

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U061320\  
 Data File : VU038861.D  
 Acq On : 12 Jun 2020 19:00  
 Operator : SY/MD  
 Sample : L2990-07  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jun 13 01:00:23 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR061220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Jun 13 00:56:28 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 272775   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 270691   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.82 | 152  | 125834   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 92931    | 6.25     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 125.00%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 75263    | 6.30     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 126.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 152597   | 4.51     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 90.20%   |
| 20) 2-Butanone-d5              | 4.67   | 46    | 288726   | 61.88    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 123.76%  |
| 24) Chloroform-d               | 5.10   | 84    | 181678   | 5.52     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 110.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 107690   | 5.79     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 115.80%  |
| 32) Benzene-d6                 | 5.76   | 84    | 362270   | 5.73     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 114.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 109429   | 5.78     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 115.60%  |
| 41) Toluene-d8                 | 7.92   | 98    | 302132   | 5.21     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 104.20%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 44008    | 5.23     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 104.60%  |
| 46) 2-Hexanone-d5              | 8.65   | 63    | 247913   | 66.39    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 132.78%# |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 95896    | 5.79     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 115.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.20  | 152   | 121802   | 5.95     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 119.00%  |

## Target Compounds

|                              |       |     |        |              | Ovalue |
|------------------------------|-------|-----|--------|--------------|--------|
| 8) Chloroethane              | 1.75  | 64  | 15745  | 1.095 ug/L # | 52     |
| 12) 1,1-Dichloroethene       | 2.61  | 96  | 18057  | 0.945 ug/L # | 1      |
| 18) trans-1,2-Dichloroethene | 3.39  | 96  | 3273   | 0.160 ug/L   | 98     |
| 19) 1,1-Dichloroethane       | 3.91  | 63  | 231424 | 6.269 ug/L   | 98     |
| 22) cis-1,2-Dichloroethene   | 4.70  | 96  | 28723  | 1.344 ug/L   | 96     |
| 29) 1,1,1-Trichloroethane    | 5.35  | 97  | 184135 | 5.512 ug/L   | 100    |
| 31) Carbon tetrachloride     | 5.36  | 117 | 23001  | 0.816 ug/L   | 96     |
| 34) Trichloroethene          | 6.57  | 95  | 29397  | 1.376 ug/L   | 96     |
| 35) Methylcyclohexane        | 6.72  | 83  | 27228  | 0.820 ug/L # | 17     |
| 37) 1,2-Dichloropropane      | 6.72  | 63  | 13175  | 0.639 ug/L # | 86     |
| 39) cis-1,3-Dichloropropene  | 7.59  | 75  | 3309   | 0.108 ug/L # | 61     |
| 42) Toluene                  | 7.99  | 91  | 139935 | 1.621 ug/L   | 99     |
| 47) Tetrachloroethene        | 8.57  | 164 | 6549   | 0.398 ug/L   | 85     |
| 49) Dibromochloromethane     | 8.57  | 129 | 6452   | 0.368 ug/L # | 10     |
| 59) 1,2,3-Trichloropropane   | 11.82 | 75  | 15948  | 1.043 ug/L   | 98     |

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Sample : L2990-07  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

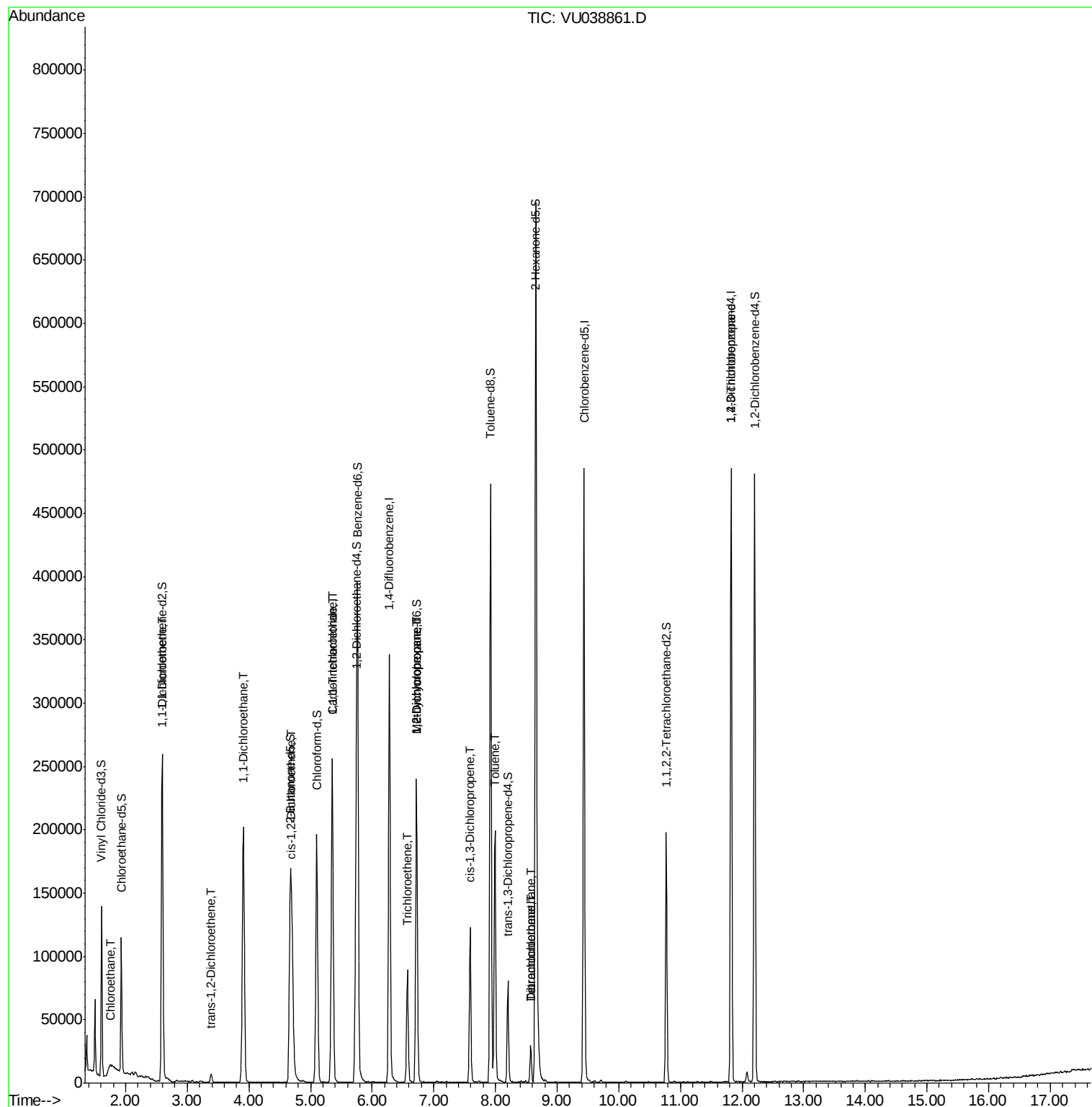
Quant Time: Jun 13 01:00:23 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR061220WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Jun 13 00:56:28 2020  
Response via : Initial Calibration

