

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070620\  
 Data File : VU039306.D  
 Acq On : 06 Jul 2020 21:01  
 Operator : SY/MD  
 Sample : L3193-19  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H4309

Quant Time: Jul 07 01:21:58 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR070620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jul 07 01:17:04 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.27  | 114  | 115131   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 109579   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 51445    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

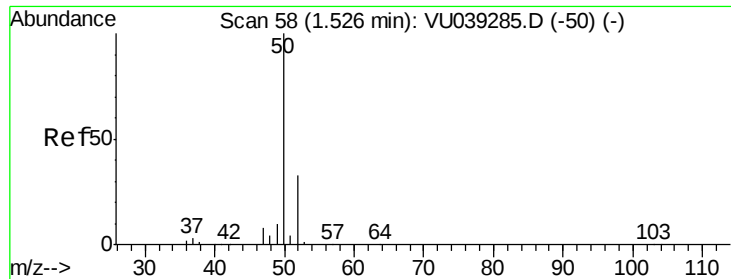
|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 44930    | 5.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 101.40% |
| 7) Chloroethane-d5             | 1.92   | 69    | 38953    | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 92.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 65241    | 3.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 79.20%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 154470   | 46.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 92.58%  |
| 24) Chloroform-d               | 5.09   | 84    | 86014    | 5.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 101.40% |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 51587    | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.40%  |
| 32) Benzene-d6                 | 5.74   | 84    | 171634   | 5.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.00% |
| 36) 1,2-Dichloropropane-d6     | 6.71   | 67    | 57377    | 5.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 102.40% |
| 41) Toluene-d8                 | 7.91   | 98    | 154361   | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.60%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 21567    | 4.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 83.20%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 117180   | 42.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 85.82%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.76  | 84    | 48120    | 4.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 90.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 57284    | 4.93     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.60%  |

## Target Compounds

|                              |       |    |        |               | Ovalue |
|------------------------------|-------|----|--------|---------------|--------|
| 3) Chloromethane             | 1.53  | 50 | 3617   | 0.434 ug/L #  | 39     |
| 5) Vinyl chloride            | 1.61  | 62 | 119581 | 13.941 ug/L # | 56     |
| 8) Chloroethane              | 2.15  | 64 | 1797   | 0.306 ug/L #  | 52     |
| 12) 1,1-Dichloroethene       | 2.58  | 96 | 824    | 0.126 ug/L #  | 1      |
| 17) Methyl tert-butyl Ether  | 3.38  | 73 | 7565   | 0.353 ug/L #  | 90     |
| 18) trans-1,2-Dichloroethene | 3.37  | 96 | 25860  | 3.647 ug/L    | 95     |
| 19) 1,1-Dichloroethane       | 3.89  | 63 | 1844   | 0.130 ug/L    | 89     |
| 22) cis-1,2-Dichloroethene   | 4.69  | 96 | 104498 | 12.933 ug/L   | 100    |
| 34) Trichloroethene          | 6.56  | 95 | 1754   | 0.220 ug/L    | 93     |
| 35) Methylcyclohexane        | 6.71  | 83 | 12582  | 0.987 ug/L #  | 17     |
| 37) 1,2-Dichloropropane      | 6.71  | 63 | 7022   | 0.815 ug/L #  | 90     |
| 39) cis-1,3-Dichloropropene  | 7.57  | 75 | 1822   | 0.136 ug/L #  | 60     |
| 59) 1,2,3-Trichloropropane   | 11.81 | 75 | 7817   | 1.207 ug/L    | 92     |

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





#3

Chloromethane

Concen: 0.434 ug/L

RT: 1.53 min Scan# 59

Delta R.T. 0.00 min

Lab File: VU039306.D

Acq: 06 Jul 2020 21:01

Instrument :

MSVOA\_U

ClientSampleId :

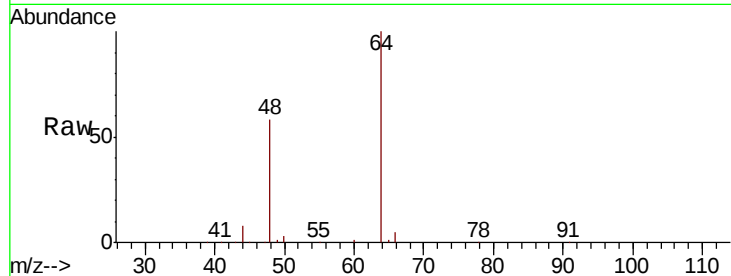
H4309

Tot Ion: 50 Resp: 3617

Ion Ratio Lower Upper

50 100

52 0.0 24.7 45.9#



Abundance Ion 50.05 (49.75 to 50.75): VU039306.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU039306.D (-1) (-)

