

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041720\  
 Data File : VU037791.D  
 Acq On : 17 Apr 2020 23:26  
 Operator : JC/MD  
 Sample : L2319-03  
 Misc : 25mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Apr 18 05:22:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR041420WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Apr 18 05:19:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 277615   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 265418   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 130668   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 79573    | 3.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 75.80%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 76993    | 4.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 86.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 112994   | 3.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 60.60%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 302270   | 52.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 104.78% |
| 24) Chloroform-d               | 5.10   | 84    | 156314   | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 94592    | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.20%  |
| 32) Benzene-d6                 | 5.76   | 84    | 322906   | 4.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 112276   | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 96.20%  |
| 41) Toluene-d8                 | 7.92   | 98    | 289206   | 4.44     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.80%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 45581    | 4.35     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 87.00%  |
| 46) 2-Hexanone-d5              | 8.65   | 63    | 260437   | 48.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 97.06%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 87704    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 95.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.20  | 152   | 108369   | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 93.00%  |

## Target Compounds

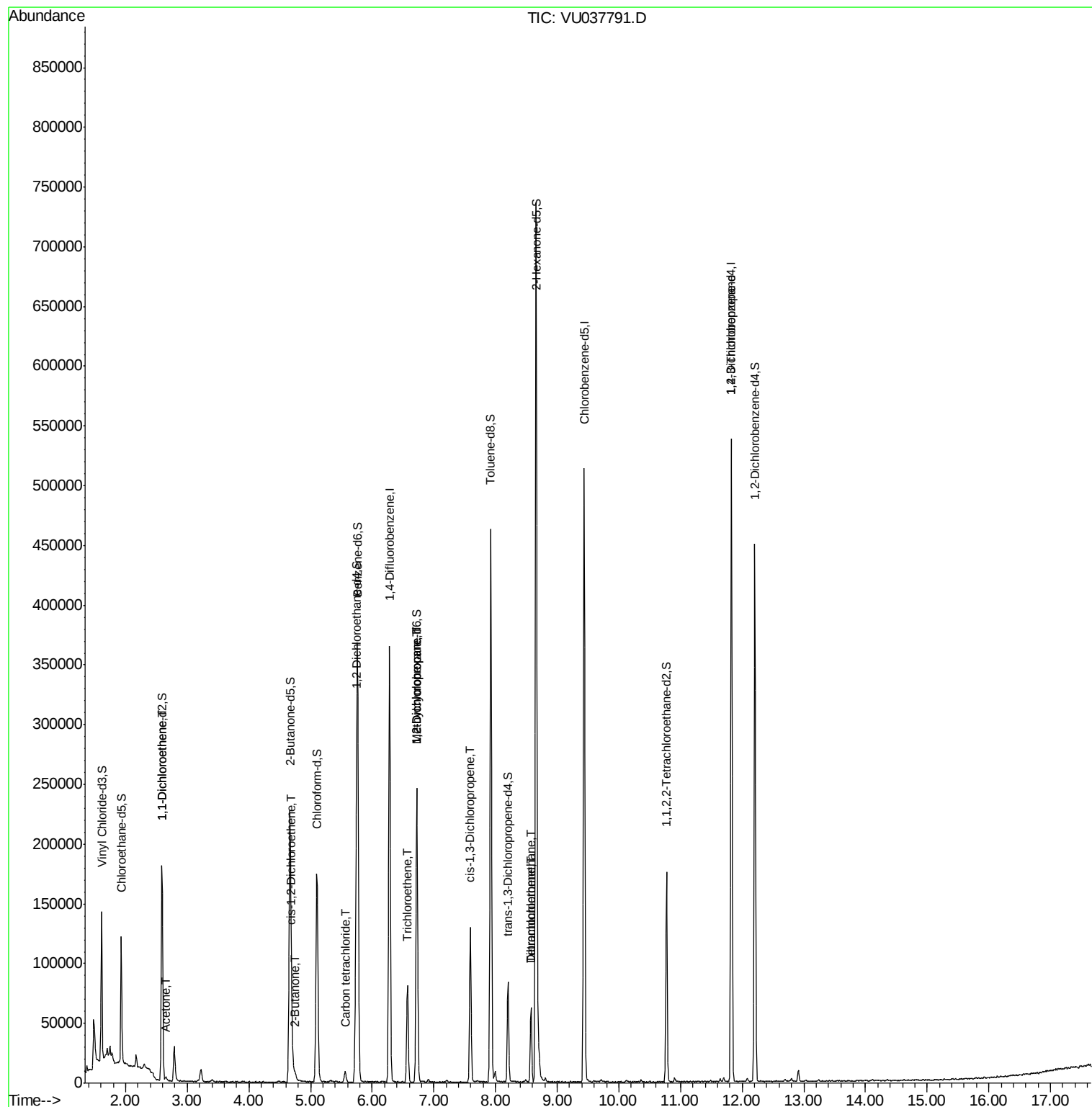
| Target Compounds            | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-----------------------------|-------|------|----------|-------|--------|--------|
| 12) 1,1-Dichloroethene      | 2.60  | 96   | 3485     | 0.182 | ug/L # | 1      |
| 13) Acetone                 | 2.66  | 43   | 4221     | 1.110 | ug/L   | 85     |
| 21) 2-Butanone              | 4.75  | 43   | 8983     | 1.300 | ug/L   | 95     |
| 22) cis-1,2-Dichloroethene  | 4.70  | 96   | 6184     | 0.276 | ug/L   | 87     |
| 31) Carbon tetrachloride    | 5.56  | 117  | 5797     | 0.226 | ug/L   | 93     |
| 34) Trichloroethene         | 6.57  | 95   | 26777    | 1.242 | ug/L   | 95     |
| 35) Methylcyclohexane       | 6.72  | 83   | 23948    | 0.634 | ug/L # | 17     |
| 37) 1,2-Dichloropropane     | 6.72  | 63   | 12372    | 0.532 | ug/L # | 87     |
| 39) cis-1,3-Dichloropropene | 7.59  | 75   | 3279     | 0.090 | ug/L # | 50     |
| 47) Tetrachloroethene       | 8.57  | 164  | 13580    | 0.877 | ug/L   | 90     |
| 49) Dibromochloromethane    | 8.57  | 129  | 12540    | 0.700 | ug/L # | 11     |
| 59) 1,2,3-Trichloropropane  | 11.83 | 75   | 18211    | 1.196 | ug/L   | 91     |