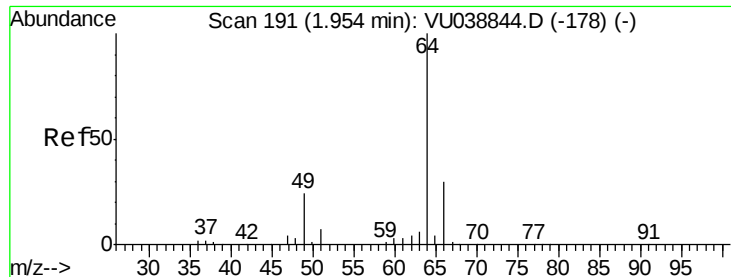
| Internal Standards                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                             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

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Quant Title : TRACE VOA SOM01.0  
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Response via : Initial Calibration





#8

Chloroethane

Concen: 1.095 ug/L

RT: 1.75 min Scan# 126

Delta R.T. -0.21 min

Lab File: VU038861.D

Acq: 12 Jun 2020 19:00

Instrument :

MSVOA\_U

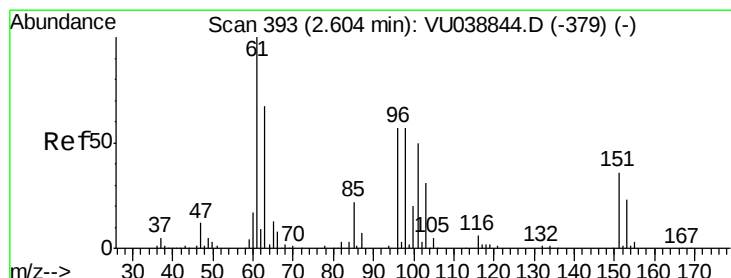
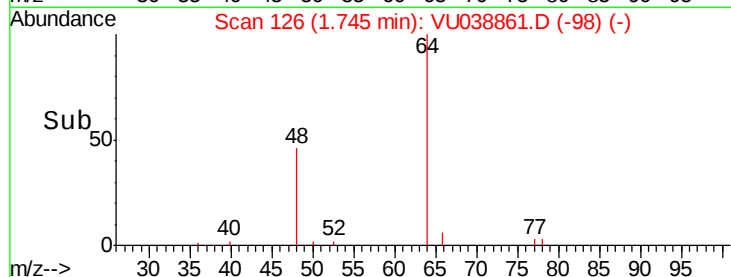
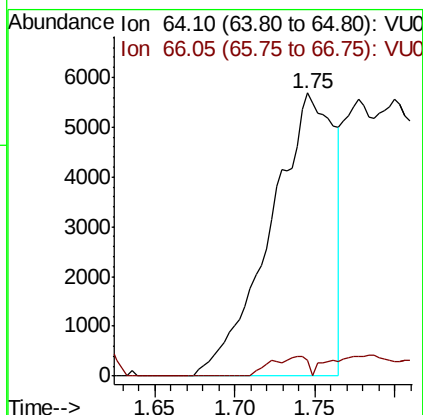
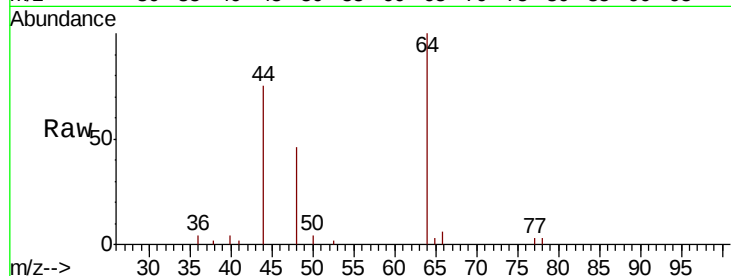
ClientSampled :

Tot Ion: 64 Resp: 15745

Ion Ratio Lower Upper

64 100

66 5.8 22.9 42.5#



#12

1,1-Dichloroethene

Concen: 0.945 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038861.D

Acq: 12 Jun 2020 19:00

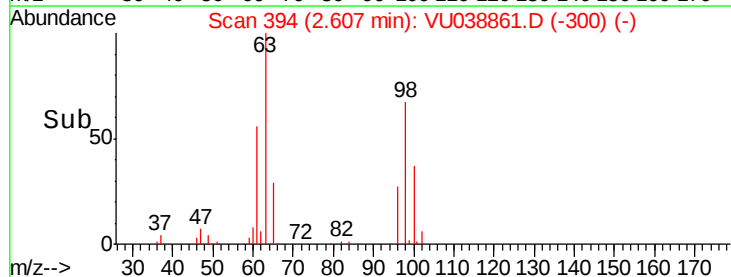
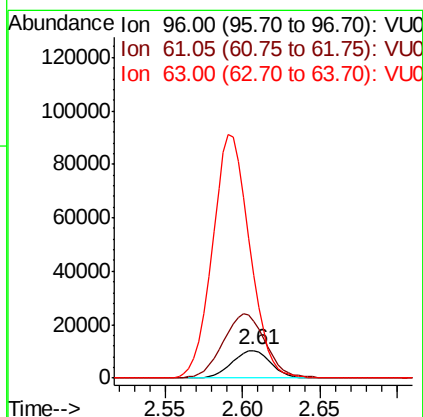
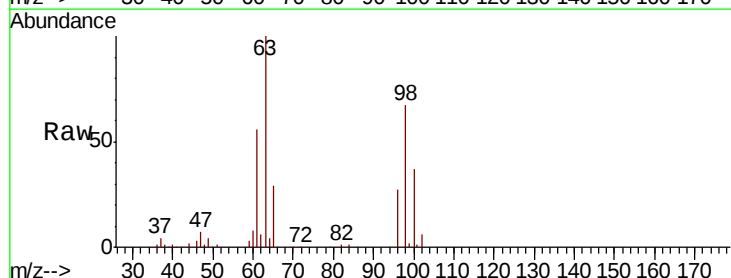
Tgt Ion: 96 Resp: 18057

