

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100220\  
 Data File : VU040460.D  
 Acq On : 02 Oct 2020 14:56  
 Operator : SY/MD  
 Sample : L4209-05RE  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Oct 03 00:17:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR092920WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Oct 03 00:09:31 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 117796   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 119922   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 54279    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 0.00   | 65    | 0        | 0.00     | ug/L |         |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 0.00%#  |
| 7) Chloroethane-d5             | 1.92   | 69    | 25655    | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 100.40% |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 24887    | 1.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 35.40%# |
| 20) 2-Butanone-d5              | 4.66   | 46    | 126483   | 43.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 87.32%  |
| 24) Chloroform-d               | 5.08   | 84    | 66454    | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 41908    | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.20%  |
| 32) Benzene-d6                 | 5.75   | 84    | 126197   | 5.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 104.80% |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 43593    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 98.80%  |
| 41) Toluene-d8                 | 7.91   | 98    | 19675    | 0.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 18.80%# |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 7049     | 1.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 39.20%# |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 84952    | 40.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 80.26%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 37198    | 4.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 86.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 44175    | 5.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 107.40% |

## Target Compounds

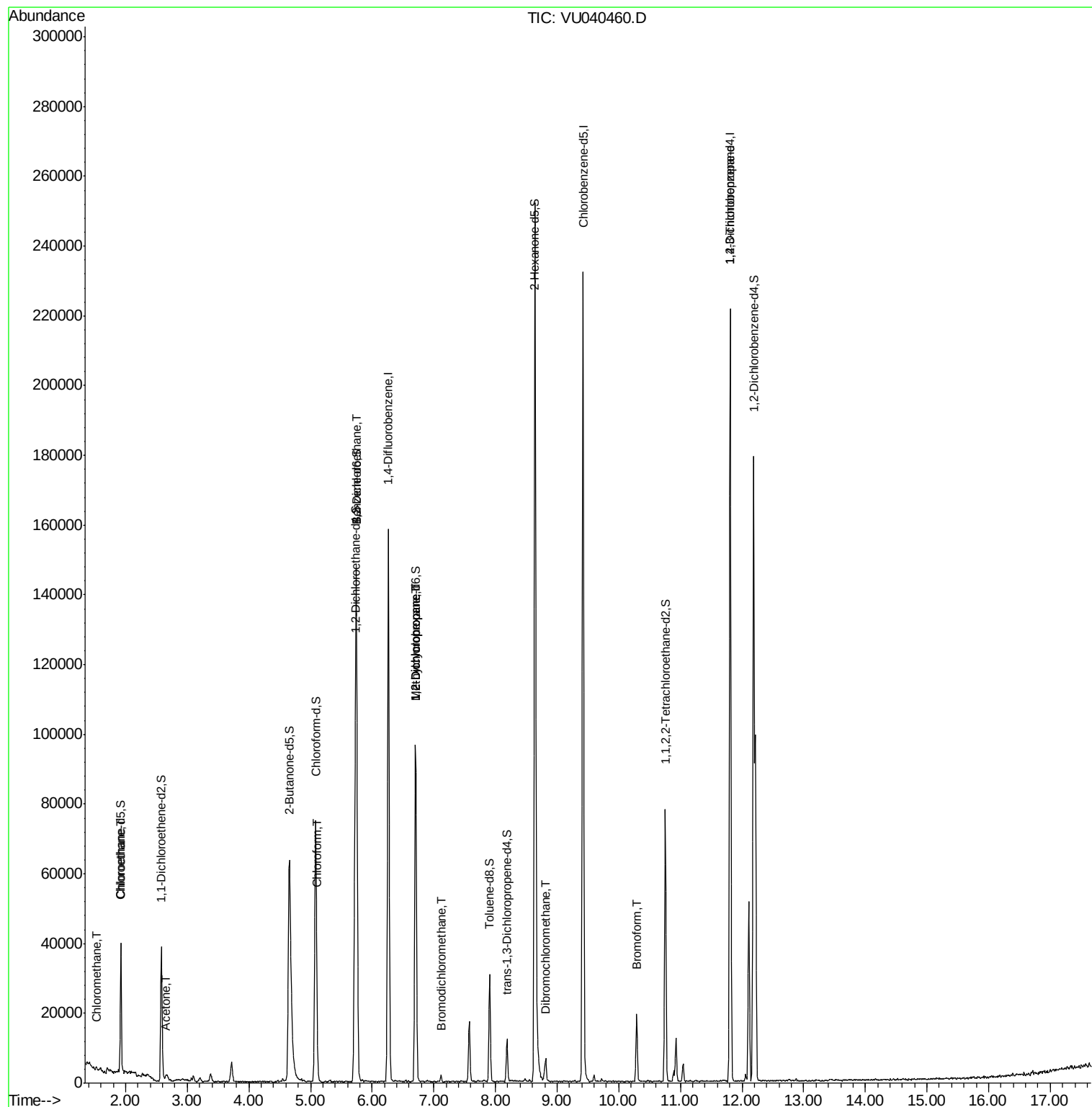
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 3) Chloromethane           | 1.53  | 50   | 923      | 0.080 | ug/L   | 96     |
| 8) Chloroethane            | 1.93  | 64   | 644      | 0.095 | ug/L # | 44     |
| 13) Acetone                | 2.66  | 43   | 1755     | 0.727 | ug/L   | 77     |
| 25) Chloroform             | 5.11  | 83   | 2815     | 0.145 | ug/L   | 94     |
| 27) 1,2-Dichloroethane     | 5.74  | 62   | 858      | 0.064 | ug/L # | 74     |
| 35) Methylcyclohexane      | 6.70  | 83   | 10216    | 0.653 | ug/L # | 14     |
| 37) 1,2-Dichloropropane    | 6.70  | 63   | 5198     | 0.464 | ug/L # | 88     |
| 38) Bromodichloromethane   | 7.12  | 83   | 1233     | 0.089 | ug/L # | 69     |
| 49) Dibromochloromethane   | 8.82  | 129  | 3321     | 0.364 | ug/L   | 99     |
| 59) 1,2,3-Trichloropropane | 11.81 | 75   | 7980     | 0.983 | ug/L   | 90     |
| 61) Bromoform              | 10.29 | 173  | 8340     | 1.859 | ug/L   | 92     |

