

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U122320\  
 Data File : VU041780.D  
 Acq On : 23 Dec 2020 14:18  
 Operator : SY/MD  
 Sample : L5161-18DL 5X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GB243DL

Quant Time: Dec 24 01:11:10 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Dec 24 01:08:18 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 126479   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 122356   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 55158    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 39317    | 3.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 79.60%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 39197    | 5.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 102.40% |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 57228    | 3.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 62.80%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 132865   | 46.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 93.56%  |
| 24) Chloroform-d               | 5.08   | 84    | 86071    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 101.60% |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 50874    | 5.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 105.80% |
| 32) Benzene-d6                 | 5.74   | 84    | 166509   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 48965    | 4.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 89.20%  |
| 41) Toluene-d8                 | 7.91   | 98    | 119842   | 3.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 75.80%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 18570    | 3.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 75.20%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 114242   | 42.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 84.62%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 45191    | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 90.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 46383    | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 94.60%  |

## Target Compounds

|                                |       |     |       |              | Ovalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 3) Chloromethane               | 1.53  | 50  | 1265  | 0.122 ug/L   | 87     |
| 8) Chloroethane                | 2.15  | 64  | 266   | 0.034 ug/L   | 90     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.57  | 101 | 581   | 0.067 ug/L # | 22     |
| 13) Acetone                    | 2.68  | 43  | 4998  | 2.766 ug/L   | 75     |
| 16) Methylene chloride         | 3.06  | 84  | 3394  | 0.331 ug/L # | 78     |
| 25) Chloroform                 | 5.10  | 83  | 1173  | 0.070 ug/L # | 46     |
| 27) 1,2-Dichloroethane         | 5.75  | 62  | 958   | 0.085 ug/L # | 73     |
| 31) Carbon tetrachloride       | 5.54  | 117 | 58091 | 4.781 ug/L   | 99     |
| 33) Benzene                    | 5.74  | 78  | 1297  | 0.033 ug/L   | 100    |
| 35) Methylcyclohexane          | 6.70  | 83  | 12112 | 0.762 ug/L # | 19     |
| 37) 1,2-Dichloropropane        | 6.70  | 63  | 5128  | 0.512 ug/L # | 88     |
| 39) cis-1,3-Dichloropropene    | 7.58  | 75  | 1159  | 0.078 ug/L # | 42     |
| 44) trans-1,3-Dichloropropene  | 8.19  | 75  | 880   | 0.066 ug/L   | 91     |
| 59) 1,2,3-Trichloropropane     | 11.81 | 75  | 5353  | 0.712 ug/L   | 95     |
| 66) 1,2-Dibromo-3-chloropropan | 12.76 | 75  | 179   | 0.116 ug/L # | 8      |

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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GB243DL

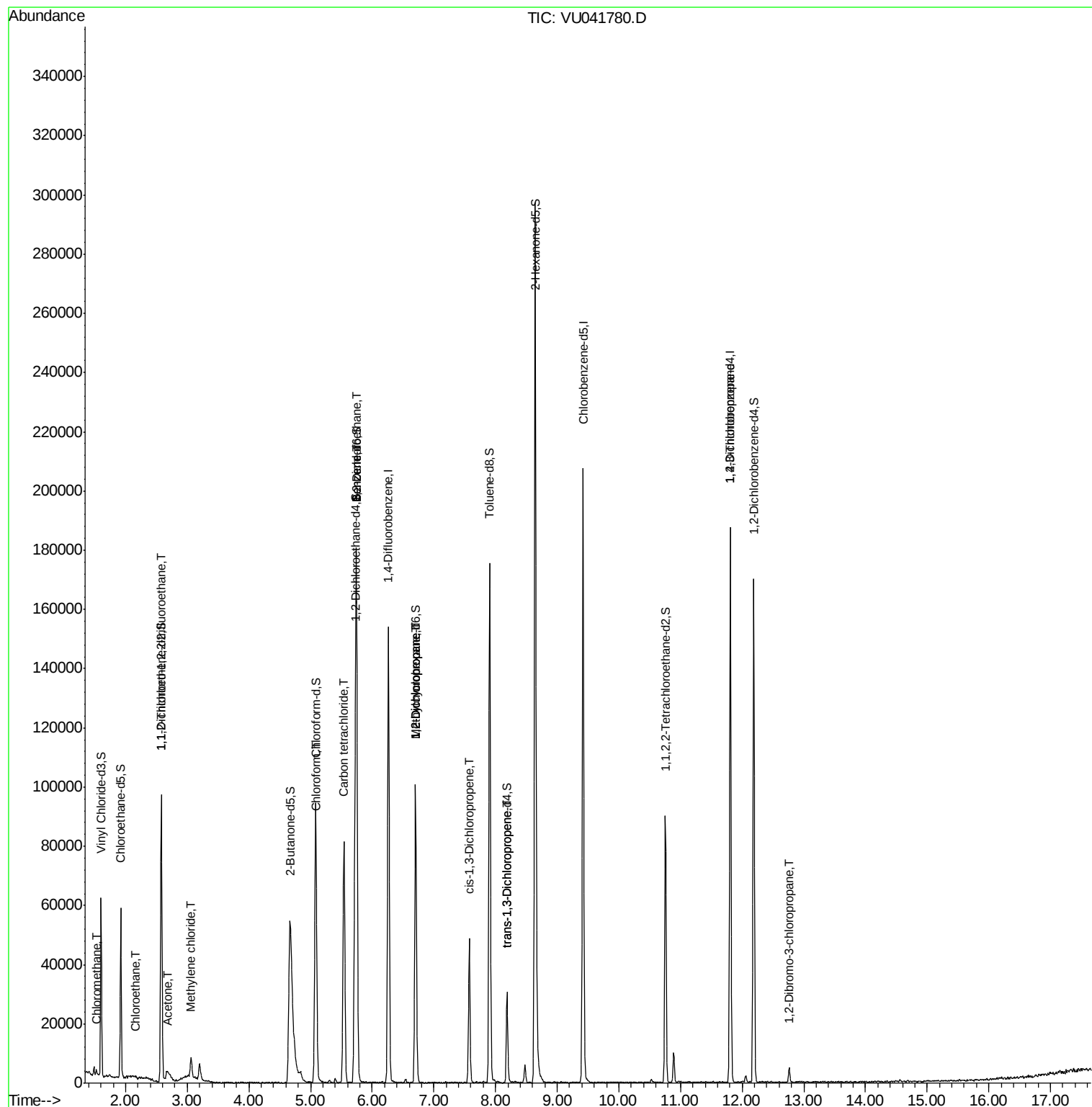
Quant Time: Dec 24 01:11:10 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Dec 24 01:08:18 2020  
Response via : Initial Calibration