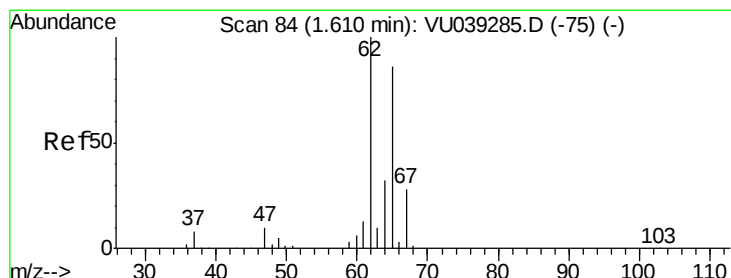
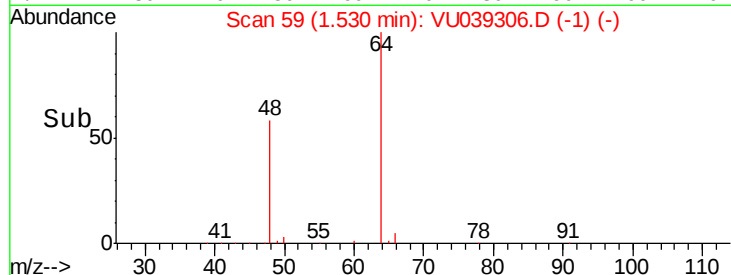
1.53

1000

500

0

Time-->



#5

Vinyl chloride

Concen: 13.941 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU039306.D

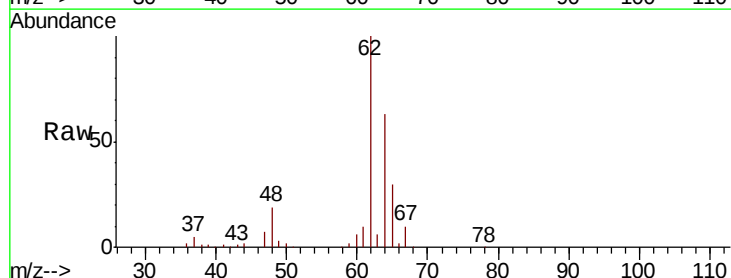
Acq: 06 Jul 2020 21:01

Tgt Ion: 62 Resp: 119581

Ion Ratio Lower Upper

62 100

64 62.5 25.6 47.4#



Abundance Ion 62.00 (61.70 to 62.70): VU039306.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU039306.D (-1) (-)

1.61

120000

100000

80000

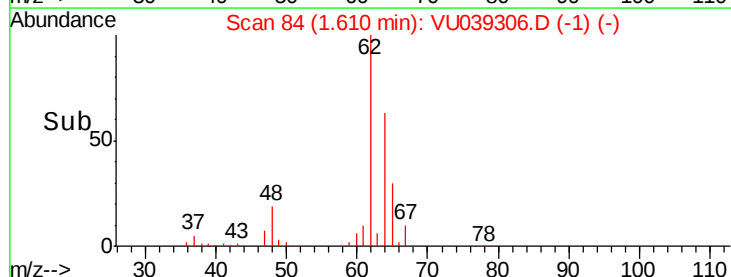
60000

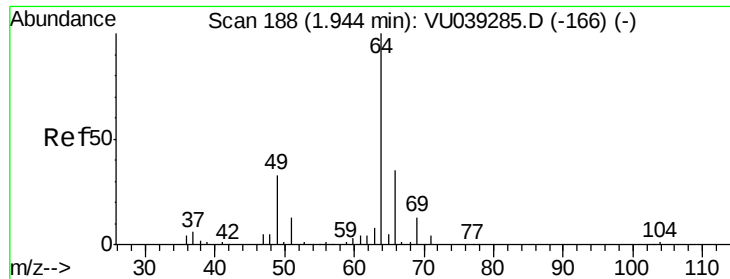
40000

20000

0

Time-->





#8

Chloroethane

Concen: 0.306 ug/L

RT: 2.15 min Scan# 253

Delta R.T. 0.21 min

Lab File: VU039306.D

Acq: 06 Jul 2020 21:01

Instrument :

MSVOA\_U

ClientSampleId :