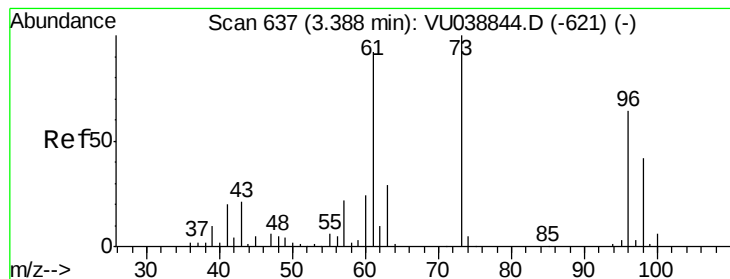
Ion Ratio Lower Upper

96 100

61 205.2 120.2 223.2

63 367.7 90.1 167.3#





#18

trans-1,2-Dichloroethene

Concen: 0.160 ug/L

RT: 3.39 min Scan# 636

Delta R.T. -0.00 min

Lab File: VU038861.D

Acq: 12 Jun 2020 19:00

Instrument :

MSVOA\_U

ClientSampleId :

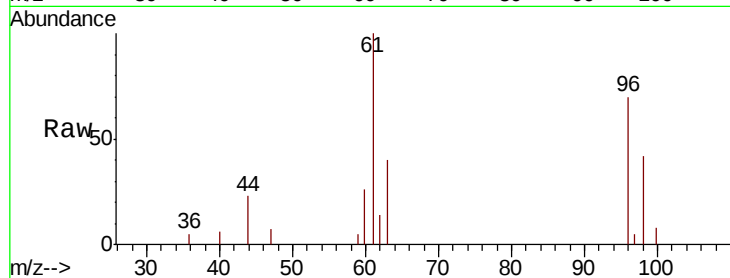
Tot Ion: 96 Resp: 3273

Ion Ratio Lower Upper

96 100

61 142.3 99.3 184.5

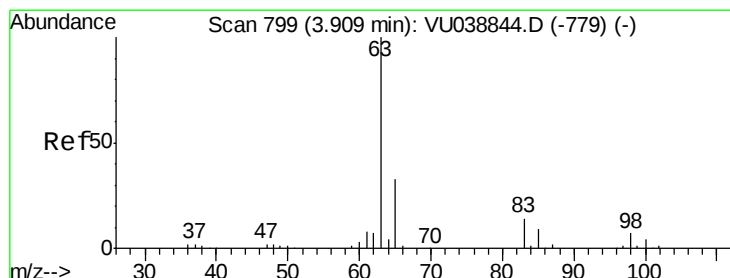
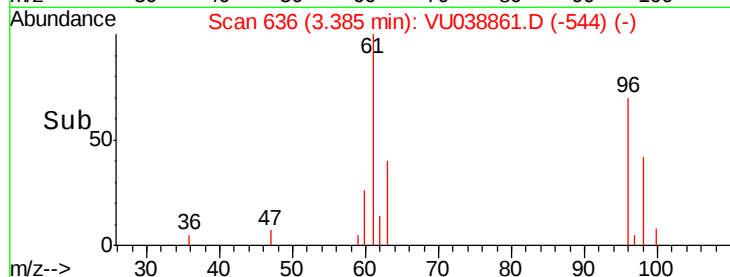
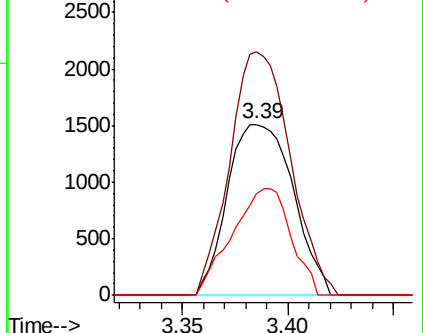
98 59.4 43.9 81.5



Abundance Ion 96.00 (95.70 to 96.70): VU038861.D (-544) (-)

Ion 61.05 (60.75 to 61.75): VU038861.D (-544) (-)

Ion 97.95 (97.65 to 98.65): VU038861.D (-544) (-)



#19

1,1-Dichloroethane

Concen: 6.269 ug/L

RT: 3.91 min Scan# 799

Delta R.T. 0.00 min

Lab File: VU038861.D

Acq: 12 Jun 2020 19:00

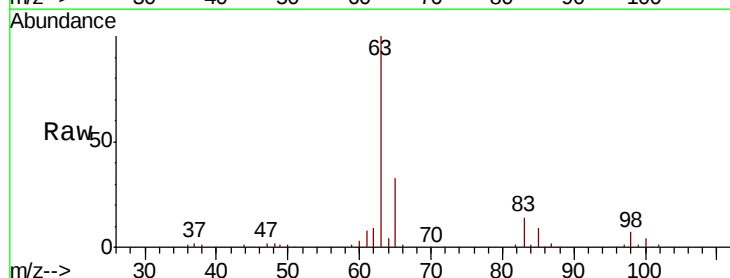
Tgt Ion: 63 Resp: 231424

Ion Ratio Lower Upper

63 100

65 32.9 22.3 41.5

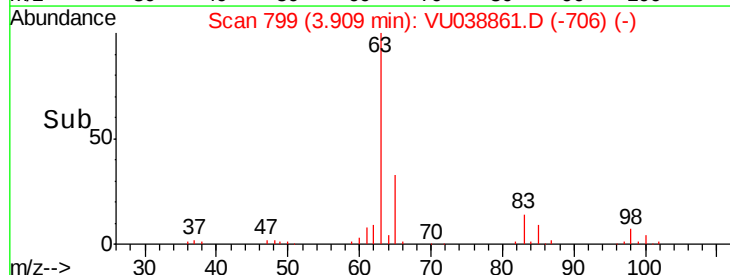
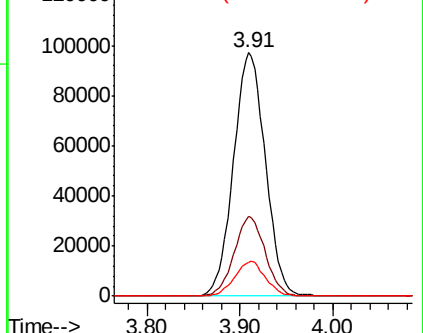
83 13.9 10.1 18.9