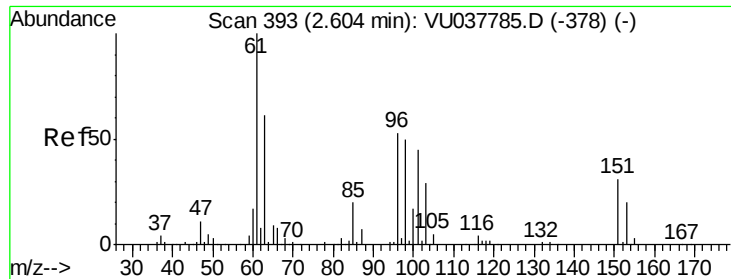
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU041720\  
Data File : VU037791.D  
Acq On : 17 Apr 2020 23:26  
Operator : JC/MD  
Sample : L2319-03  
Misc : 25mL/MSVOA U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Apr 18 05:22:57 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR041420WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Apr 18 05:19:30 2020  
Response via : Initial Calibration

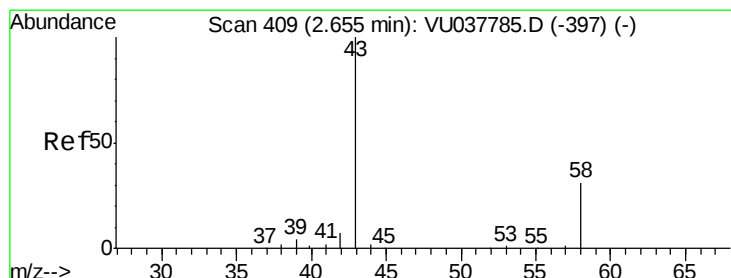
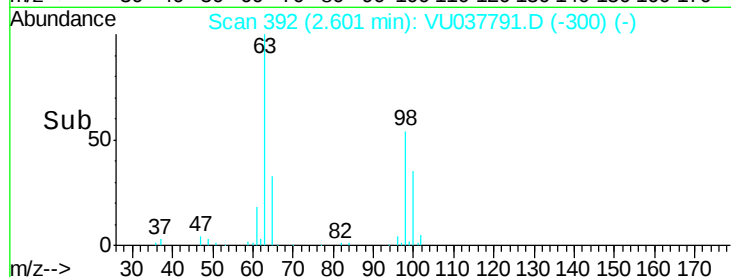
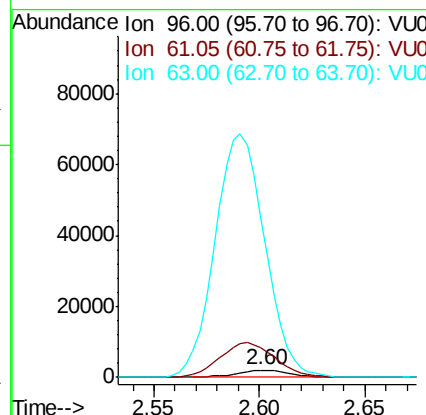
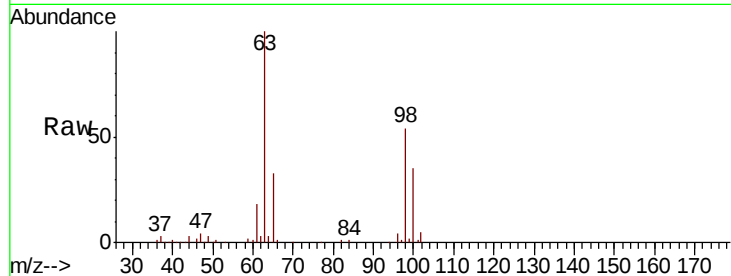




#12  
 1,1-Dichloroethene  
 Concen: 0.182 ug/L  
 RT: 2.60 min Scan# 392  
 Delta R.T. -0.00 min  
 Lab File: VU037791.D  
 Acq: 17 Apr 2020 23:26

