

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100220\  
 Data File : VU040459.D  
 Acq On : 02 Oct 2020 14:33  
 Operator : SY/MD  
 Sample : L4209-02RE  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Oct 03 00:17:44 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  | 124597   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 126097   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 57403    | 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    | 38320    | 7.10     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 142.00%# |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 37611    | 2.54     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 50.80%#  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 190407   | 62.14    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 124.28%  |
| 24) Chloroform-d               | 5.08   | 84    | 93617    | 6.38     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 127.60%# |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 59125    | 6.61     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 132.20%# |
| 32) Benzene-d6                 | 5.74   | 84    | 181710   | 7.17     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 143.40%# |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 61481    | 6.63     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 132.60%  |
| 41) Toluene-d8                 | 7.91   | 98    | 45667    | 2.07     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 41.40%#  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 12745    | 3.37     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 67.40%   |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 132514   | 59.53    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 119.06%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 55101    | 6.11     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 122.20%# |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 62606    | 7.19     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 143.80%# |

## Target Compounds

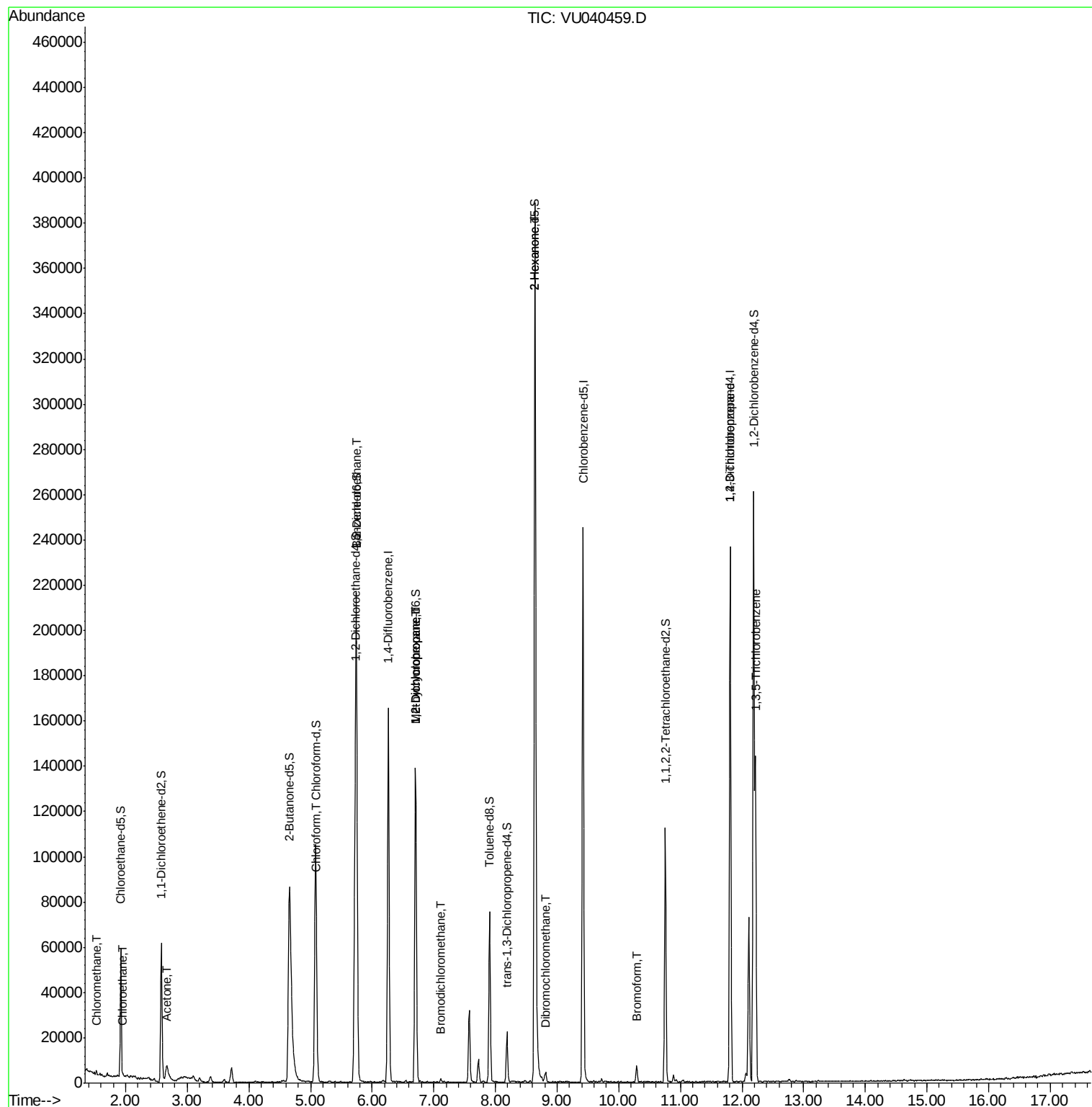
|                            |       |     |       |              | Ovalue |
|----------------------------|-------|-----|-------|--------------|--------|
| 3) Chloromethane           | 1.53  | 50  | 1454  | 0.119 ug/L   | 94     |
| 8) Chloroethane            | 1.95  | 64  | 419   | 0.059 ug/L # | 44     |
| 13) Acetone                | 2.67  | 43  | 17441 | 6.831 ug/L   | 69     |
| 25) Chloroform             | 5.11  | 83  | 4064  | 0.198 ug/L   | 83     |
| 27) 1,2-Dichloroethane     | 5.74  | 62  | 1181  | 0.083 ug/L # | 74     |
| 35) Methylcyclohexane      | 6.70  | 83  | 14286 | 0.868 ug/L # | 13     |
| 37) 1,2-Dichloropropane    | 6.70  | 63  | 6883  | 0.585 ug/L # | 88     |
| 38) Bromodichloromethane   | 7.11  | 83  | 957   | 0.066 ug/L # | 86     |
| 48) 2-Hexanone             | 8.64  | 43  | 19939 | 2.935 ug/L # | 69     |
| 49) Dibromochloromethane   | 8.82  | 129 | 2077  | 0.216 ug/L   | 87     |
| 59) 1,2,3-Trichloropropane | 11.81 | 75  | 8252  | 0.967 ug/L   | 94     |
| 61) Bromoform              | 10.29 | 173 | 3309  | 0.698 ug/L # | 92     |
| 67) 1,3,5-Trichlorobenzene | 12.22 | 180 | 1622  | 0.120 ug/L # | 18     |