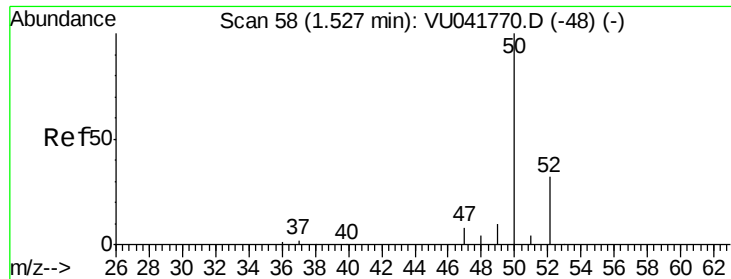
| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Dec 24 01:08:18 2020  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.122 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041780.D

Acq: 23 Dec 2020 14:18

Instrument :

MSVOA\_U

ClientSampleId :

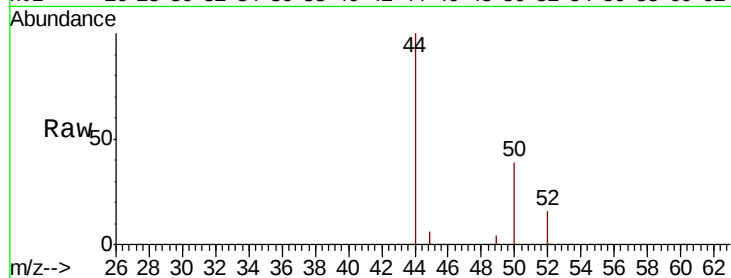
GB243DL

Tot Ion: 50 Resp: 1265

Ion Ratio Lower Upper

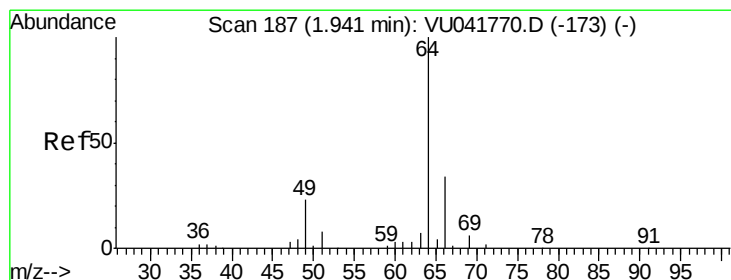
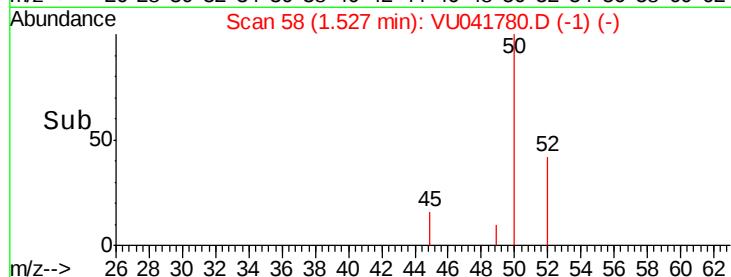
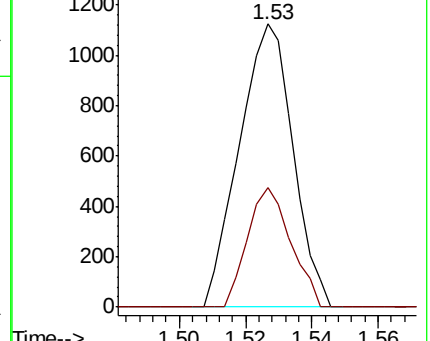
50 100

52 42.1 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#8

Chloroethane

Concen: 0.034 ug/L

RT: 2.15 min Scan# 252

Delta R.T. 0.21 min

Lab File: VU041780.D

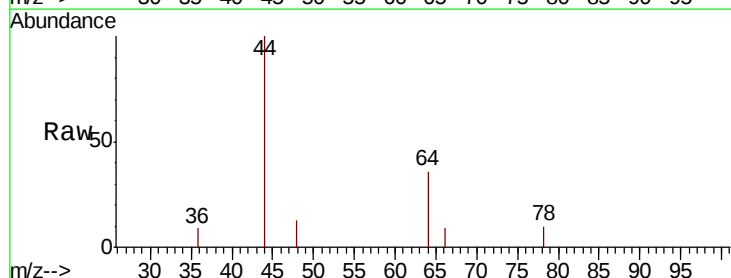
Acq: 23 Dec 2020 14:18

Tgt Ion: 64 Resp: 266

Ion Ratio Lower Upper

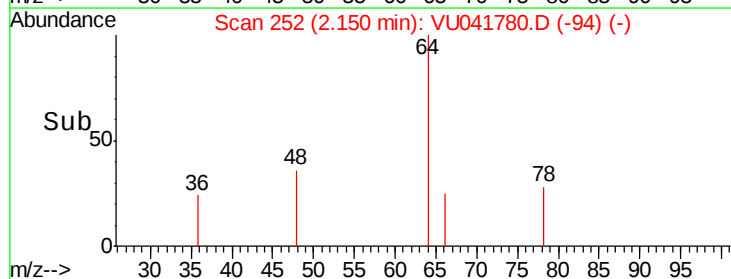
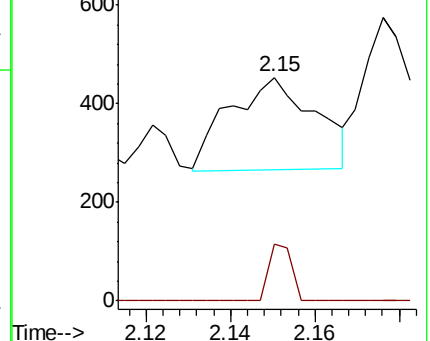
64 100