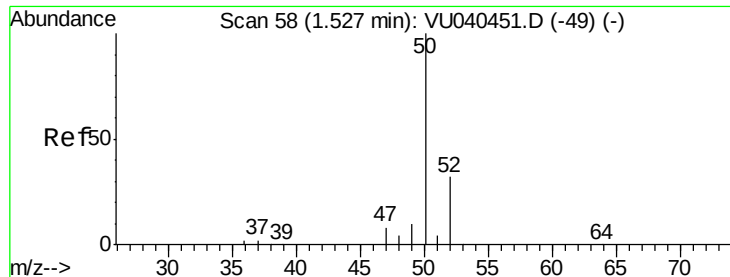
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Oct 03 00:17:55 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR092920WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Oct 03 00:09:31 2020  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.080 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040460.D

Acq: 02 Oct 2020 14:56

Instrument :

MSVOA\_U

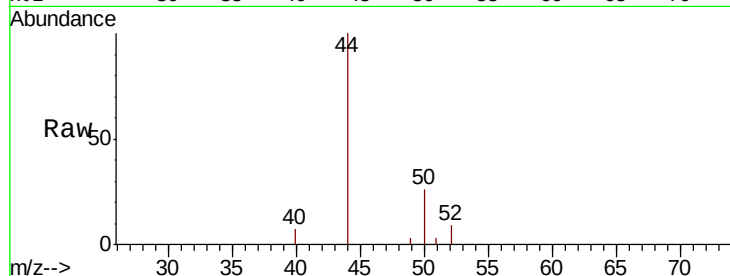
ClientSampleId :

Tot Ion: 50 Resp: 923

Ion Ratio Lower Upper

50 100

52 34.9 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

1.53

800

600

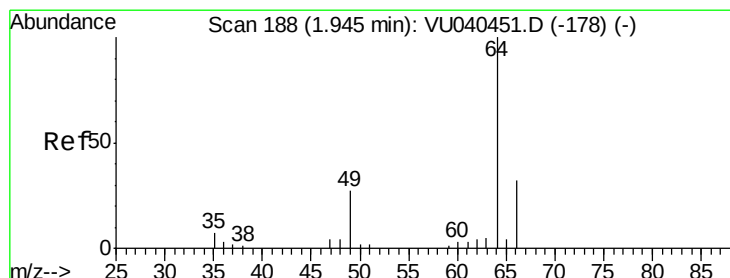
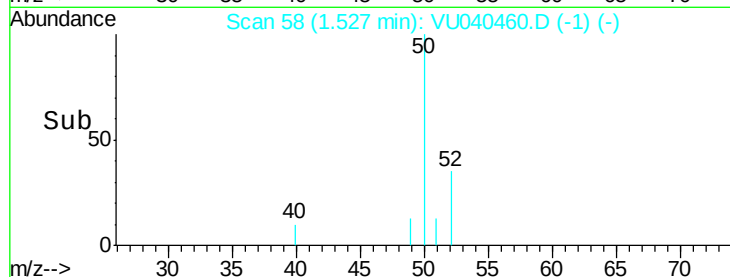
400