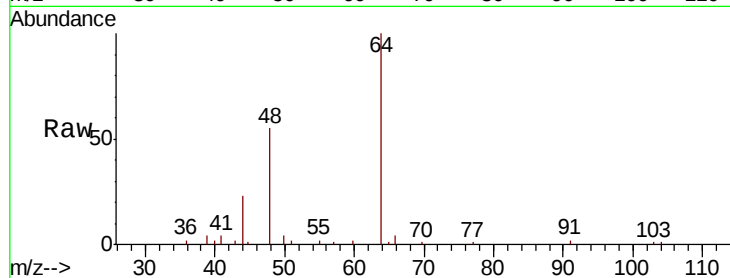
H4309

Tot Ion: 64 Resp: 1797

Ion Ratio Lower Upper

64 100

66 3.9 20.7 38.5#

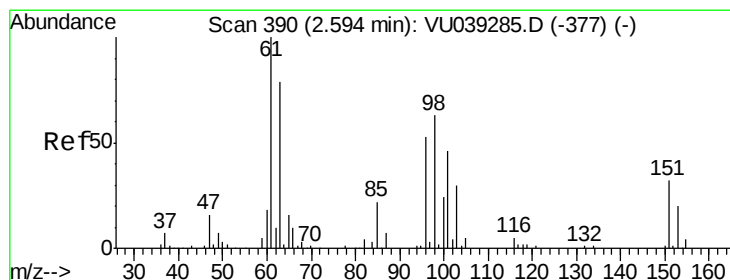
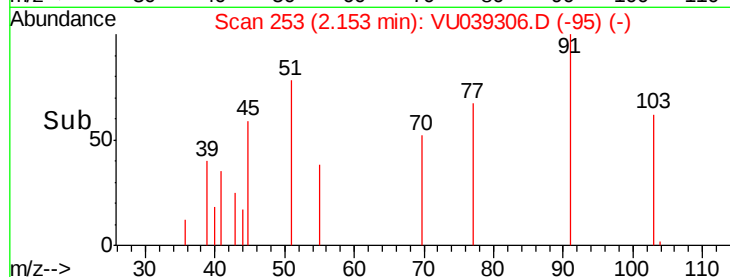


Abundance Ion 64.10 (63.80 to 64.80): VU039285.D (-166) (-)

Ion 66.05 (65.75 to 66.75): VU039285.D (-166) (-)

2.15

Time-->



#12

1,1-Dichloroethene

Concen: 0.126 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU039306.D

Acq: 06 Jul 2020 21:01

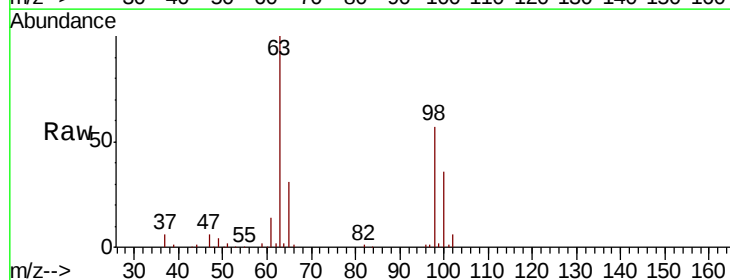
Tgt Ion: 96 Resp: 824

Ion Ratio Lower Upper

96 100

61 1188.9 123.8 230.0#

63 8570.7 112.1 208.3#



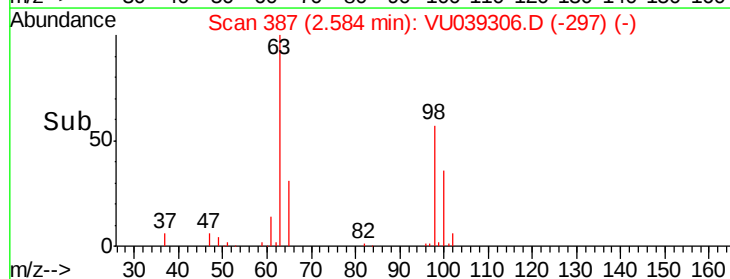
Abundance Ion 96.00 (95.70 to 96.70): VU039285.D (-377) (-)

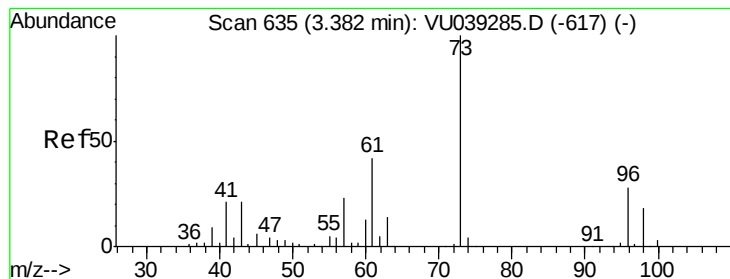
Ion 61.05 (60.75 to 61.75): VU039285.D (-377) (-)

Ion 63.00 (62.70 to 63.70): VU039285.D (-377) (-)