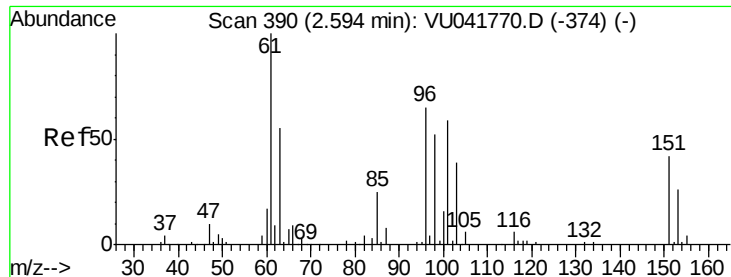
66 25.3 21.6 40.0



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.067 ug/L

RT: 2.57 min Scan# 384

Delta R.T. -0.02 min

Lab File: VU041780.D

Acq: 23 Dec 2020 14:18

Instrument :

MSVOA\_U

ClientSampled :

GB243DL

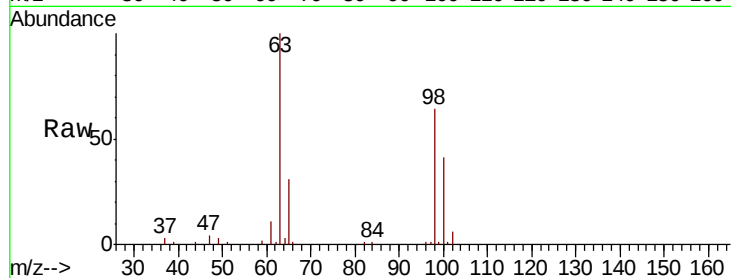
Tot Ion:101 Resp: 581

Ion Ratio Lower Upper

101 100

85 0.0 33.6 50.4#

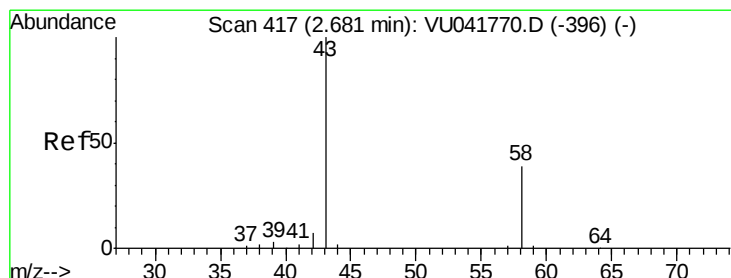
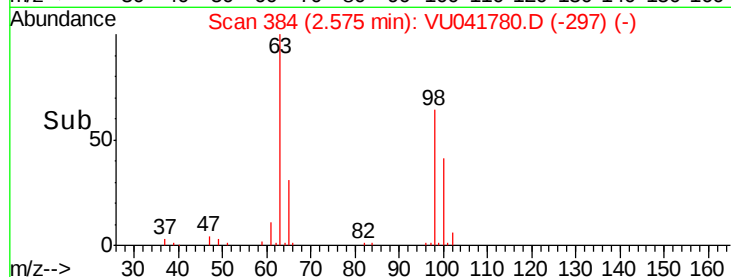
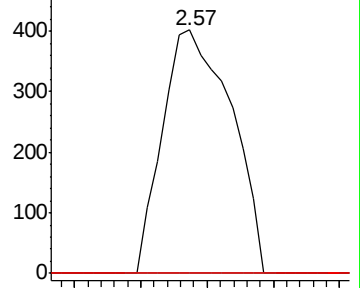
151 0.0 56.2 84.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 2.766 ug/L

RT: 2.68 min Scan# 418

Delta R.T. 0.00 min

Lab File: VU041780.D

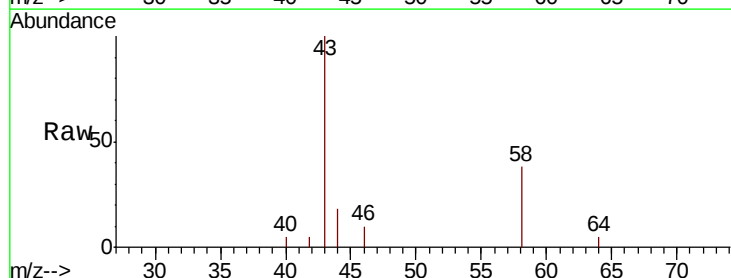
Acq: 23 Dec 2020 14:18

Tgt Ion: 43 Resp: 4998

Ion Ratio Lower Upper

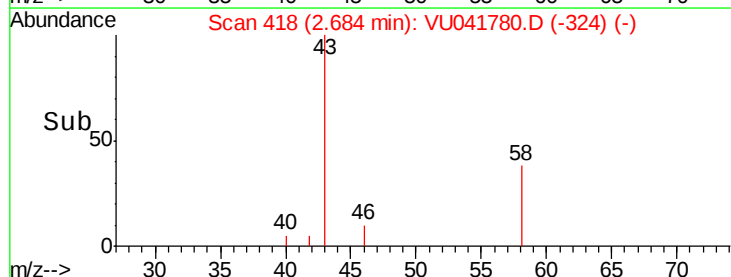
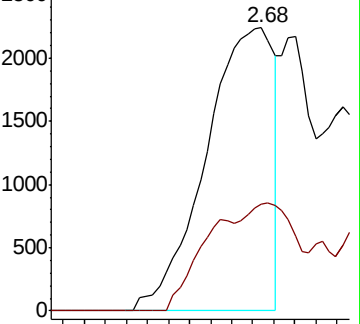
43 100

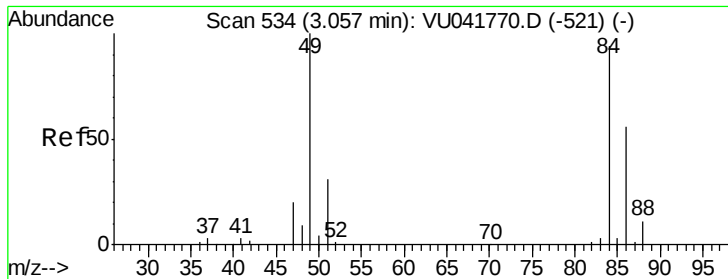
58 21.8 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

