

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080620\  
 Data File : VU039752.D  
 Acq On : 06 Aug 2020 13:13  
 Operator : SY/MD  
 Sample : L3572-07  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Aug 07 03:25:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR080320WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Aug 07 03:23:19 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 77067    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 72394    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 32604    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 22580    | 5.43     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 108.60% |
| 7) Chloroethane-d5             | 1.92   | 69    | 21435    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 95.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 31142    | 3.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 74.40%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 81199    | 44.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 88.72%  |
| 24) Chloroform-d               | 5.09   | 84    | 49920    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 29385    | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.00%  |
| 32) Benzene-d6                 | 5.75   | 84    | 89135    | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.60% |
| 36) 1,2-Dichloropropane-d6     | 6.71   | 67    | 30295    | 5.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 102.80% |
| 41) Toluene-d8                 | 7.91   | 98    | 69688    | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.20%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 9590     | 4.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 84.80%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 58232    | 47.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 95.16%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.76  | 84    | 26546    | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 92.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 29525    | 5.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 105.80% |

## Target Compounds

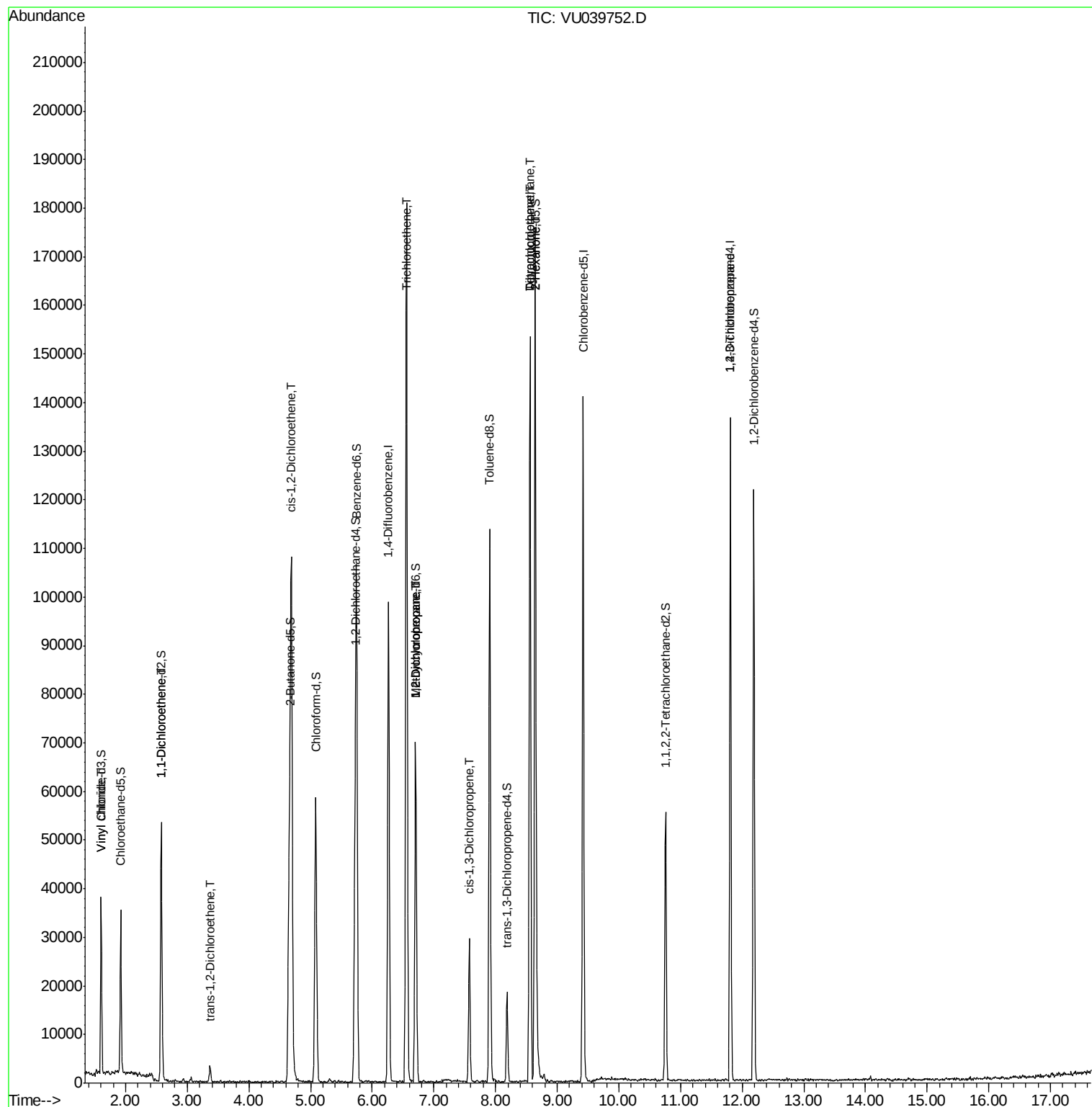
| Target Compounds             | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|------------------------------|-------|------|----------|--------|--------|--------|
| 5) Vinyl chloride            | 1.61  | 62   | 1578     | 0.252  | ug/L # | 78     |
| 12) 1,1-Dichloroethene       | 2.59  | 96   | 551      | 0.120  | ug/L # | 1      |
| 18) trans-1,2-Dichloroethene | 3.38  | 96   | 1335     | 0.261  | ug/L   | 85     |
| 22) cis-1,2-Dichloroethene   | 4.69  | 96   | 47918    | 8.608  | ug/L   | 90     |
| 34) Trichloroethene          | 6.56  | 95   | 56445    | 11.019 | ug/L   | 93     |
| 35) Methylcyclohexane        | 6.70  | 83   | 7648     | 0.935  | ug/L # | 19     |
| 37) 1,2-Dichloropropane      | 6.71  | 63   | 3797     | 0.725  | ug/L # | 86     |
| 39) cis-1,3-Dichloropropene  | 7.58  | 75   | 809      | 0.113  | ug/L # | 77     |
| 47) Tetrachloroethene        | 8.56  | 164  | 29928    | 7.082  | ug/L   | 93     |
| 48) 2-Hexanone               | 8.64  | 43   | 7917     | 2.800  | ug/L # | 76     |
| 49) Dibromochloromethane     | 8.56  | 129  | 29435    | 6.087  | ug/L # | 12     |
| 59) 1,2,3-Trichloropropane   | 11.81 | 75   | 4656     | 1.232  | ug/L # | 87     |

