

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060420\  
 Data File : VU038534.D  
 Acq On : 03 Jun 2020 23:12  
 Operator : SY/MD  
 Sample : L2872-08  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFEPO

Quant Time: Jun 04 01:52:16 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR053120WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Jun 04 01:48:03 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 284401   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 287815   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 137131   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 52980    | 2.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 57.60%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 57239    | 4.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 81.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 94778    | 2.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 52.40%# |
| 20) 2-Butanone-d5              | 4.67   | 46    | 348686   | 62.36    | ug/L | -0.01   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 124.72% |
| 24) Chloroform-d               | 5.10   | 84    | 169878   | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 106359   | 5.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 108.40% |
| 32) Benzene-d6                 | 5.76   | 84    | 327680   | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 108243   | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 98.00%  |
| 41) Toluene-d8                 | 7.92   | 98    | 270032   | 4.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 83.80%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 42801    | 4.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 90.00%  |
| 46) 2-Hexanone-d5              | 8.65   | 63    | 296008   | 63.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 126.16% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 104058   | 5.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 111.00% |
| 64) 1,2-Dichlorobenzene-d4     | 12.20  | 152   | 122147   | 5.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 103.20% |

## Target Compounds

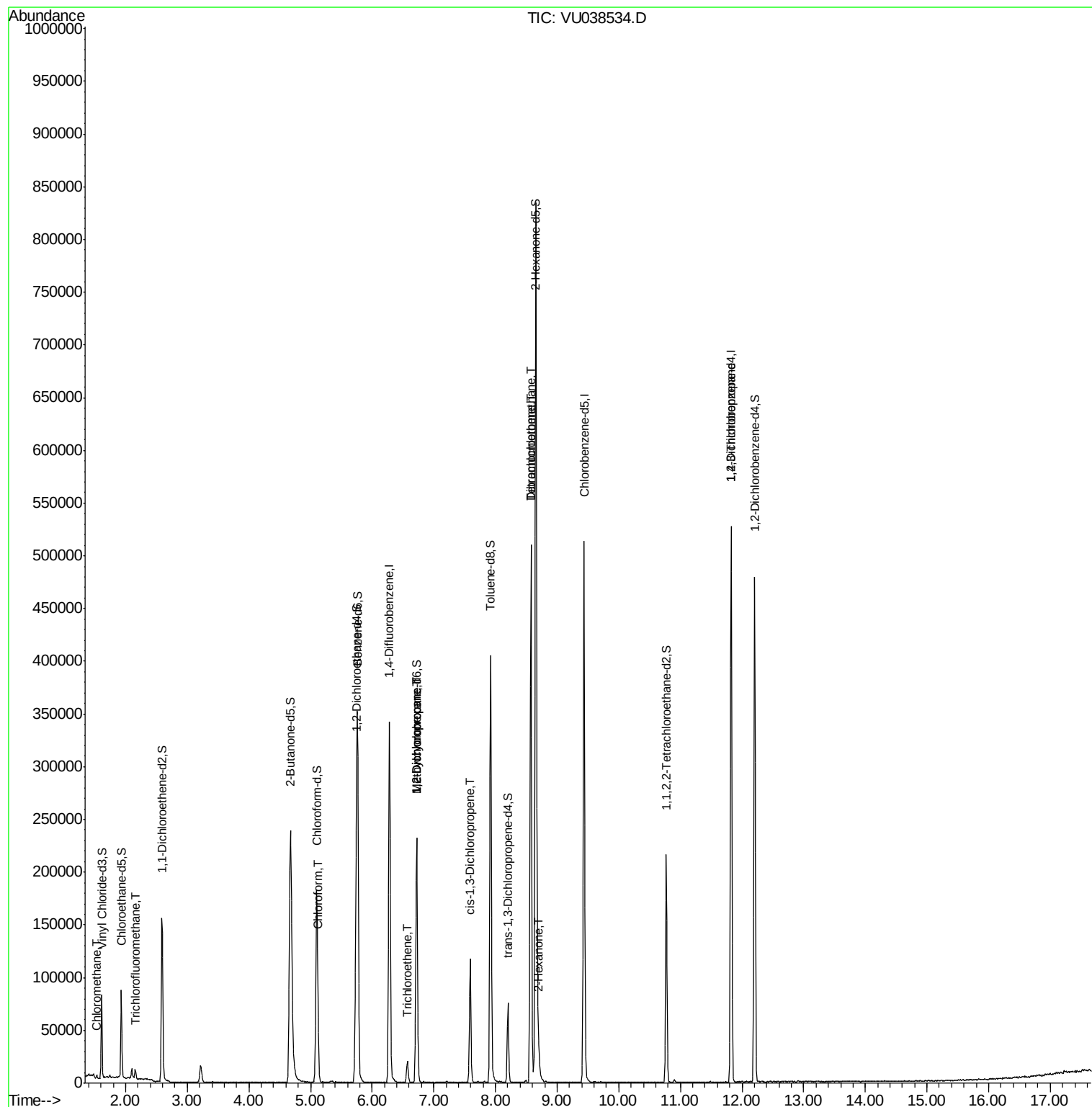
| Target Compounds            | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-----------------------------|-------|------|----------|-------|--------|--------|
| 3) Chloromethane            | 1.53  | 50   | 2060     | 0.100 | ug/L   | 89     |
| 9) Trichlorofluoromethane   | 2.16  | 101  | 5287     | 0.181 | ug/L   | 97     |
| 25) Chloroform              | 5.13  | 83   | 6115     | 0.178 | ug/L   | 98     |
| 34) Trichloroethene         | 6.57  | 95   | 5832     | 0.280 | ug/L   | 92     |
| 35) Methylcyclohexane       | 6.72  | 83   | 25791    | 0.800 | ug/L # | 18     |
| 37) 1,2-Dichloropropane     | 6.72  | 63   | 12173    | 0.603 | ug/L # | 86     |
| 39) cis-1,3-Dichloropropene | 7.59  | 75   | 2464     | 0.083 | ug/L # | 44     |
| 47) Tetrachloroethene       | 8.57  | 164  | 112252   | 7.417 | ug/L   | 91     |
| 48) 2-Hexanone              | 8.71  | 43   | 12043    | 1.101 | ug/L # | 97     |
| 49) Dibromochloromethane    | 8.57  | 129  | 110398   | 6.713 | ug/L # | 11     |
| 59) 1,2,3-Trichloropropane  | 11.82 | 75   | 17077    | 1.133 | ug/L   | 90     |