200

0

1.50 1.52 1.54 1.56

Time-->



#8

Chloroethane

Concen: 0.095 ug/L

RT: 1.93 min Scan# 185

Delta R.T. -0.01 min

Lab File: VU040460.D

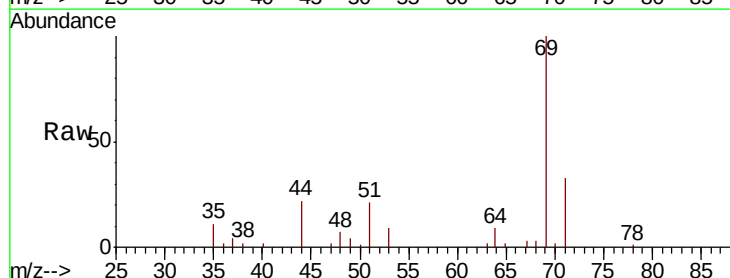
Acq: 02 Oct 2020 14:56

Tgt Ion: 64 Resp: 644

Ion Ratio Lower Upper

64 100

66 0.0 21.3 39.6#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0

1.93

800

600

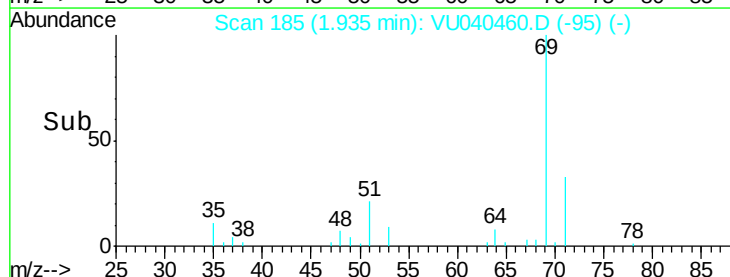
400

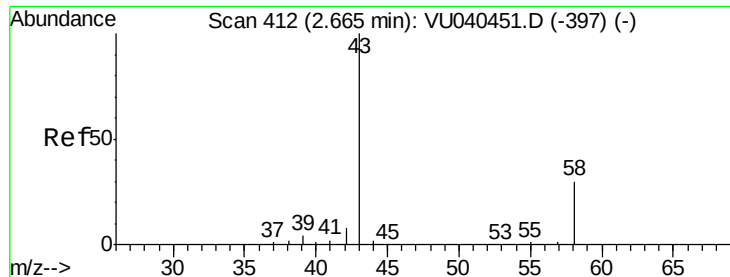
200

0

1.92 1.94 1.96

Time-->





#13

Acetone

Concen: 0.727 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.00 min

Lab File: VU040460.D

Acq: 02 Oct 2020 14:56

Instrument :

MSVOA\_U

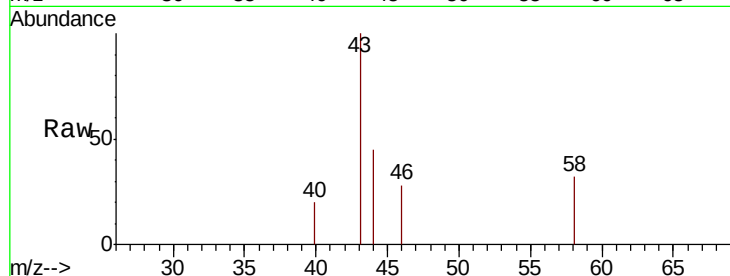
ClientSampled :

Tot Ion: 43 Resp: 1755

Ion Ratio Lower Upper

43 100

58 43.5 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU040460.D (-319) (-)

Ion 58.05 (57.75 to 58.75): VU040460.D (-319) (-)