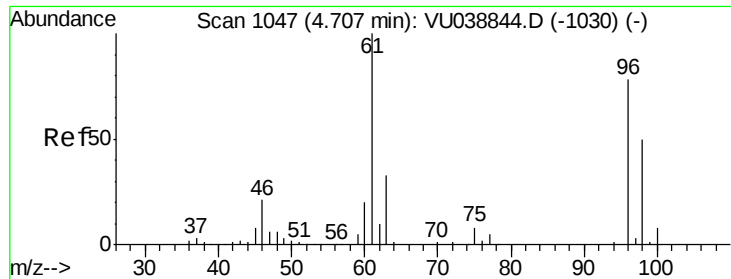


Abundance Ion 63.10 (62.80 to 63.80): VU038861.D (-706) (-)

Ion 65.10 (64.80 to 65.80): VU038861.D (-706) (-)

Ion 83.05 (82.75 to 83.75): VU038861.D (-706) (-)

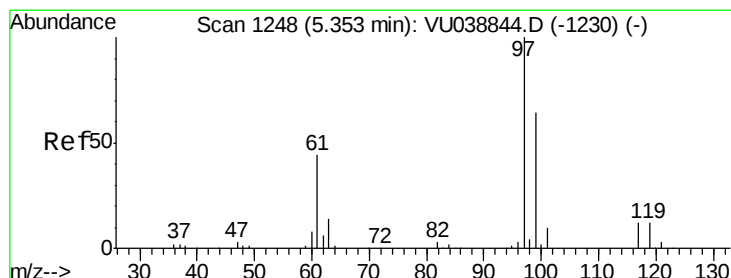
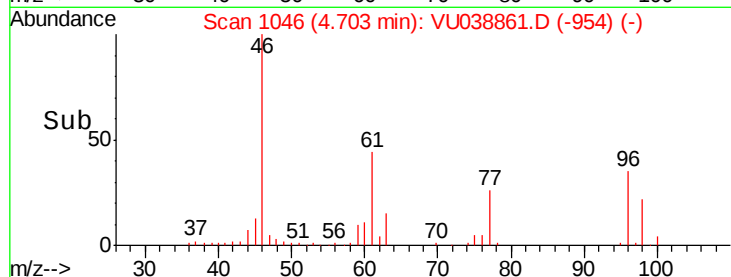
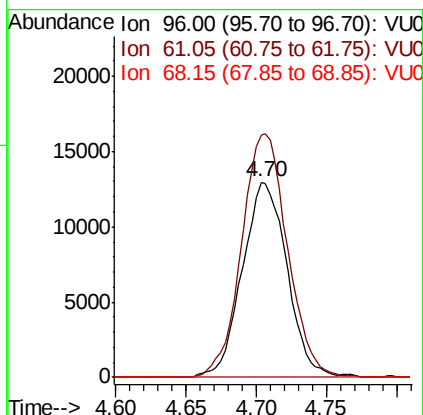
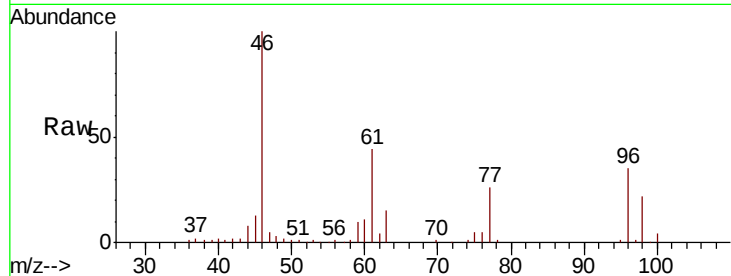




#22  
 cis-1,2-Dichloroethene  
 Concen: 1.344 ug/L  
 RT: 4.70 min Scan# 1046  
 Delta R.T. -0.00 min  
 Lab File: VU038861.D  
 Acq: 12 Jun 2020 19:00

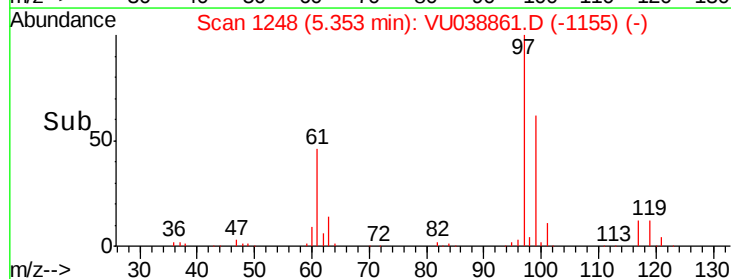
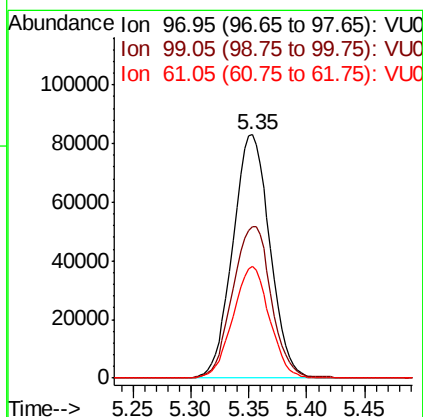
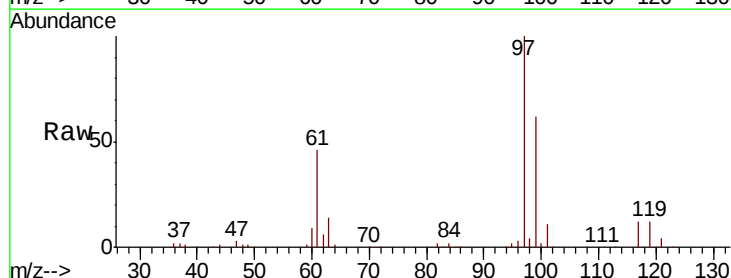
Instrument :  
 MSVOA\_U  
 ClientSampleId :