2.58

Time-->



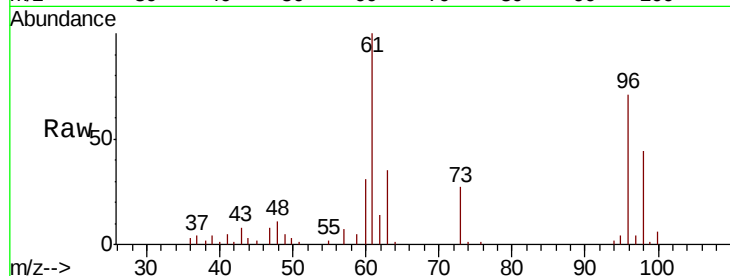


#17

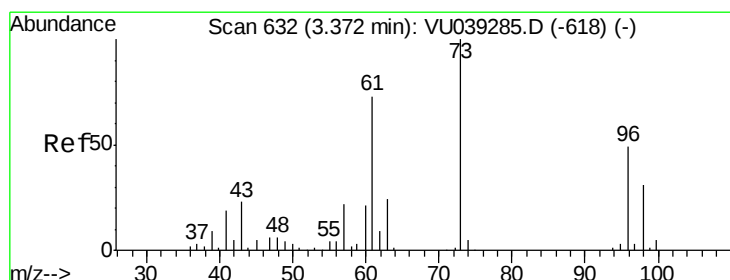
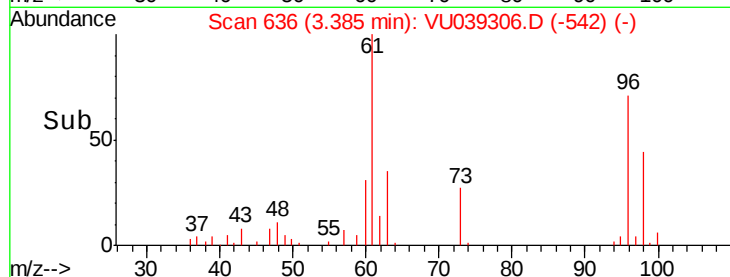
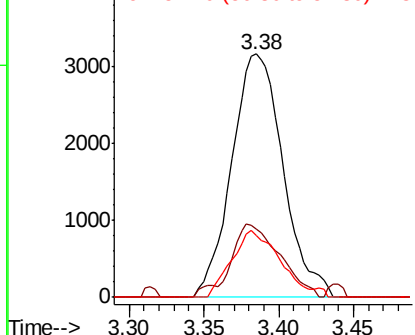
Methvl tert-butvl Ether  
 Concen: 0.353 ug/L  
 RT: 3.38 min Scan# 636  
 Delta R.T. 0.00 min  
 Lab File: VU039306.D  
 Acq: 06 Jul 2020 21:01

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H4309

Tot Ion: 73 Resp: 7565  
 Ion Ratio Lower Upper  
 73 100  
 43 28.9 17.5 26.3#  
 57 26.2 18.6 27.8



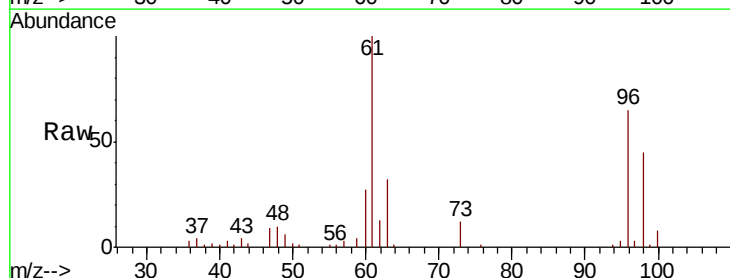
Abundance Ion 73.10 (72.80 to 73.80): VU0  
 Ion 43.05 (42.75 to 43.75): VU0  
 Ion 57.10 (56.80 to 57.80): VU0



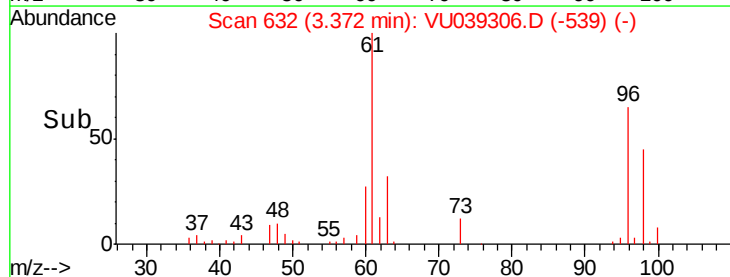
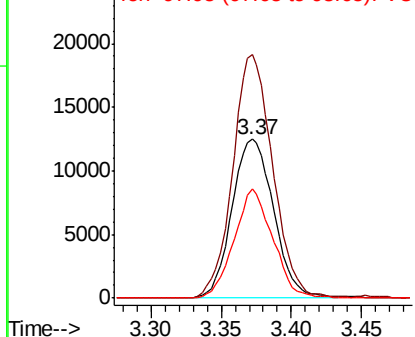
#18