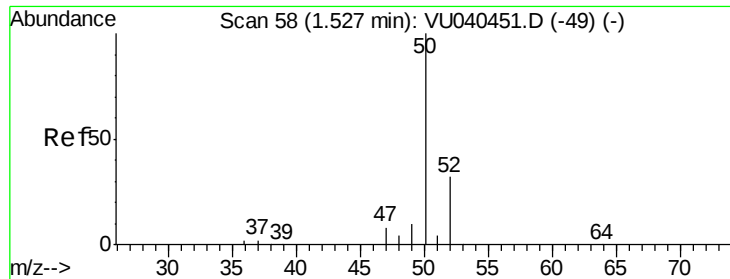
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L4209-02RE  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Oct 03 00:17:44 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: 0.119 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040459.D

Acq: 02 Oct 2020 14:33

Instrument :

MSVOA\_U

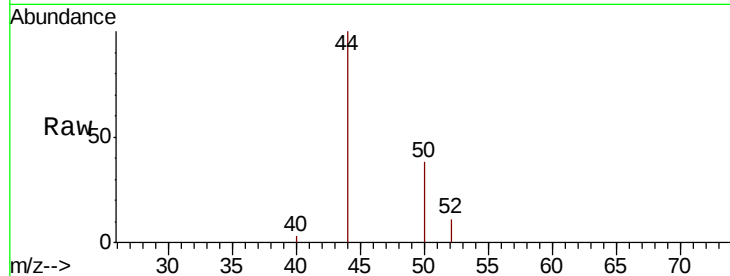
ClientSampleId :

Tot Ion: 50 Resp: 1454

Ion Ratio Lower Upper

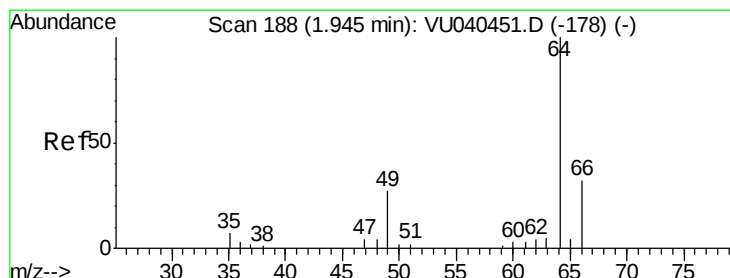
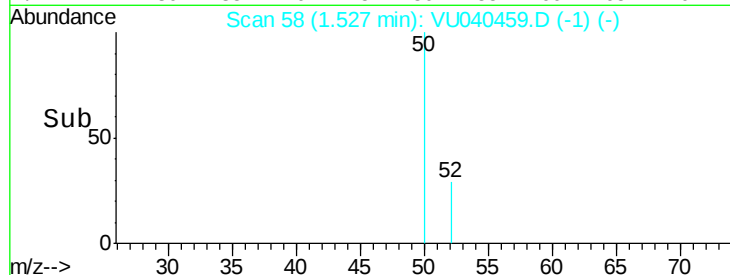
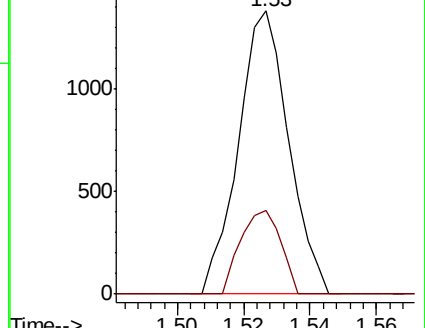
50 100

52 29.5 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU040459.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU040459.D (-1) (-)



#8

Chloroethane

Concen: 0.059 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.01 min

Lab File: VU040459.D

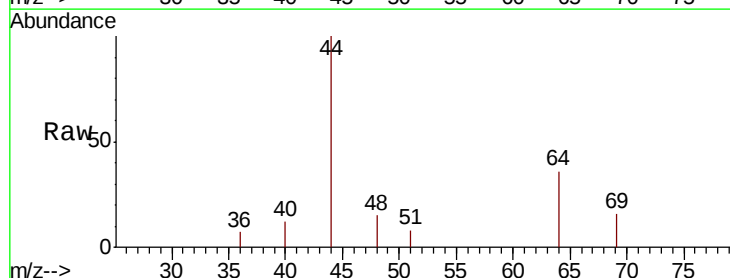
Acq: 02 Oct 2020 14:33

Tgt Ion: 64 Resp: 419

Ion Ratio Lower Upper

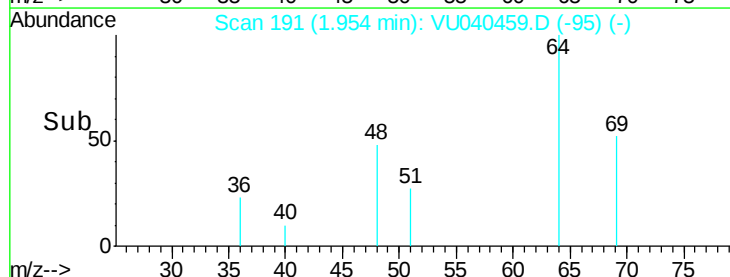
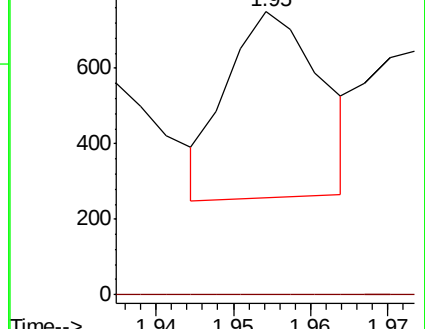
64 100

