

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080720\  
 Data File : VU039777.D  
 Acq On : 07 Aug 2020 11:16  
 Operator : SY/MD  
 Sample : L3572-18  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Aug 08 03:32:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR080320WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Aug 08 03:30:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 76721    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 71715    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 32950    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 21104    | 5.09     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 101.80%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 22904    | 5.11     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 102.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 31017    | 3.72     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 74.40%   |
| 20) 2-Butanone-d5              | 4.66   | 46    | 87606    | 48.08    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 96.16%   |
| 24) Chloroform-d               | 5.08   | 84    | 54413    | 5.26     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 105.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 32105    | 5.21     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 104.20%  |
| 32) Benzene-d6                 | 5.75   | 84    | 97790    | 5.74     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 114.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 32874    | 5.63     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 112.60%  |
| 41) Toluene-d8                 | 7.91   | 98    | 74364    | 4.91     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.20%   |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 10262    | 4.58     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.60%   |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 68863    | 56.80    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 113.60%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 29649    | 5.22     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 104.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 34174    | 6.06     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 121.20%# |

## Target Compounds

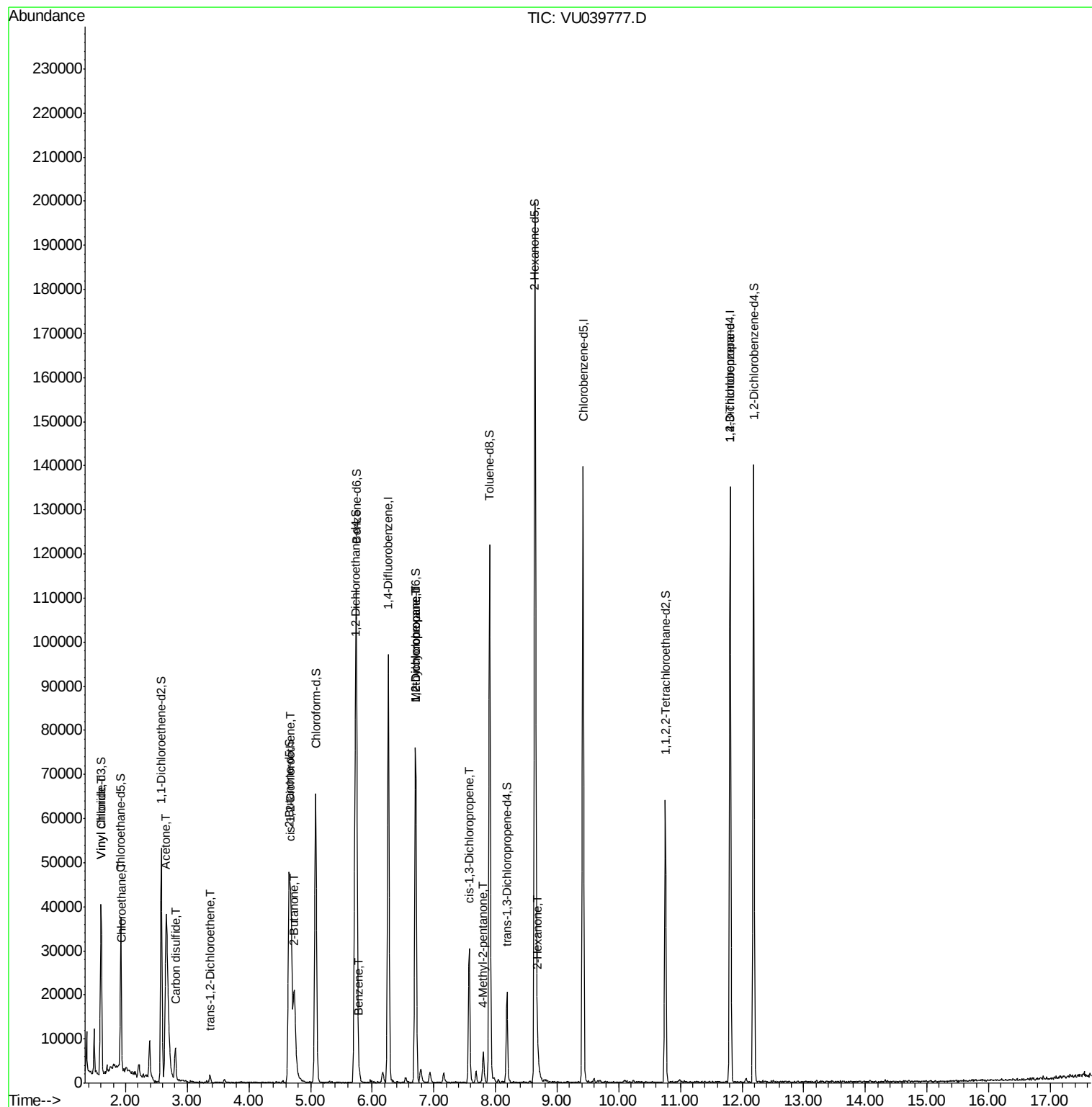
| Target Compounds             | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|------------------------------|-------|------|----------|--------|--------|--------|
| 5) Vinyl chloride            | 1.61  | 62   | 2287     | 0.367  | ug/L # | 78     |
| 8) Chloroethane              | 1.94  | 64   | 355      | 0.078  | ug/L # | 43     |
| 13) Acetone                  | 2.66  | 43   | 79882    | 74.364 | ug/L   | 98     |
| 14) Carbon disulfide         | 2.81  | 76   | 9005     | 0.629  | ug/L   | 97     |
| 18) trans-1,2-Dichloroethene | 3.37  | 96   | 672      | 0.132  | ug/L   | 100    |
| 21) 2-Butanone               | 4.74  | 43   | 34261    | 20.239 | ug/L   | 96     |
| 22) cis-1,2-Dichloroethene   | 4.68  | 96   | 9709     | 1.752  | ug/L   | 90     |
| 33) Benzene                  | 5.79  | 78   | 2620     | 0.134  | ug/L   | 100    |
| 35) Methylcyclohexane        | 6.71  | 83   | 7923     | 0.978  | ug/L # | 19     |
| 37) 1,2-Dichloropropane      | 6.71  | 63   | 4176     | 0.805  | ug/L # | 86     |
| 39) cis-1,3-Dichloropropene  | 7.57  | 75   | 932      | 0.132  | ug/L # | 68     |
| 40) 4-Methyl-2-pentanone     | 7.80  | 43   | 5235     | 1.350  | ug/L # | 86     |
| 48) 2-Hexanone               | 8.69  | 43   | 2558     | 0.913  | ug/L # | 79     |
| 59) 1,2,3-Trichloropropane   | 11.81 | 75   | 4276     | 1.142  | ug/L # | 75     |