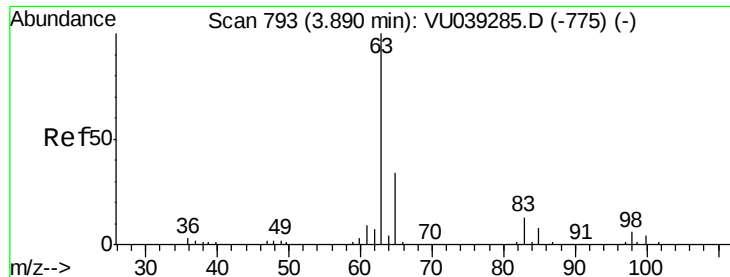
trans-1,2-Dichloroethene  
 Concen: 3.647 ug/L  
 RT: 3.37 min Scan# 632  
 Delta R.T. -0.00 min  
 Lab File: VU039306.D  
 Acq: 06 Jul 2020 21:01

Tgt Ion: 96 Resp: 25860  
 Ion Ratio Lower Upper  
 96 100  
 61 153.1 104.7 194.5  
 98 68.6 43.1 80.1



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

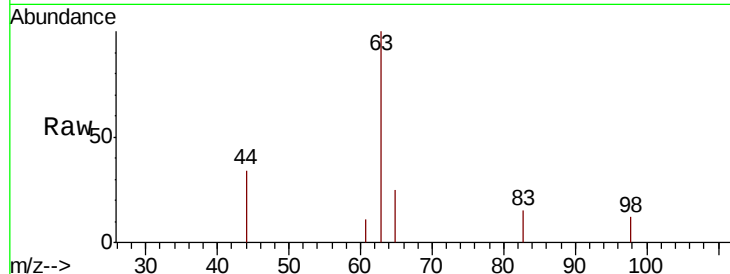




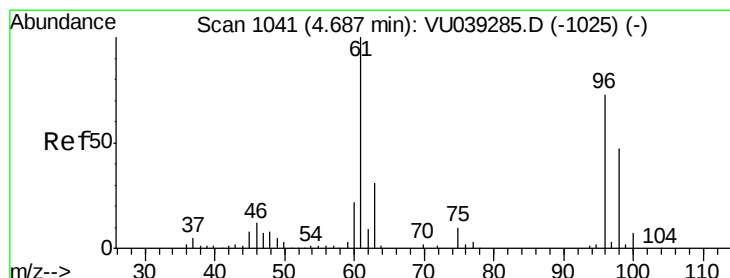
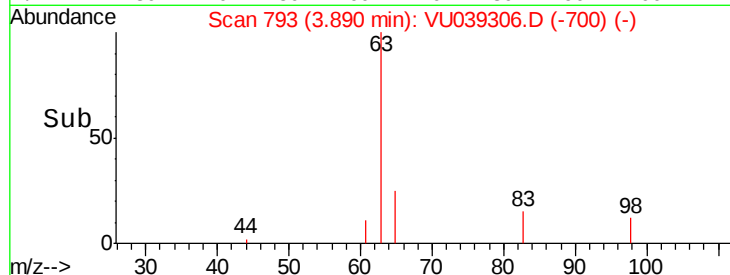
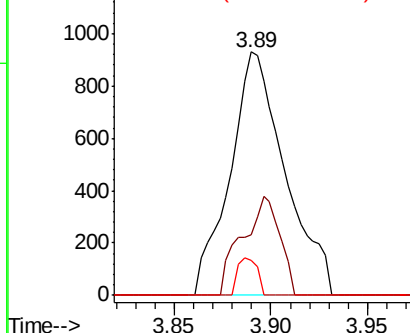
#19  
 1,1-Dichloroethane  
 Concen: 0.130 ug/L  
 RT: 3.89 min Scan# 793  
 Delta R.T. -0.00 min  
 Lab File: VU039306.D  
 Acq: 06 Jul 2020 21:01

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 H4309

Tot Ion: 63 Resp: 1844  
 Ion Ratio Lower Upper  
 63 100  
 65 24.8 22.7 42.3  
 83 14.6 9.1 16.9

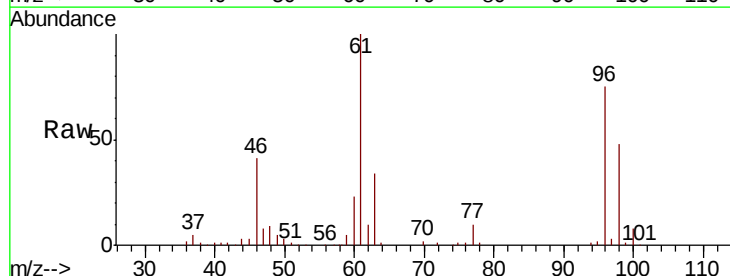


Abundance Ion 63.10 (62.80 to 63.80): VU0  
 Ion 65.10 (64.80 to 65.80): VU0  
 Ion 83.05 (82.75 to 83.75): VU0