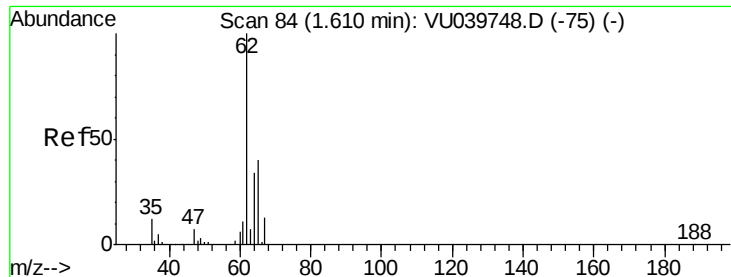
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Aug 07 03:25:03 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR080320WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Aug 07 03:23:19 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.252 ug/L

RT: 1.61 min Scan# 83

Delta R.T. -0.00 min

Lab File: VU039752.D

Acq: 06 Aug 2020 13:13

Instrument :

MSVOA\_U

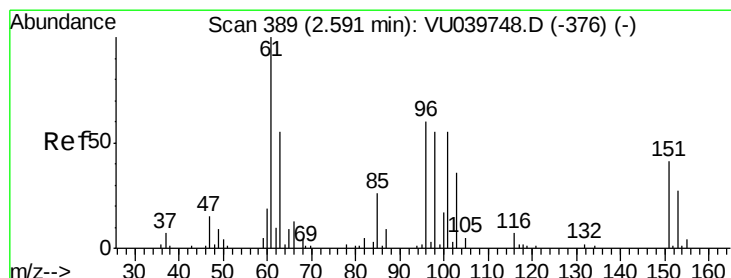
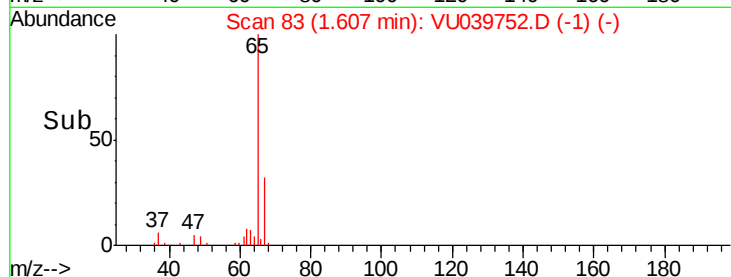
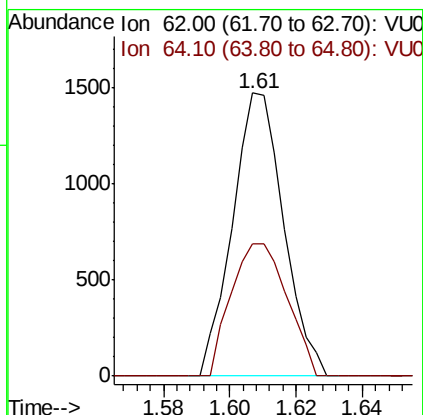
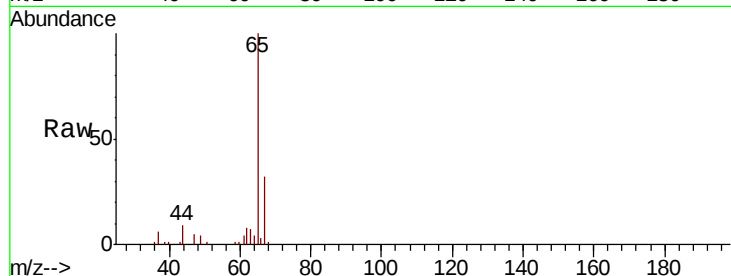
ClientSampleId :