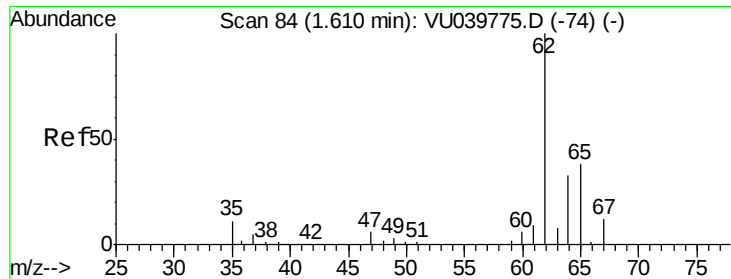
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Aug 08 03:32:30 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR080320WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Aug 08 03:30:58 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.367 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU039777.D

Acq: 07 Aug 2020 11:16

Instrument :

MSVOA\_U

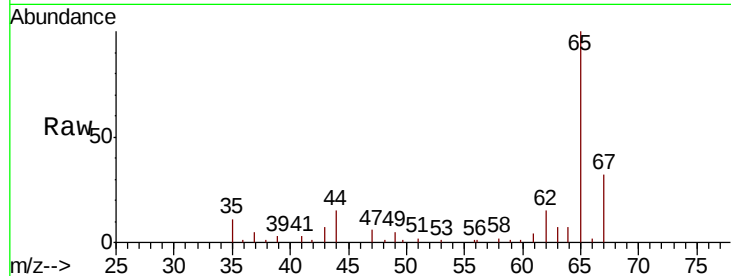
ClientSampled :