2.66

1200

1000

800

600

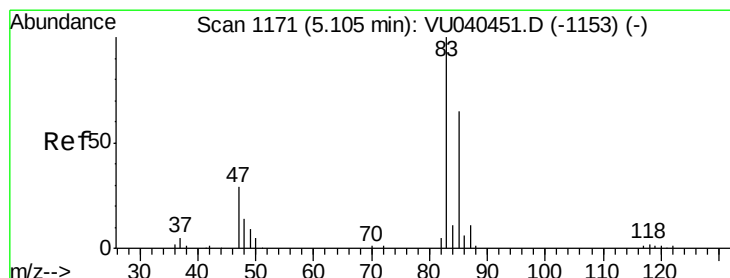
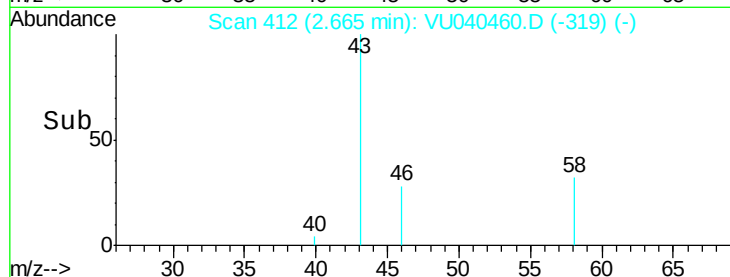
400

200

0

Time-->

2.60 2.62 2.64 2.66 2.68



#25

Chloroform

Concen: 0.145 ug/L

RT: 5.11 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VU040460.D

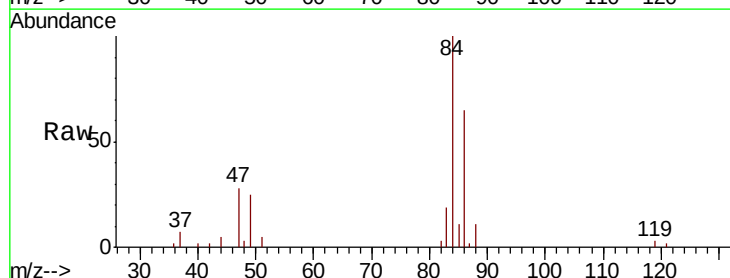
Acq: 02 Oct 2020 14:56

Tgt Ion: 83 Resp: 2815

Ion Ratio Lower Upper

83 100

85 59.2 44.6 82.8



Abundance Ion 83.05 (82.75 to 83.75): VU040460.D (-1078) (-)

Ion 85.00 (84.70 to 85.70): VU040460.D (-1078) (-)