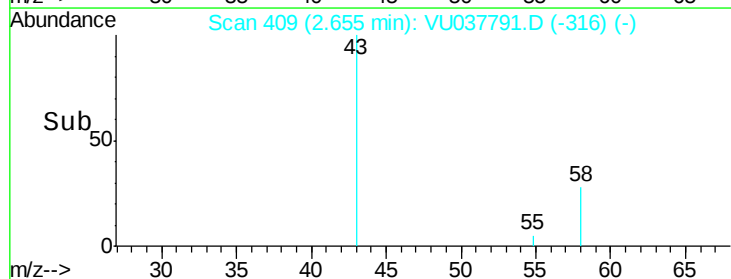
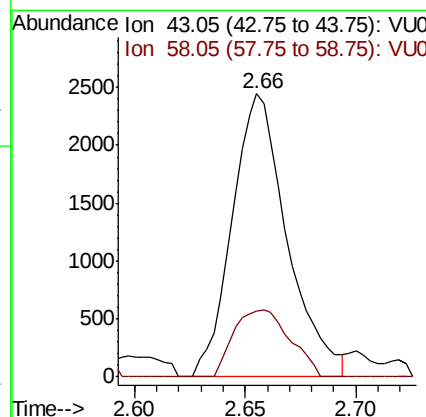
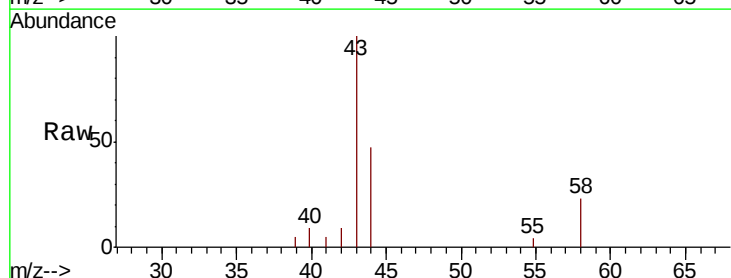
Instrument :  
 MSVOA\_U  
 ClientSampleId :

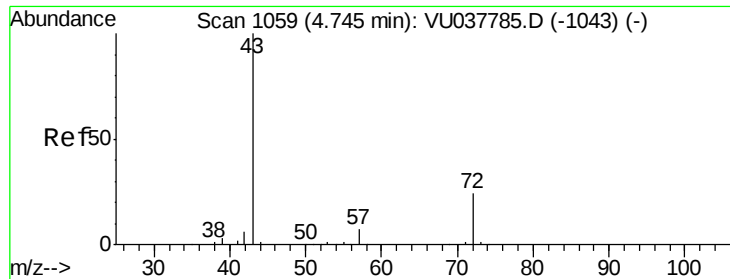
Tot Ion: 96 Resp: 3485  
 Ion Ratio Lower Upper  
 96 100  
 61 420.6 127.7 237.3#  
 63 2316.0 85.0 157.8#



#13  
 Acetone  
 Concen: 1.110 ug/L  
 RT: 2.66 min Scan# 409  
 Delta R.T. 0.00 min  
 Lab File: VU037791.D  
 Acq: 17 Apr 2020 23:26

Tgt Ion: 43 Resp: 4221  
 Ion Ratio Lower Upper  
 43 100  
 58 24.2 0.0 64.8





#21

2-Butanone

Concen: 1.300 ug/L

RT: 4.75 min Scan# 1060

Delta R.T. 0.00 min

Lab File: VU037791.D

Acq: 17 Apr 2020 23:26

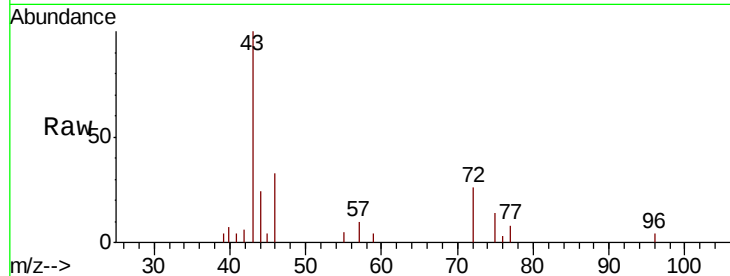
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 8983