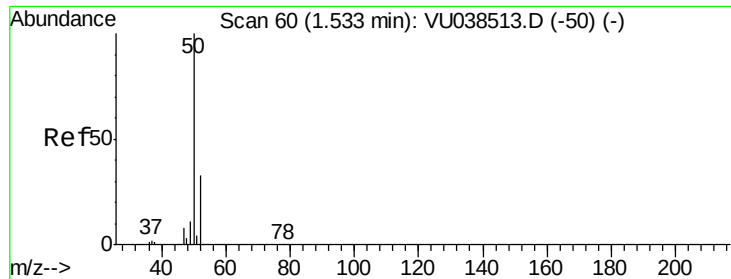
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU060420\  
Data File : VU038534.D  
Acq On : 03 Jun 2020 23:12  
Operator : SY/MD  
Sample : L2872-08  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFEP0

Quant Time: Jun 04 01:52:16 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR053120WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Jun 04 01:48:03 2020  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.100 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU038534.D

Acq: 03 Jun 2020 23:12

Instrument :

MSVOA\_U

ClientSampleId :

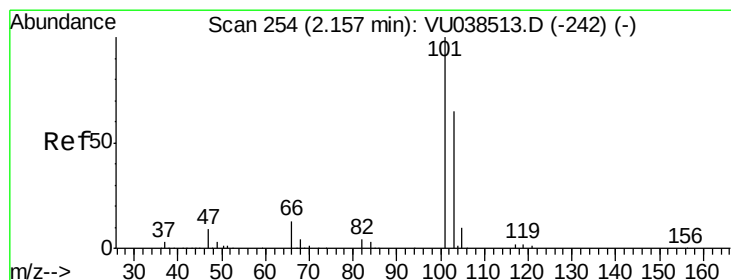
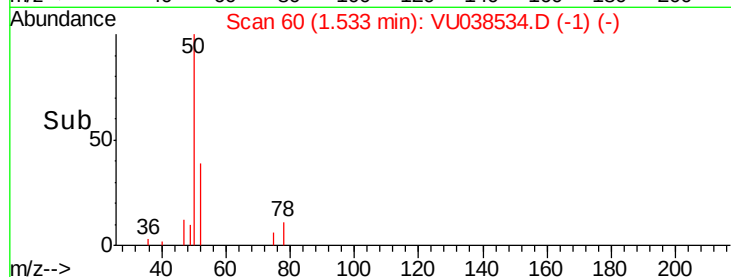
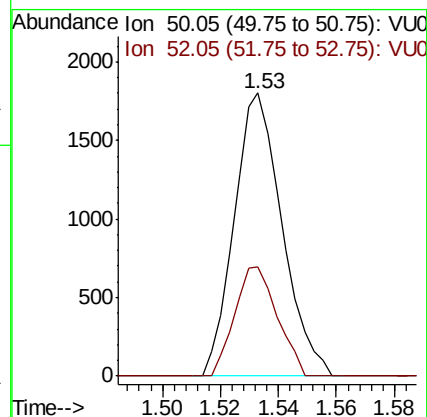
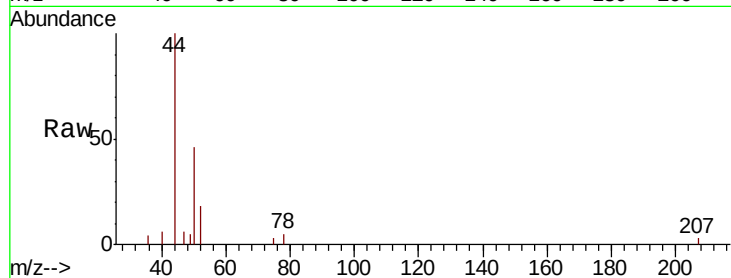
BFEP0