5.11

1500

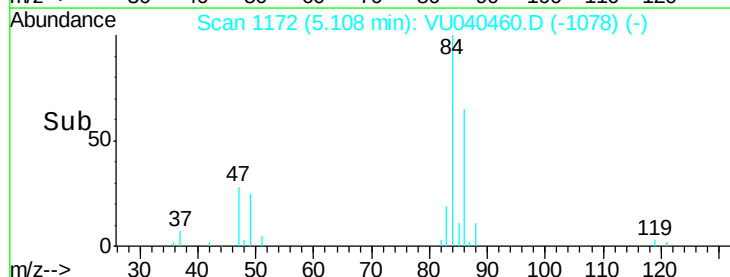
1000

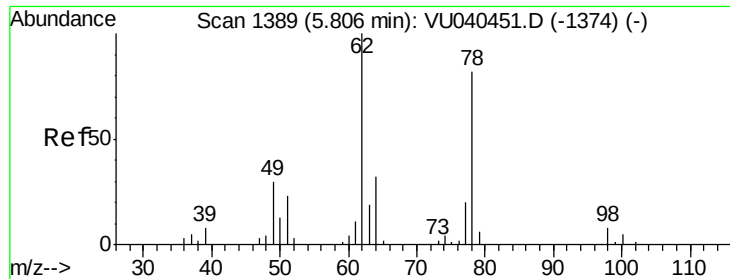
500

0

Time-->

5.05 5.10 5.15

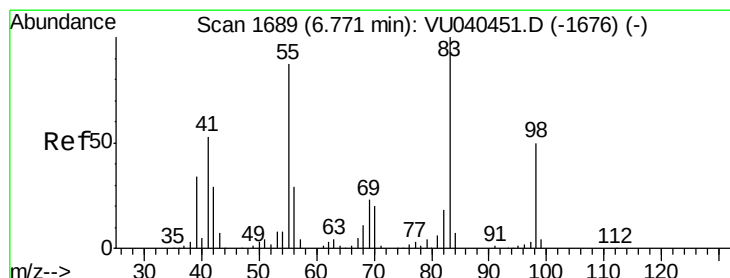
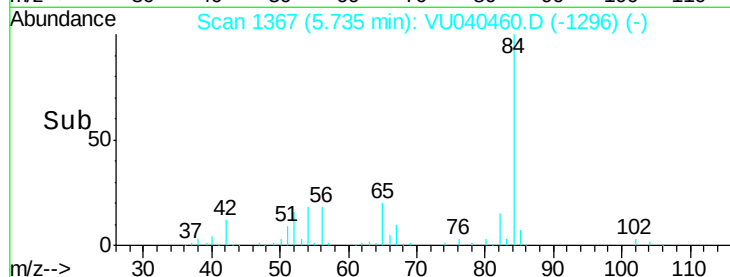
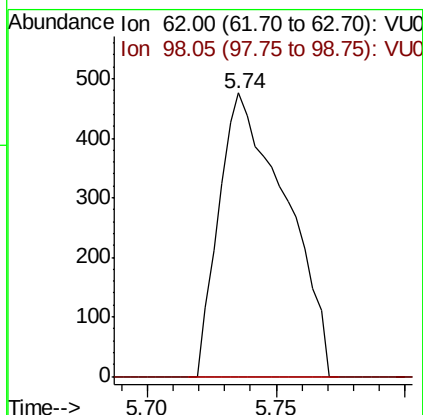
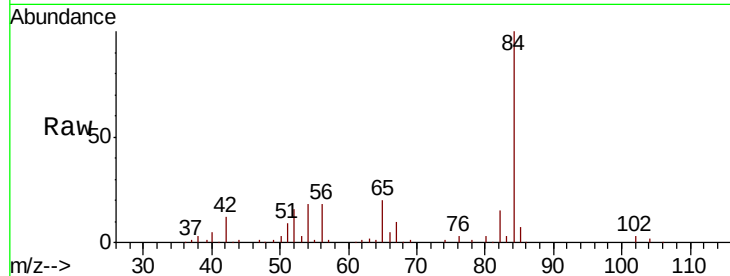




#27  
 1,2-Dichloroethane  
 Concen: 0.064 ug/L  
 RT: 5.74 min Scan# 1367  
 Delta R.T. -0.07 min  
 Lab File: VU040460.D  
 Acq: 02 Oct 2020 14:56

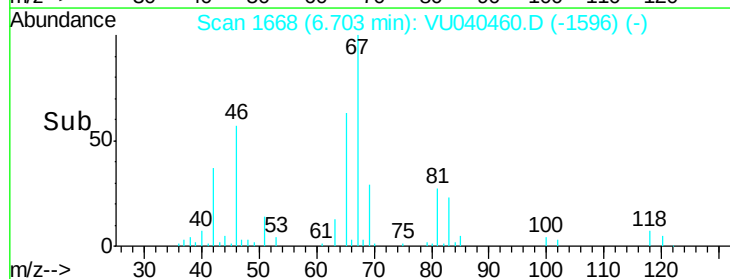
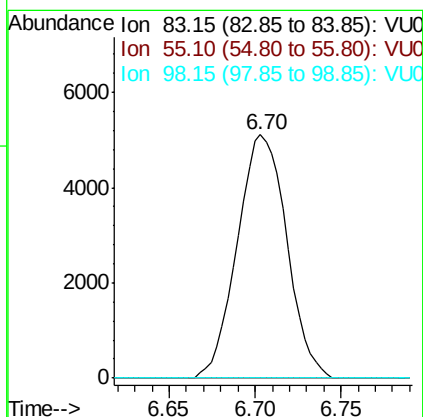
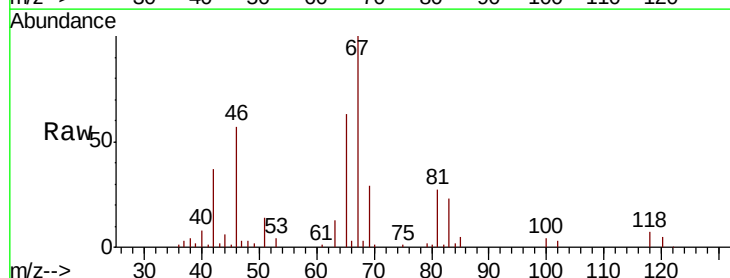
Instrument :  
 MSVOA\_U  
 ClientSampled :

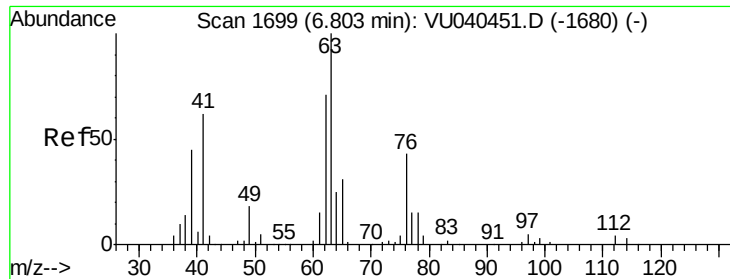
Tot Ion: 62 Resp: 858  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 7.5 11.3#