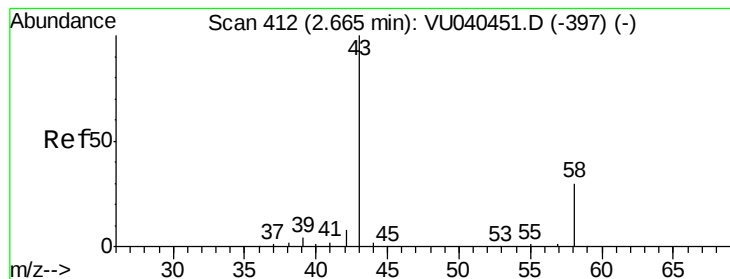
66 0.0 21.3 39.6#



Abundance Ion 64.10 (63.80 to 64.80): VU040459.D (-95) (-)

Ion 66.05 (65.75 to 66.75): VU040459.D (-95) (-)





#13

Acetone

Concen: 6.831 ug/L

RT: 2.67 min Scan# 413

Delta R.T. 0.00 min

Lab File: VU040459.D

Acq: 02 Oct 2020 14:33

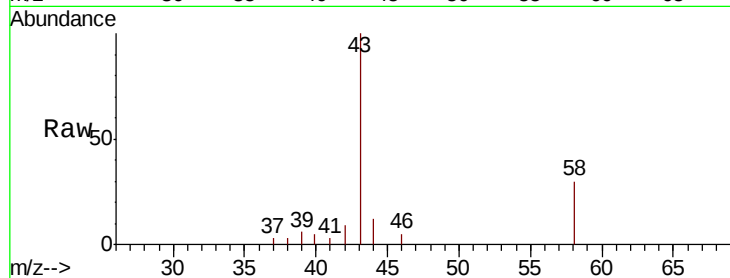
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 17441

Ion Ratio Lower Upper

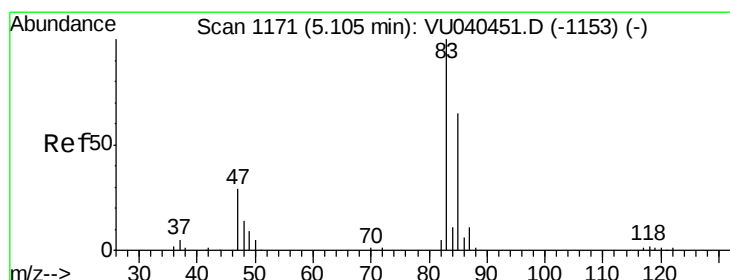
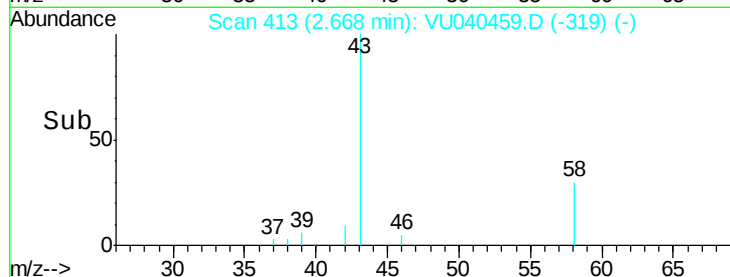
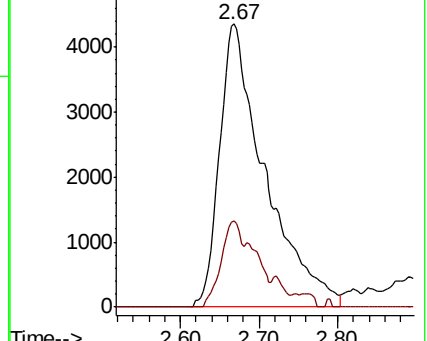
43 100

58 14.0 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU040459.D (-319) (-)

Ion 58.05 (57.75 to 58.75): VU040459.D (-319) (-)