Tot Ion: 62 Resp: 2287

Ion Ratio Lower Upper

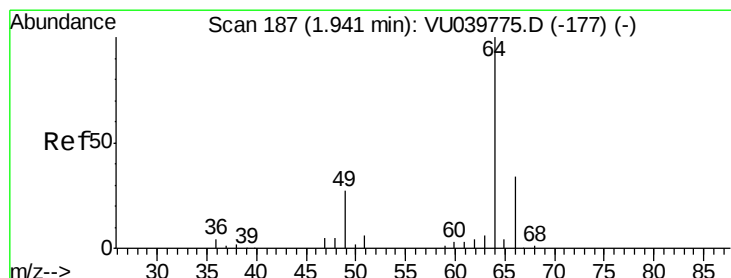
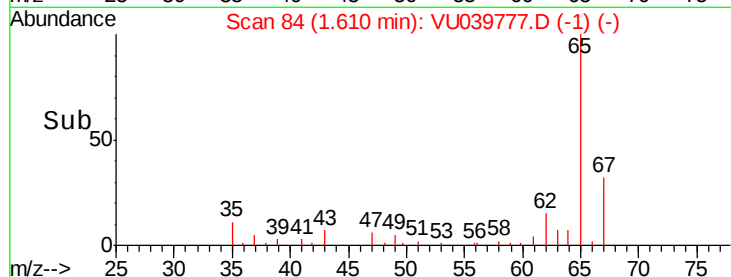
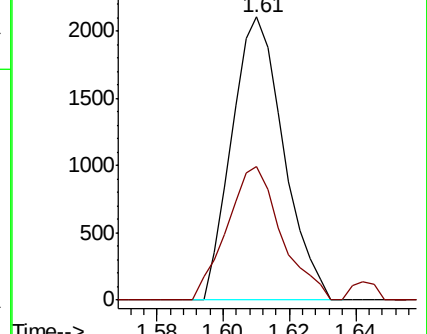
62 100

64 47.3 24.1 44.7#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#8

Chloroethane

Concen: 0.078 ug/L

RT: 1.94 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU039777.D

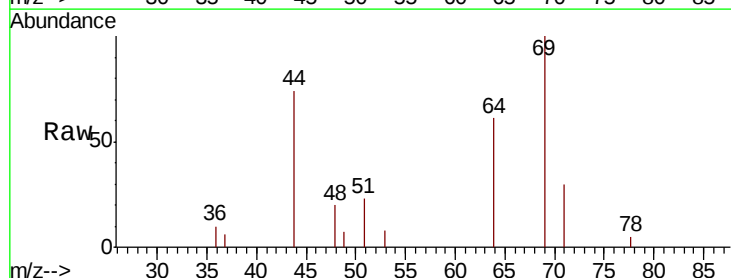
Acq: 07 Aug 2020 11:16

Tgt Ion: 64 Resp: 355

Ion Ratio Lower Upper

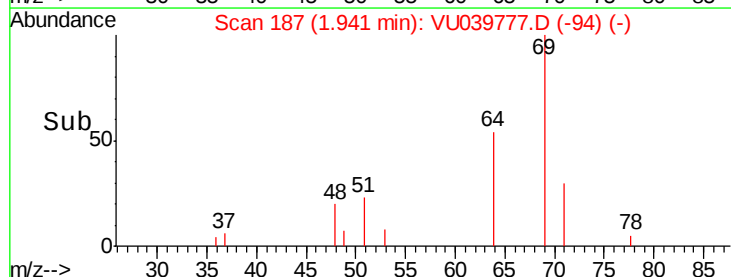
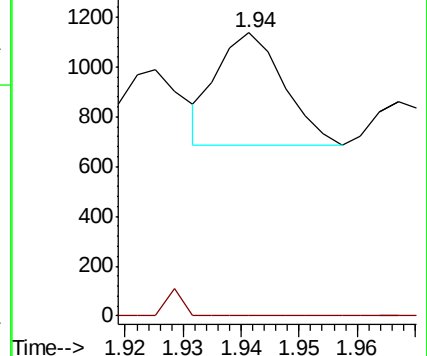
64 100

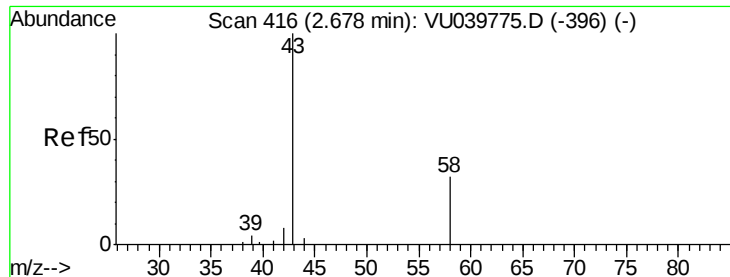
66 0.0 22.3 41.3#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#13