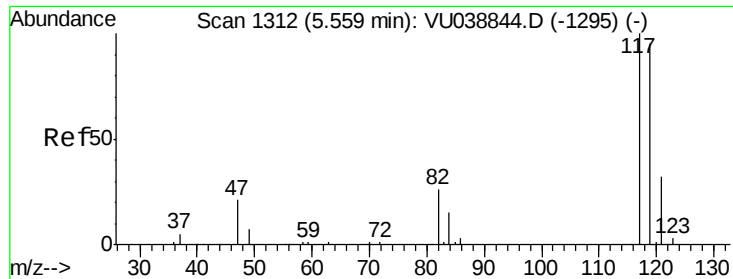
Tot Ion: 96 Resp: 28723  
 Ion Ratio Lower Upper  
 96 100  
 61 124.1 89.7 166.7  
 68 0.0 0.0 0.0



#29  
 1,1,1-Trichloroethane  
 Concen: 5.512 ug/L  
 RT: 5.35 min Scan# 1248  
 Delta R.T. -0.00 min  
 Lab File: VU038861.D  
 Acq: 12 Jun 2020 19:00

Tgt Ion: 97 Resp: 184135  
 Ion Ratio Lower Upper  
 97 100  
 99 65.2 52.1 78.1  
 61 45.2 35.9 53.9





#31

Carbon tetrachloride

Concen: 0.816 ug/L

RT: 5.36 min Scan# 1249

Delta R.T. -0.20 min

Lab File: VU038861.D

Acq: 12 Jun 2020 19:00

Instrument :

MSVOA\_U

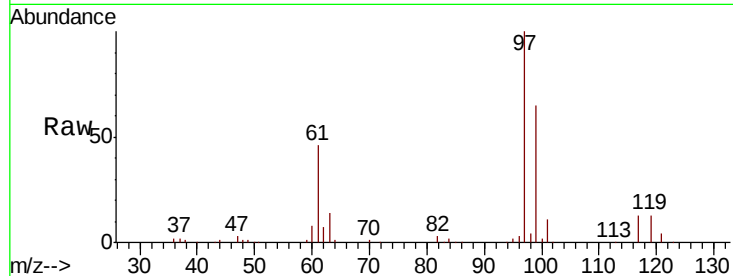
ClientSampled :

Tot Ion:117 Resp: 23001

Ion Ratio Lower Upper

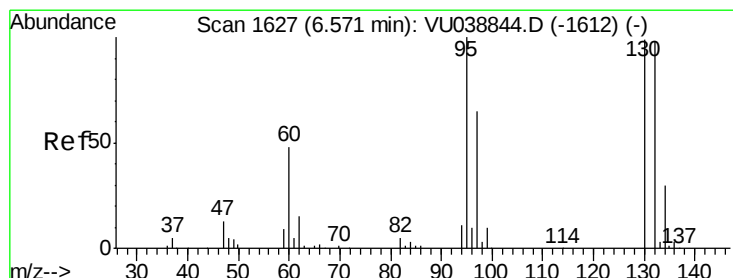
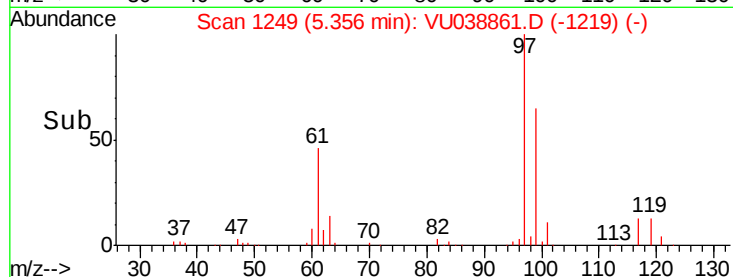
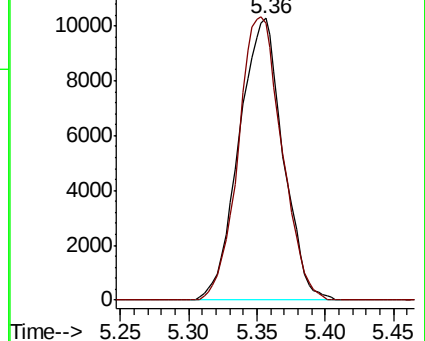
117 100

119 99.5 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: 1.376 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU038861.D

Acq: 12 Jun 2020 19:00

Tgt Ion: 95 Resp: 29397

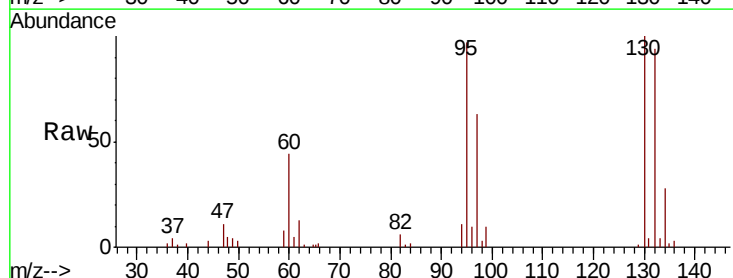
Ion Ratio Lower Upper

95 100

97 64.8 46.1 85.5

132 97.6 67.5 125.3

130 103.3 66.7 123.9

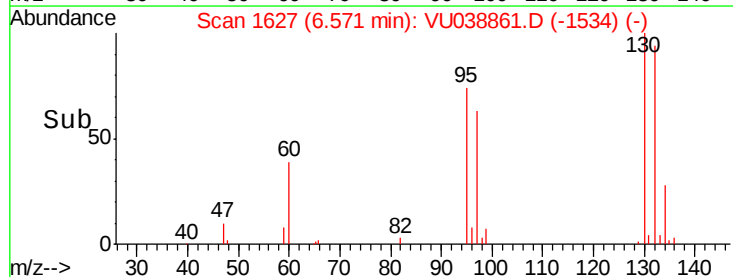
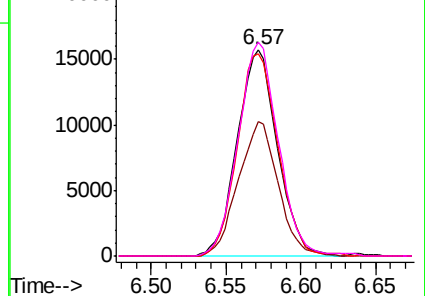