#35  
 Methylcyclohexane  
 Concen: 0.653 ug/L  
 RT: 6.70 min Scan# 1668  
 Delta R.T. -0.07 min  
 Lab File: VU040460.D  
 Acq: 02 Oct 2020 14:56

Tgt Ion: 83 Resp: 10216  
 Ion Ratio Lower Upper  
 83 100  
 55 0.0 71.4 107.2#  
 98 0.6 38.5 57.7#

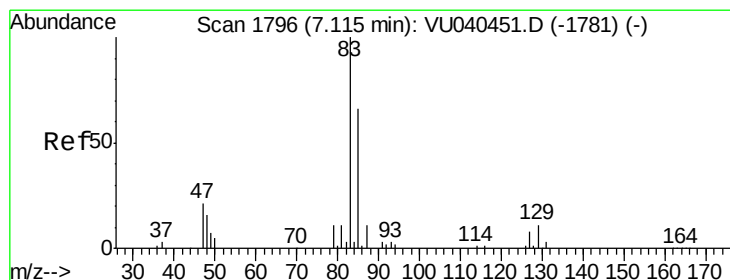
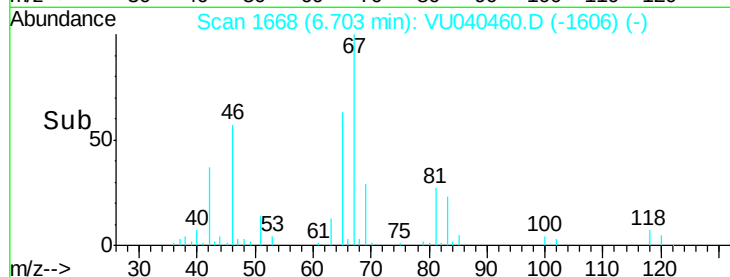
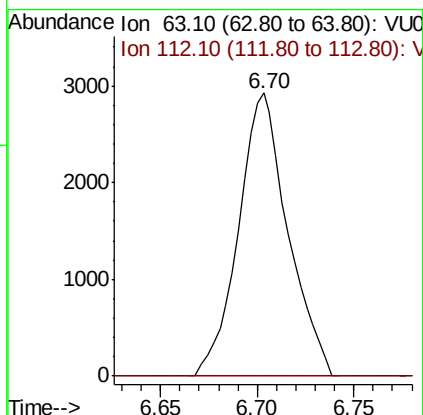
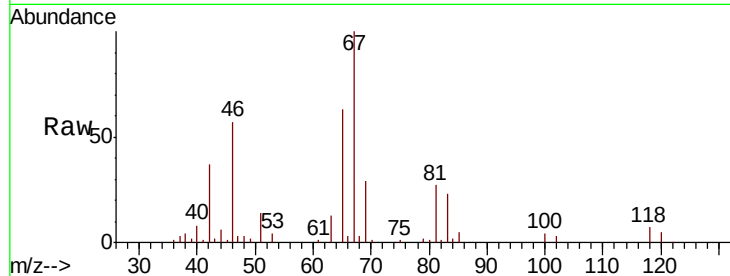




#37  
 1,2-Dichloropropane  
 Concen: 0.464 ug/L  
 RT: 6.70 min Scan# 1668  
 Delta R.T. -0.10 min  
 Lab File: VU040460.D  
 Acq: 02 Oct 2020 14:56

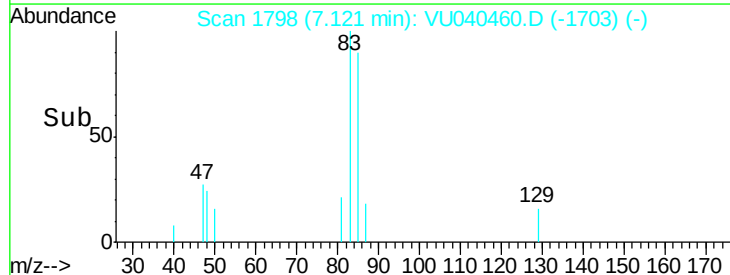
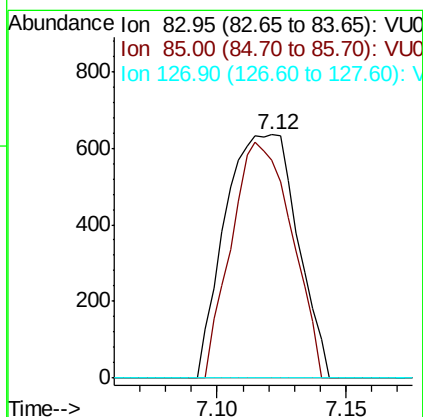
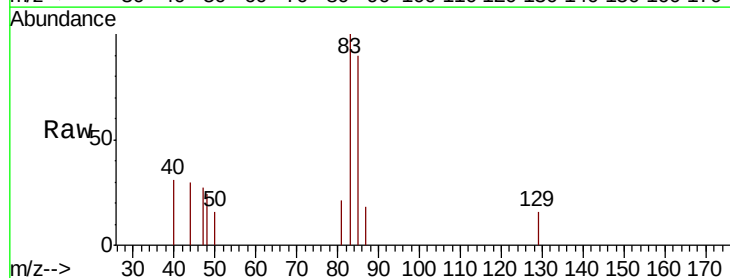
Instrument :  
 MSVOA\_U  
 ClientSampleId :