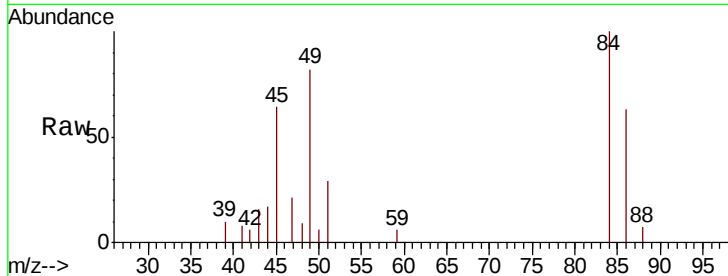




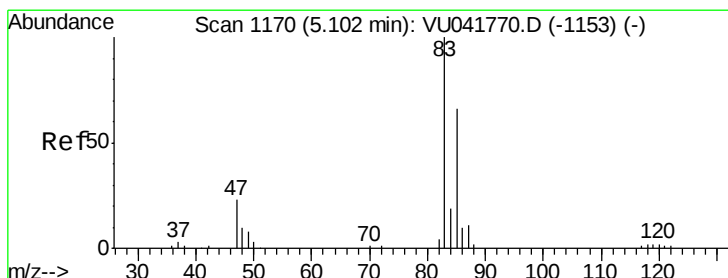
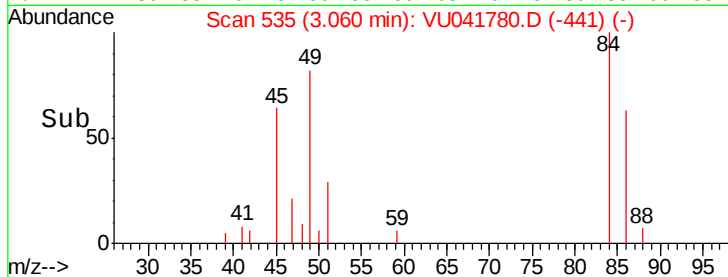
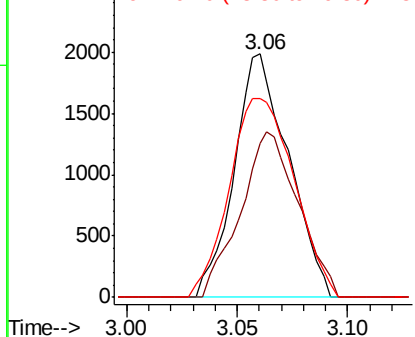
#16  
Methvlene chloride  
Concen: 0.331 ug/L  
RT: 3.06 min Scan# 535  
Delta R.T. 0.00 min  
Lab File: VU041780.D  
Acq: 23 Dec 2020 14:18

Instrument :  
MSVOA\_U  
ClientSampleId :  
GB243DL

Tot Ion: 84 Resp: 3394  
Ion Ratio Lower Upper  
84 100  
86 63.3 45.1 83.7  
49 81.8 83.1 154.3#

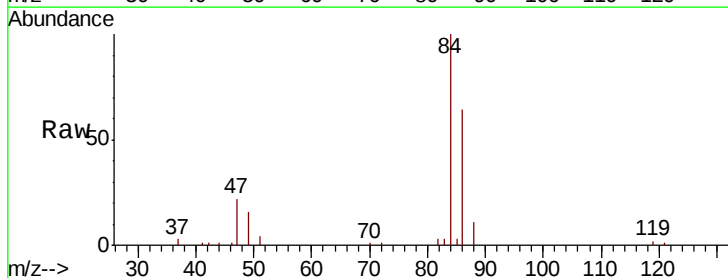


Abundance Ion 84.05 (83.75 to 84.75): VU0  
Ion 86.00 (85.70 to 86.70): VU0  
Ion 49.10 (48.80 to 49.80): VU0

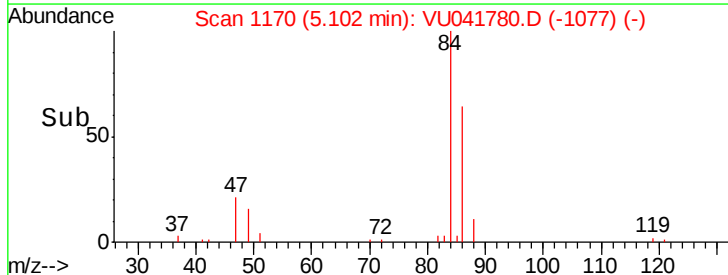
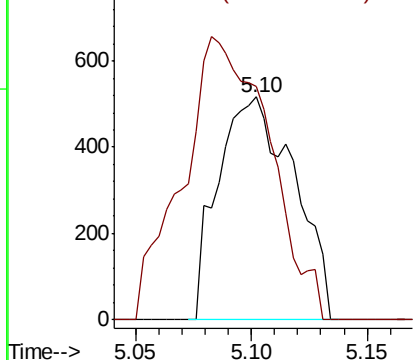


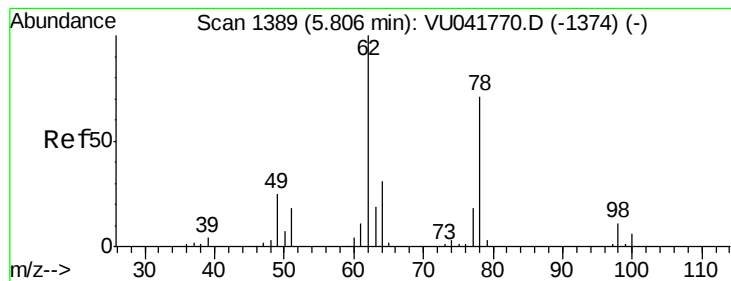
#25  
Chloroform  
Concen: 0.070 ug/L  
RT: 5.10 min Scan# 1170  
Delta R.T. 0.00 min  
Lab File: VU041780.D  
Acq: 23 Dec 2020 14:18