Tot Ion: 50 Resp: 2060

Ion Ratio Lower Upper

50 100

52 38.7 22.9 42.5



#9

Trichlorofluoromethane

Concen: 0.181 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU038534.D

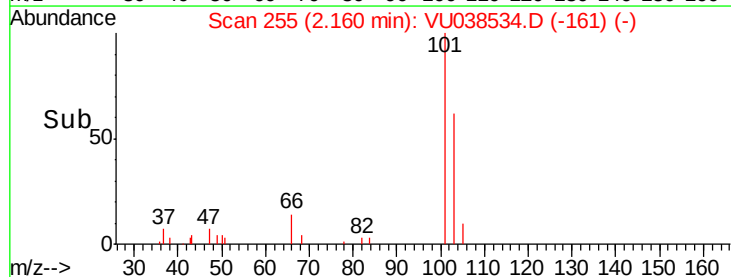
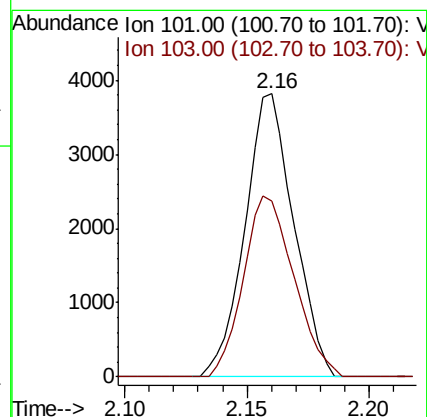
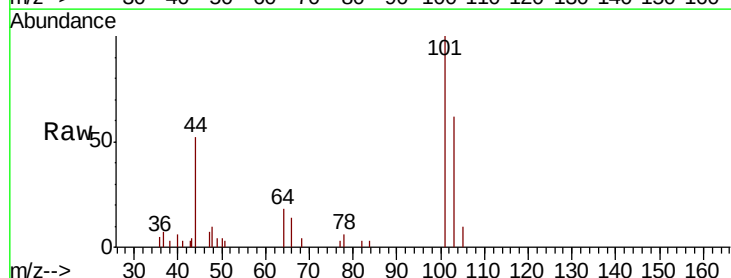
Acq: 03 Jun 2020 23:12

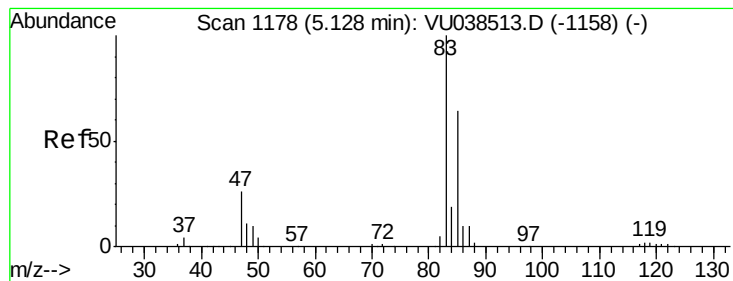
Tgt Ion: 101 Resp: 5287

Ion Ratio Lower Upper

101 100

103 66.3 51.1 76.7





#25

Chloroform

Concen: 0.178 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VU038534.D

Acq: 03 Jun 2020 23:12

Instrument :

MSVOA\_U

ClientSampleId :