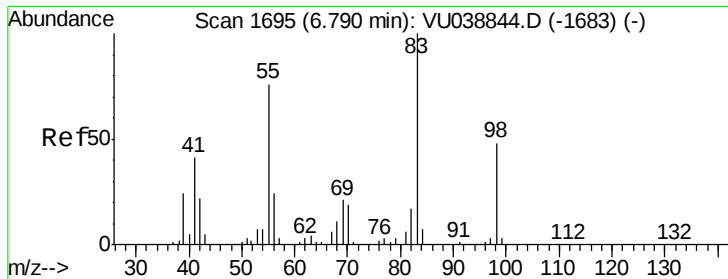
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

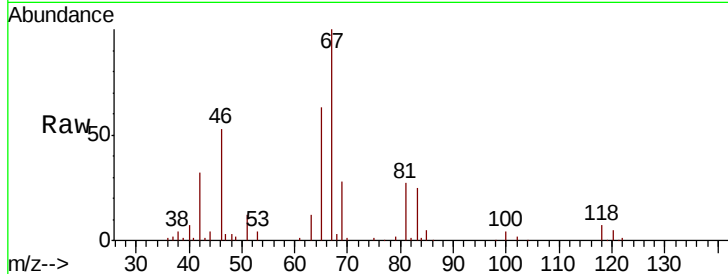




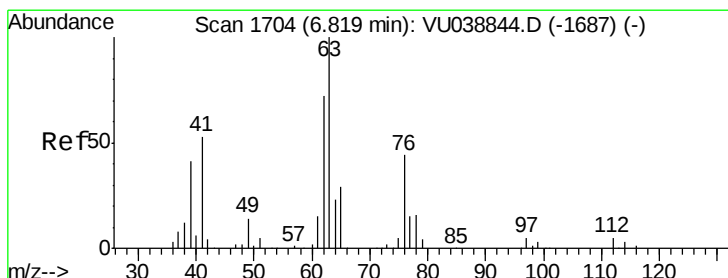
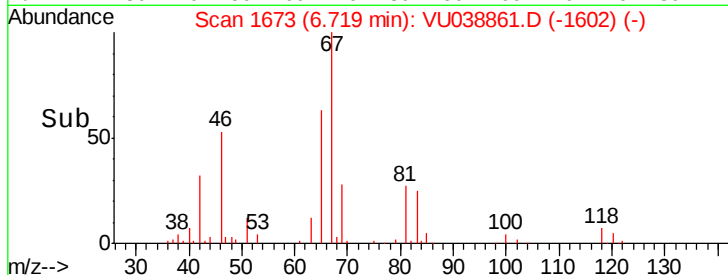
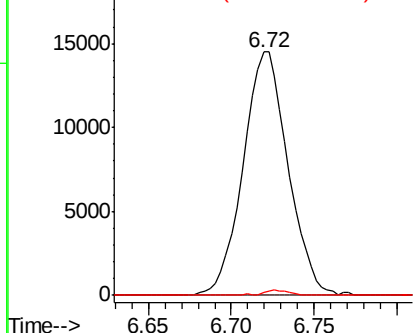
#35  
Methvlcvclohexane  
Concen: 0.820 ug/L  
RT: 6.72 min Scan# 1673  
Delta R.T. -0.07 min  
Lab File: VU038861.D  
Acq: 12 Jun 2020 19:00

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 83 Resp: 27228  
Ion Ratio Lower Upper  
83 100  
55 0.0 64.2 96.2#  
98 1.1 40.5 60.7#

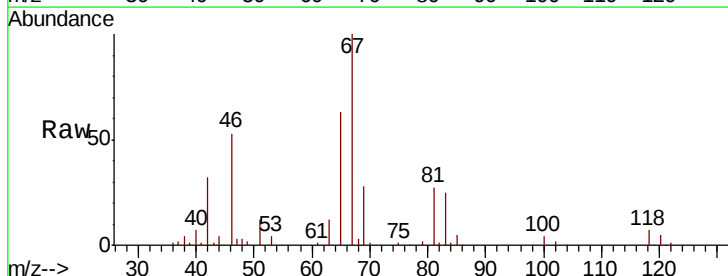


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

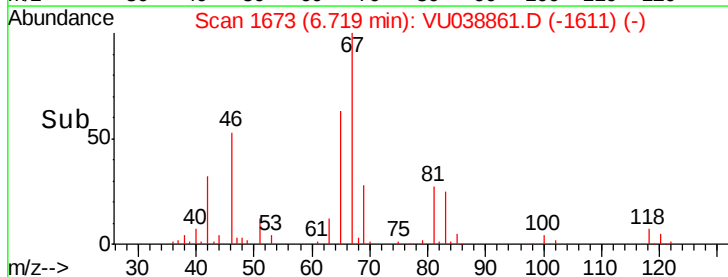
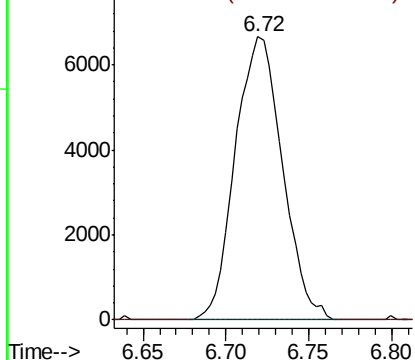


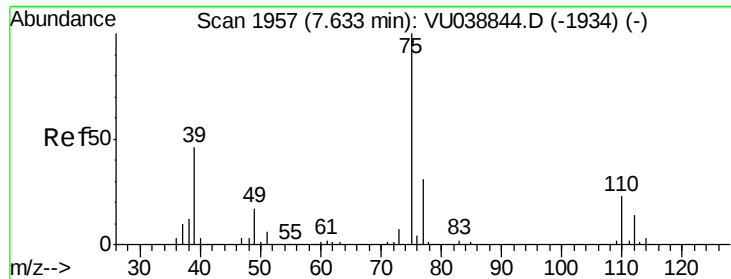
#37  
1,2-Dichloropropane  
Concen: 0.639 ug/L  
RT: 6.72 min Scan# 1673  
Delta R.T. -0.10 min  
Lab File: VU038861.D  
Acq: 12 Jun 2020 19:00

Tgt Ion: 63 Resp: 13175  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.8 5.6#