Tot Ion: 62 Resp: 1578

Ion Ratio Lower Upper

62 100

64 46.8 24.1 44.7#



#12

1,1-Dichloroethene

Concen: 0.120 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU039752.D

Acq: 06 Aug 2020 13:13

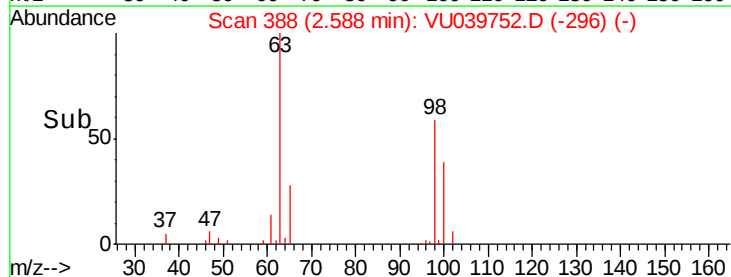
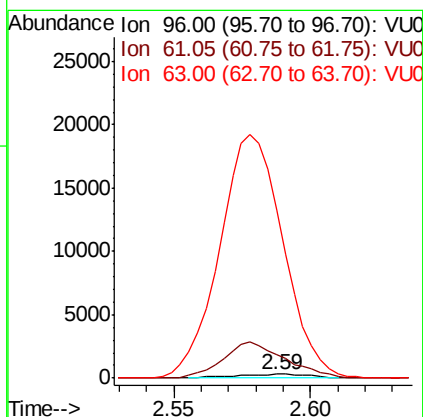
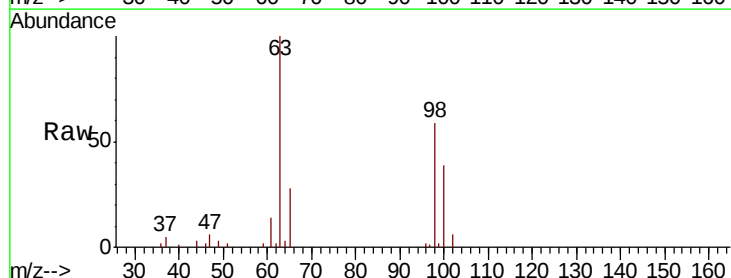
Tgt Ion: 96 Resp: 551

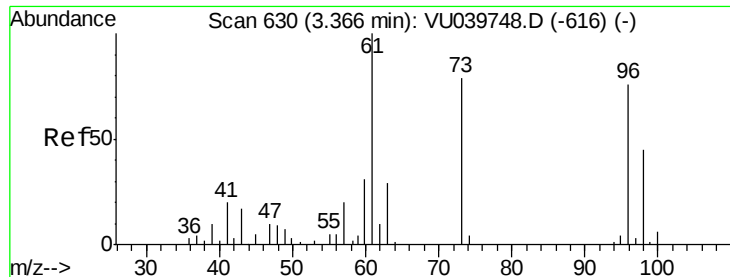
Ion Ratio Lower Upper

96 100

61 633.2 121.7 225.9#

63 4454.4 82.1 152.5#

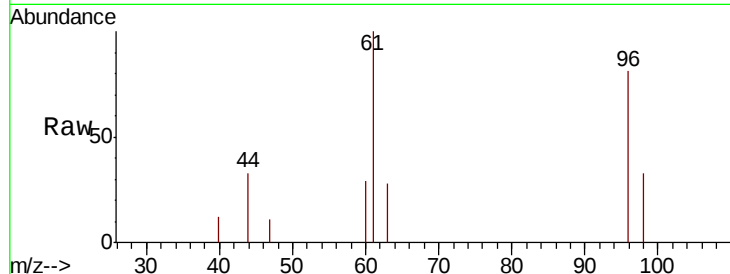




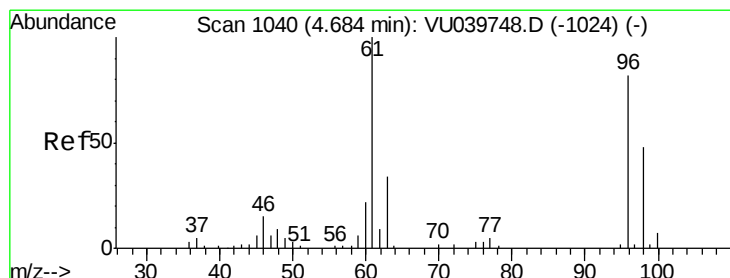
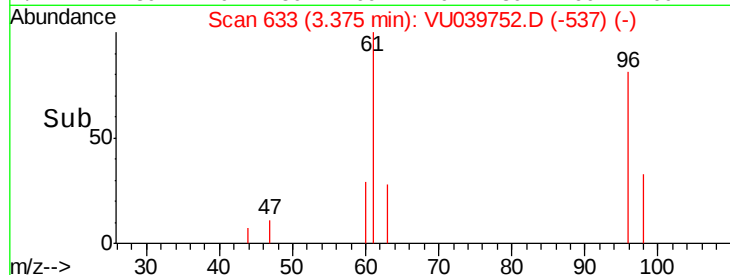
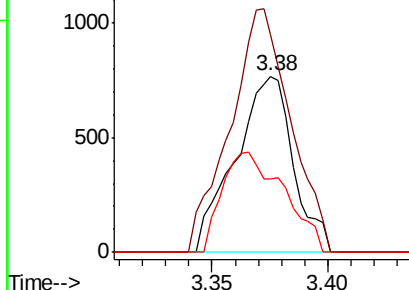
#18  
 trans-1,2-Dichloroethene  
 Concen: 0.261 ug/L  
 RT: 3.38 min Scan# 633  
 Delta R.T. 0.01 min  
 Lab File: VU039752.D  
 Acq: 06 Aug 2020 13:13