#25

Chloroform

Concen: 0.198 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. -0.00 min

Lab File: VU040459.D

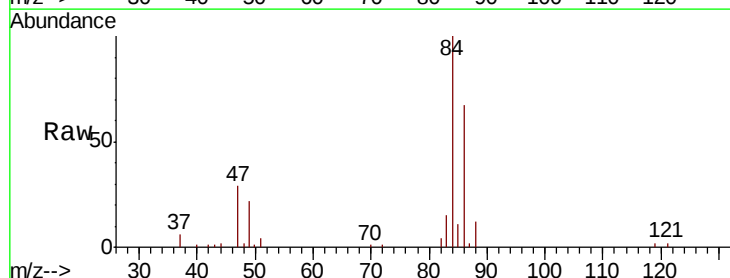
Acq: 02 Oct 2020 14:33

Tgt Ion: 83 Resp: 4064

Ion Ratio Lower Upper

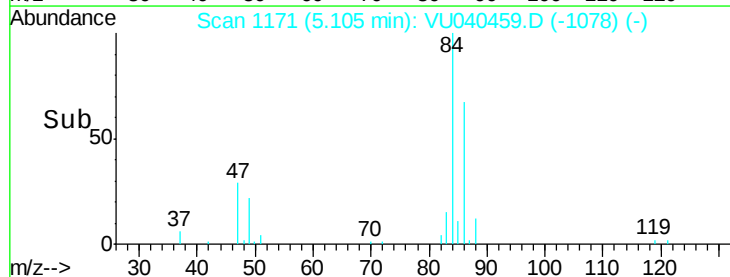
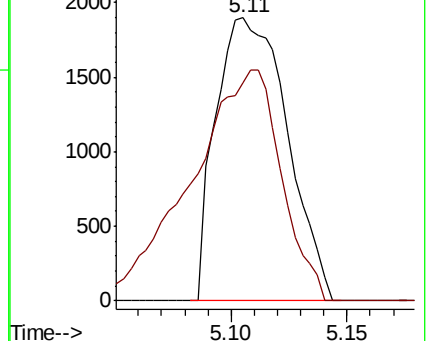
83 100

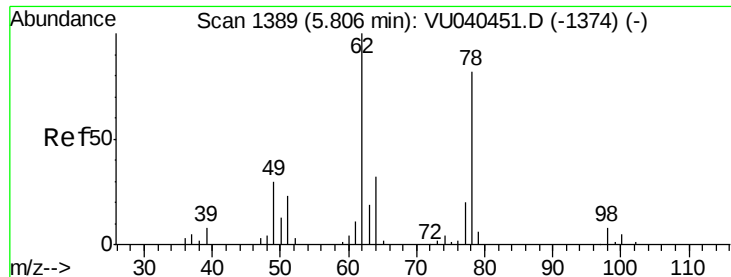
85 76.9 44.6 82.8



Abundance Ion 83.05 (82.75 to 83.75): VU040459.D (-1078) (-)

Ion 85.00 (84.70 to 85.70): VU040459.D (-1078) (-)

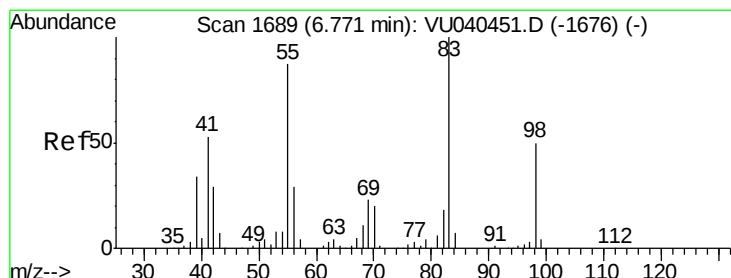
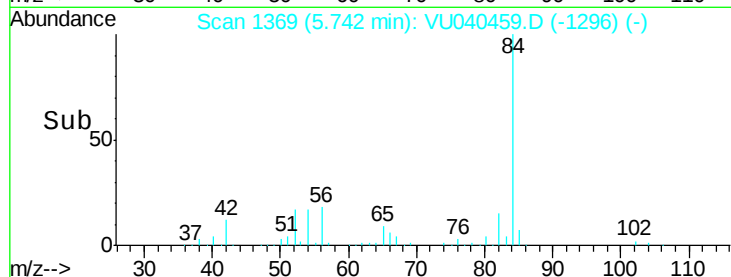
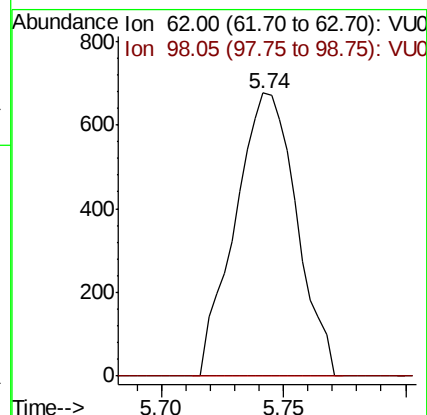
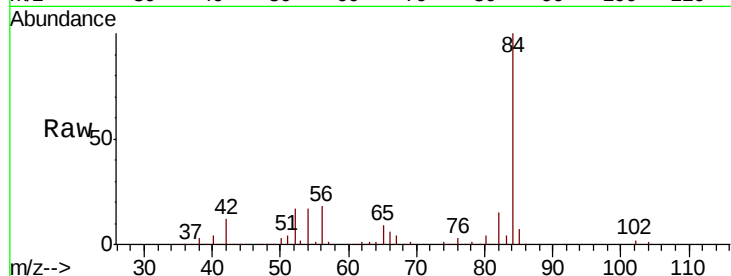




#27  
 1,2-Dichloroethane  
 Concen: 0.083 ug/L  
 RT: 5.74 min Scan# 1369  
 Delta R.T. -0.06 min  
 Lab File: VU040459.D  
 Acq: 02 Oct 2020 14:33

