17:42

Instrument :

MSVOA\_U

ClientSampled :

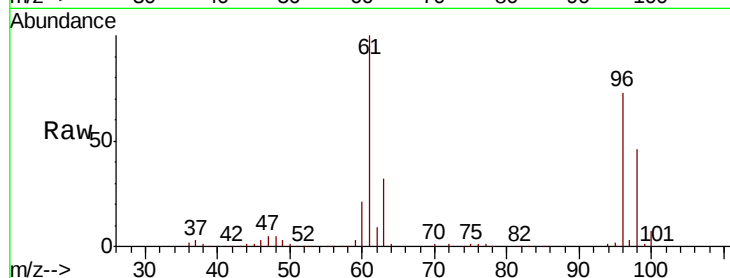
Tot Ion: 96 Resp: 600484

Ion Ratio Lower Upper

96 100

61 137.0 93.9 174.3

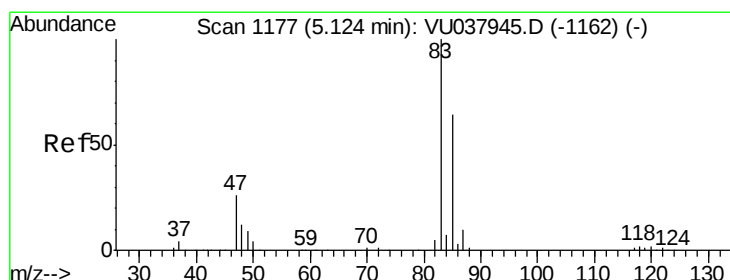
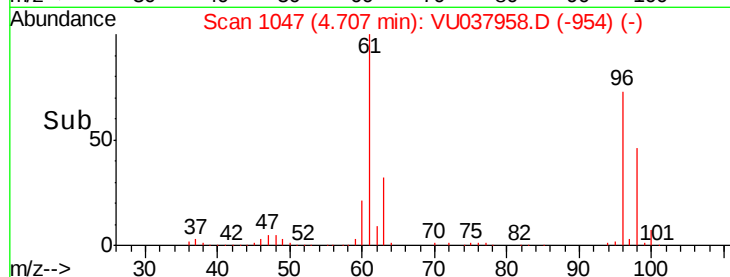
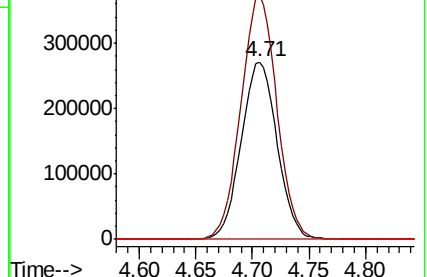
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037945.D (-1029) (-)

Ion 61.00 (60.70 to 61.70): VU037945.D (-1029) (-)

Ion 68.00 (67.70 to 68.70): VU037945.D (-1029) (-)