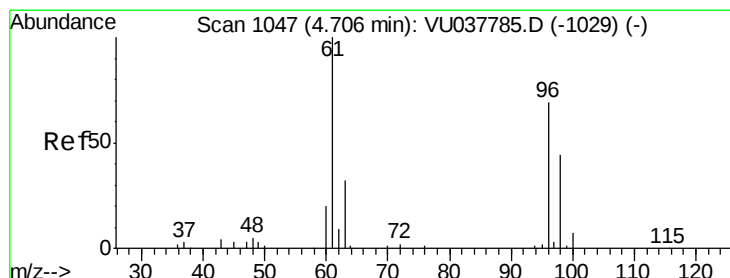
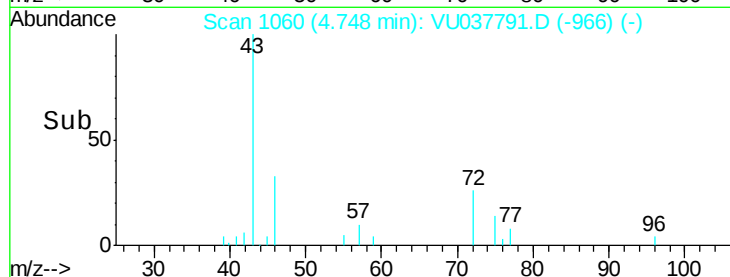
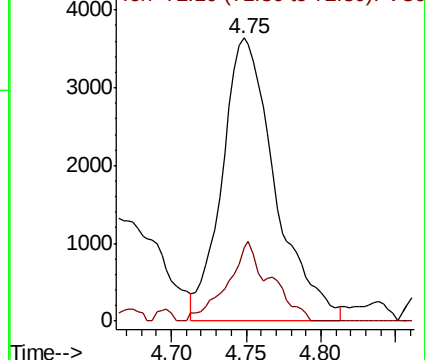
Ion Ratio Lower Upper

43 100

72 22.8 12.6 37.6



Abundance Ion 43.05 (42.75 to 43.75): VU037791.D (-966) (-)



#22

cis-1,2-Dichloroethene

Concen: 0.276 ug/L

RT: 4.70 min Scan# 1045

Delta R.T. -0.01 min

Lab File: VU037791.D

Acq: 17 Apr 2020 23:26

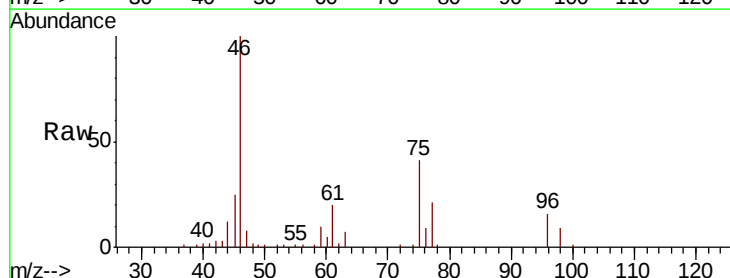
Tgt Ion: 96 Resp: 6184

Ion Ratio Lower Upper

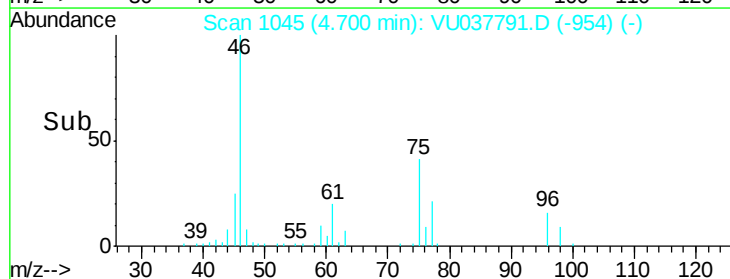
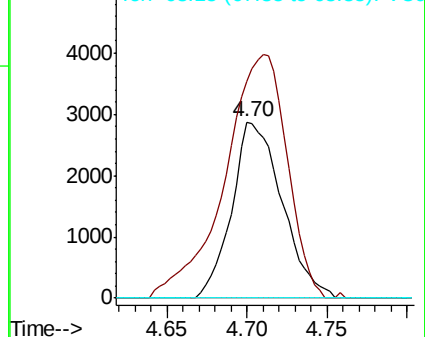
96 100

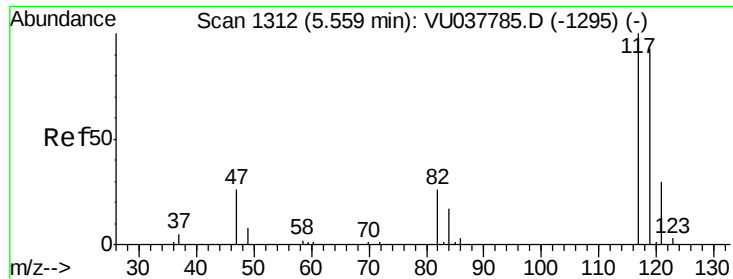
61 123.1 97.0 180.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037791.D (-954) (-)