Instrument :  
 MSVOA\_U  
 ClientSampled :

Tot Ion: 96 Resp: 1335  
 Ion Ratio Lower Upper  
 96 100  
 61 123.6 96.5 179.1  
 98 41.3 40.9 76.0

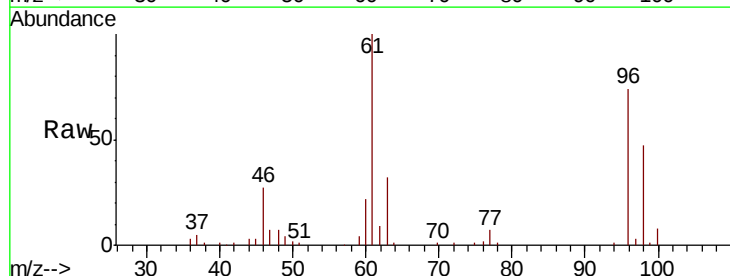


Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 97.95 (97.65 to 98.65): VU0

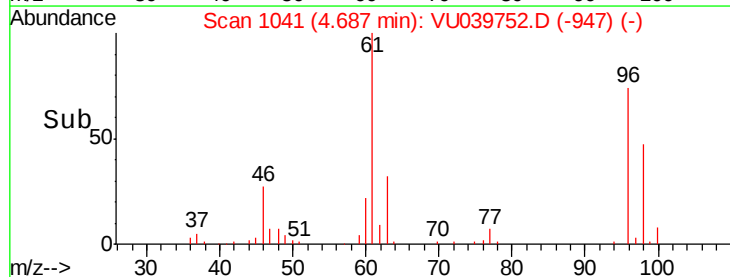
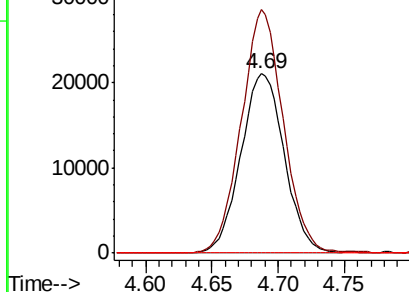


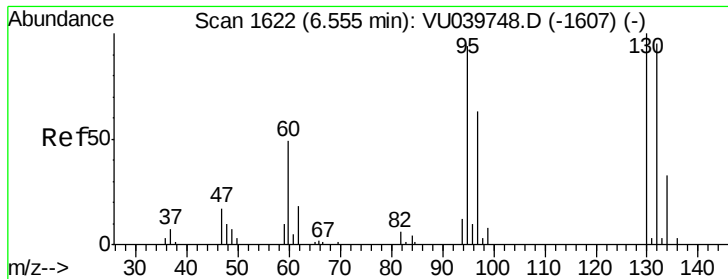
#22  
 cis-1,2-Dichloroethene  
 Concen: 8.608 ug/L  
 RT: 4.69 min Scan# 1041  
 Delta R.T. 0.00 min  
 Lab File: VU039752.D  
 Acq: 06 Aug 2020 13:13

Tgt Ion: 96 Resp: 47918  
 Ion Ratio Lower Upper  
 96 100  
 61 135.7 87.4 162.2  
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0