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

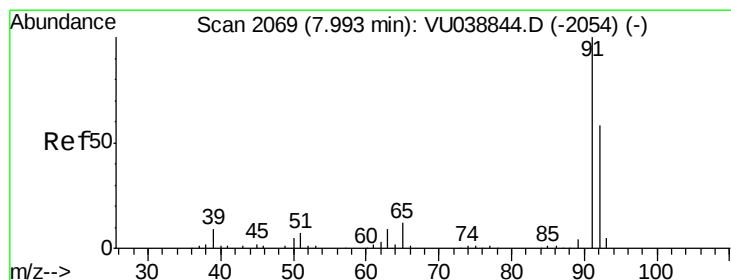
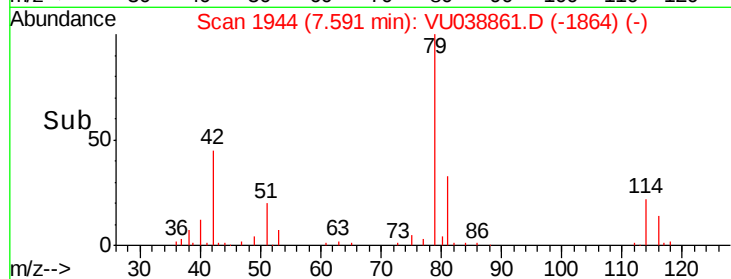
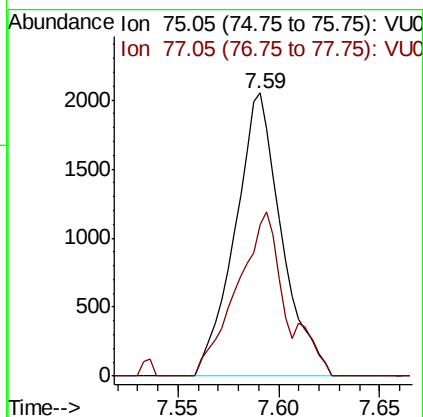
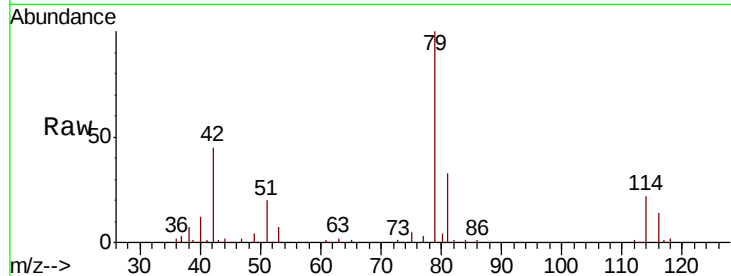




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.108 ug/L  
 RT: 7.59 min Scan# 1944  
 Delta R.T. -0.04 min  
 Lab File: VU038861.D  
 Acq: 12 Jun 2020 19:00

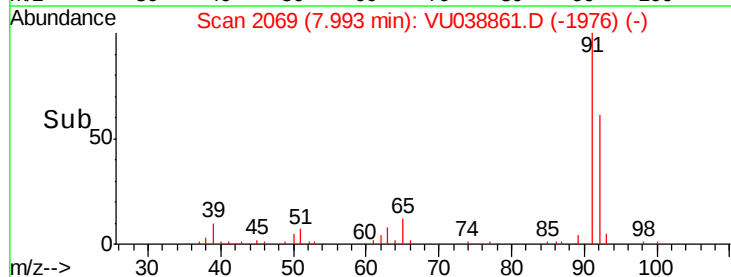
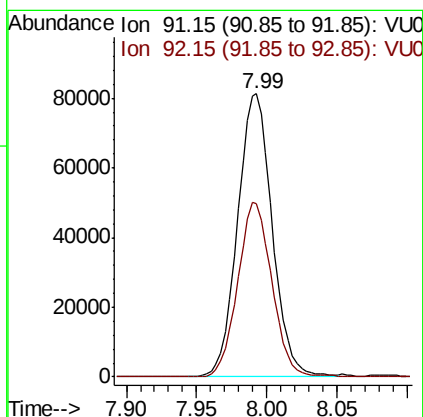
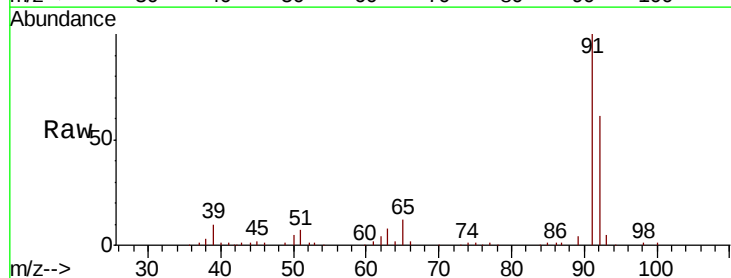
Instrument :  
 MSVOA\_U  
 ClientSampleId :

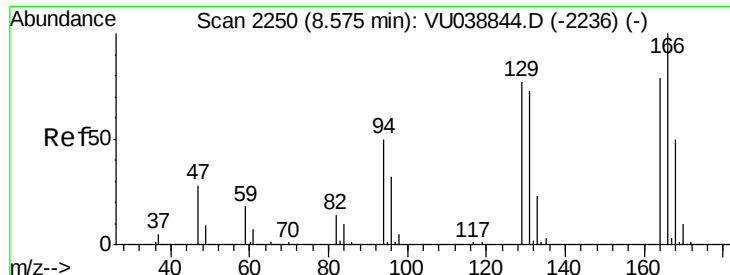
Tot Ion: 75 Resp: 3309  
 Ion Ratio Lower Upper  
 75 100  
 77 53.6 22.4 41.6#



#42  
 Toluene  
 Concen: 1.621 ug/L  
 RT: 7.99 min Scan# 2069  
 Delta R.T. -0.00 min  
 Lab File: VU038861.D  
 Acq: 12 Jun 2020 19:00