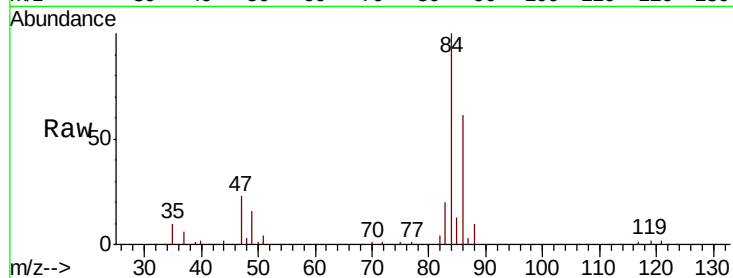
BFEP0

Tot Ion: 83 Resp: 6115

Ion Ratio Lower Upper

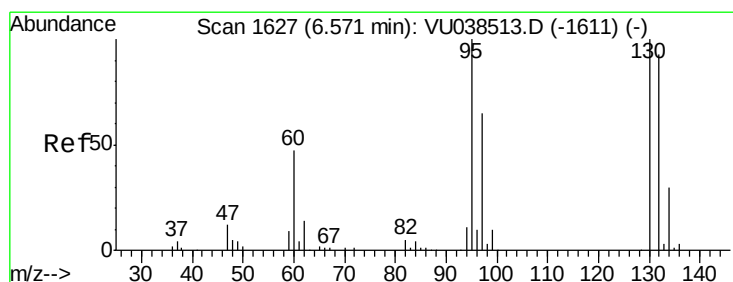
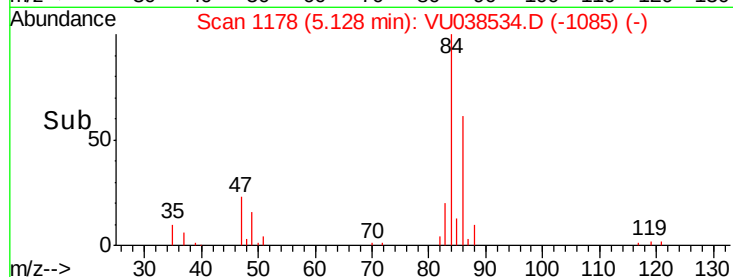
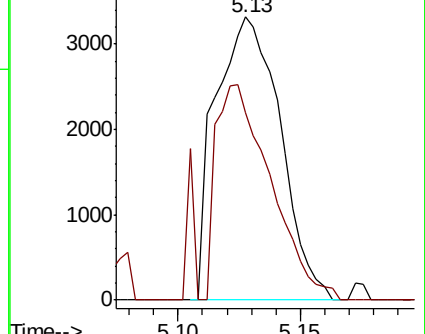
83 100

85 66.1 44.9 83.5



Abundance Ion 83.05 (82.75 to 83.75): VU038513.D (-1158) (-)

Ion 85.00 (84.70 to 85.70): VU038513.D (-1158) (-)



#34

Trichloroethene

Concen: 0.280 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU038534.D

Acq: 03 Jun 2020 23:12

Tgt Ion: 95 Resp: 5832

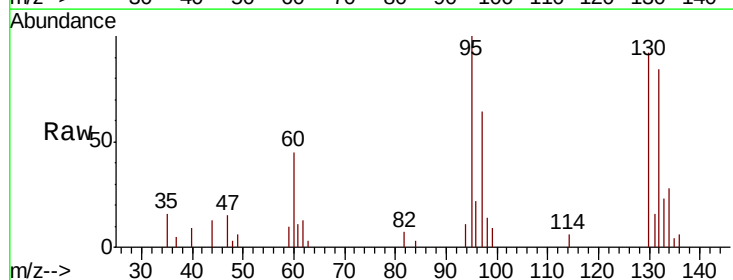
Ion Ratio Lower Upper

95 100

97 63.9 46.8 87.0

132 84.4 66.1 122.7

130 91.8 70.0 130.0

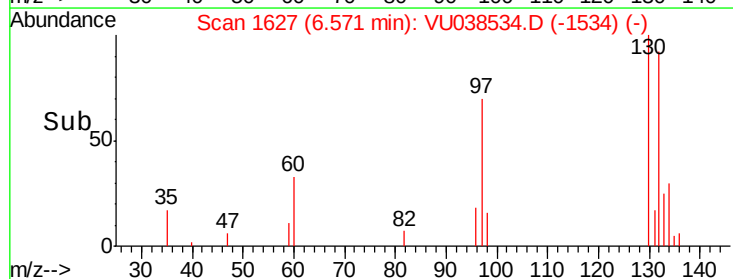
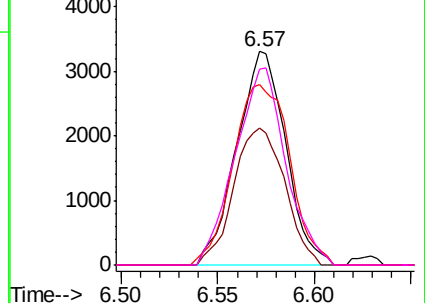


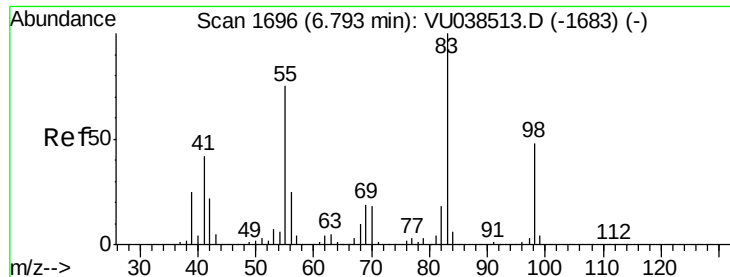
Abundance Ion 95.00 (94.70 to 95.70): VU038513.D (-1611) (-)