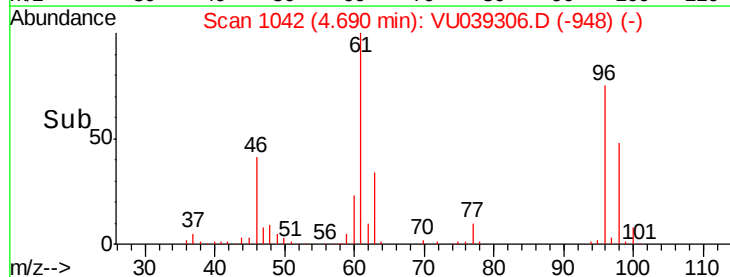
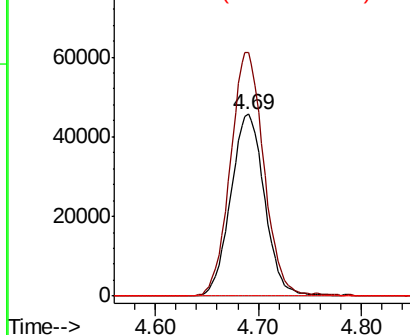


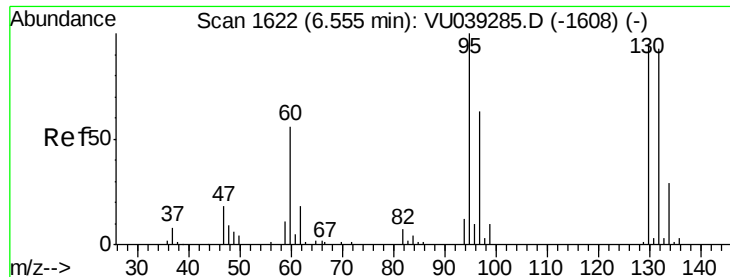
#22  
 cis-1,2-Dichloroethene  
 Concen: 12.933 ug/L  
 RT: 4.69 min Scan# 1042  
 Delta R.T. 0.00 min  
 Lab File: VU039306.D  
 Acq: 06 Jul 2020 21:01

Tgt Ion: 96 Resp: 104498  
 Ion Ratio Lower Upper  
 96 100  
 61 133.9 93.7 173.9  
 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: 0.220 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. -0.00 min

Lab File: VU039306.D

Acq: 06 Jul 2020 21:01

Instrument :

MSVOA\_U

ClientSampleId :

H4309

Tot Ion: 95 Resp: 1754

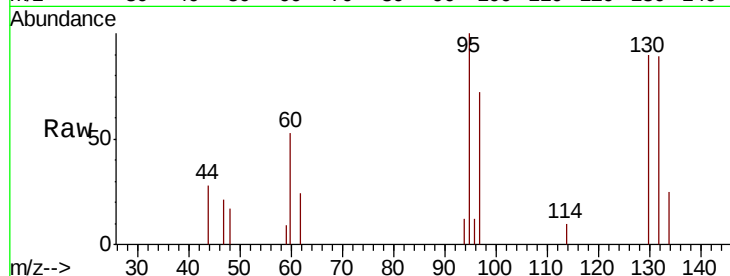
Ion Ratio Lower Upper

95 100

97 72.1 47.0 87.2

132 89.2 65.0 120.8

130 89.5 69.8 129.6

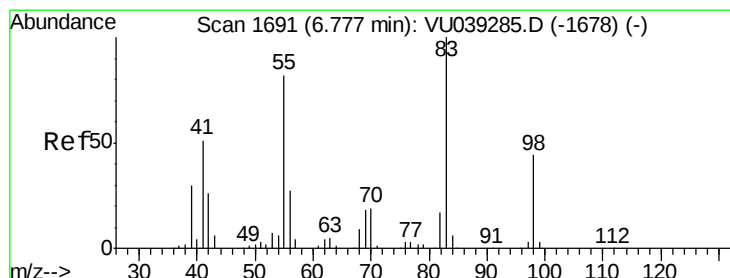
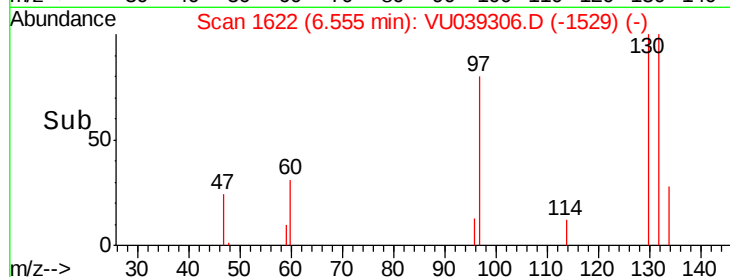
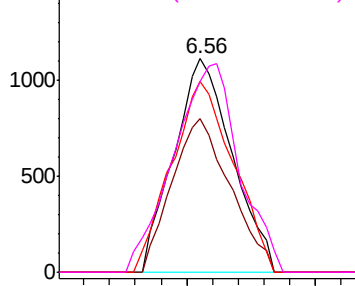