Tgt Ion: 91 Resp: 139935  
 Ion Ratio Lower Upper  
 91 100  
 92 61.1 42.4 78.6





#47

Tetrachloroethene

Concen: 0.398 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU038861.D

Acq: 12 Jun 2020 19:00

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion:164 Resp: 6549

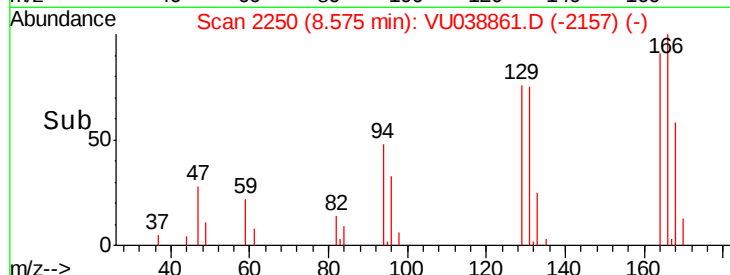
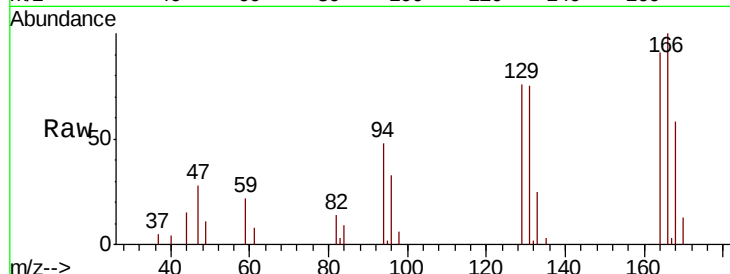
Ion Ratio Lower Upper

164 100

129 83.0 67.3 124.9

131 81.8 65.0 120.6

166 109.5 91.0 169.0

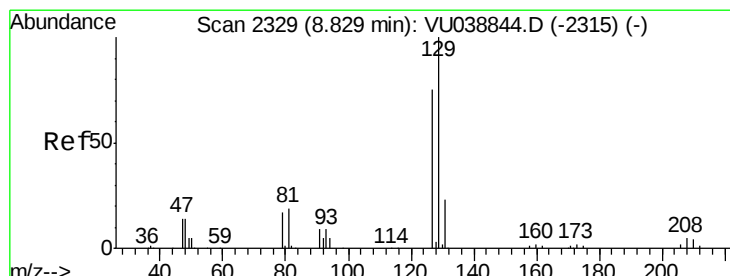
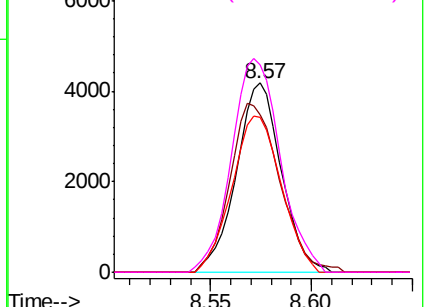


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#49

Dibromochloromethane

Concen: 0.368 ug/L

RT: 8.57 min Scan# 2248

Delta R.T. -0.26 min

Lab File: VU038861.D

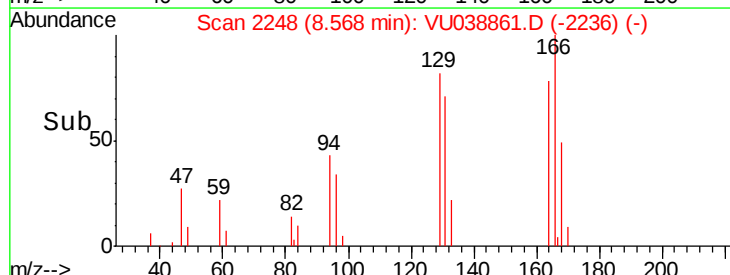
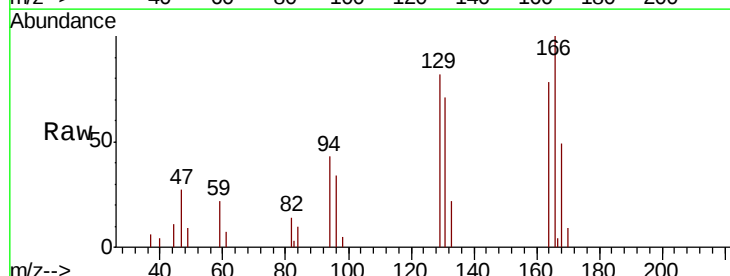
Acq: 12 Jun 2020 19:00

Tgt Ion:129 Resp: 6452

Ion Ratio Lower Upper

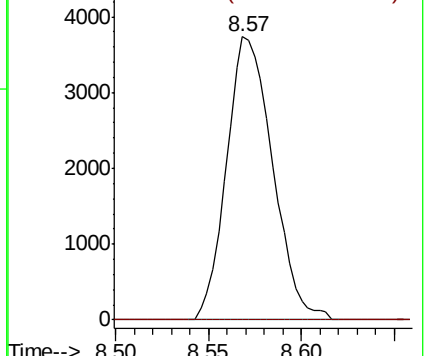
129 100

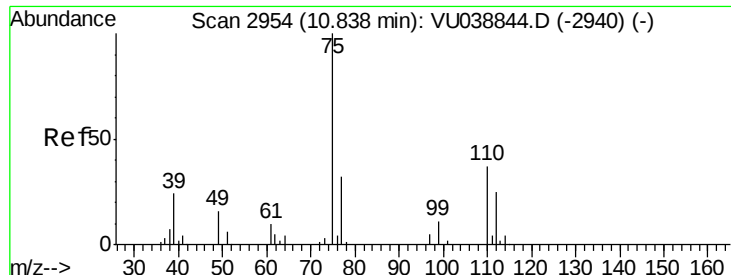
127 0.0 55.5 103.1#



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: 1.043 ug/L

RT: 11.82 min Scan# 3260

Delta R.T. 0.98 min

Lab File: VU038861.D

Acq: 12 Jun 2020 19:00

Instrument :

MSVOA\_U

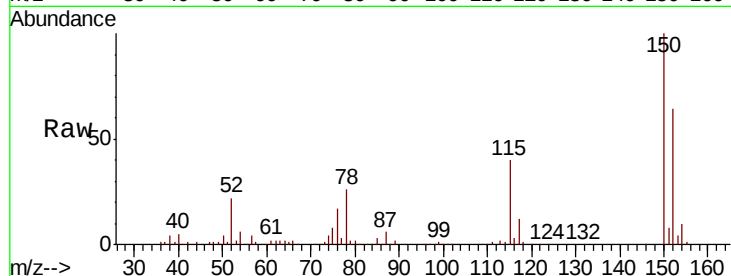
ClientSampleId :

Tot Ion: 75 Resp: 15948

Ion Ratio Lower Upper

75 100

77 33.6 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

