

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U122220\  
 Data File : VU041762.D  
 Acq On : 22 Dec 2020 23:36  
 Operator : SY/MD  
 Sample : L5161-19  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GB244

Quant Time: Dec 23 05:11:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Dec 23 05:08:09 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 122624   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 119805   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 52293    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 31439    | 3.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 65.60%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 36354    | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 98.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 54539    | 3.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 61.80%  |
| 20) 2-Butanone-d5              | 4.65   | 46    | 158785   | 57.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 115.32% |
| 24) Chloroform-d               | 5.08   | 84    | 82454    | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 100.40% |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 47831    | 5.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 102.60% |
| 32) Benzene-d6                 | 5.74   | 84    | 155332   | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 50647    | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.20%  |
| 41) Toluene-d8                 | 7.90   | 98    | 124394   | 4.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 80.40%  |
| 43) trans-1,3-Dichloropropene- | 8.18   | 79    | 20849    | 4.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 86.20%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 134894   | 51.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 102.04% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 52724    | 5.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 108.00% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 51958    | 5.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 111.80% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc    | Units  | Ovalue |
|--------------------------------|------|------|----------|---------|--------|--------|
| 3) Chloromethane               | 1.52 | 50   | 585      | 0.058   | ug/L   | 83     |
| 8) Chloroethane                | 1.94 | 64   | 232      | 0.031   | ug/L # | 44     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.58 | 101  | 616      | 0.073   | ug/L # | 22     |
| 13) Acetone                    | 2.66 | 43   | 77659    | 44.336  | ug/L   | 99     |
| 15) Methyl Acetate             | 2.95 | 43   | 699      | 0.153   | ug/L # | 51     |
| 16) Methylene chloride         | 3.06 | 84   | 1510     | 0.152   | ug/L   | 93     |
| 21) 2-Butanone                 | 4.74 | 43   | 2137     | 0.749   | ug/L # | 54     |
| 25) Chloroform                 | 5.11 | 83   | 31739    | 1.960   | ug/L   | 95     |
| 31) Carbon tetrachloride       | 5.54 | 117  | 6215387  | 522.451 | ug/L   | 99     |
| 34) Trichloroethene            | 6.55 | 95   | 1020     | 0.106   | ug/L # | 84     |
| 35) Methylcyclohexane          | 6.70 | 83   | 12138    | 0.780   | ug/L # | 20     |
| 37) 1,2-Dichloropropane        | 6.70 | 63   | 5357     | 0.547   | ug/L # | 88     |
| 38) Bromodichloromethane       | 7.11 | 83   | 943      | 0.077   | ug/L # | 96     |
| 39) cis-1,3-Dichloropropene    | 7.57 | 75   | 1132     | 0.078   | ug/L # | 25     |
| 40) 4-Methyl-2-pentanone       | 7.80 | 43   | 3381     | 0.485   | ug/L # | 87     |
| 44) trans-1,3-Dichloropropene  | 8.19 | 75   | 800      | 0.062   | ug/L # | 61     |
| 48) 2-Hexanone                 | 8.64 | 43   | 16484    | 3.248   | ug/L # | 66     |

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ALS Vial : 37 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GB244

Quant Time: Dec 23 05:11:24 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Dec 23 05:08:09 2020  
Response via : Initial Calibration

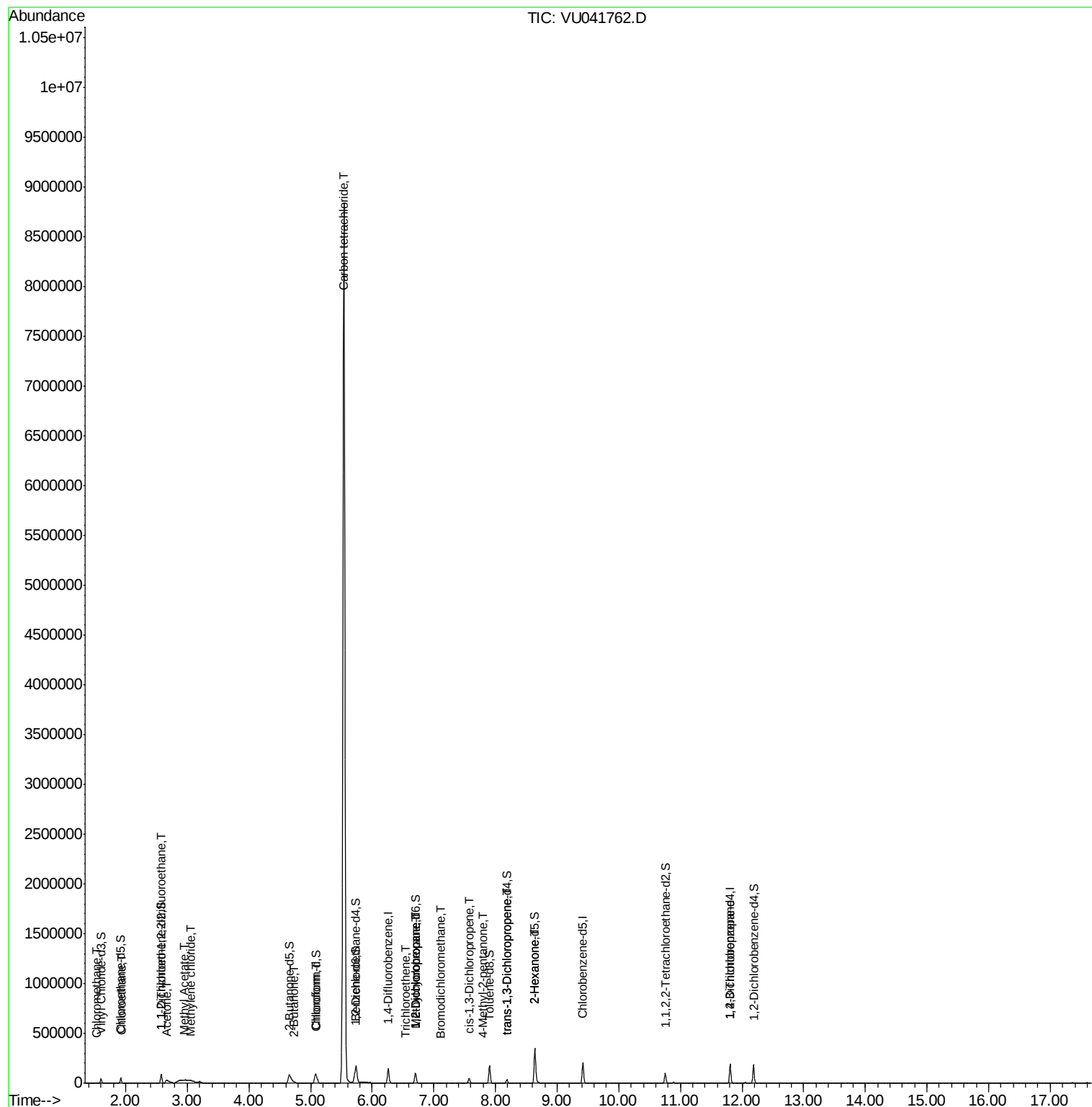
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 59) 1,2,3-Trichloropropane | 11.81 | 75   | 5855     | 0.795 | ug/L  | 99       |