Ion 96.95 (96.65 to 97.65): VU038513.D (-1611) (-)

Ion 131.95 (131.65 to 132.65): VU038513.D (-1611) (-)

Ion 129.95 (129.65 to 130.65): VU038513.D (-1611) (-)

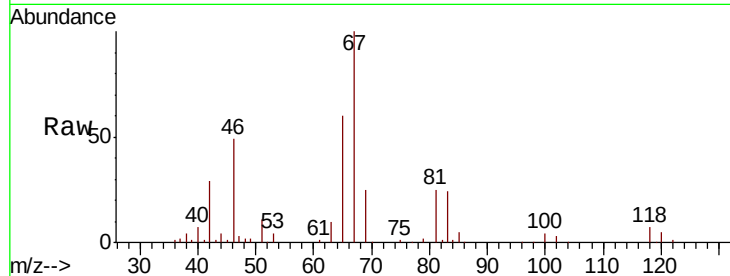




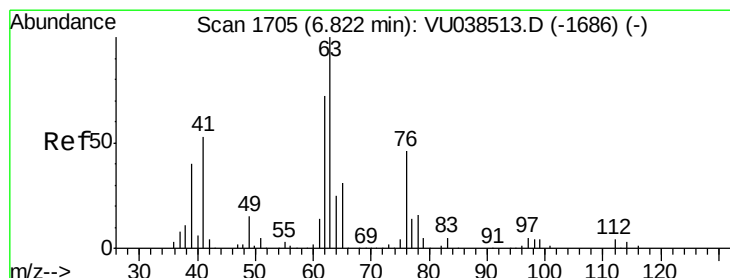
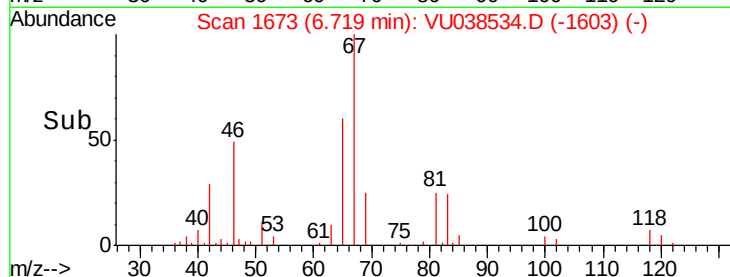
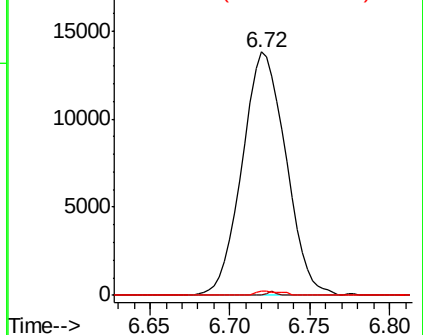
#35  
Methylvlcyclohexane  
Concen: 0.800 ug/L  
RT: 6.72 min Scan# 1673  
Delta R.T. -0.07 min  
Lab File: VU038534.D  
Acq: 03 Jun 2020 23:12

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFEP0

Tot Ion: 83 Resp: 25791  
Ion Ratio Lower Upper  
83 100  
55 0.4 63.4 95.2#  
98 1.0 39.0 58.4#

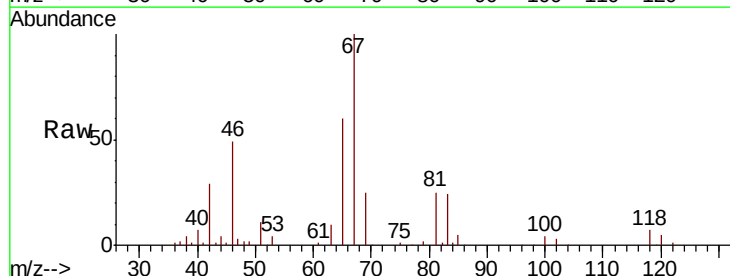


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

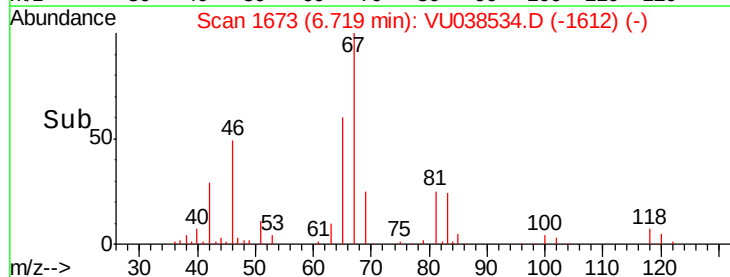
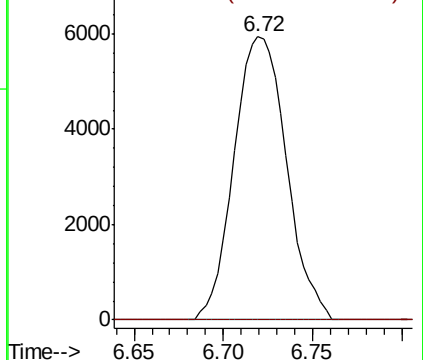