Tgt Ion: 83 Resp: 1173  
Ion Ratio Lower Upper  
83 100  
85 104.8 44.2 82.0#



Abundance Ion 83.05 (82.75 to 83.75): VU0  
Ion 85.00 (84.70 to 85.70): VU0

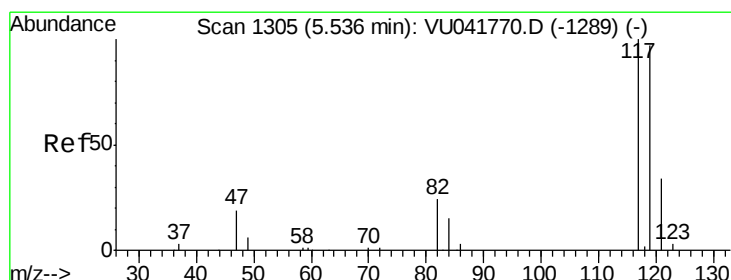
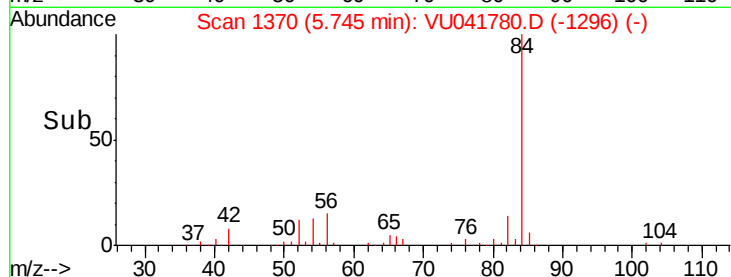
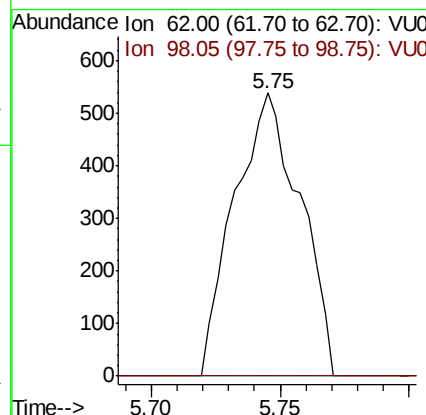
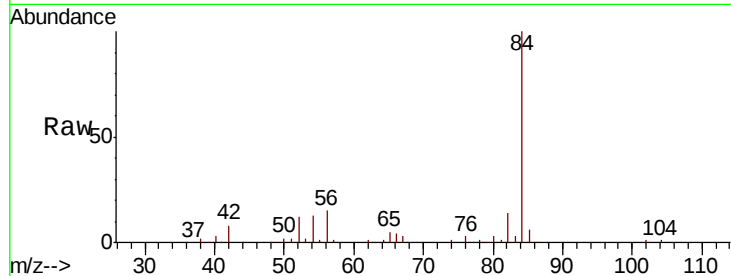




#27  
 1,2-Dichloroethane  
 Concen: 0.085 ug/L  
 RT: 5.75 min Scan# 1370  
 Delta R.T. -0.06 min  
 Lab File: VU041780.D  
 Acq: 23 Dec 2020 14:18

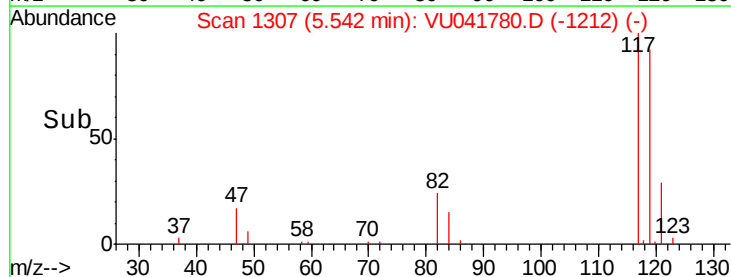
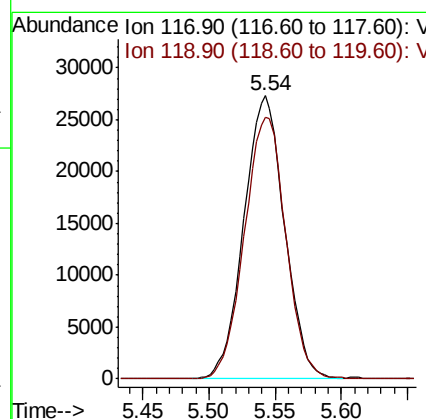
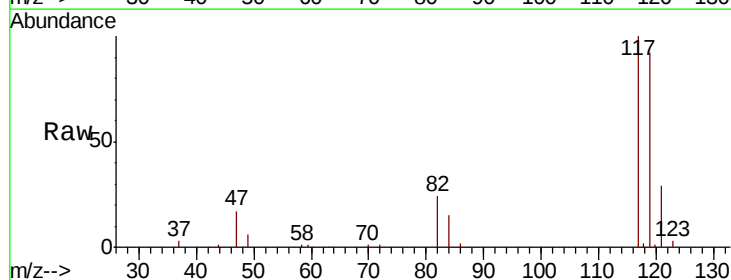
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GB243DL

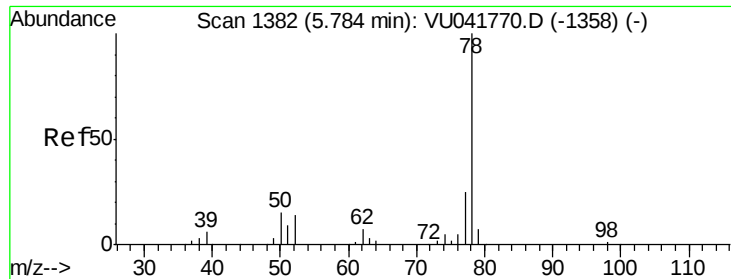
Tot Ion: 62 Resp: 958  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 8.2 12.2#



#31  
 Carbon tetrachloride  
 Concen: 4.781 ug/L  
 RT: 5.54 min Scan# 1307  
 Delta R.T. 0.01 min  
 Lab File: VU041780.D  
 Acq: 23 Dec 2020 14:18

Tgt Ion: 117 Resp: 58091  
 Ion Ratio Lower Upper  
 117 100  
 119 94.0 76.2 114.2





#33

Benzene

Concen: 0.033 ug/L

RT: 5.74 min Scan# 1369

Delta R.T. -0.04 min

Lab File: VU041780.D

Acq: 23 Dec 2020 14:18

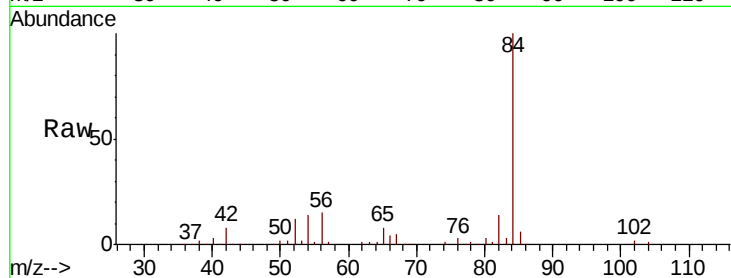
Instrument :