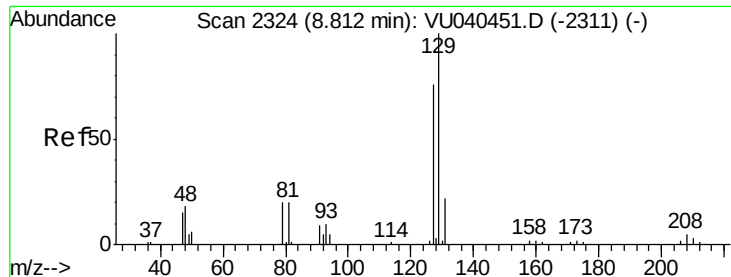
Tot Ion: 63 Resp: 5198  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.2 4.8#



#38  
 Bromodichloromethane  
 Concen: 0.089 ug/L  
 RT: 7.12 min Scan# 1798  
 Delta R.T. 0.01 min  
 Lab File: VU040460.D  
 Acq: 02 Oct 2020 14:56

Tgt Ion: 83 Resp: 1233  
 Ion Ratio Lower Upper  
 83 100  
 85 89.8 45.1 83.9#  
 127 0.0 6.6 9.8#





#49

Dibromochloromethane

Concen: 0.364 ug/L

RT: 8.82 min Scan# 2325

Delta R.T. 0.00 min

Lab File: VU040460.D

Acq: 02 Oct 2020 14:56

Instrument :

MSVOA\_U

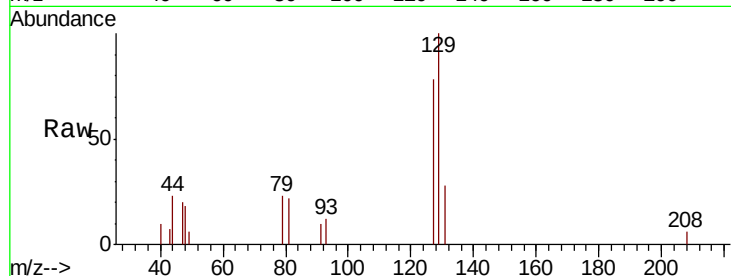
ClientSampleId :

Tot Ion:129 Resp: 3321

Ion Ratio Lower Upper

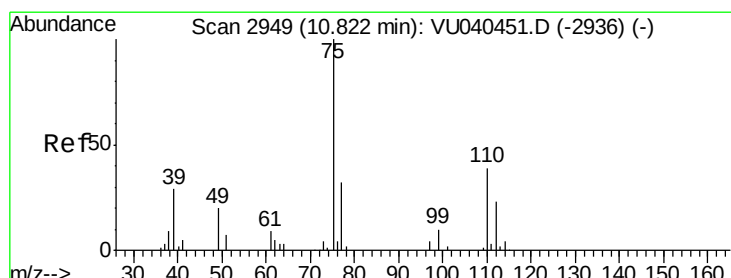
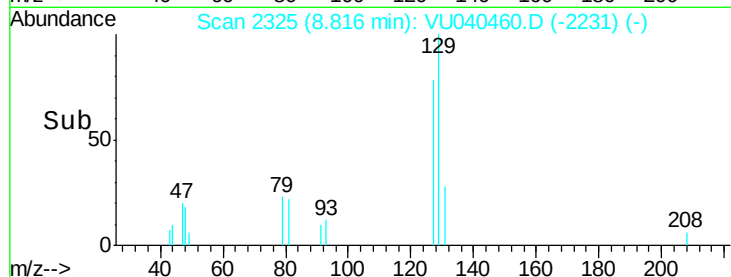
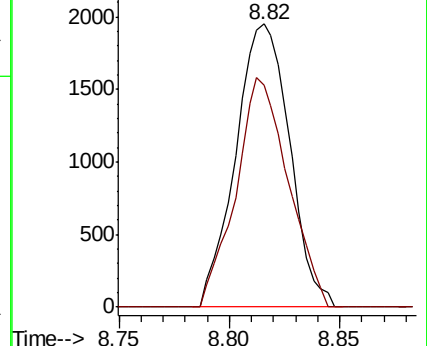
129 100