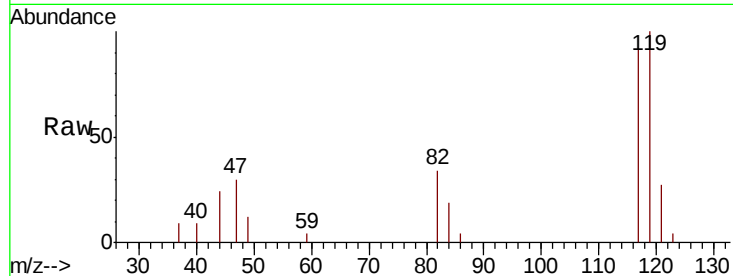


#31

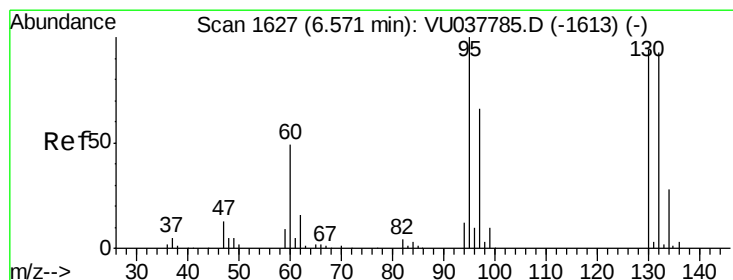
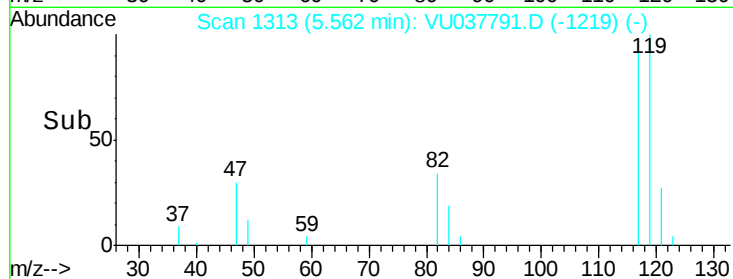
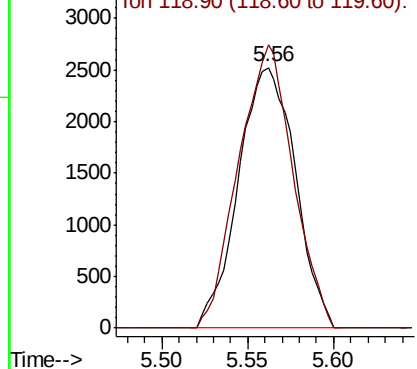
Carbon tetrachloride  
Concen: 0.226 ug/L  
RT: 5.56 min Scan# 1313  
Delta R.T. 0.00 min  
Lab File: VU037791.D  
Acq: 17 Apr 2020 23:26

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:117 Resp: 5797  
Ion Ratio Lower Upper  
117 100  
119 104.0 77.4 116.0



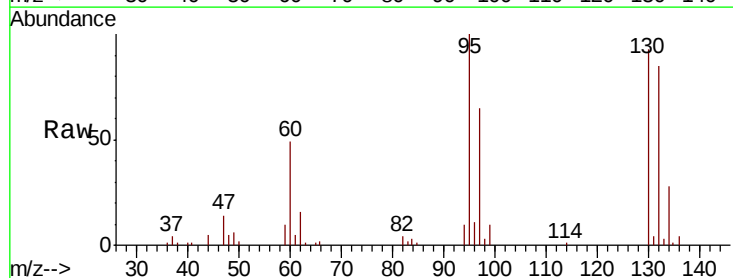
Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 118.90 (118.60 to 119.60): V



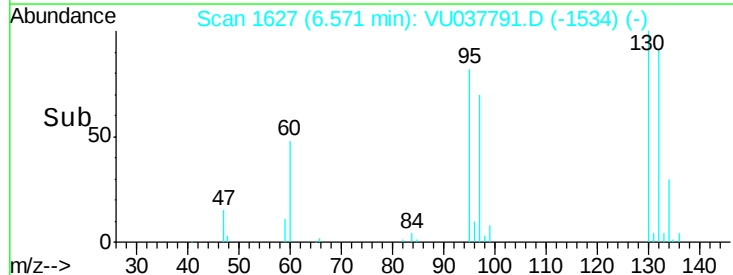
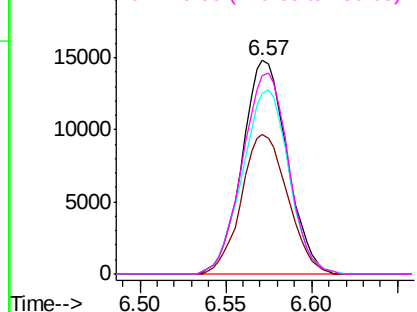
#34

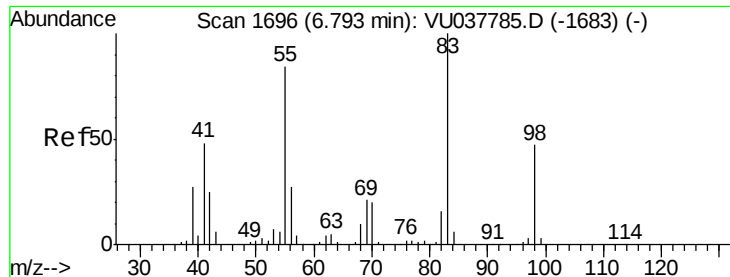
Trichloroethene  
Concen: 1.242 ug/L  
RT: 6.57 min Scan# 1627  
Delta R.T. 0.00 min  
Lab File: VU037791.D  
Acq: 17 Apr 2020 23:26

Tgt Ion: 95 Resp: 26777  
Ion Ratio Lower Upper  
95 100  
97 65.1 45.4 84.2  
132 84.5 63.7 118.3  
130 93.1 68.7 127.5



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





#35

Methvlcvclohexane

Concen: 0.634 ug/L

RT: 6.72 min Scan# 1674

Delta R.T. -0.07 min

Lab File: VU037791.D

Acq: 17 Apr 2020 23:26

Instrument :  
MSVOA\_U  
ClientSampleId :