Acetone

Concen: 74.364 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.02 min

Lab File: VU039777.D

Acq: 07 Aug 2020 11:16

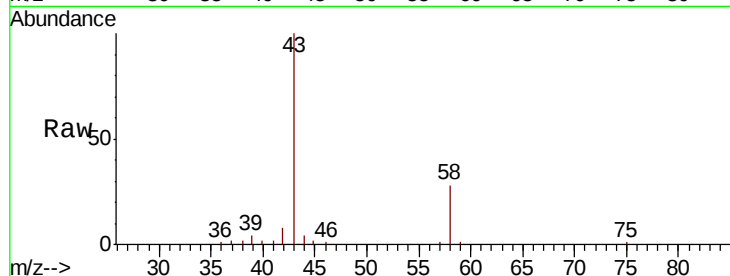
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 79882

Ion Ratio Lower Upper

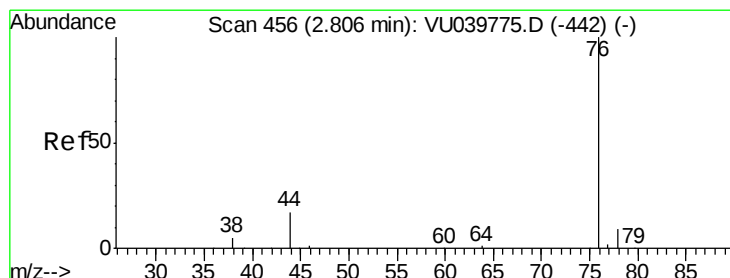
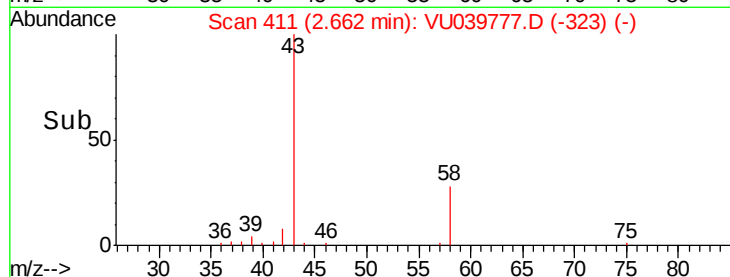
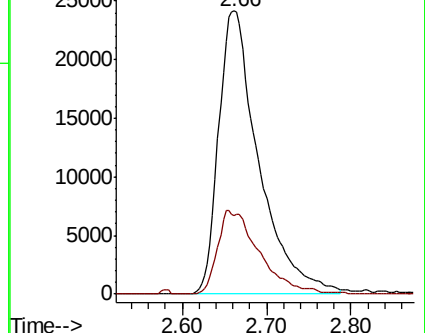
43 100

58 30.0 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU039777.D (-396) (-)

Ion 58.05 (57.75 to 58.75): VU039777.D (-396) (-)