#25

Chloroform

Concen: 1.915 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VU037958.D

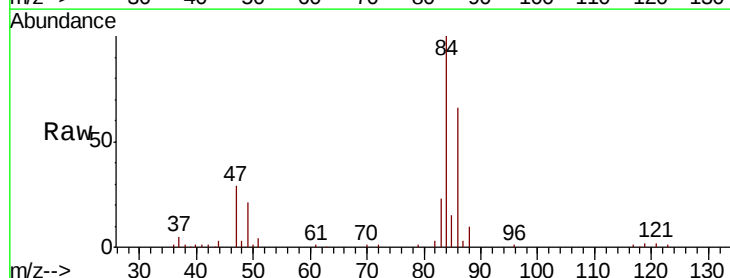
Acq: 30 Apr 2020 17:42

Tgt Ion: 83 Resp: 17047

Ion Ratio Lower Upper

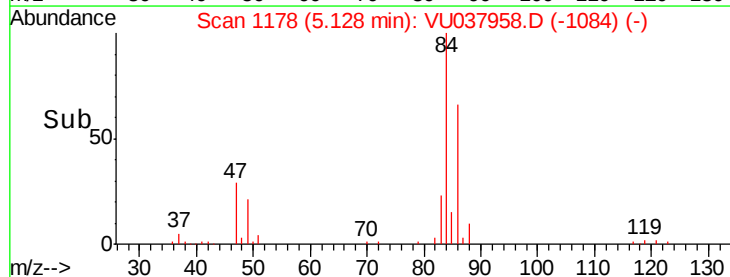
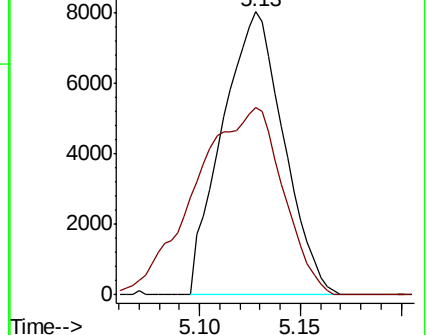
83 100

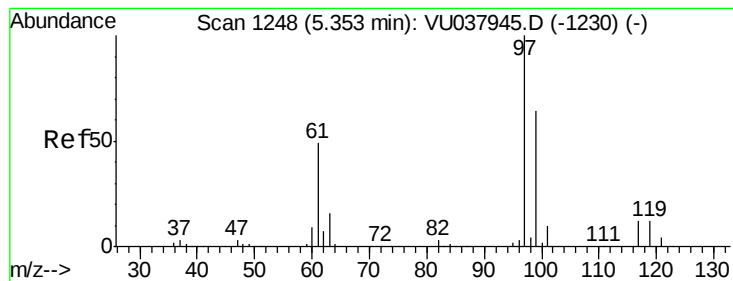
85 66.3 45.0 83.6



Abundance Ion 83.00 (82.70 to 83.70): VU037945.D (-1162) (-)

Ion 85.00 (84.70 to 85.70): VU037945.D (-1162) (-)





#30

1,1,1-Trichloroethane

Concen: 25.670 ug/L

RT: 5.35 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VU037958.D

Acq: 30 Apr 2020 17:42

Instrument :

MSVOA\_U

ClientSampleId :

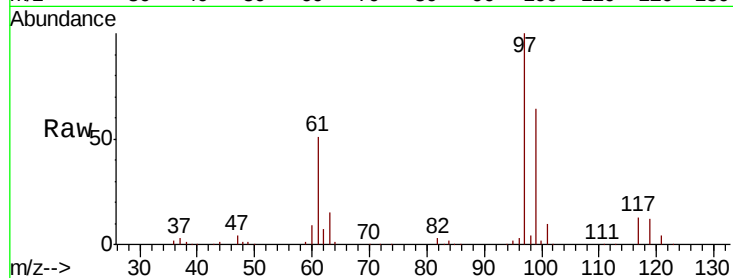
Tot Ion: 97 Resp: 184720

Ion Ratio Lower Upper

97 100

99 64.0 50.5 75.7

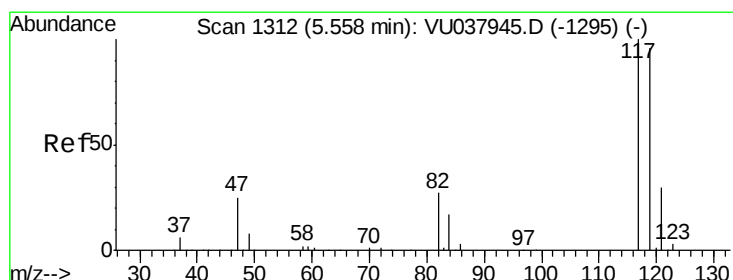
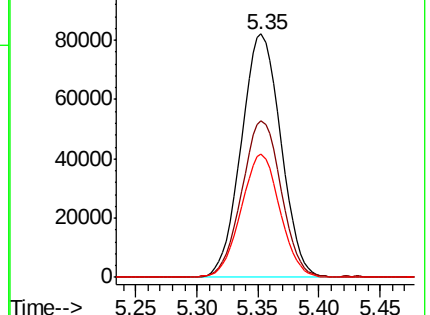
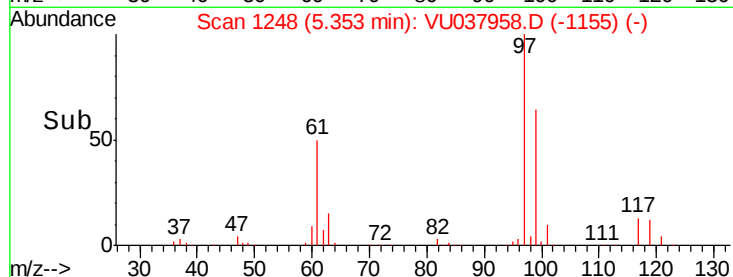
61 49.2 38.8 58.2