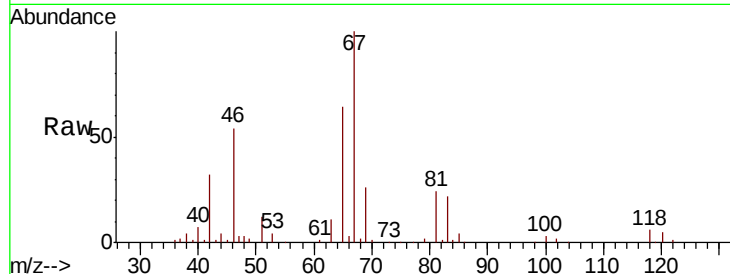
Tot Ion: 83 Resp: 23948

Ion Ratio Lower Upper

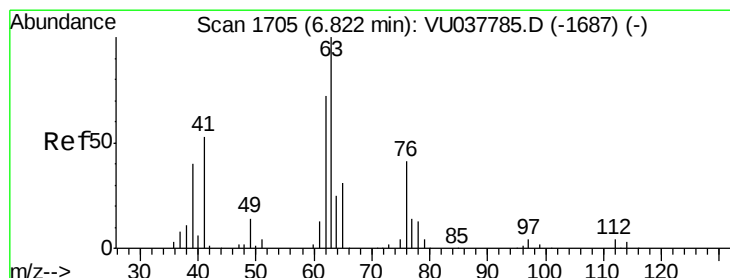
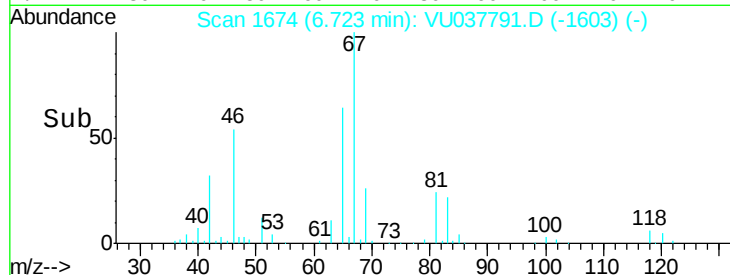
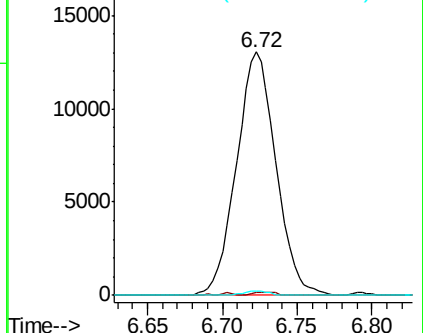
83 100

55 0.7 65.5 98.3#

98 1.1 38.2 57.4#



Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0



#37

1,2-Dichloropropane

Concen: 0.532 ug/L

RT: 6.72 min Scan# 1674

Delta R.T. -0.10 min

Lab File: VU037791.D

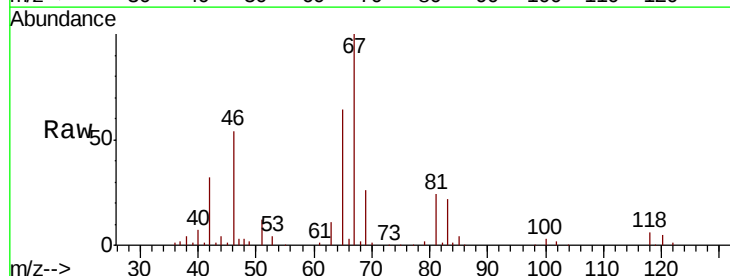
Acq: 17 Apr 2020 23:26

Tgt Ion: 63 Resp: 12372

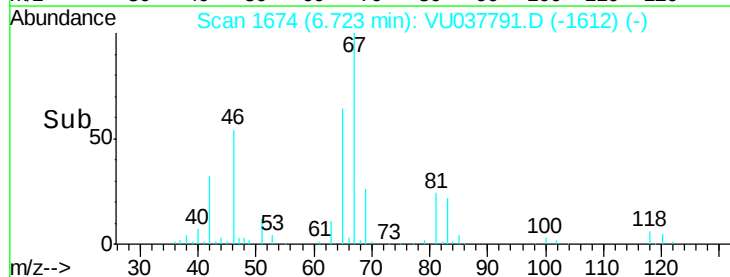
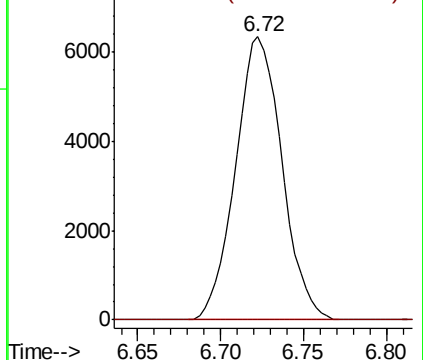
Ion Ratio Lower Upper