#14

Carbon disulfide

Concen: 0.629 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU039777.D

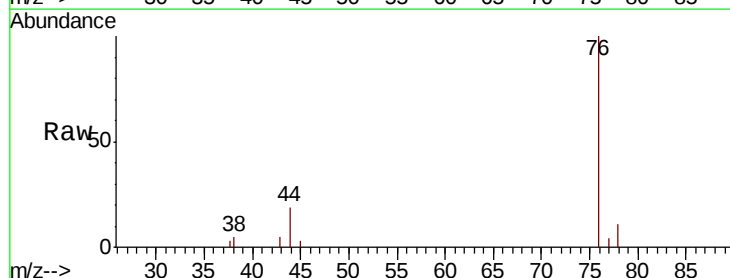
Acq: 07 Aug 2020 11:16

Tgt Ion: 76 Resp: 9005

Ion Ratio Lower Upper

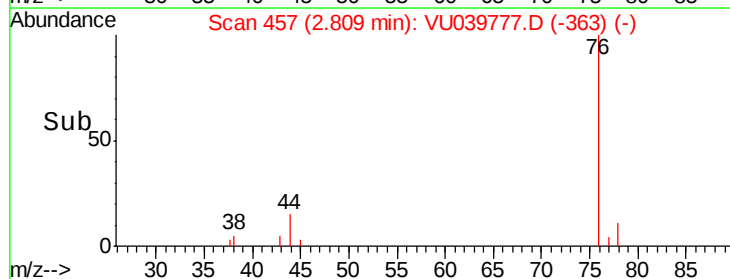
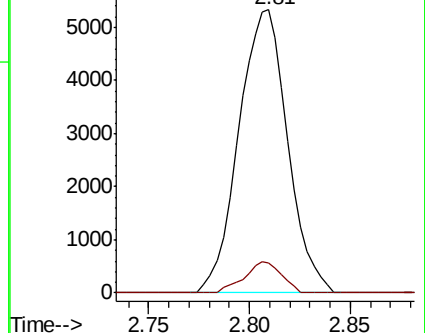
76 100

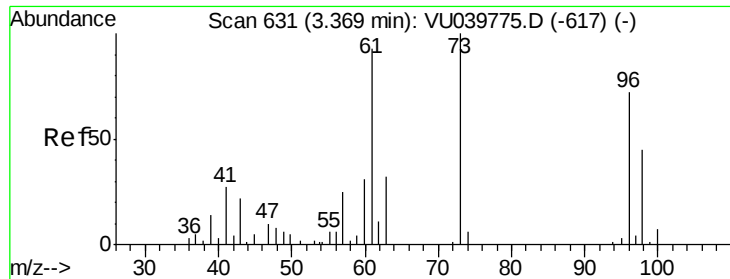
78 10.6 7.8 11.6



Abundance Ion 76.05 (75.75 to 76.75): VU039777.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU039777.D (-363) (-)

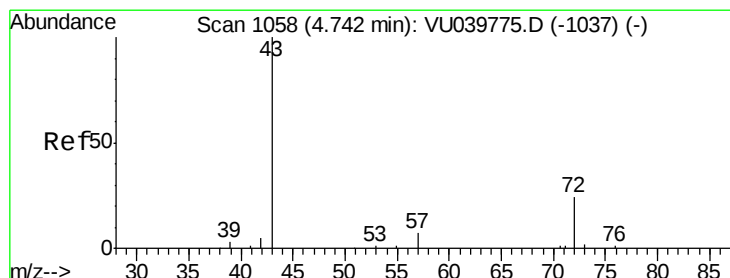
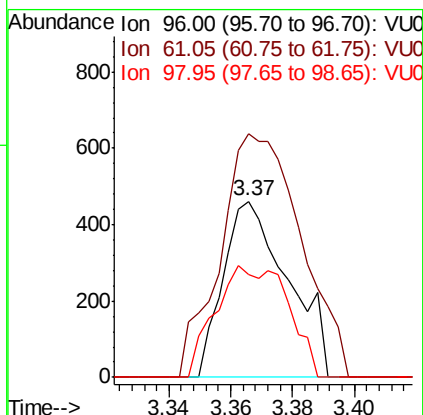
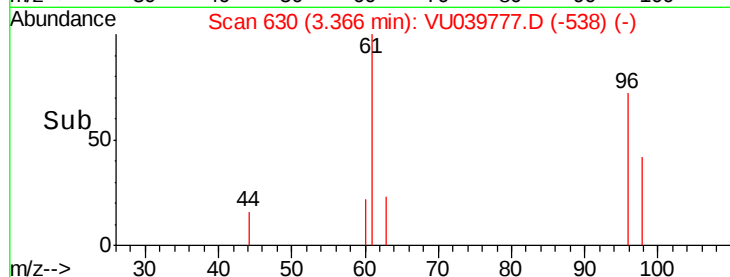
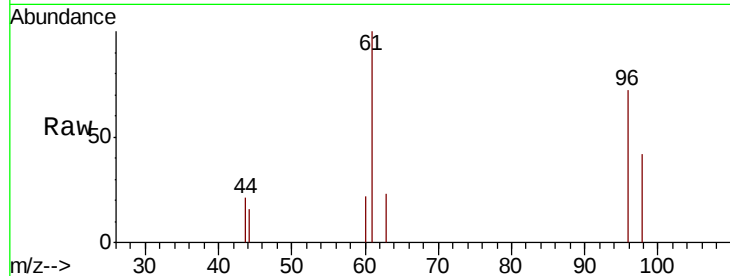




#18  
trans-1,2-Dichloroethene  
Concen: 0.132 ug/L  
RT: 3.37 min Scan# 630  
Delta R.T. -0.00 min  
Lab File: VU039777.D  
Acq: 07 Aug 2020 11:16