Abundance Ion 97.00 (96.70 to 97.70): VU037945.D (-1230) (-)

Ion 99.00 (98.70 to 99.70): VU037945.D (-1230) (-)

Ion 61.05 (60.75 to 61.75): VU037945.D (-1230) (-)



#31

Carbon tetrachloride

Concen: 4.163 ug/L

RT: 5.35 min Scan# 1248

Delta R.T. -0.21 min

Lab File: VU037958.D

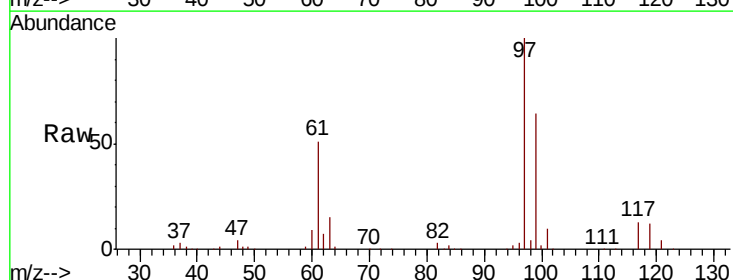
Acq: 30 Apr 2020 17:42

Tgt Ion: 117 Resp: 23649

Ion Ratio Lower Upper

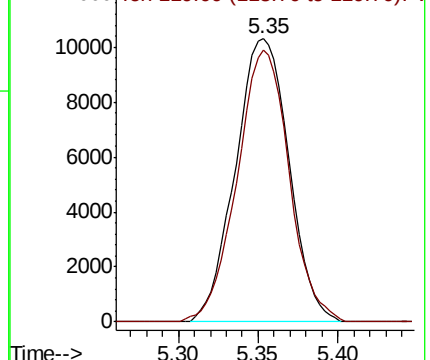
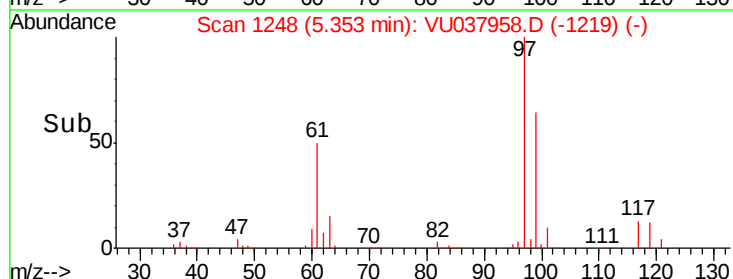
117 100

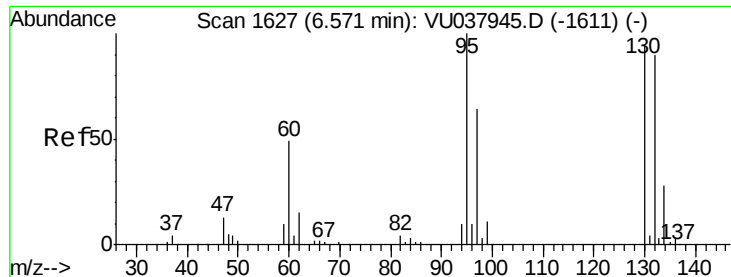
119 93.4 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): VU037945.D (-1295) (-)

Ion 119.00 (118.70 to 119.70): VU037945.D (-1295) (-)

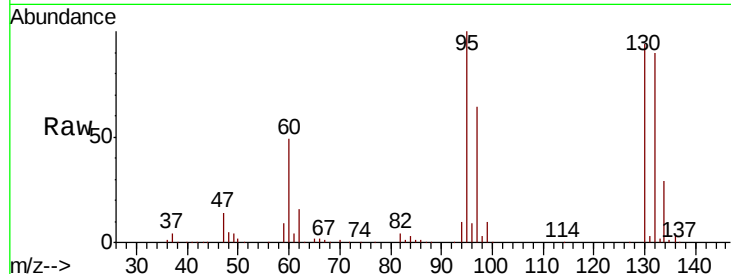




#34  
 Trichloroethene  
 Concen: 173.783 ug/L  
 RT: 6.57 min Scan# 1627  
 Delta R.T. 0.00 min  
 Lab File: VU037958.D  
 Acq: 30 Apr 2020 17:42