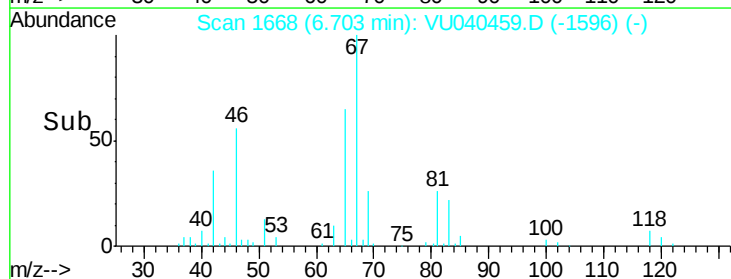
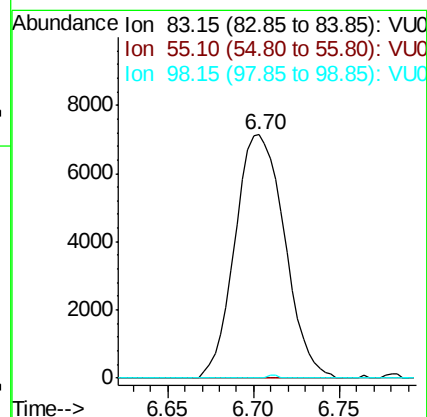
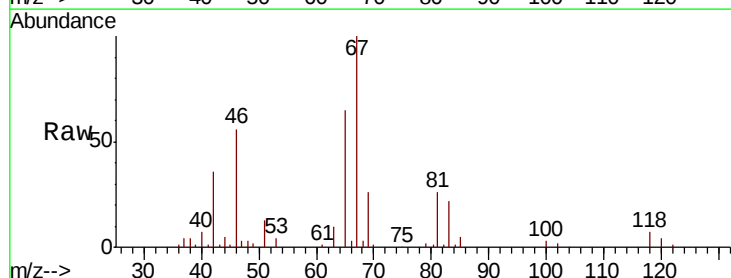
Instrument :  
 MSVOA\_U  
 ClientSampled :

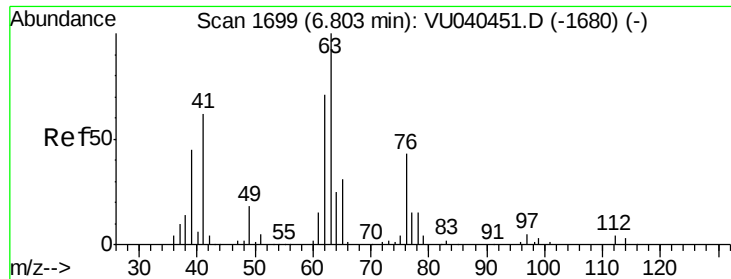
Tot Ion: 62 Resp: 1181  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 7.5 11.3#



#35  
 Methylcyclohexane  
 Concen: 0.868 ug/L  
 RT: 6.70 min Scan# 1668  
 Delta R.T. -0.07 min  
 Lab File: VU040459.D  
 Acq: 02 Oct 2020 14:33

Tgt Ion: 83 Resp: 14286  
 Ion Ratio Lower Upper  
 83 100  
 55 0.0 71.4 107.2#  
 98 0.3 38.5 57.7#

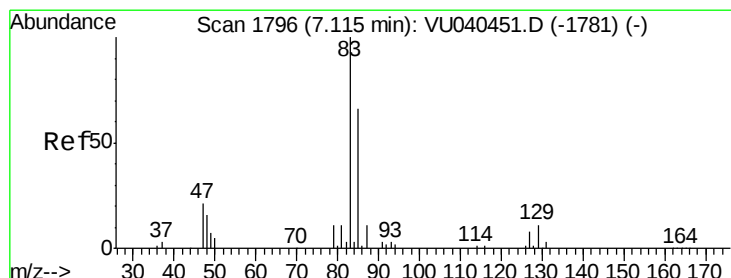
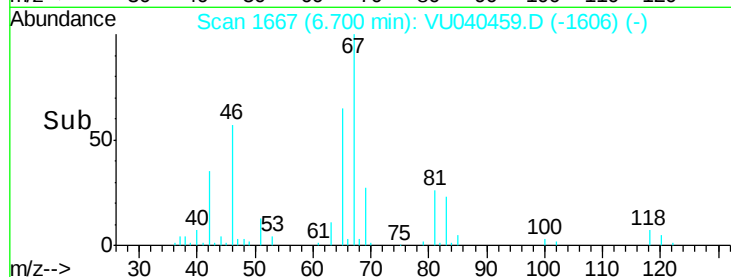
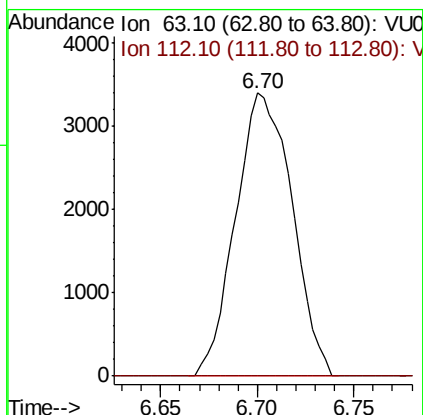
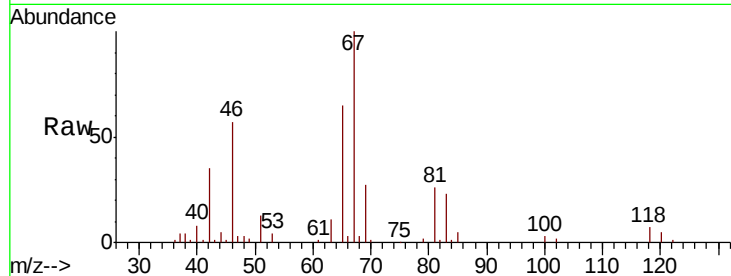




#37  
 1,2-Dichloropropane  
 Concen: 0.585 ug/L  
 RT: 6.70 min Scan# 1667  
 Delta R.T. -0.10 min  
 Lab File: VU040459.D  
 Acq: 02 Oct 2020 14:33