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.987 ug/L

RT: 6.71 min Scan# 1669

Delta R.T. -0.07 min

Lab File: VU039306.D

Acq: 06 Jul 2020 21:01

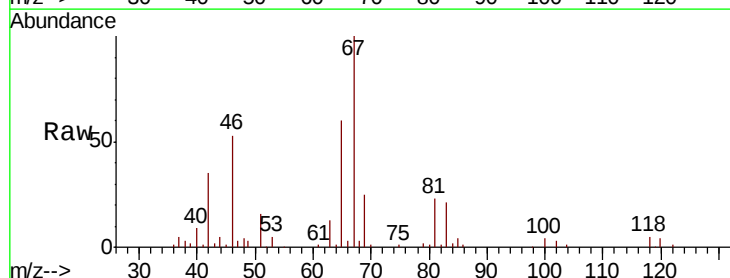
Tgt Ion: 83 Resp: 12582

Ion Ratio Lower Upper

83 100

55 0.2 63.3 94.9#

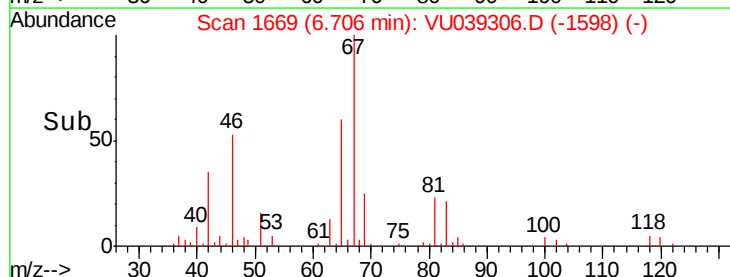
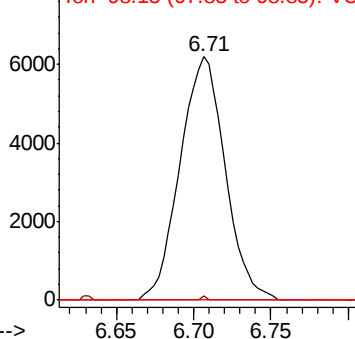
98 0.0 37.4 56.2#

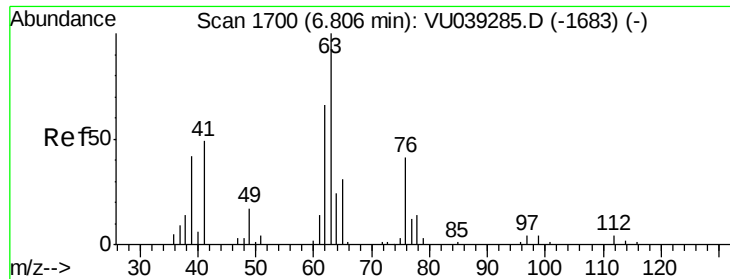


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

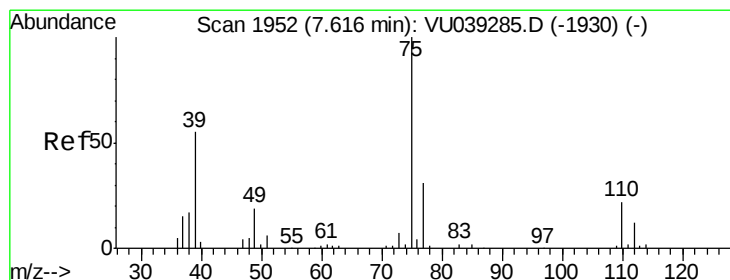
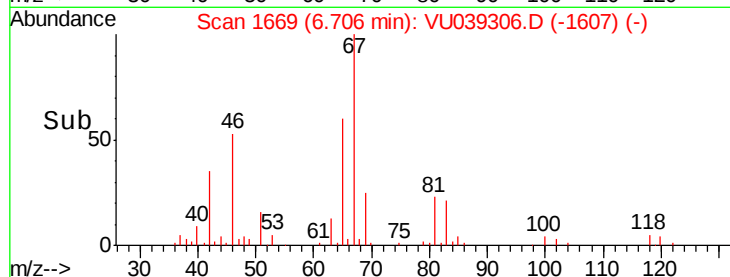
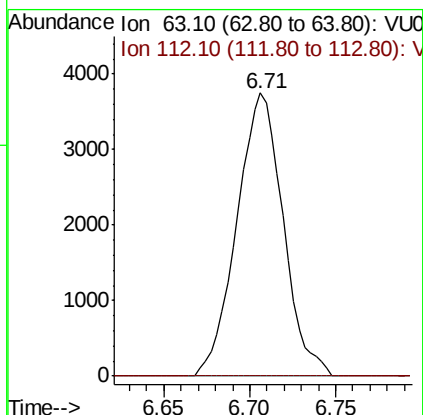
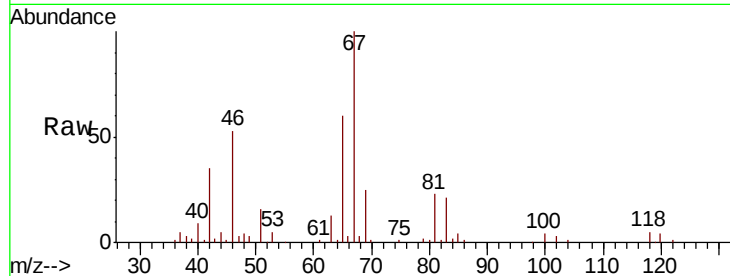