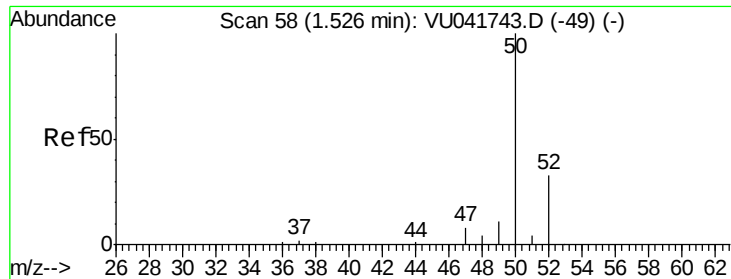
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.058 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041762.D

Acq: 22 Dec 2020 23:36

Instrument :

MSVOA\_U

ClientSampleId :

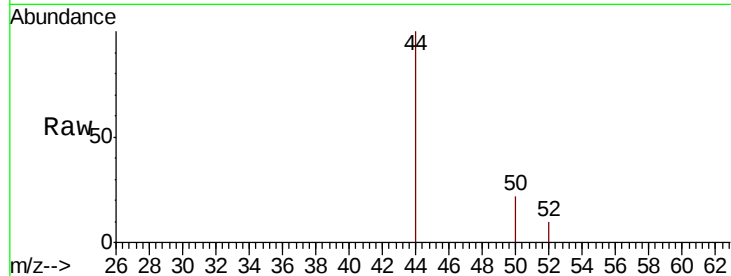
GB244

Tot Ion: 50 Resp: 585

Ion Ratio Lower Upper

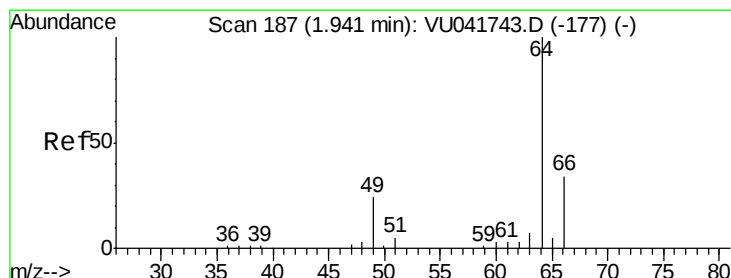
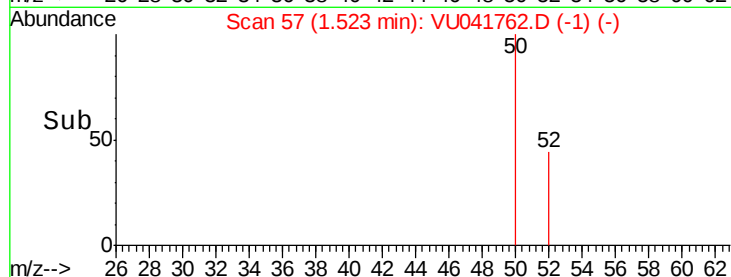
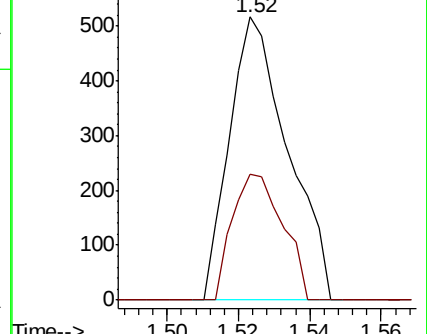
50 100

52 44.5 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: 0.031 ug/L

RT: 1.94 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU041762.D

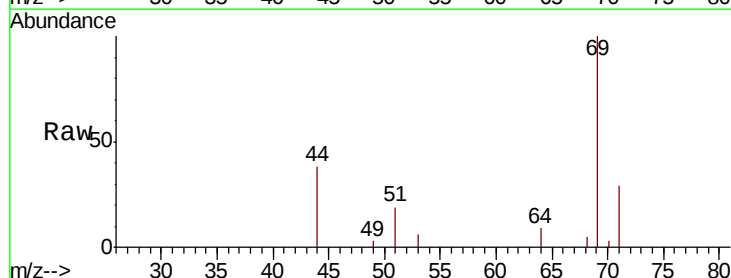
Acq: 22 Dec 2020 23:36

Tgt Ion: 64 Resp: 232

Ion Ratio Lower Upper

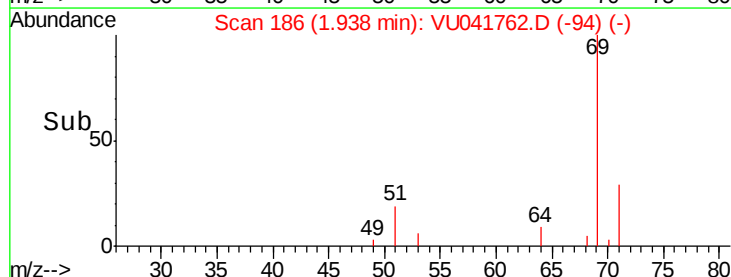
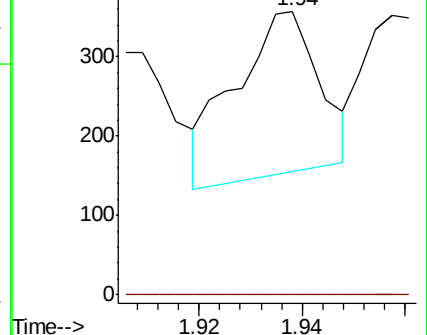
64 100

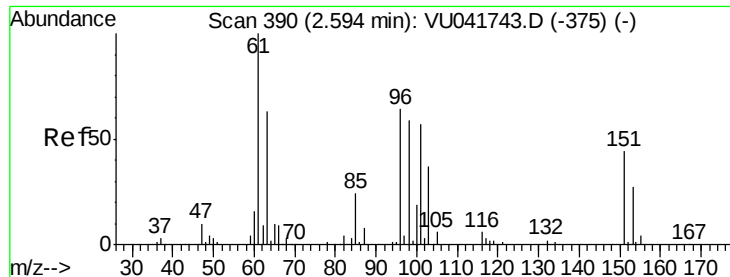
66 0.0 21.6 40.0#



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: 0.073 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.02 min

Lab File: VU041762.D

Acq: 22 Dec 2020 23:36

Instrument :

MSVOA\_U

ClientSampleId :