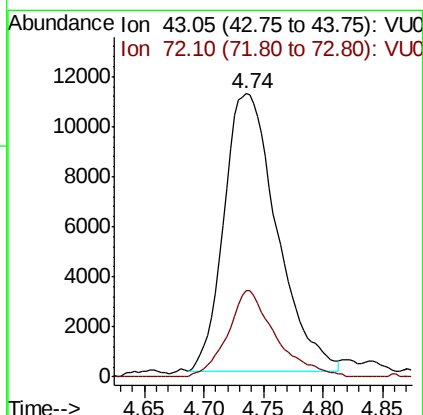
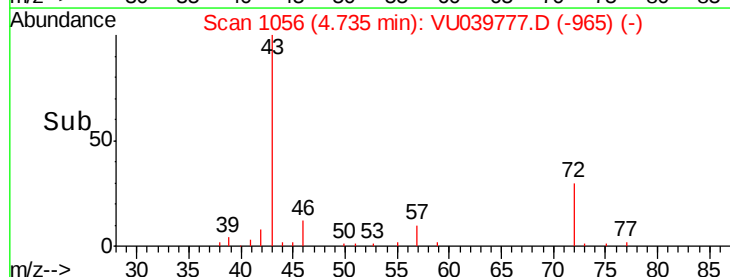
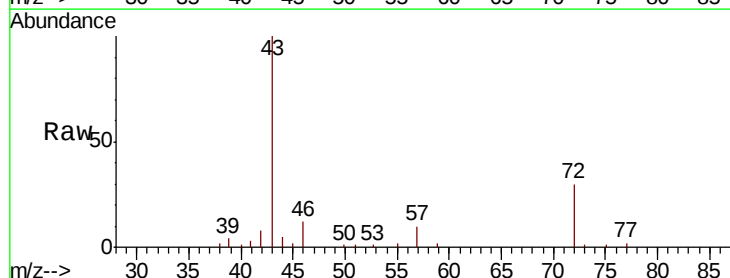
Instrument :  
MSVOA\_U  
ClientSampleId :

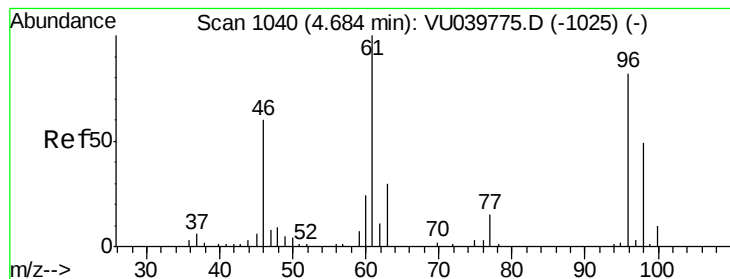
Tot Ion: 96 Resp: 672  
Ion Ratio Lower Upper  
96 100  
61 138.1 96.5 179.1  
98 58.7 40.9 76.0



#21  
2-Butanone  
Concen: 20.239 ug/L  
RT: 4.74 min Scan# 1056  
Delta R.T. -0.01 min  
Lab File: VU039777.D  
Acq: 07 Aug 2020 11:16

Tgt Ion: 43 Resp: 34261  
Ion Ratio Lower Upper  
43 100  
72 28.1 13.0 39.0





#22

cis-1,2-Dichloroethene

Concen: 1.752 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU039777.D

Acq: 07 Aug 2020 11:16

Instrument :

MSVOA\_U

ClientSampleId :