127 78.3 55.4 103.0



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#59

1,2,3-Trichloropropane

Concen: 0.983 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040460.D

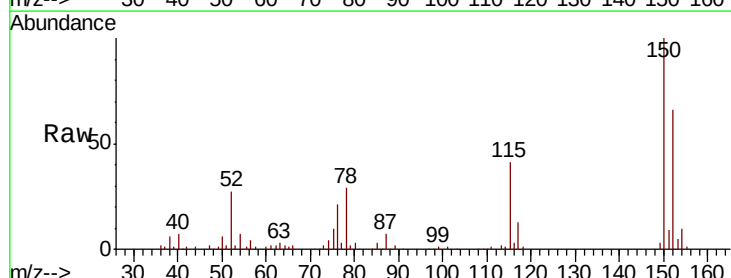
Acq: 02 Oct 2020 14:56

Tgt Ion: 75 Resp: 7980

Ion Ratio Lower Upper

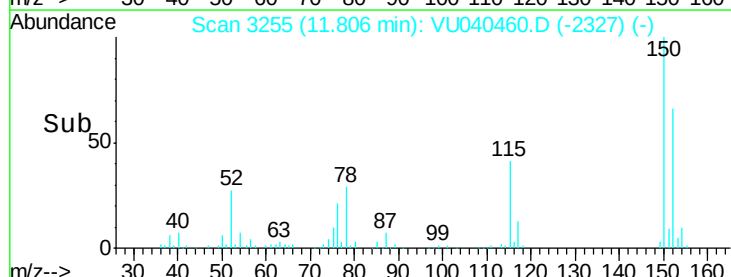
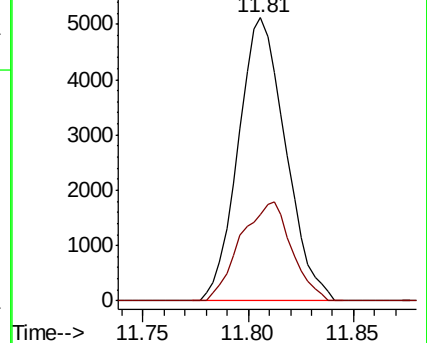
75 100

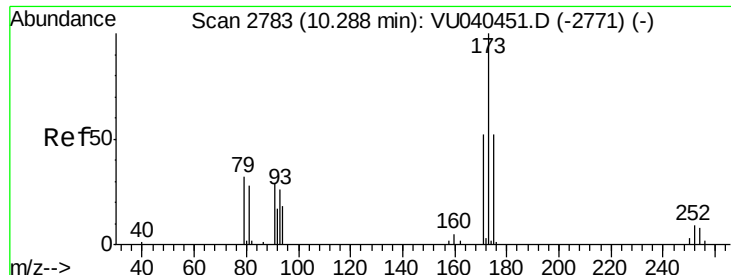
77 37.6 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

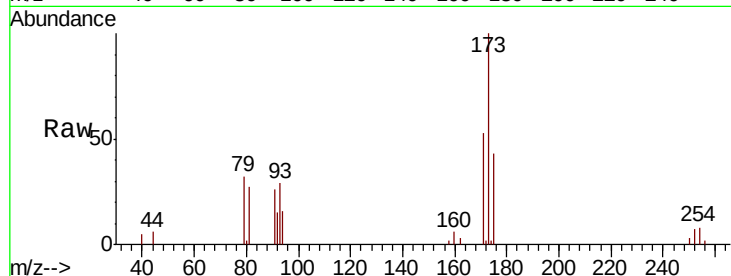




#61  
 Bromoform  
 Concen: 1.859 ug/L  
 RT: 10.29 min Scan# 2784  
 Delta R.T. 0.00 min  
 Lab File: VU040460.D  
 Acq: 02 Oct 2020 14:56

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion:173 Resp: 8340  
 Ion Ratio Lower Upper  
 173 100  
 175 43.4 39.6 59.4  
 254 7.1 7.0 10.4



Abundance Ion 172.90 (172.60 to 173.60): V  
 Ion 174.90 (174.60 to 175.60): V  
 Ion 253.75 (253.45 to 254.45): V