GB244

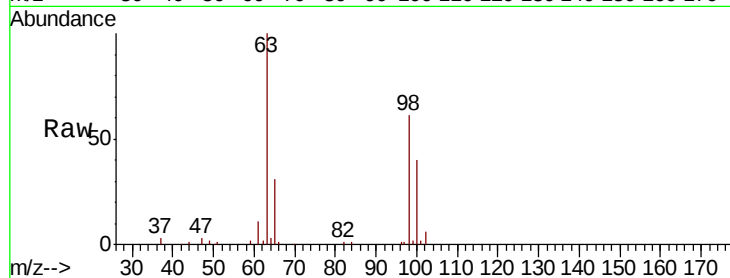
Tot Ion:101 Resp: 616

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

2.58

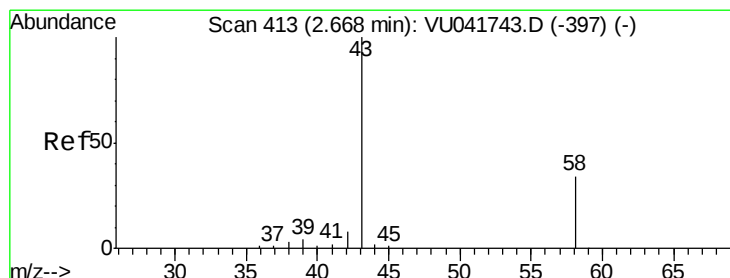
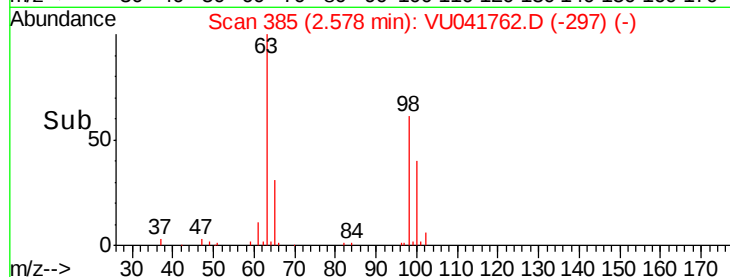
400

200

0

2.54 2.56 2.58 2.60

Time-->



#13

Acetone

Concen: 44.336 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.00 min

Lab File: VU041762.D

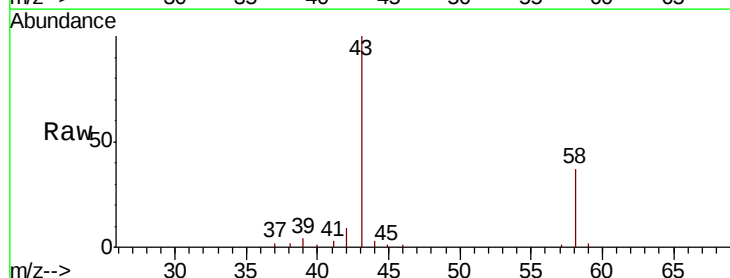
Acq: 22 Dec 2020 23:36

Tgt Ion: 43 Resp: 77659

Ion Ratio Lower Upper

43 100

58 37.3 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

20000

15000

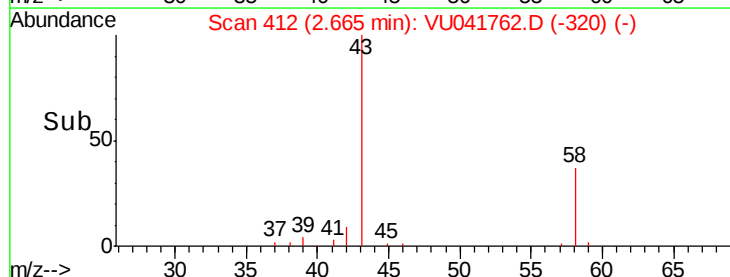
10000

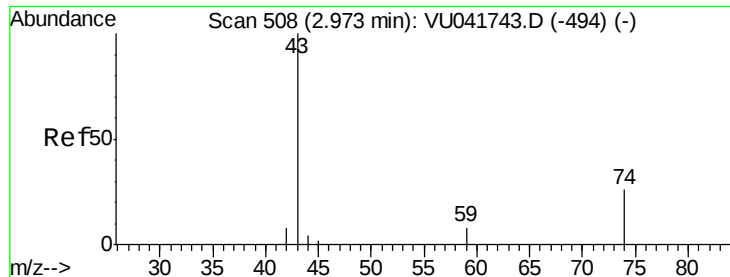
5000

0

2.60 2.70 2.80

Time-->





#15

Methvl Acetate

Concen: 0.153 ug/L

RT: 2.95 min Scan# 500

Delta R.T. -0.03 min

Lab File: VU041762.D

Acq: 22 Dec 2020 23:36

Instrument :

MSVOA\_U

ClientSampleId :

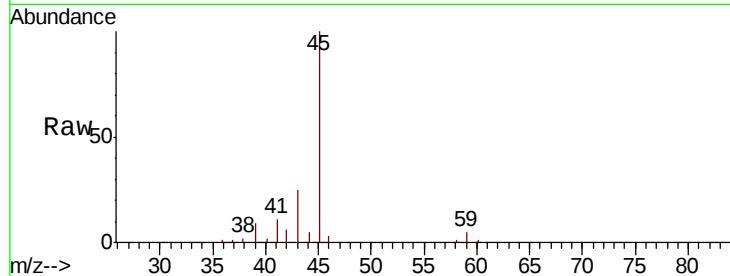
GB244

Tot Ion: 43 Resp: 699

Ion Ratio Lower Upper

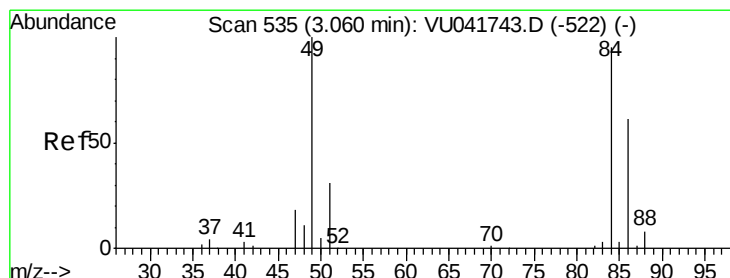
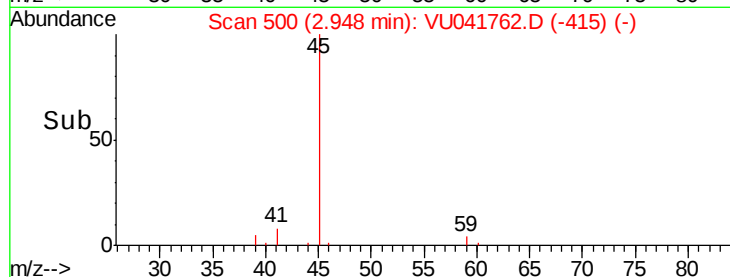
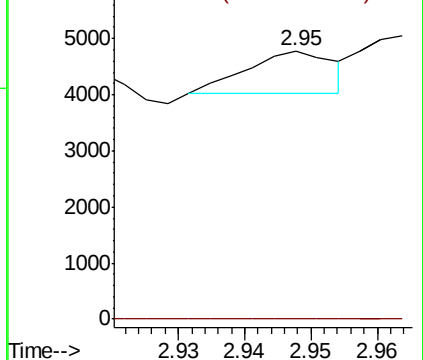
43 100

74 0.0 19.2 28.8#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 0.152 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU041762.D