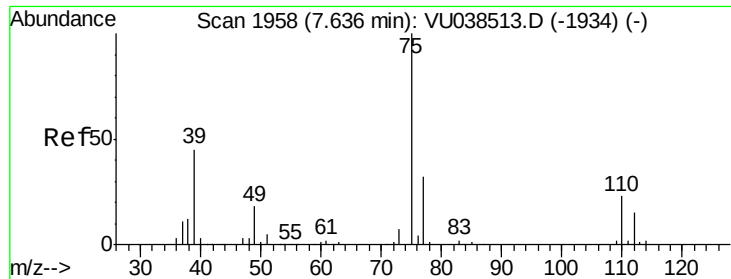
#37  
1,2-Dichloropropane  
Concen: 0.603 ug/L  
RT: 6.72 min Scan# 1673  
Delta R.T. -0.10 min  
Lab File: VU038534.D  
Acq: 03 Jun 2020 23:12

Tgt Ion: 63 Resp: 12173  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.7 5.5#



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

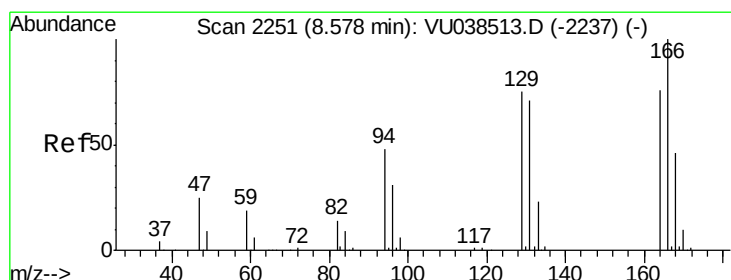
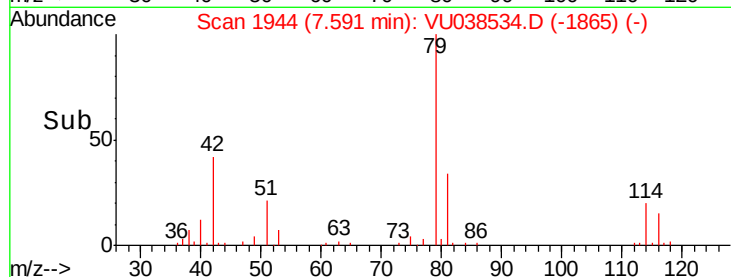
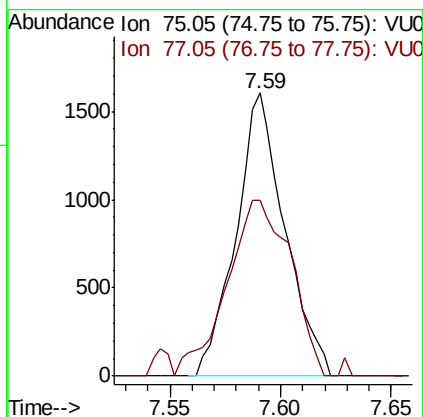
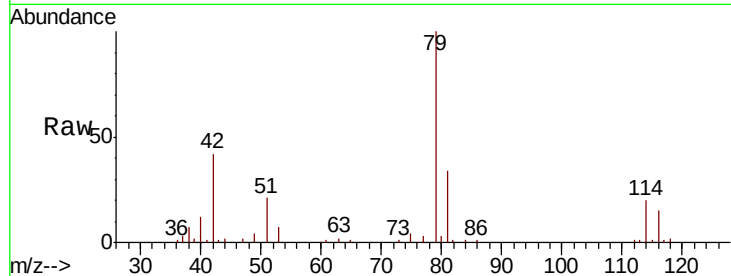




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.083 ug/L  
 RT: 7.59 min Scan# 1944  
 Delta R.T. -0.05 min  
 Lab File: VU038534.D  
 Acq: 03 Jun 2020 23:12