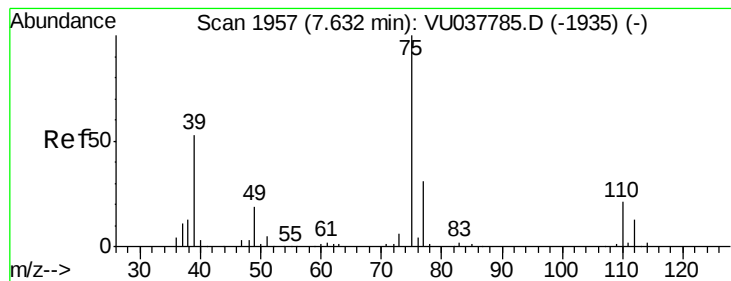
63 100

112 0.0 3.4 5.0#



Abundance Ion 63.10 (62.80 to 63.80): VU0  
Ion 112.10 (111.80 to 112.80): V



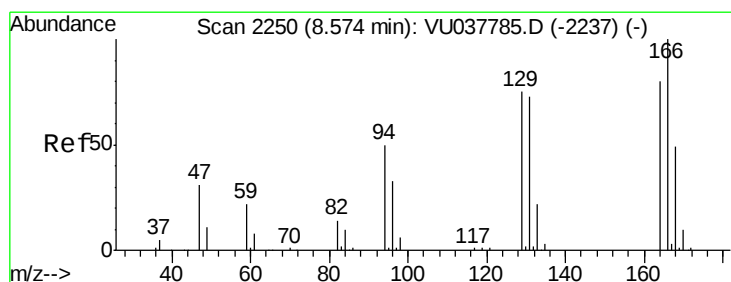
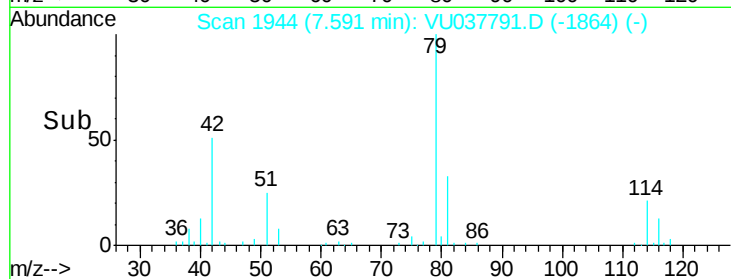
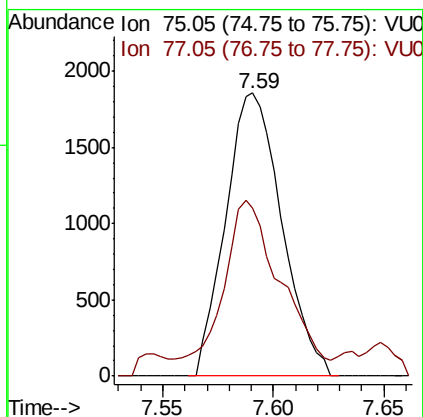
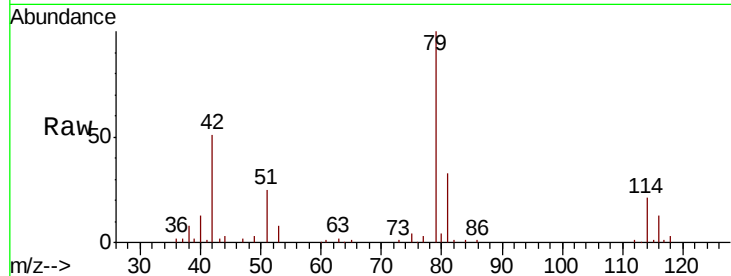


#39

cis-1,3-Dichloropropene  
Concen: 0.090 ug/L  
RT: 7.59 min Scan# 1944  
Delta R.T. -0.04 min  
Lab File: VU037791.D  
Acq: 17 Apr 2020 23:26

Instrument :  
MSVOA\_U  
ClientSampleId :

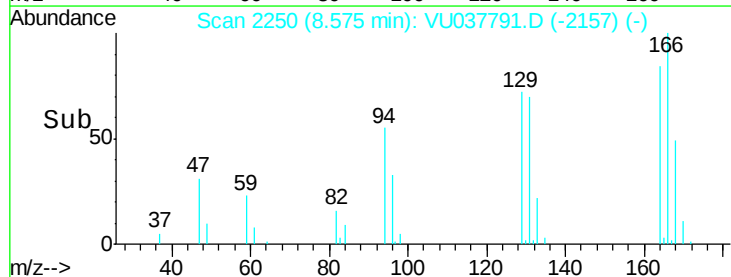
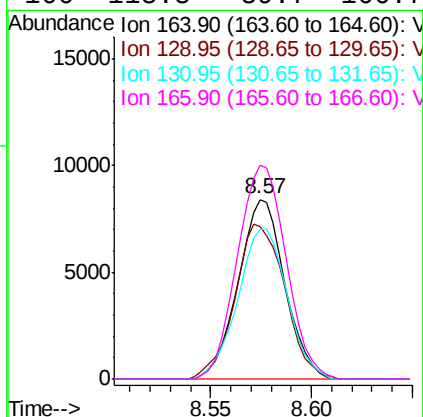
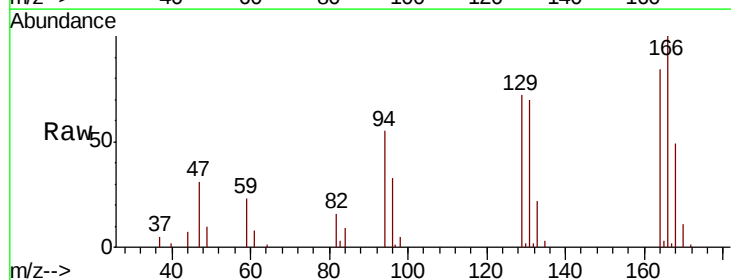
Tot Ion: 75 Resp: 3279  
Ion Ratio Lower Upper  
75 100  
77 59.4 22.2 41.2#