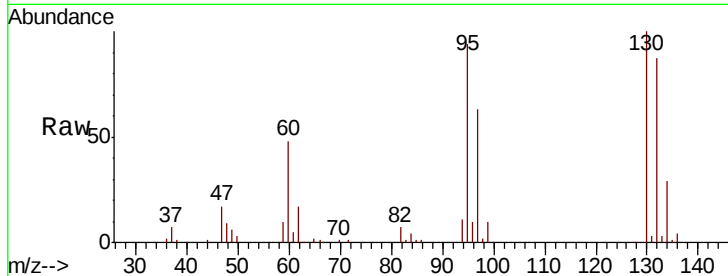




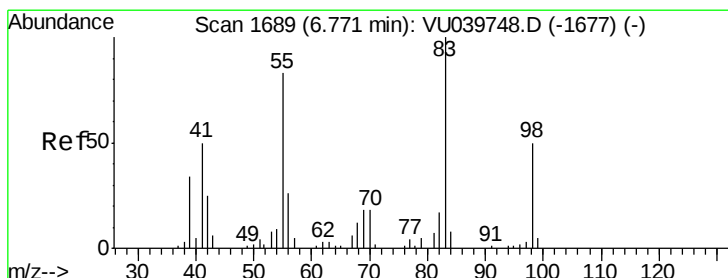
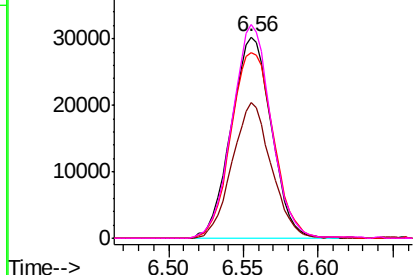
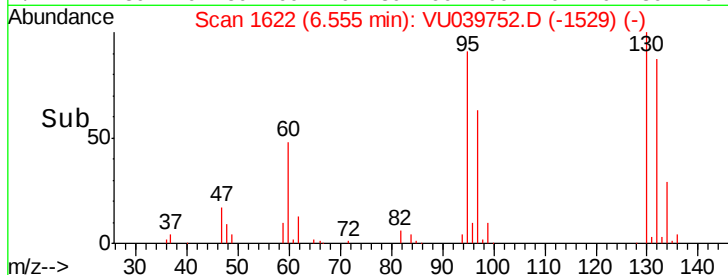
#34  
 Trichloroethene  
 Concen: 11.019 ug/L  
 RT: 6.56 min Scan# 1622  
 Delta R.T. -0.00 min  
 Lab File: VU039752.D  
 Acq: 06 Aug 2020 13:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion: 95 Resp: 56445  
 Ion Ratio Lower Upper  
 95 100  
 97 67.2 44.0 81.8  
 132 92.3 71.7 133.3  
 130 106.0 71.1 132.1

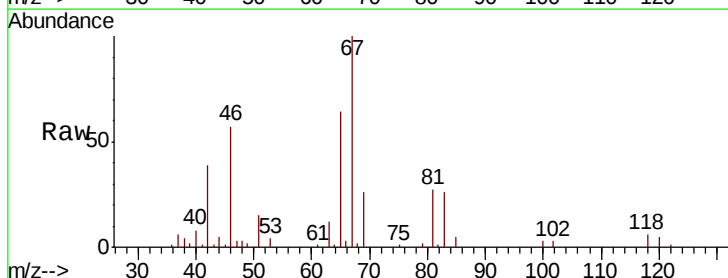


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 96.95 (96.65 to 97.65): VU0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

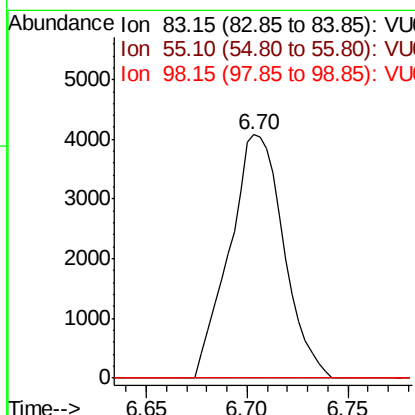
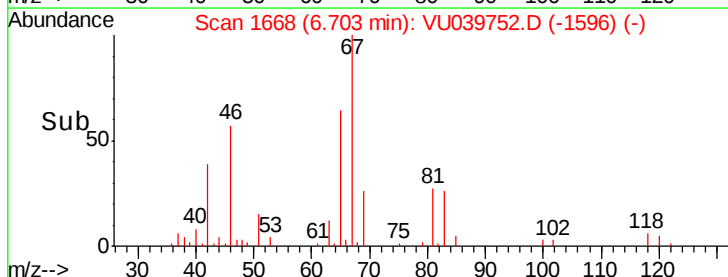


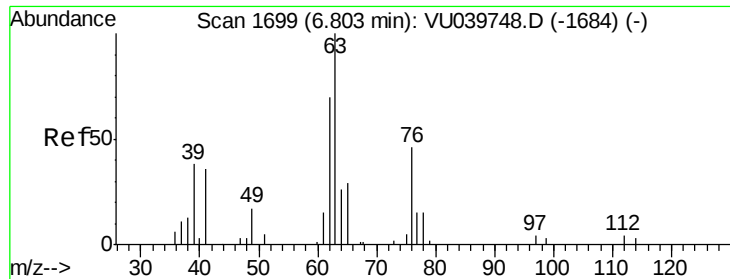
#35  
 Methylcyclohexane  
 Concen: 0.935 ug/L  
 RT: 6.70 min Scan# 1668  
 Delta R.T. -0.07 min  
 Lab File: VU039752.D  
 Acq: 06 Aug 2020 13:13

Tgt Ion: 83 Resp: 7648  
 Ion Ratio Lower Upper  
 83 100  
 55 0.0 59.4 89.0#  
 98 0.0 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