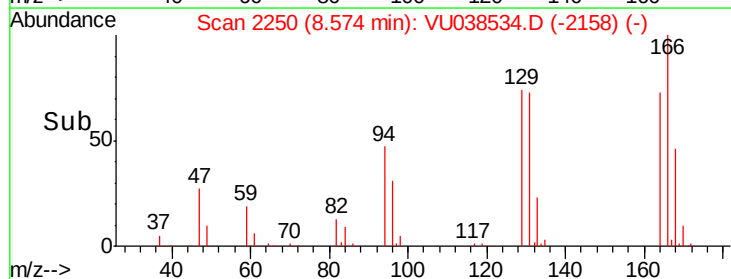
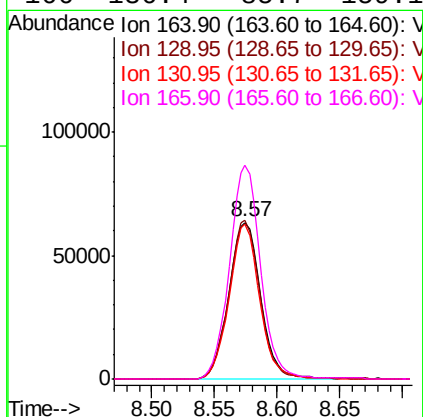
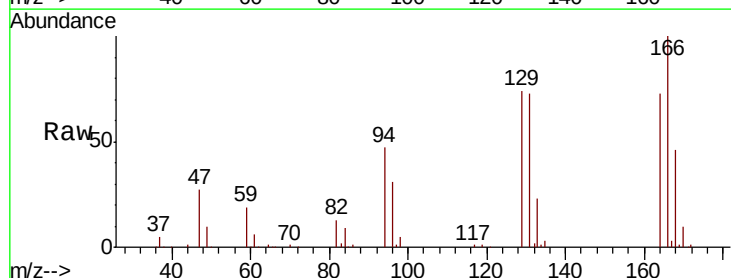
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFEP0

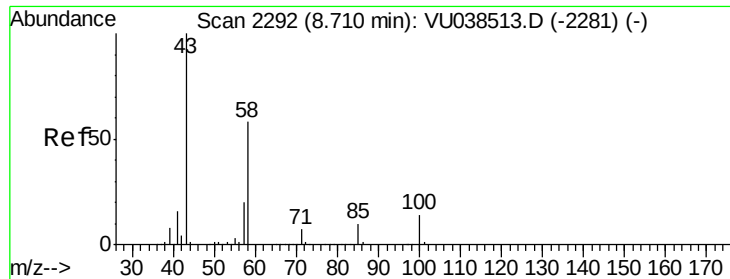
Tot Ion: 75 Resp: 2464  
 Ion Ratio Lower Upper  
 75 100  
 77 62.2 21.9 40.7#



#47  
 Tetrachloroethene  
 Concen: 7.417 ug/L  
 RT: 8.57 min Scan# 2250  
 Delta R.T. -0.00 min  
 Lab File: VU038534.D  
 Acq: 03 Jun 2020 23:12

Tgt Ion:164 Resp: 112252  
 Ion Ratio Lower Upper  
 164 100  
 129 101.2 67.4 125.2  
 131 99.0 64.1 119.1  
 166 136.4 85.7 159.1

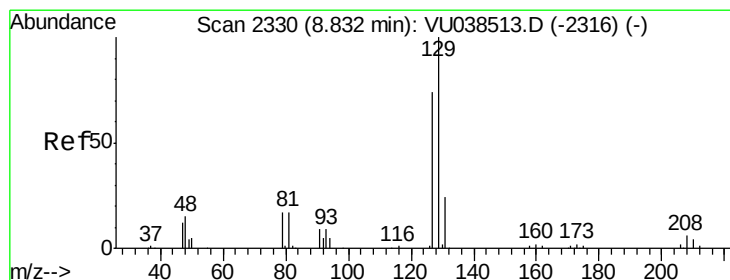
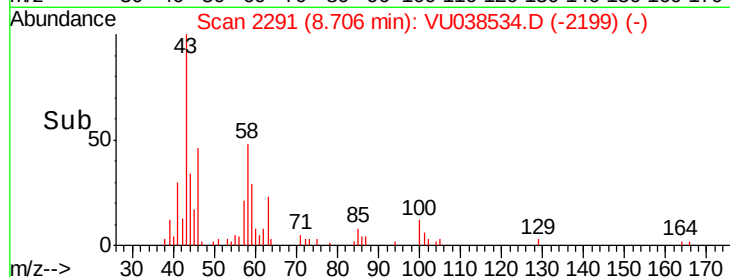
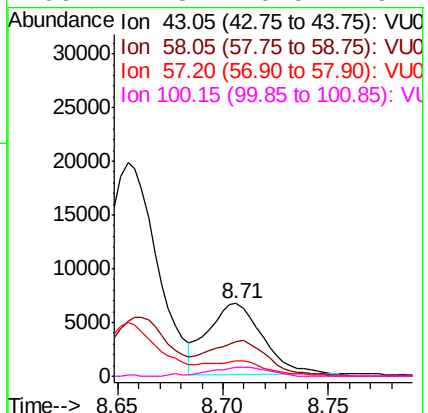
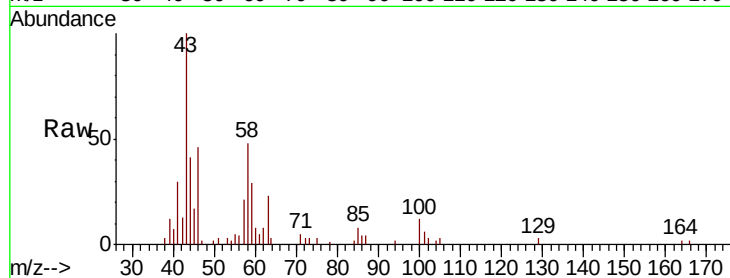