#37  
 1,2-Dichloropropane  
 Concen: 0.815 ug/L  
 RT: 6.71 min Scan# 1669  
 Delta R.T. -0.10 min  
 Lab File: VU039306.D  
 Acq: 06 Jul 2020 21:01

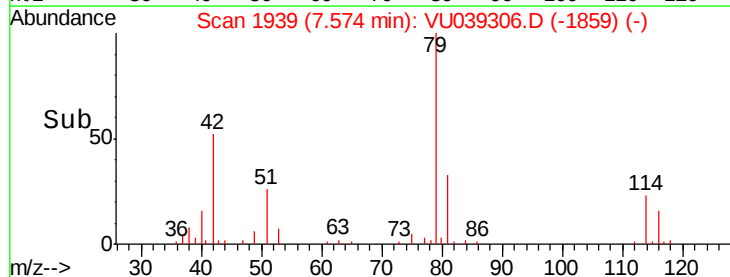
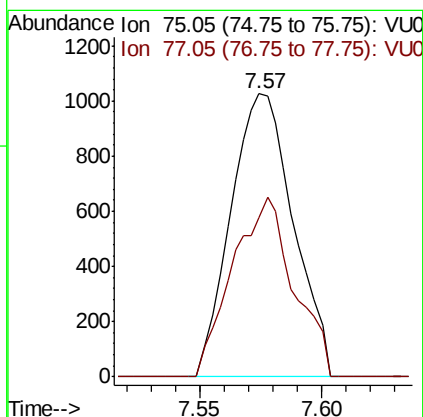
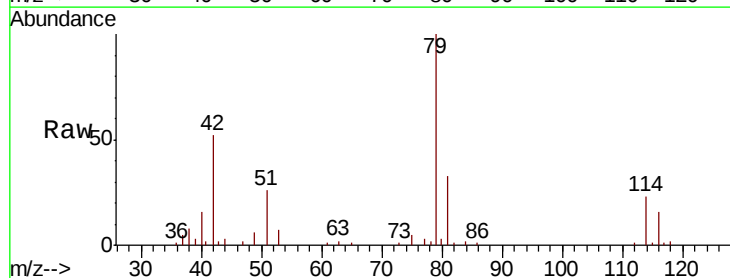
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H4309

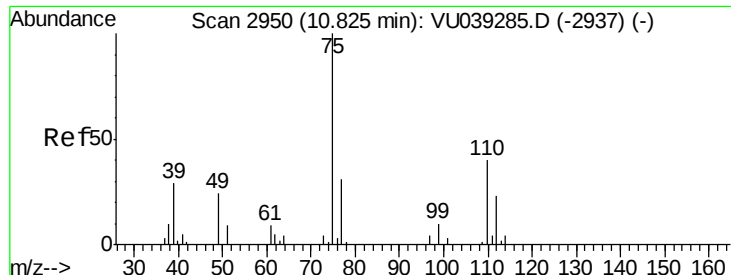
Tot Ion: 63 Resp: 7022  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 2.6 3.8#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.136 ug/L  
 RT: 7.57 min Scan# 1939  
 Delta R.T. -0.04 min  
 Lab File: VU039306.D  
 Acq: 06 Jul 2020 21:01

Tgt Ion: 75 Resp: 1822  
 Ion Ratio Lower Upper  
 75 100  
 77 56.1 23.3 43.3#





#59

1,2,3-Trichloropropane

Concen: 1.207 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.98 min

Lab File: VU039306.D

Acq: 06 Jul 2020 21:01

Instrument :

MSVOA\_U

ClientSampleId :

H4309

Tot Ion: 75 Resp: 7817

Ion Ratio Lower Upper

75 100

77 39.0 27.7 41.5