Acq: 22 Dec 2020 23:36

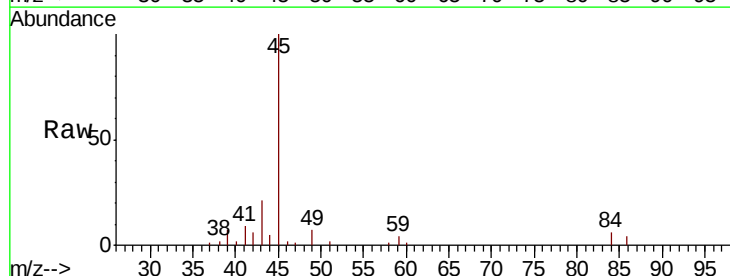
Tgt Ion: 84 Resp: 1510

Ion Ratio Lower Upper

84 100

86 60.5 45.1 83.7

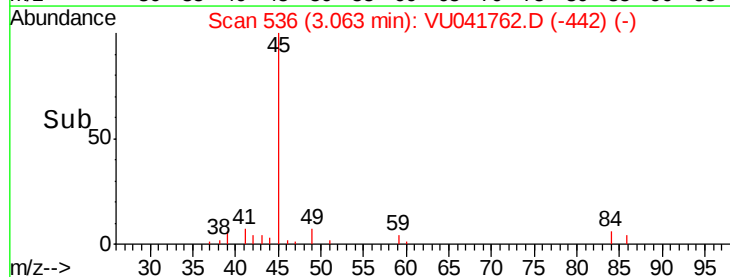
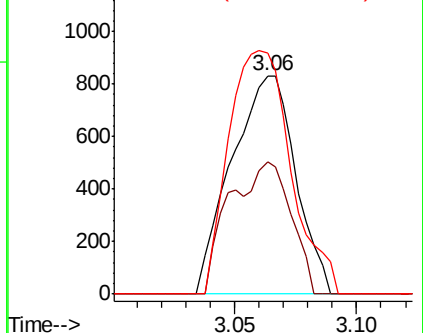
49 110.6 83.1 154.3

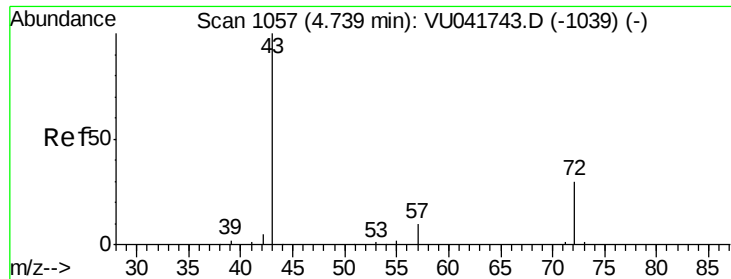


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0





#21

2-Butanone

Concen: 0.749 ug/L

RT: 4.74 min Scan# 1057

Delta R.T. 0.00 min

Lab File: VU041762.D

Acq: 22 Dec 2020 23:36

Instrument :

MSVOA\_U

ClientSampleId :

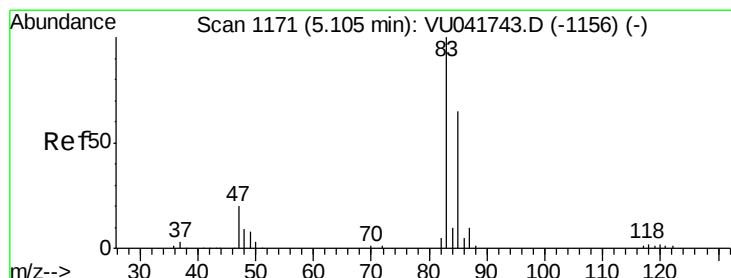
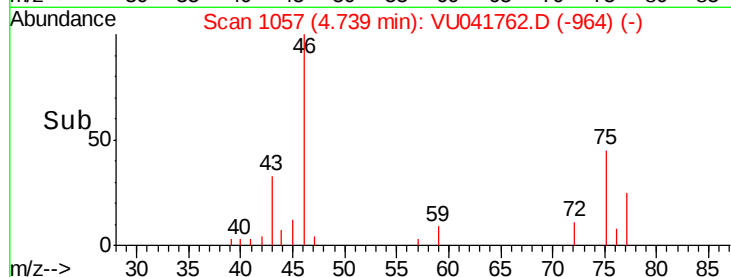
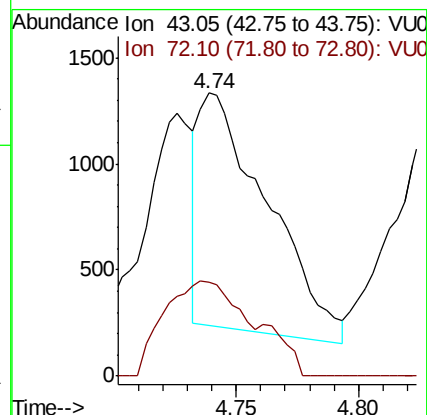
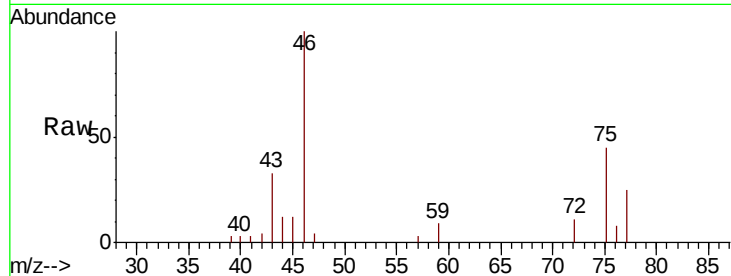
GB244

Tot Ion: 43 Resp: 2137

Ion Ratio Lower Upper

43 100

72 53.7 14.6 44.0#



#25

Chloroform

Concen: 1.960 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VU041762.D

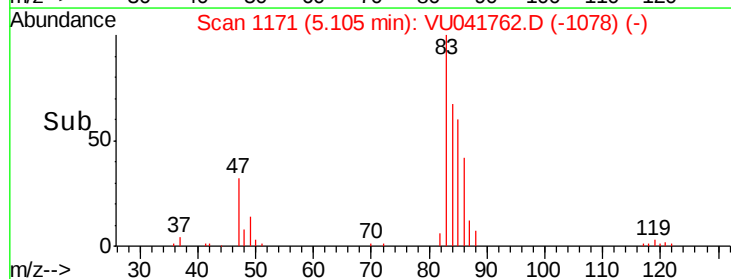
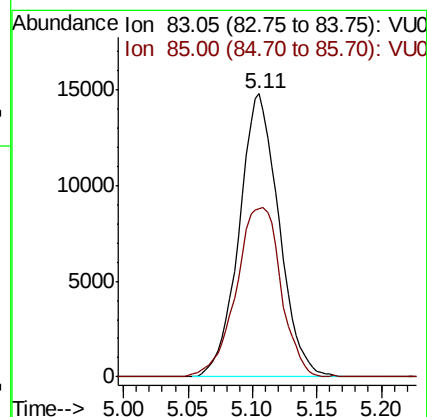
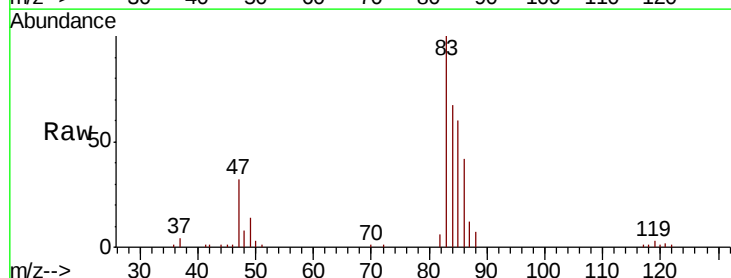
Acq: 22 Dec 2020 23:36