#48  
2-Hexanone  
Concen: 1.101 ug/L  
RT: 8.71 min Scan# 2291  
Delta R.T. -0.00 min  
Lab File: VU038534.D  
Acq: 03 Jun 2020 23:12

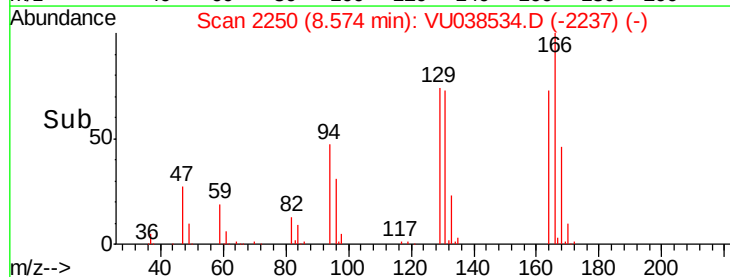
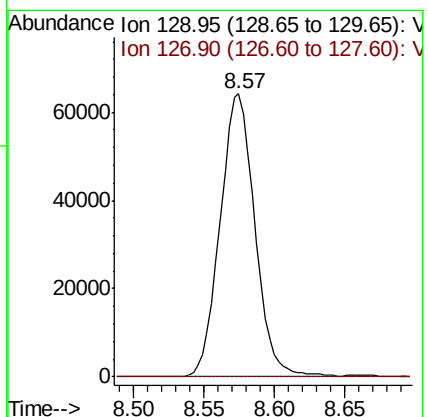
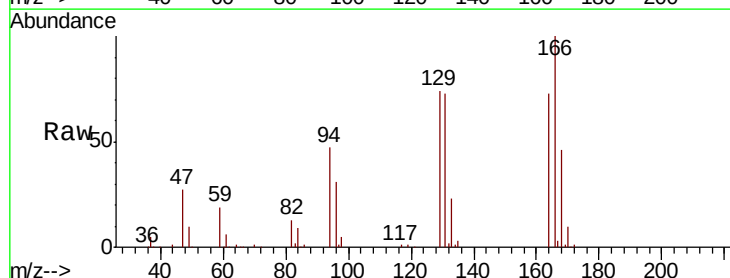
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFEP0

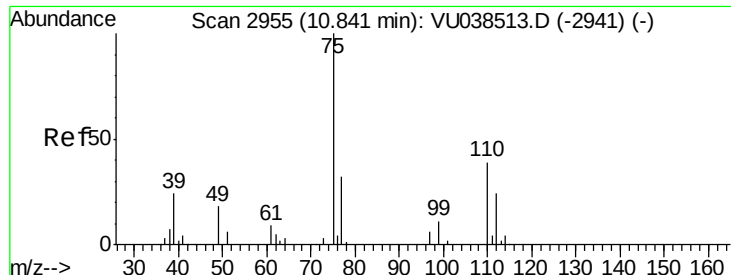
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 55.7  | 45.4  | 68.0  |
| 57      | 15.3  | 15.9  | 23.9# |
| 100     | 12.8  | 10.5  | 15.7  |



#49  
Dibromochloromethane  
Concen: 6.713 ug/L  
RT: 8.57 min Scan# 2250  
Delta R.T. -0.26 min  
Lab File: VU038534.D  
Acq: 03 Jun 2020 23:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 0.0   | 53.3  | 99.1# |





#59

1,2,3-Trichloropropane

Concen: 1.133 ug/L

RT: 11.82 min Scan# 3260

Delta R.T. 0.98 min

Lab File: VU038534.D

Acq: 03 Jun 2020 23:12

Instrument :

MSVOA\_U

ClientSampleId :

BFEP0

Tot Ion: 75 Resp: 17077

Ion Ratio Lower Upper

75 100

77 37.6 25.4 38.2