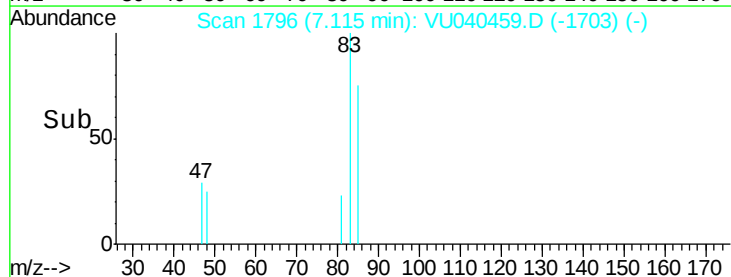
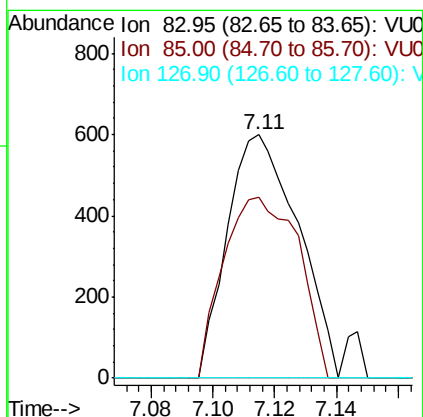
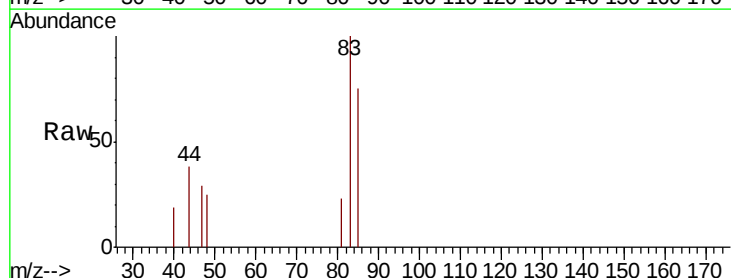
Instrument :  
 MSVOA\_U  
 ClientSampleId :

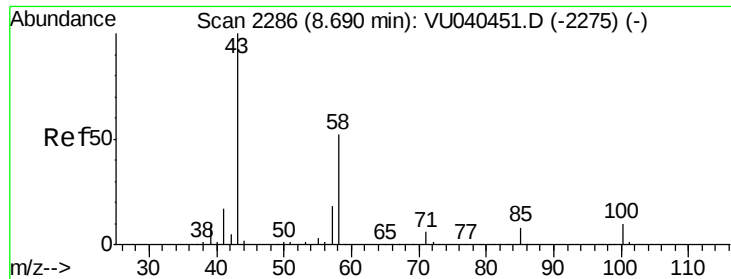
Tot Ion: 63 Resp: 6883  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.2 4.8#



#38  
 Bromodichloromethane  
 Concen: 0.066 ug/L  
 RT: 7.11 min Scan# 1796  
 Delta R.T. -0.00 min  
 Lab File: VU040459.D  
 Acq: 02 Oct 2020 14:33

Tgt Ion: 83 Resp: 957  
 Ion Ratio Lower Upper  
 83 100  
 85 74.5 45.1 83.9  
 127 0.0 6.6 9.8#

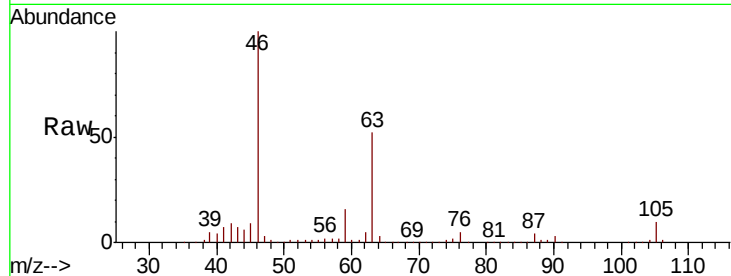




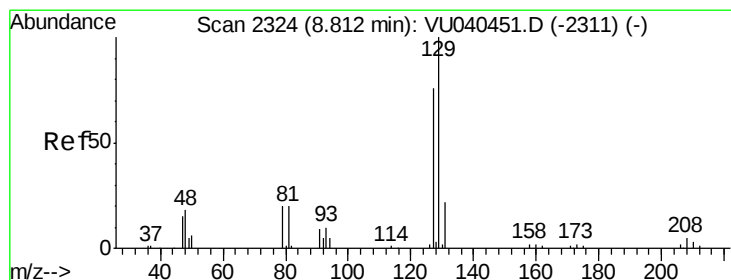
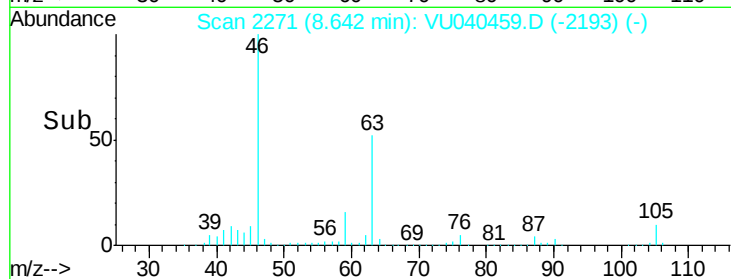
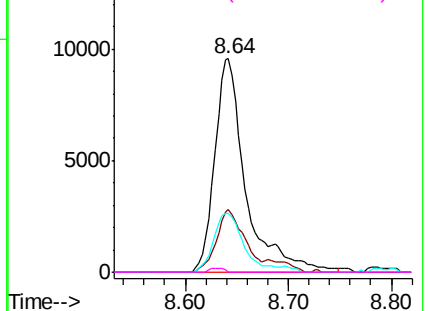
#48  
2-Hexanone  
Concen: 2.935 ug/L  
RT: 8.64 min Scan# 2271  
Delta R.T. -0.05 min  
Lab File: VU040459.D  
Acq: 02 Oct 2020 14:33

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 43 Resp: 19939  
Ion Ratio Lower Upper  
43 100  
58 26.3 41.0 61.4#  
57 26.7 14.6 22.0#  
100 0.9 8.2 12.4#