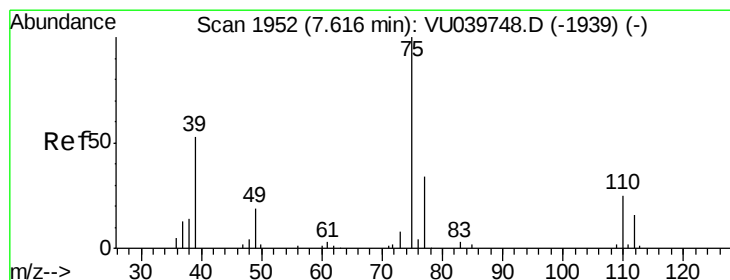
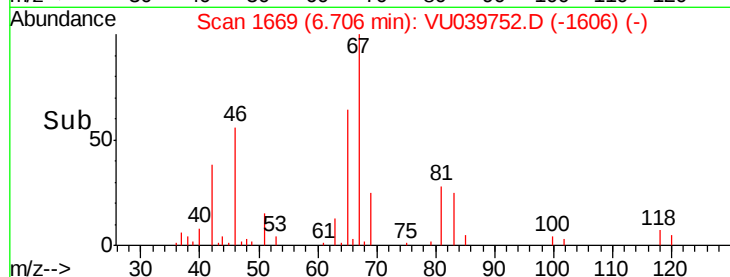
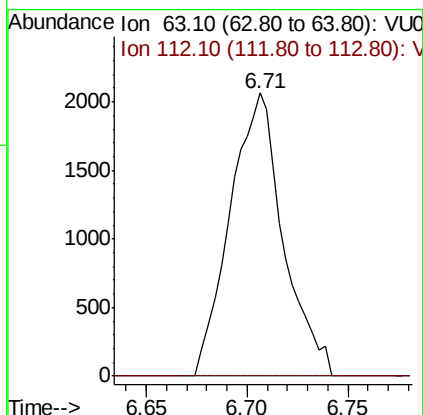
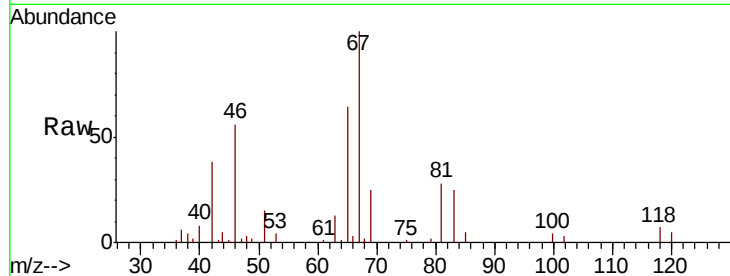




#37  
 1,2-Dichloropropane  
 Concen: 0.725 ug/L  
 RT: 6.71 min Scan# 1669  
 Delta R.T. -0.10 min  
 Lab File: VU039752.D  
 Acq: 06 Aug 2020 13:13

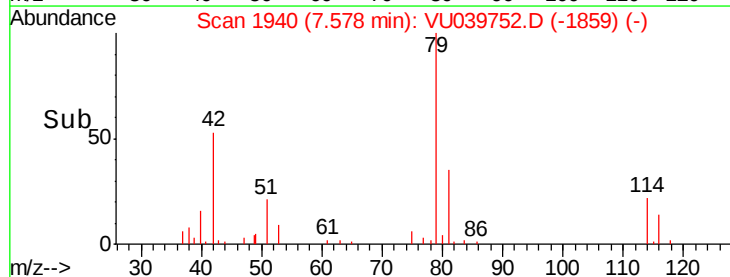
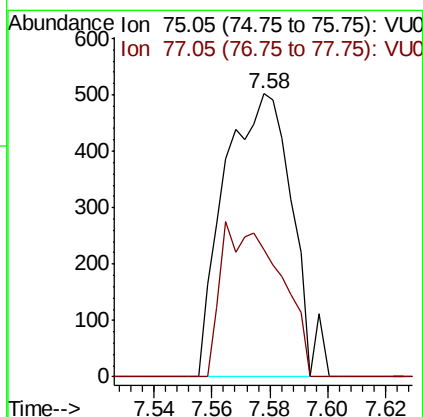
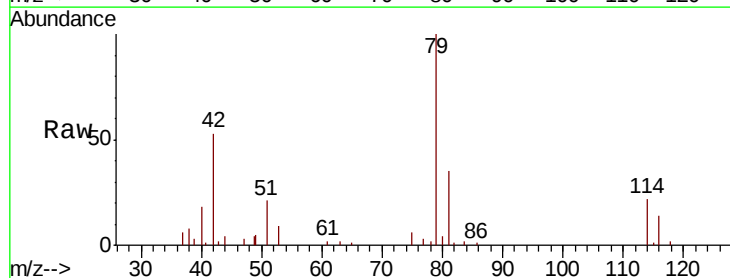
Instrument :  
 MSVOA\_U  
 ClientSampleId :