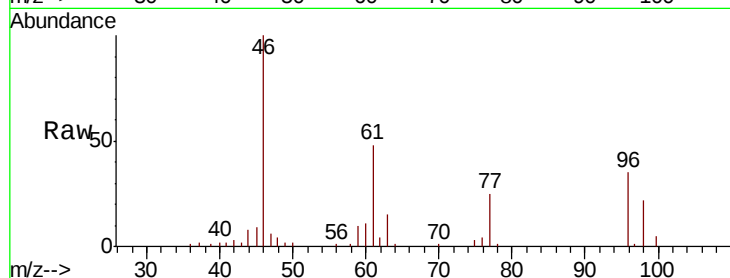
Tot Ion: 96 Resp: 9709

Ion Ratio Lower Upper

96 100

61 135.9 87.4 162.2

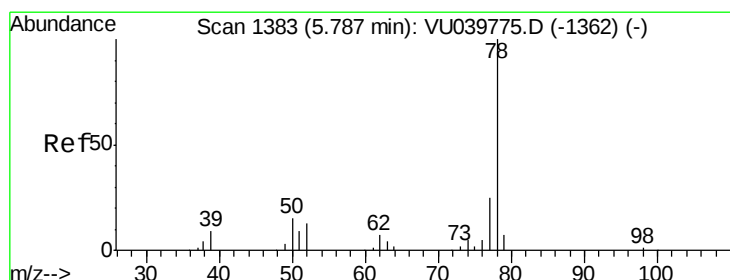
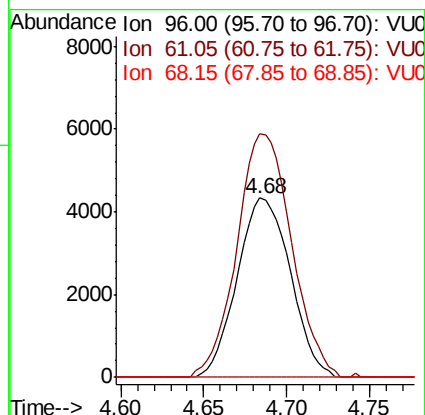
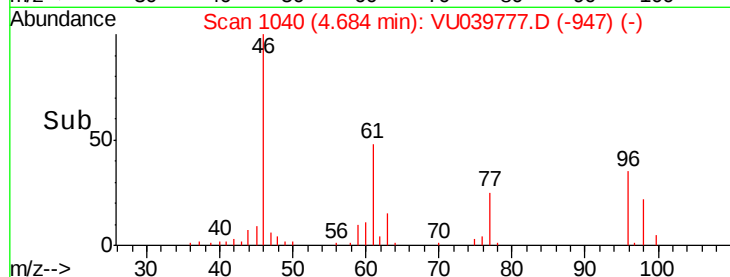
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU039777.D (-1290) (-)

Ion 61.05 (60.75 to 61.75): VU039777.D (-1290) (-)

Ion 68.15 (67.85 to 68.85): VU039777.D (-1290) (-)



#33

Benzene

Concen: 0.134 ug/L

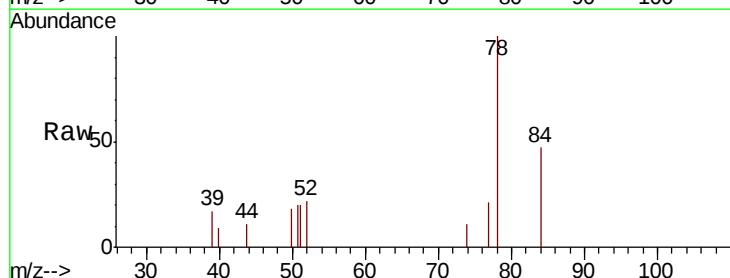
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

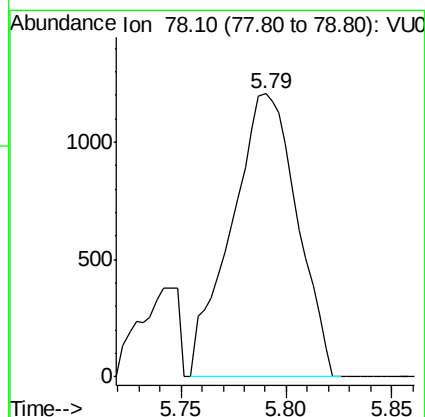
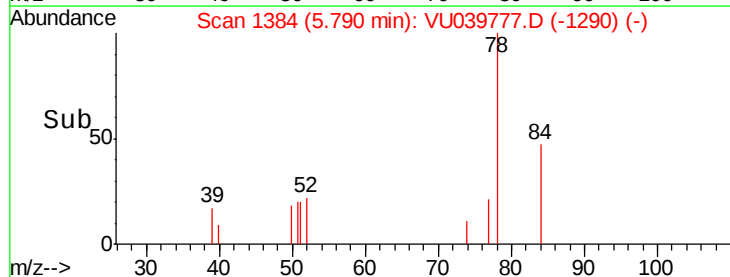
Lab File: VU039777.D