MSVOA\_U

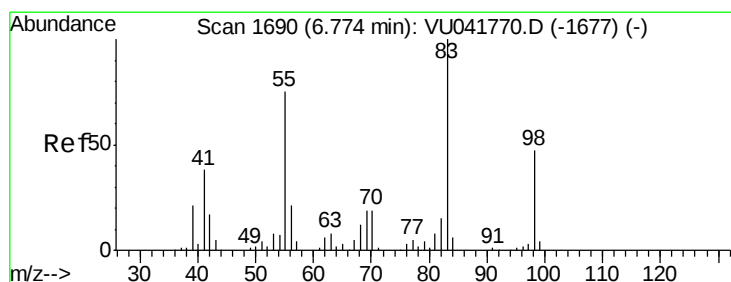
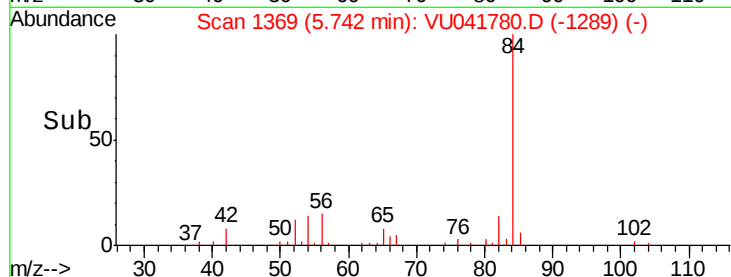
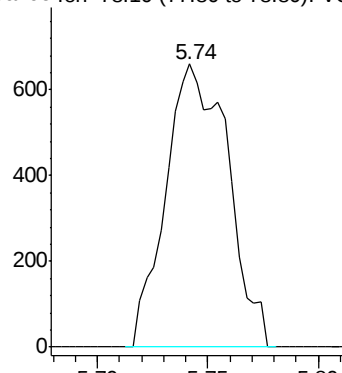
ClientSampled :

GB243DL

Tgt Ion: 78 Resp: 1297



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 0.762 ug/L

RT: 6.70 min Scan# 1668

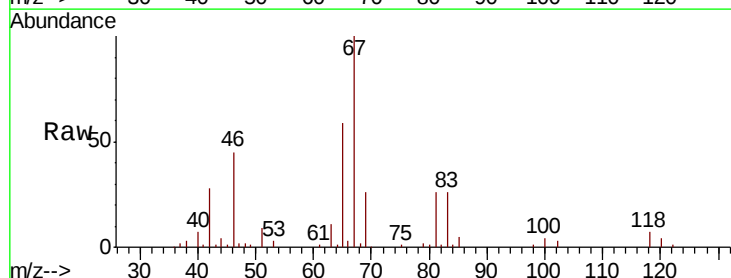
Delta R.T. -0.07 min

Lab File: VU041780.D

Acq: 23 Dec 2020 14:18

Tgt Ion: 83 Resp: 12112

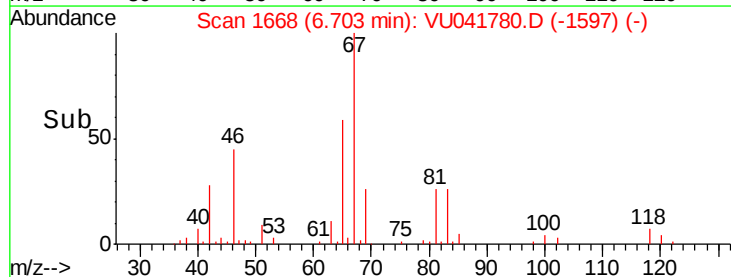
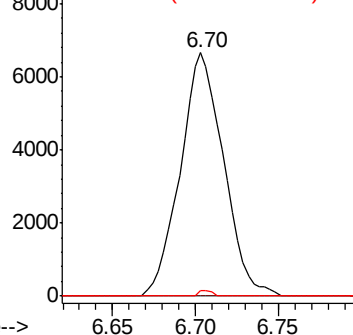
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 0.0   | 61.2  | 91.8# |
| 98  | 0.7   | 36.6  | 54.8# |