Instrument :  
 MSVOA\_U  
 ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 95    | Resp: | 852809 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 64.2  | 44.9  | 83.5   |
| 132      | 90.3  | 63.2  | 117.4  |
| 130      | 93.5  | 65.9  | 122.3  |

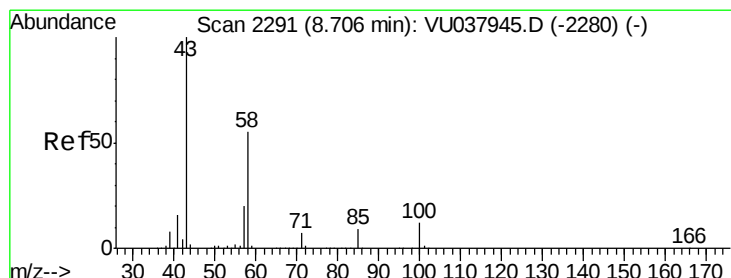
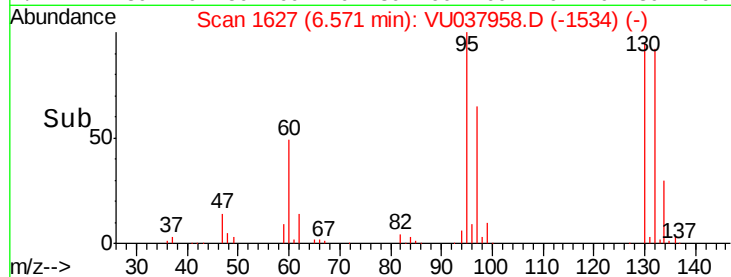
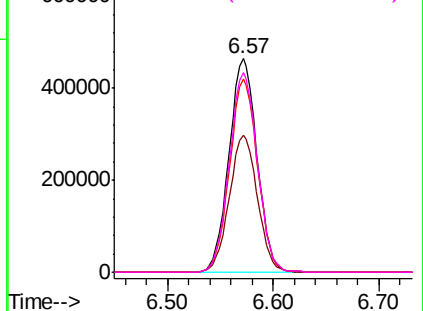


Abundance Ion 95.00 (94.70 to 95.70): VU037945.D (-1611) (-)

Ion 97.00 (96.70 to 97.70): VU037945.D (-1611) (-)

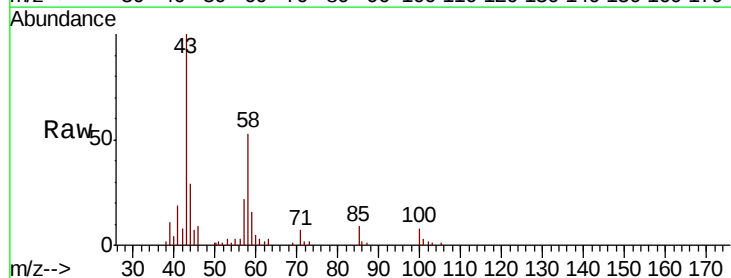
Ion 132.00 (131.70 to 132.70): VU037945.D (-1611) (-)

Ion 130.00 (129.70 to 130.70): VU037945.D (-1611) (-)



#48  
 2-Hexanone  
 Concen: 5.269 ug/L  
 RT: 8.71 min Scan# 2293  
 Delta R.T. 0.01 min  
 Lab File: VU037958.D  
 Acq: 30 Apr 2020 17:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 38068 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 51.3  | 46.4  | 69.6  |
| 57       | 20.8  | 16.4  | 24.6  |
| 100      | 4.2   | 9.5   | 14.3# |



Abundance Ion 43.00 (42.70 to 43.70): VU037945.D (-2280) (-)

Ion 58.00 (57.70 to 58.70): VU037945.D (-2280) (-)

Ion 57.00 (56.70 to 57.70): VU037945.D (-2280) (-)

Ion 100.00 (99.70 to 100.70): VU037945.D (-2280) (-)