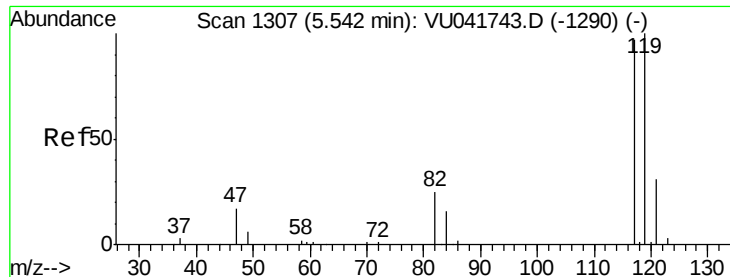
Tgt Ion: 83 Resp: 31739

Ion Ratio Lower Upper

83 100

85 59.6 44.2 82.0



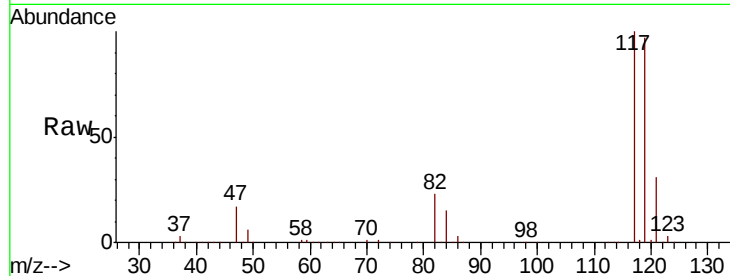


#31

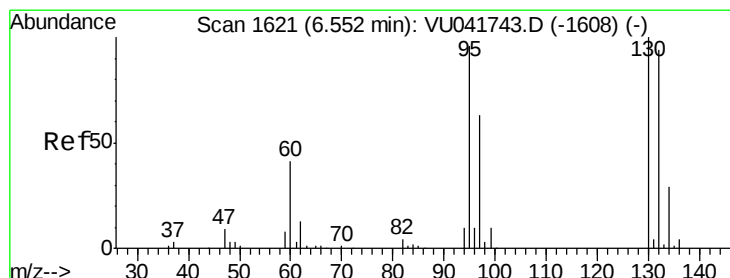
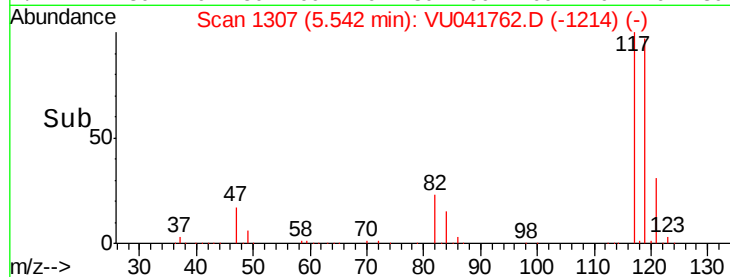
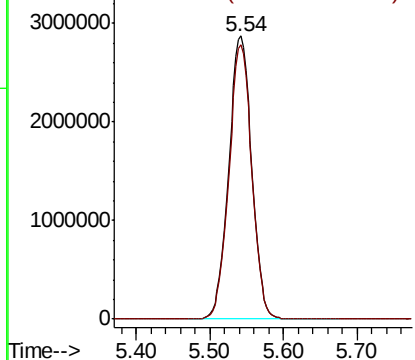
Carbon tetrachloride  
Concen: 522.451 ug/L  
RT: 5.54 min Scan# 1307  
Delta R.T. 0.00 min  
Lab File: VU041762.D  
Acq: 22 Dec 2020 23:36

Instrument :  
MSVOA\_U  
ClientSampleId :  
GB244

Tot Ion:117 Resp: 6215387  
Ion Ratio Lower Upper  
117 100  
119 96.4 76.2 114.2



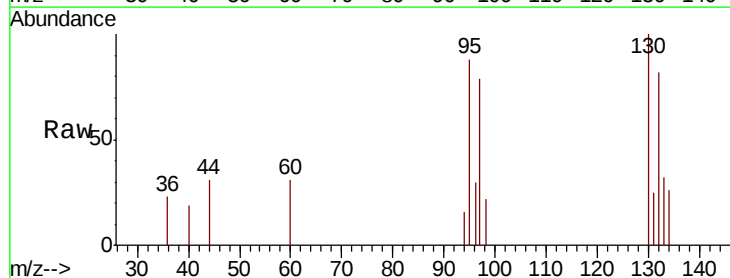
Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 118.90 (118.60 to 119.60): V



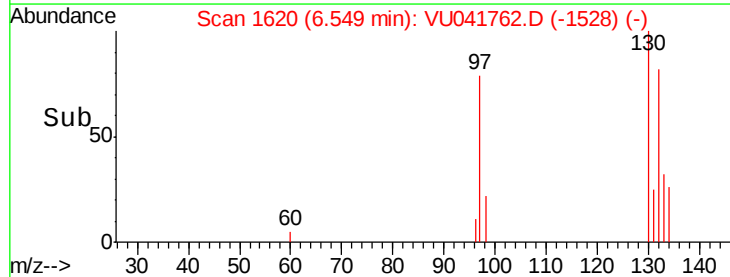
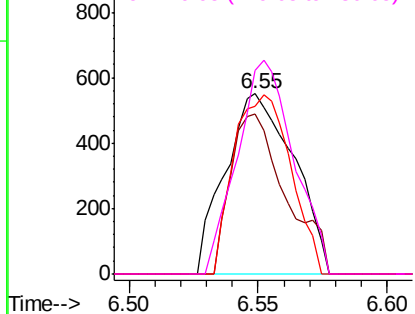
#34

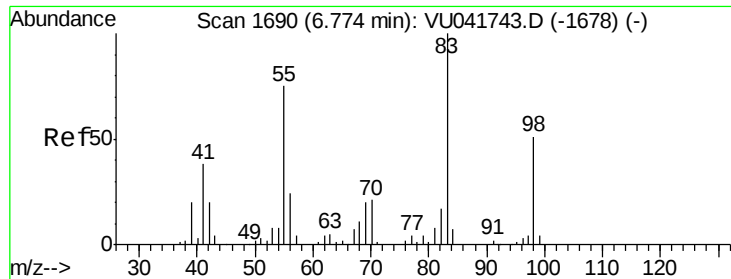
Trichloroethene  
Concen: 0.106 ug/L  
RT: 6.55 min Scan# 1620  
Delta R.T. -0.00 min  
Lab File: VU041762.D  
Acq: 22 Dec 2020 23:36

Tgt Ion: 95 Resp: 1020  
Ion Ratio Lower Upper  
95 100  
97 89.3 43.9 81.5#  
132 93.3 63.1 117.3  
130 113.1 67.4 125.2