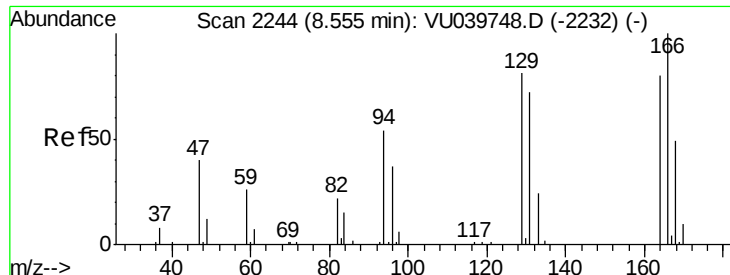
Tot Ion: 63 Resp: 3797  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.8 5.6#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.113 ug/L  
 RT: 7.58 min Scan# 1940  
 Delta R.T. -0.04 min  
 Lab File: VU039752.D  
 Acq: 06 Aug 2020 13:13

Tgt Ion: 75 Resp: 809  
 Ion Ratio Lower Upper  
 75 100  
 77 44.8 22.4 41.6#





#47

Tetrachloroethene

Concen: 7.082 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU039752.D

Acq: 06 Aug 2020 13:13

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:164 Resp: 29928

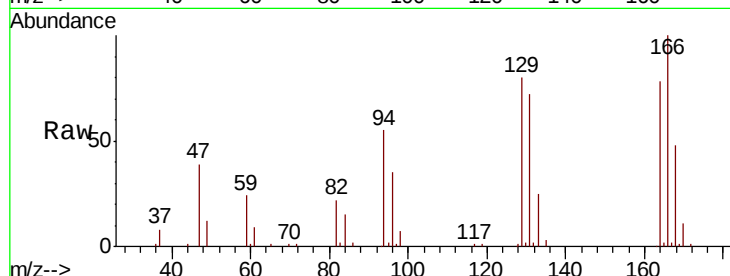
Ion Ratio Lower Upper

164 100

129 102.9 65.9 122.5

131 92.5 68.1 126.5

166 127.9 84.5 156.9

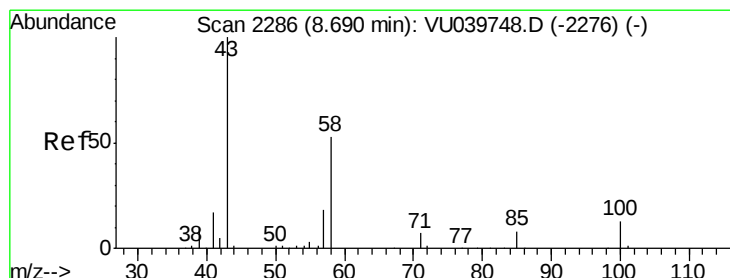
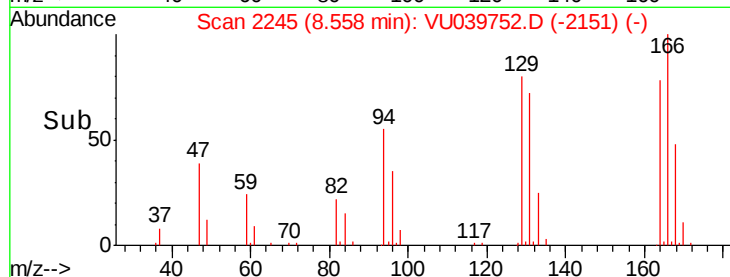
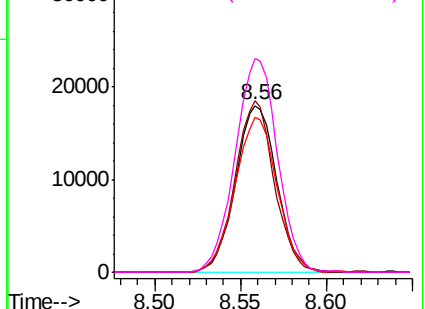