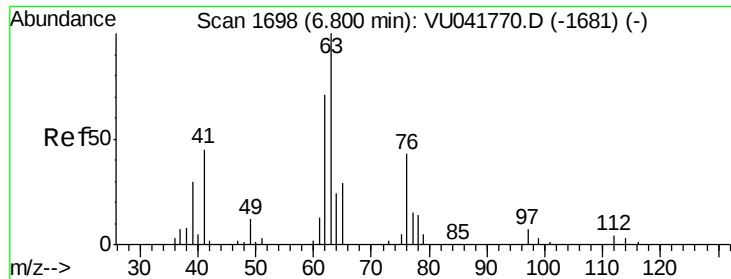


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

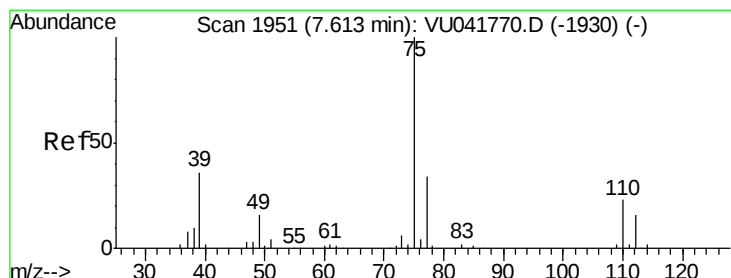
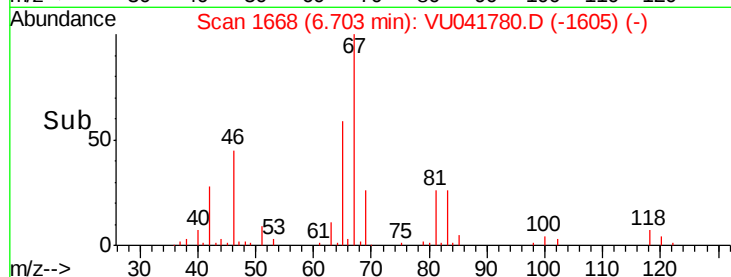
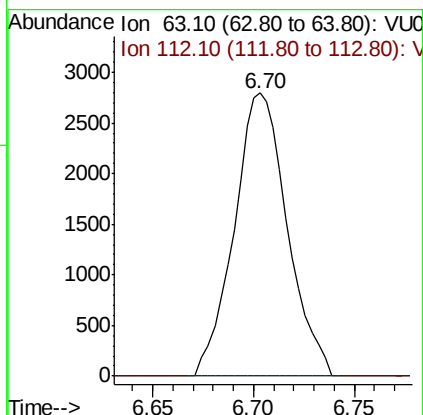
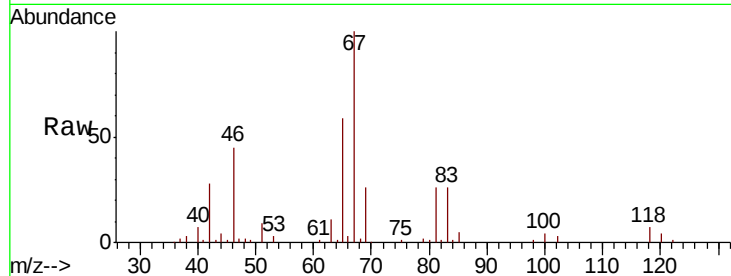




#37  
 1,2-Dichloropropane  
 Concen: 0.512 ug/L  
 RT: 6.70 min Scan# 1668  
 Delta R.T. -0.10 min  
 Lab File: VU041780.D  
 Acq: 23 Dec 2020 14:18

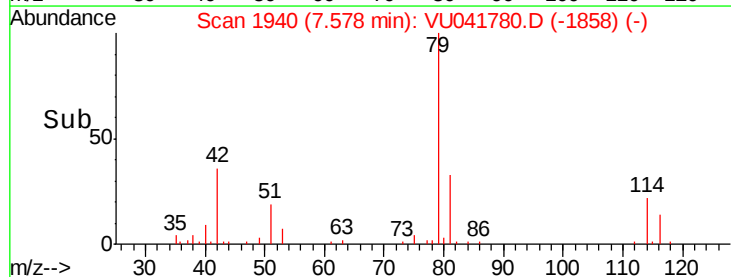
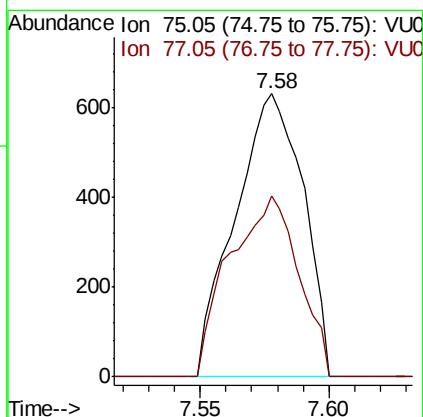
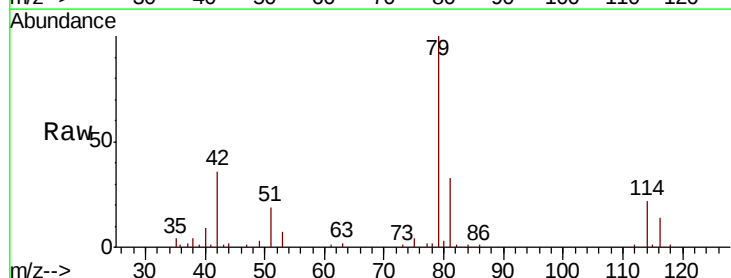
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GB243DL

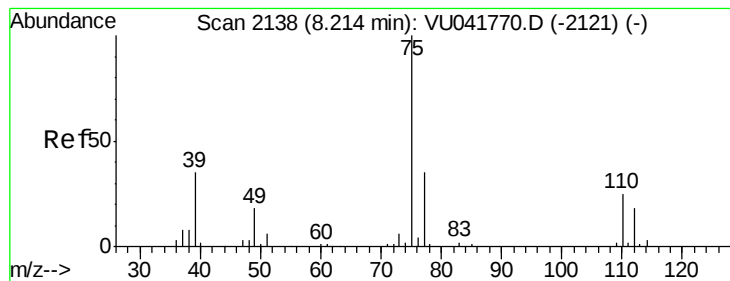
Tot Ion: 63 Resp: 5128  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.1 4.7#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.078 ug/L  
 RT: 7.58 min Scan# 1940  
 Delta R.T. -0.04 min  
 Lab File: VU041780.D  
 Acq: 23 Dec 2020 14:18

Tgt Ion: 75 Resp: 1159  
 Ion Ratio Lower Upper  
 75 100  
 77 64.0 22.3 41.3#





#44

trans-1,3-Dichloropropene

Concen: 0.066 ug/L

RT: 8.19 min Scan# 2131

Delta R.T. -0.02 min

Lab File: VU041780.D

Acq: 23 Dec 2020 14:18

Instrument :

MSVOA\_U

ClientSampleId :