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

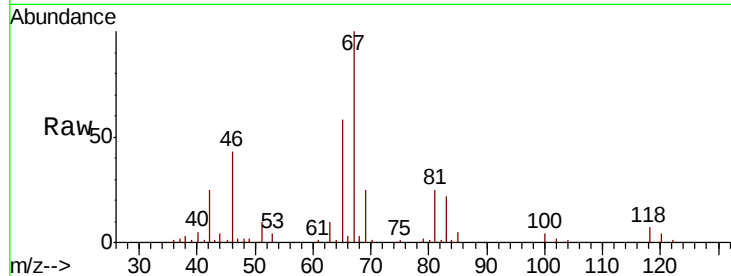




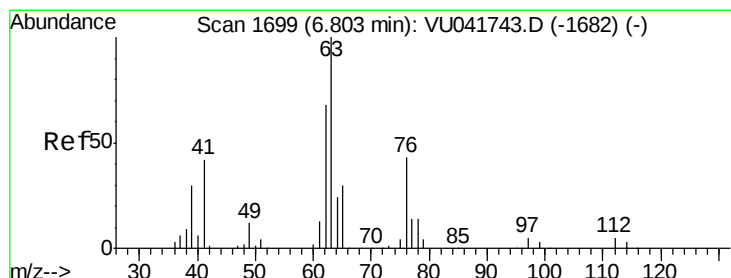
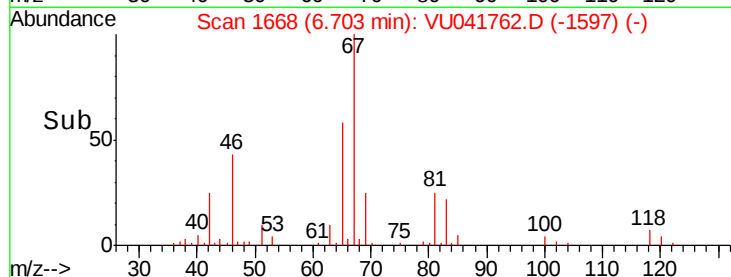
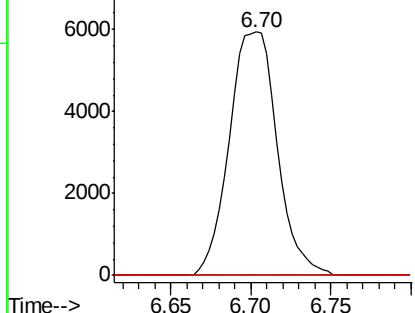
#35  
Methylcyclohexane  
Concen: 0.780 ug/L  
RT: 6.70 min Scan# 1668  
Delta R.T. -0.07 min  
Lab File: VU041762.D  
Acq: 22 Dec 2020 23:36

Instrument :  
MSVOA\_U  
ClientSampleId :  
GB244

| Tot Ion   | 83.15 | Resp  | 12138 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 55        | 0.0   | 61.2  | 91.8# |
| 98        | 2.8   | 36.6  | 54.8# |

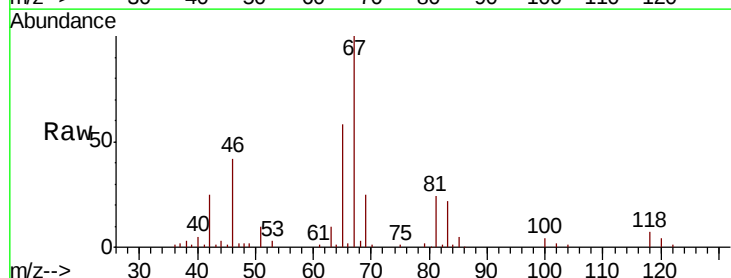


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

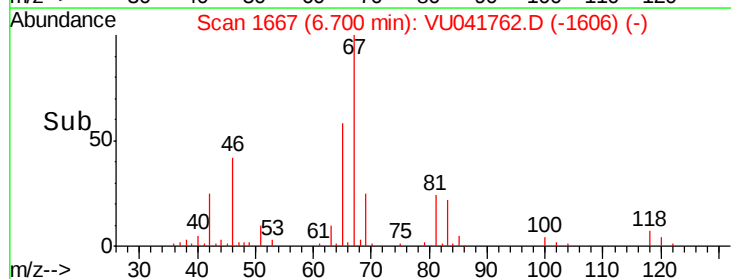
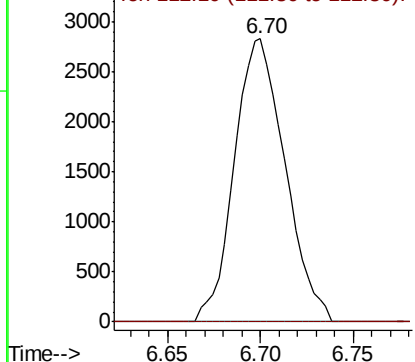


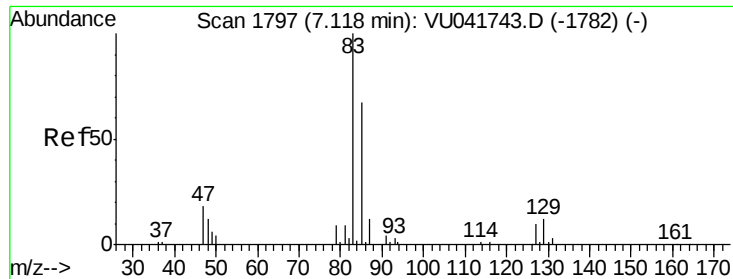
#37  
1,2-Dichloropropane  
Concen: 0.547 ug/L  
RT: 6.70 min Scan# 1667  
Delta R.T. -0.10 min  
Lab File: VU041762.D  
Acq: 22 Dec 2020 23:36

| Tgt Ion   | 63.10 | Resp  | 5357 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 63        | 100   |       |      |
| 112       | 0.0   | 3.1   | 4.7# |



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





#38

Bromodichloromethane

Concen: 0.077 ug/L

RT: 7.11 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VU041762.D

Acq: 22 Dec 2020 23:36

Instrument :

MSVOA\_U

ClientSampleId :