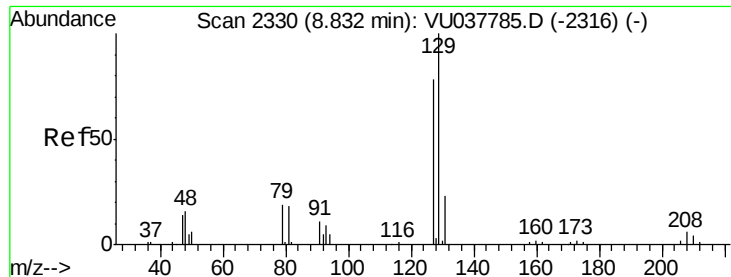


#47

Tetrachloroethene  
Concen: 0.877 ug/L  
RT: 8.57 min Scan# 2250  
Delta R.T. 0.00 min  
Lab File: VU037791.D  
Acq: 17 Apr 2020 23:26

Tgt Ion: 164 Resp: 13580  
Ion Ratio Lower Upper  
164 100  
129 85.0 68.1 126.5  
131 83.6 65.9 122.5  
166 118.8 89.7 166.7

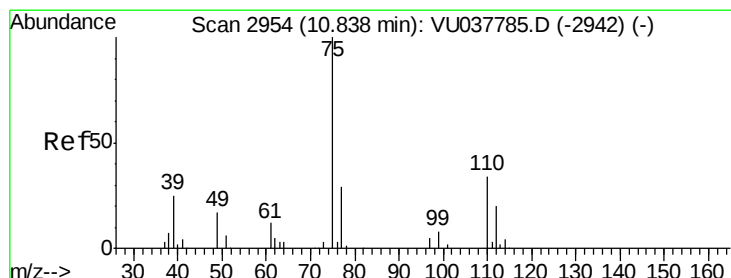
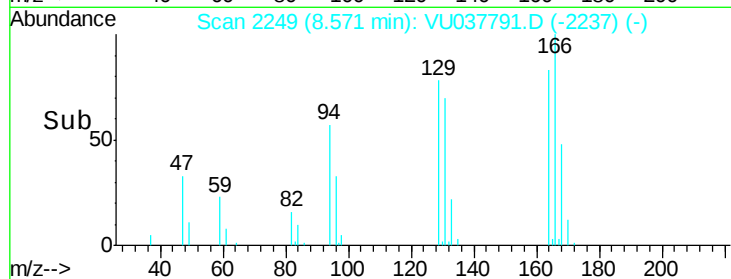
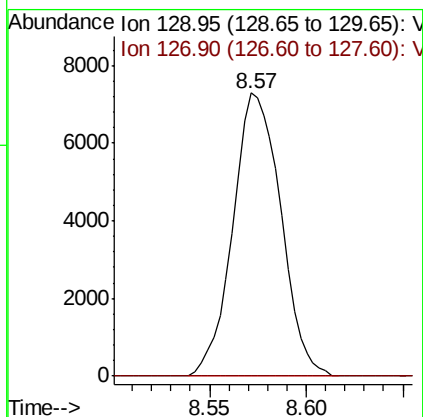
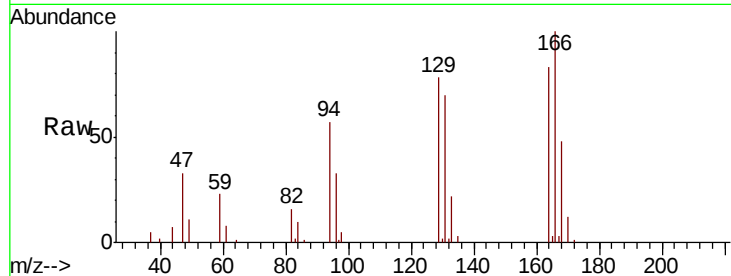




#49  
 Dibromochloromethane  
 Concen: 0.700 ug/L  
 RT: 8.57 min Scan# 2249  
 Delta R.T. -0.26 min  
 Lab File: VU037791.D  
 Acq: 17 Apr 2020 23:26

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion:129 Resp: 12540  
 Ion Ratio Lower Upper  
 129 100  
 127 0.0 53.3 98.9#



#59  
 1,2,3-Trichloropropane  
 Concen: 1.196 ug/L  
 RT: 11.83 min Scan# 3261  
 Delta R.T. 0.99 min  
 Lab File: VU037791.D  
 Acq: 17 Apr 2020 23:26

Tgt Ion: 75 Resp: 18211  
 Ion Ratio Lower Upper  
 75 100  
 77 36.8 25.4 38.2