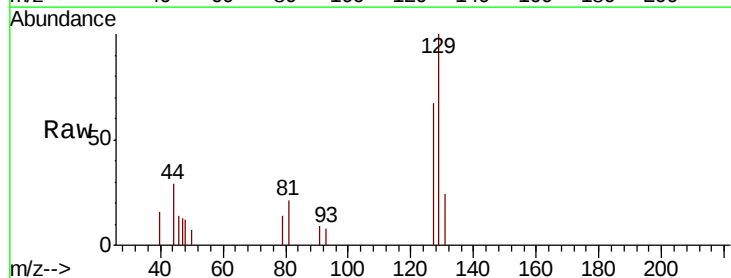


Abundance Ion 43.05 (42.75 to 43.75): VU040459.D (-2275) (-)  
Ion 58.05 (57.75 to 58.75): VU040459.D (-2275) (-)  
Ion 57.20 (56.90 to 57.90): VU040459.D (-2275) (-)  
Ion 100.15 (99.85 to 100.85): VU040459.D (-2275) (-)

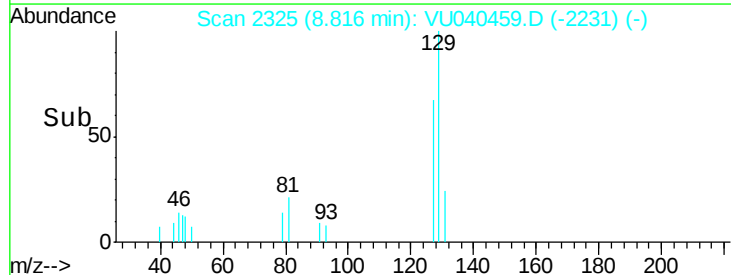
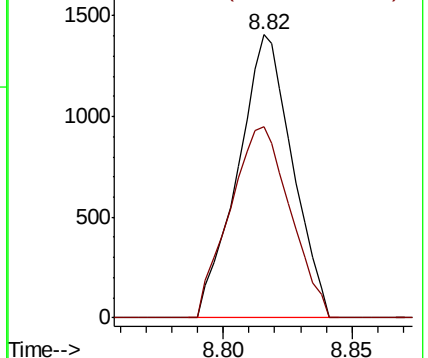


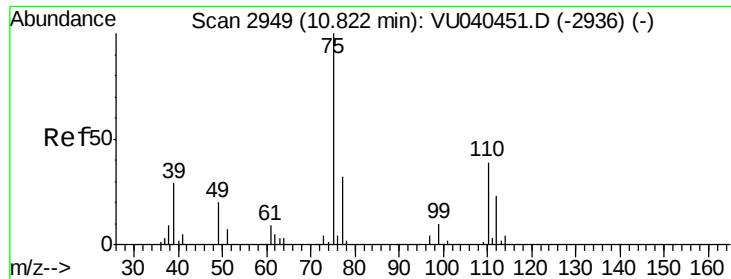
#49  
Dibromochloromethane  
Concen: 0.216 ug/L  
RT: 8.82 min Scan# 2325  
Delta R.T. 0.00 min  
Lab File: VU040459.D  
Acq: 02 Oct 2020 14:33

Tgt Ion: 129 Resp: 2077  
Ion Ratio Lower Upper  
129 100  
127 67.5 55.4 103.0



Abundance Ion 128.95 (128.65 to 129.65): VU040459.D (-2324) (-)  
Ion 126.90 (126.60 to 127.60): VU040459.D (-2324) (-)

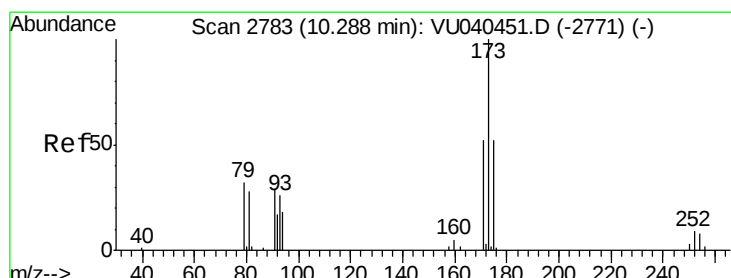
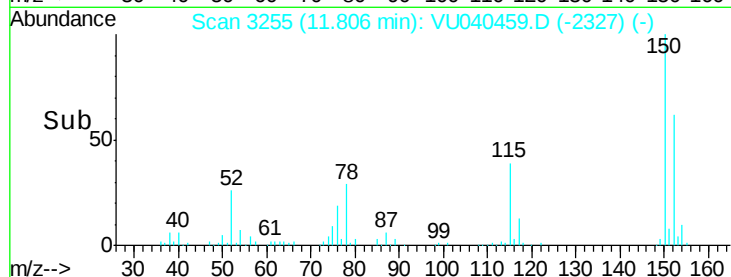
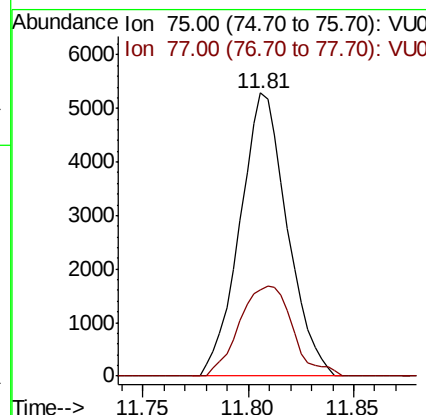
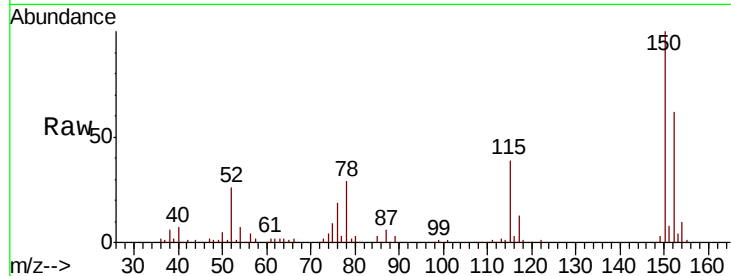