GB244

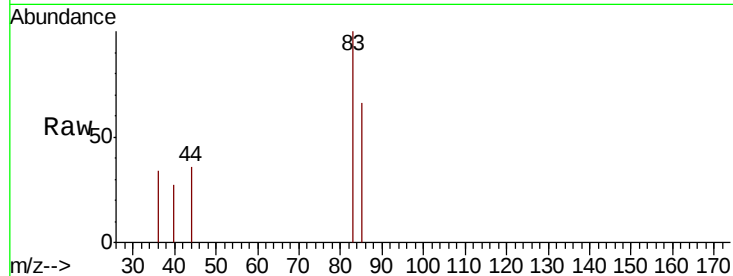
Tot Ion: 83 Resp: 943

Ion Ratio Lower Upper

83 100

85 65.9 45.5 84.5

127 0.0 7.0 10.6#

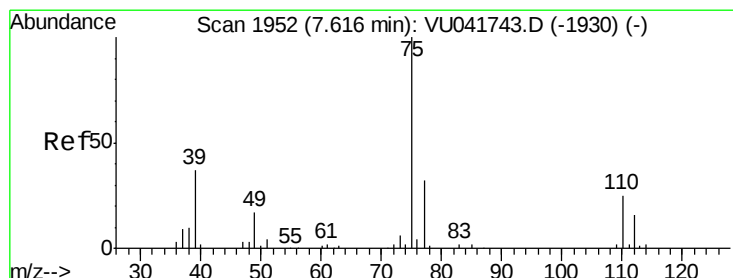
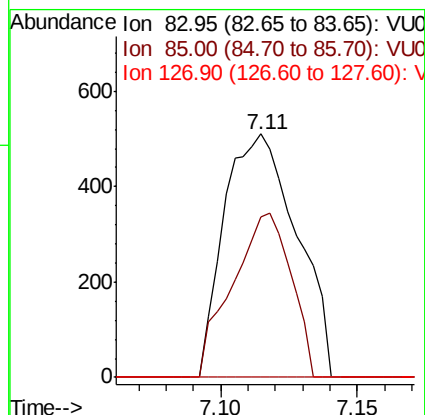
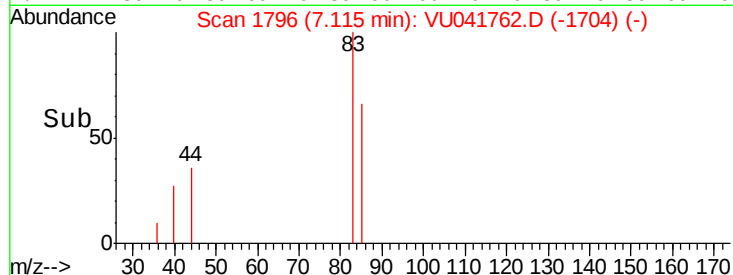


Abundance Ion 82.95 (82.65 to 83.65): VU041743.D (-1782) (-)

Ion 85.00 (84.70 to 85.70): VU041743.D (-1782) (-)

Ion 126.90 (126.60 to 127.60): VU041743.D (-1782) (-)

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.078 ug/L

RT: 7.57 min Scan# 1938

Delta R.T. -0.05 min

Lab File: VU041762.D

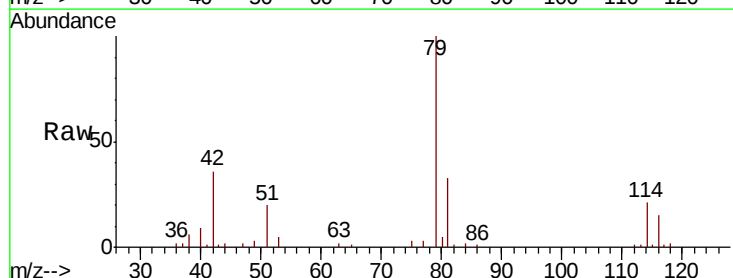
Acq: 22 Dec 2020 23:36

Tgt Ion: 75 Resp: 1132

Ion Ratio Lower Upper

75 100

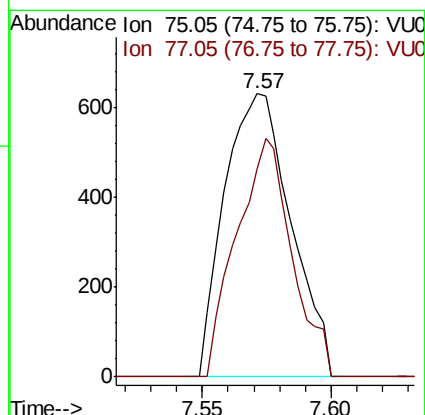
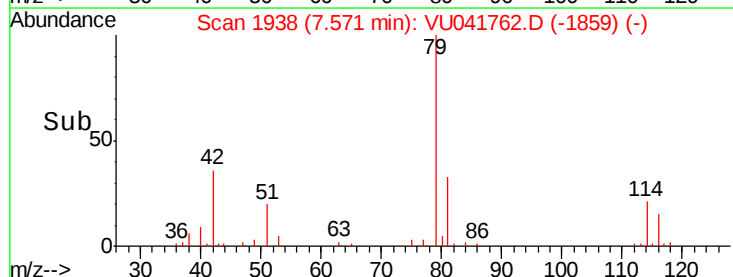
77 73.5 22.3 41.3#

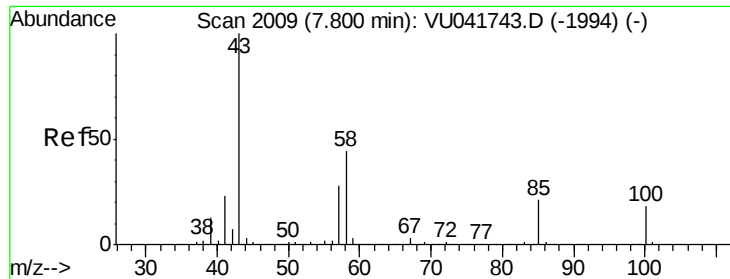


Abundance Ion 75.05 (74.75 to 75.75): VU041743.D (-1930) (-)

Ion 77.05 (76.75 to 77.75): VU041743.D (-1930) (-)

Time-->

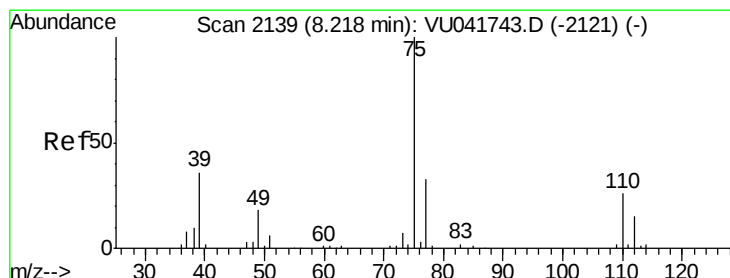
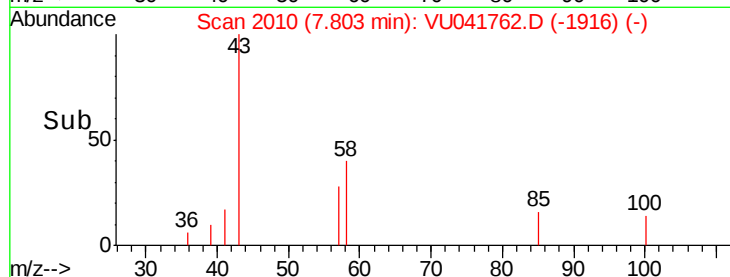
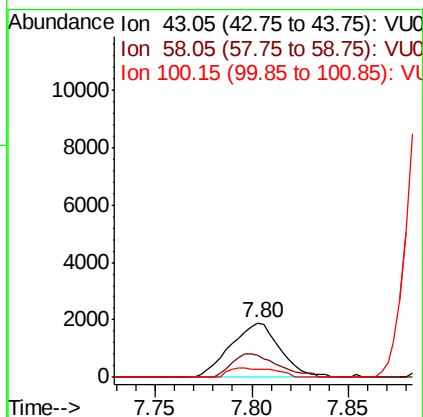
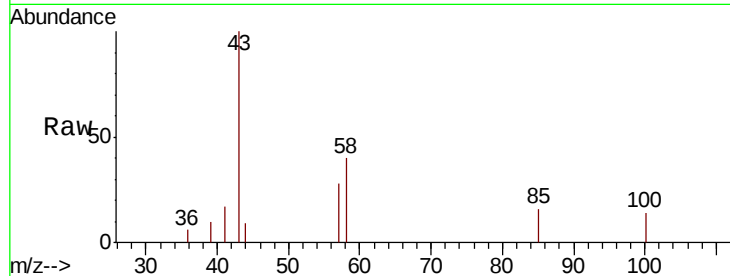