Abundance Ion 163.90 (163.60 to 164.60): V

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



#48

2-Hexanone

Concen: 2.800 ug/L

RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU039752.D

Acq: 06 Aug 2020 13:13

Tgt Ion: 43 Resp: 7917

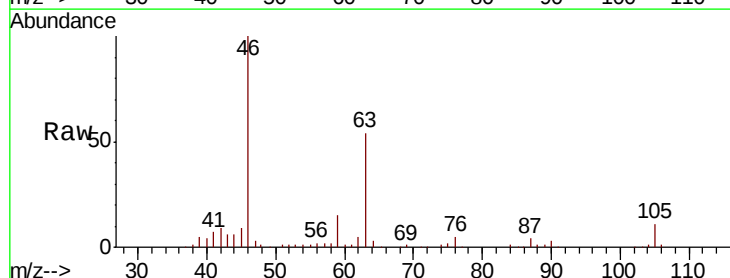
Ion Ratio Lower Upper

43 100

58 35.1 41.8 62.8#

57 26.7 14.2 21.4#

100 0.0 9.4 14.2#

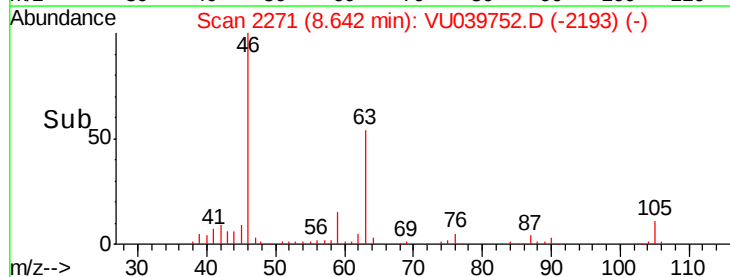
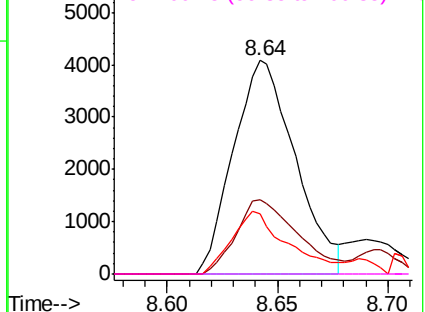


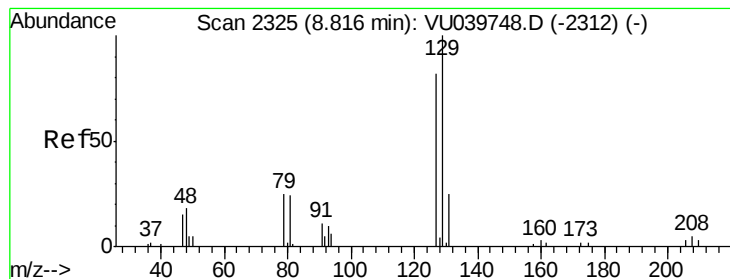
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 6.087 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.26 min

Lab File: VU039752.D

Acq: 06 Aug 2020 13:13

Instrument :

MSVOA\_U

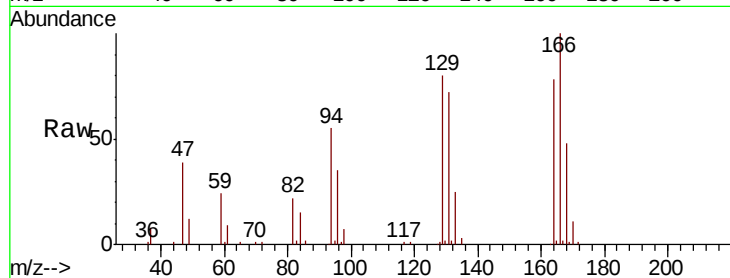
ClientSampleId :

Tot Ion:129 Resp: 29435

Ion Ratio Lower Upper

129 100

127 0.5 53.0 98.4#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

20000

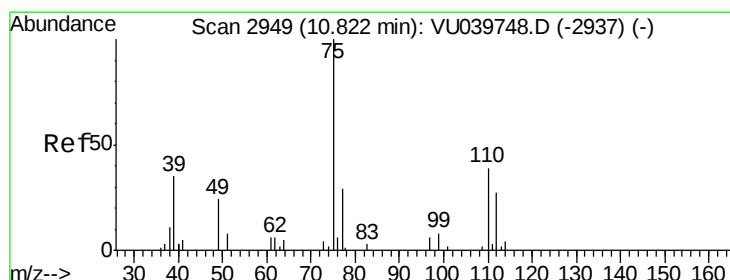
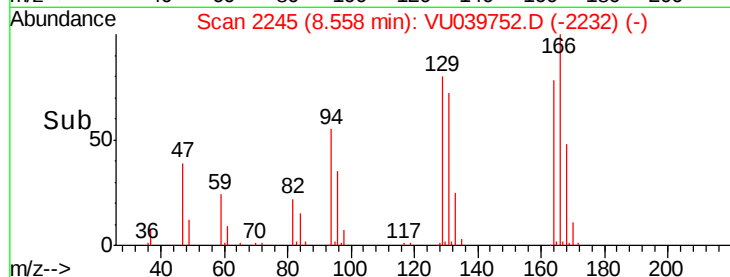
15000

10000

5000

0

Time-->



#59

1,2,3-Trichloropropane

Concen: 1.232 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU039752.D

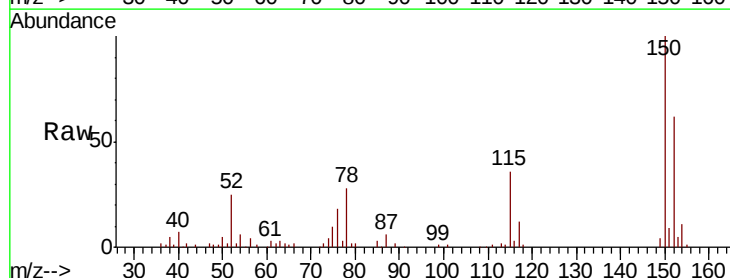
Acq: 06 Aug 2020 13:13

Tgt Ion: 75 Resp: 4656

Ion Ratio Lower Upper

75 100

77 38.1 24.6 37.0#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.81

3000

2000

1000

0

Time-->