#59  
 1,2,3-Trichloropropane  
 Concen: 0.967 ug/L  
 RT: 11.81 min Scan# 3255  
 Delta R.T. 0.98 min  
 Lab File: VU040459.D  
 Acq: 02 Oct 2020 14:33

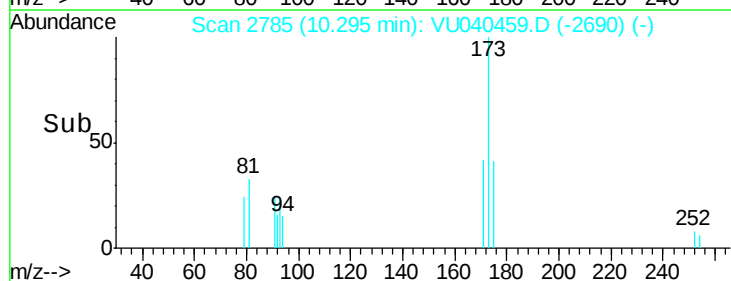
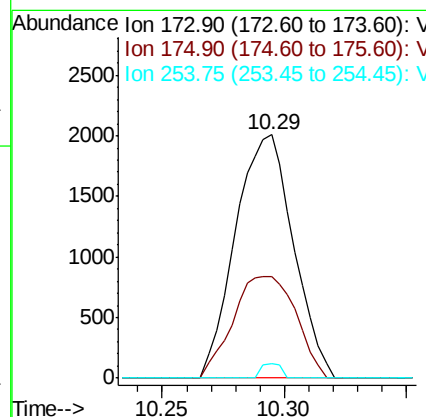
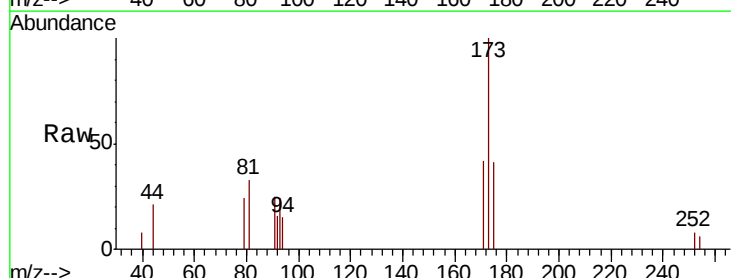
Instrument :  
 MSVOA\_U  
 ClientSampleId :

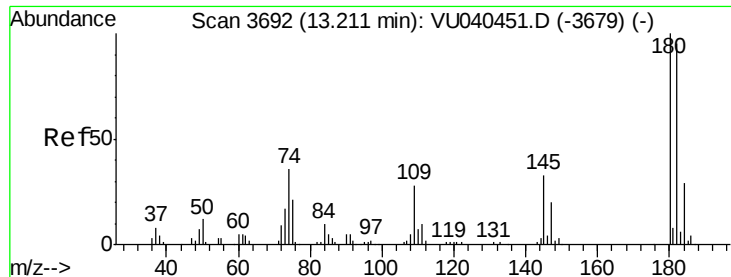
Tot Ion: 75 Resp: 8252  
 Ion Ratio Lower Upper  
 75 100  
 77 35.6 25.7 38.5



#61  
 Bromoform  
 Concen: 0.698 ug/L  
 RT: 10.29 min Scan# 2785  
 Delta R.T. 0.01 min  
 Lab File: VU040459.D  
 Acq: 02 Oct 2020 14:33

Tgt Ion: 173 Resp: 3309  
 Ion Ratio Lower Upper  
 173 100  
 175 45.4 39.6 59.4  
 254 2.0 7.0 10.4#





#67

1,3,5-Trichlorobenzene

Concen: 0.120 ug/L

RT: 12.22 min Scan# 3383

Delta R.T. -0.99 min

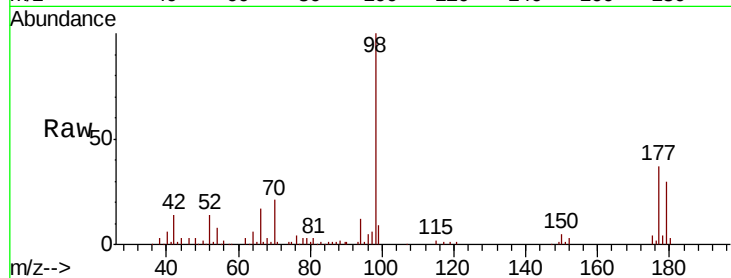
Lab File: VU040459.D

Acq: 02 Oct 2020 14:33

Instrument :

MSVOA\_U

ClientSampleId :



Tot Ion:180 Resp: 1622

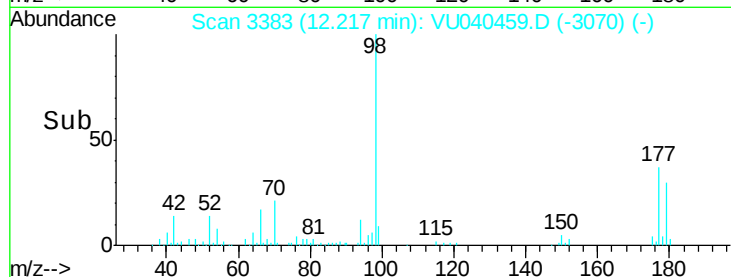
Ion Ratio Lower Upper

180 100

182 0.0 76.5 114.7#

184 0.0 24.6 37.0#

145 0.0 25.8 38.8#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