#40  
4-Methyl-2-pentanone  
Concen: 0.485 ug/L  
RT: 7.80 min Scan# 2010  
Delta R.T. 0.00 min  
Lab File: VU041762.D  
Acq: 22 Dec 2020 23:36

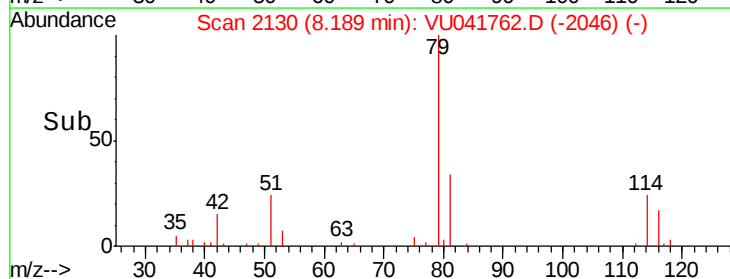
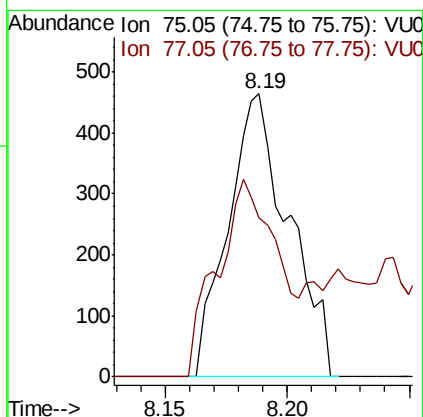
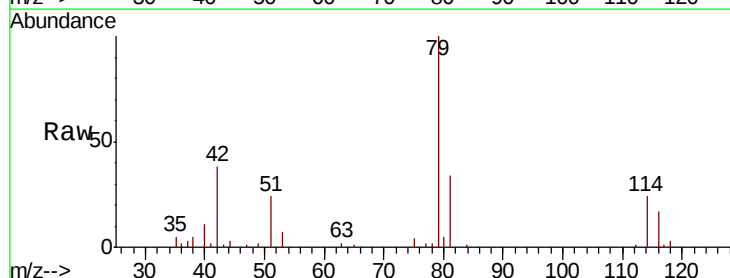
Instrument :  
MSVOA\_U  
ClientSampled :  
GB244

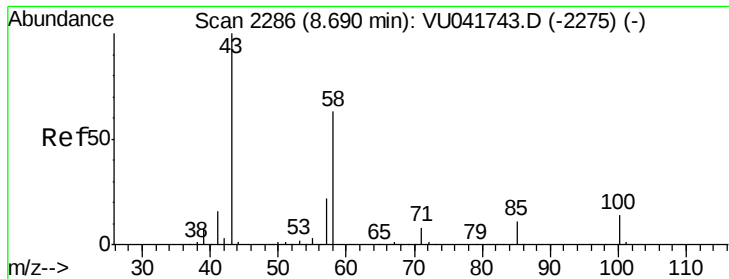
Tot Ion: 43 Resp: 3381  
Ion Ratio Lower Upper  
43 100  
58 40.2 34.2 51.2  
100 0.0 12.3 18.5#



#44  
trans-1,3-Dichloropropene  
Concen: 0.062 ug/L  
RT: 8.19 min Scan# 2130  
Delta R.T. -0.03 min  
Lab File: VU041762.D  
Acq: 22 Dec 2020 23:36

Tgt Ion: 75 Resp: 800  
Ion Ratio Lower Upper  
75 100  
77 56.5 23.8 44.2#

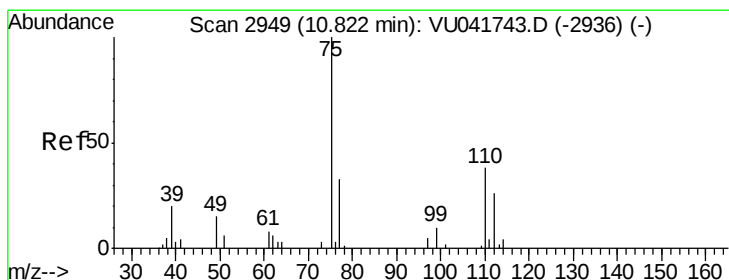
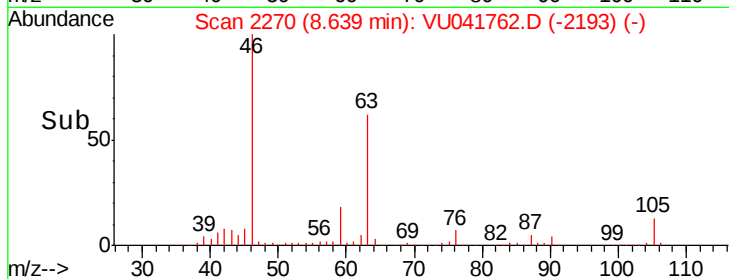
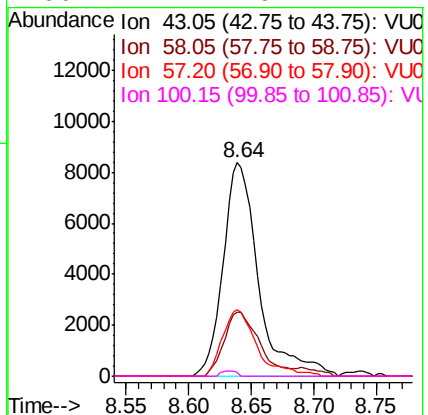
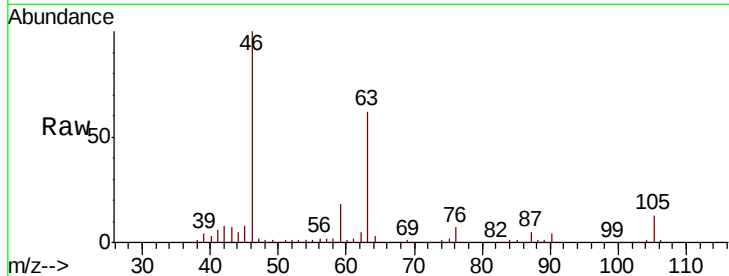




#48  
2-Hexanone  
Concen: 3.248 ug/L  
RT: 8.64 min Scan# 2270  
Delta R.T. -0.05 min  
Lab File: VU041762.D  
Acq: 22 Dec 2020 23:36

Instrument :  
MSVOA\_U  
ClientSampleId :  
GB244

Tot Ion: 43 Resp: 16484  
Ion Ratio Lower Upper  
43 100  
58 29.9 47.9 71.9#  
57 30.2 16.5 24.7#  
100 1.1 9.4 14.2#



#59  
1,2,3-Trichloropropane  
Concen: 0.795 ug/L  
RT: 11.81 min Scan# 3255  
Delta R.T. 0.98 min  
Lab File: VU041762.D  
Acq: 22 Dec 2020 23:36

Tgt Ion: 75 Resp: 5855  
Ion Ratio Lower Upper  
75 100  
77 33.5 26.2 39.2