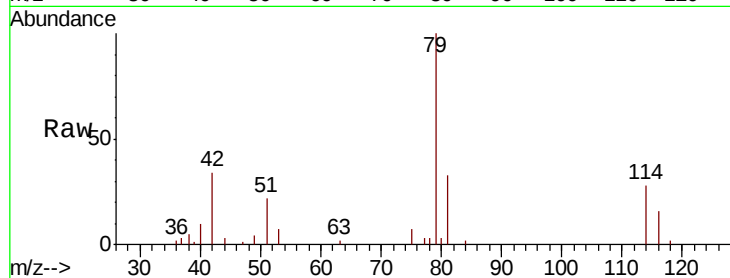
GB243DL

Tot Ion: 75 Resp: 880

Ion Ratio Lower Upper

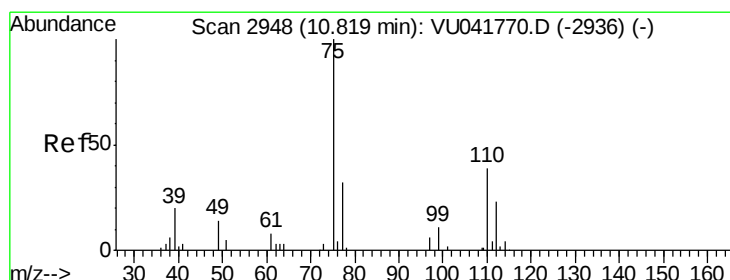
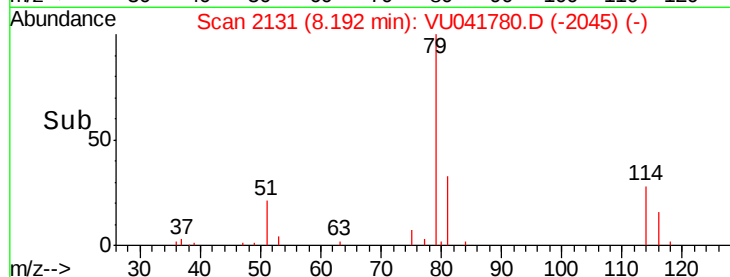
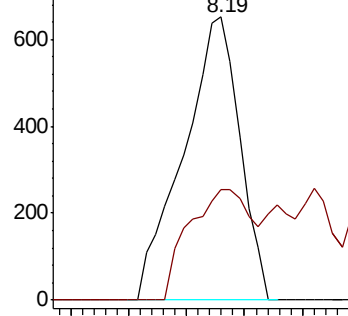
75 100

77 39.0 23.8 44.2



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#59

1,2,3-Trichloropropane

Concen: 0.712 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041780.D

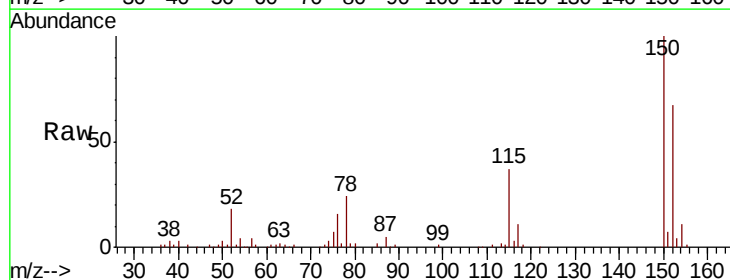
Acq: 23 Dec 2020 14:18

Tgt Ion: 75 Resp: 5353

Ion Ratio Lower Upper

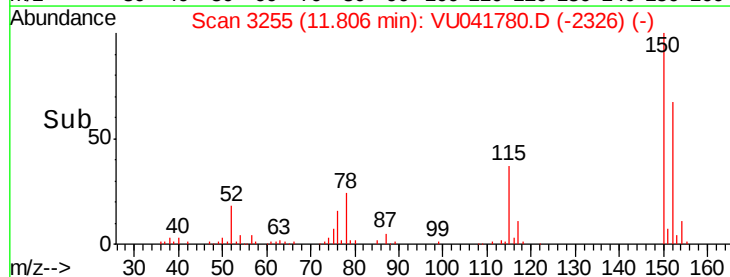
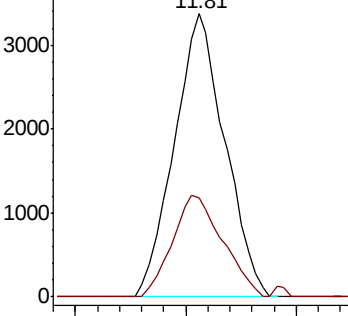
75 100

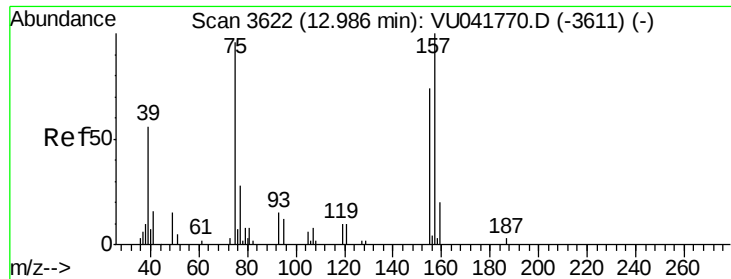
77 35.7 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#66

1,2-Dibromo-3-chloropropane

Concen: 0.116 ug/L

RT: 12.76 min Scan# 3552

Delta R.T. -0.23 min

Lab File: VU041780.D

Acq: 23 Dec 2020 14:18

Instrument :

MSVOA\_U

ClientSampleId :

GB243DL

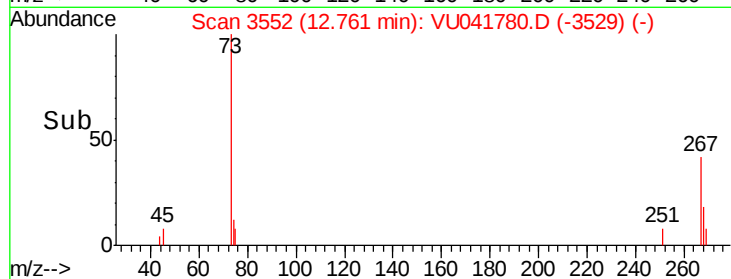
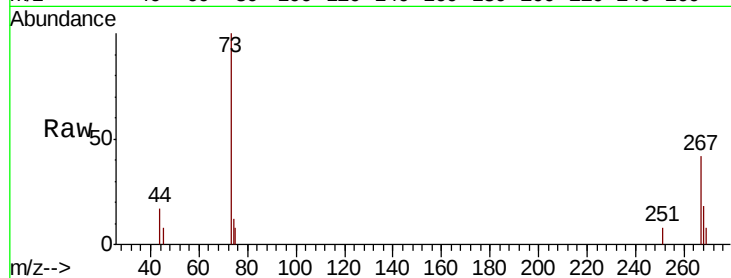
Tot Ion: 75 Resp: 179

Ion Ratio Lower Upper

75 100

155 0.0 57.4 86.0#

157 0.0 72.4 108.6#



Abundance Ion 75.05 (74.75 to 75.75): VU041780.D (-3529) (-)

Ion 154.95 (154.65 to 155.65): VU041780.D (-3529) (-)

Ion 156.90 (156.60 to 157.60): VU041780.D (-3529) (-)