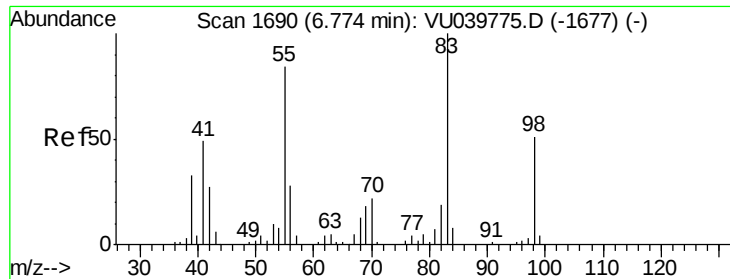
Acq: 07 Aug 2020 11:16

Tgt Ion: 78 Resp: 2620



Abundance Ion 78.10 (77.80 to 78.80): VU039777.D (-1290) (-)

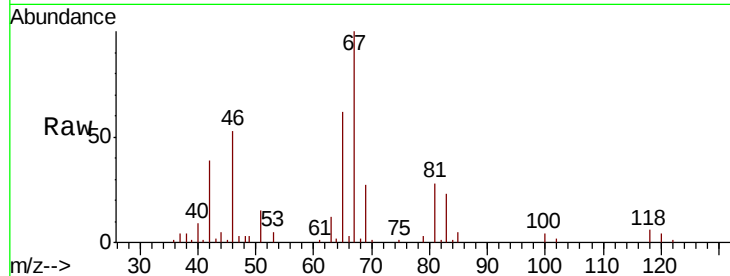




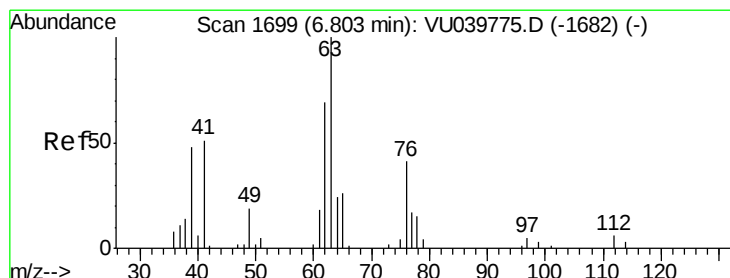
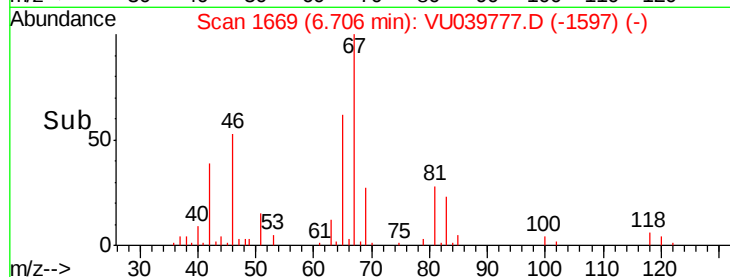
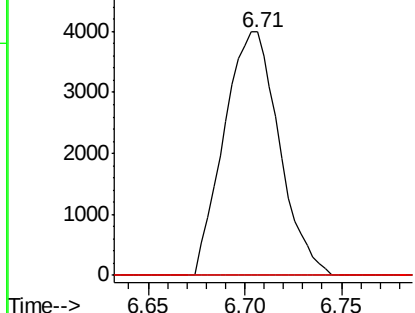
#35  
Methvlcvclohexane  
Concen: 0.978 ug/L  
RT: 6.71 min Scan# 1669  
Delta R.T. -0.07 min  
Lab File: VU039777.D  
Acq: 07 Aug 2020 11:16

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 83 Resp: 7923  
Ion Ratio Lower Upper  
83 100  
55 0.0 59.4 89.0#  
98 0.6 39.0 58.4#

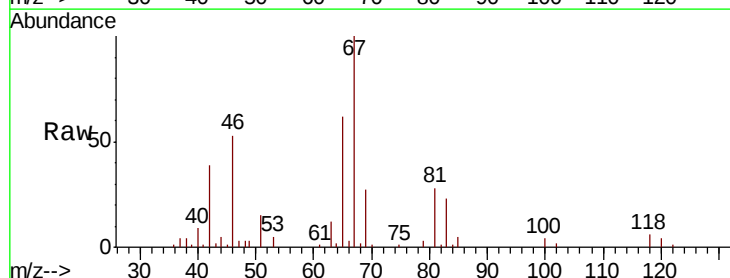


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

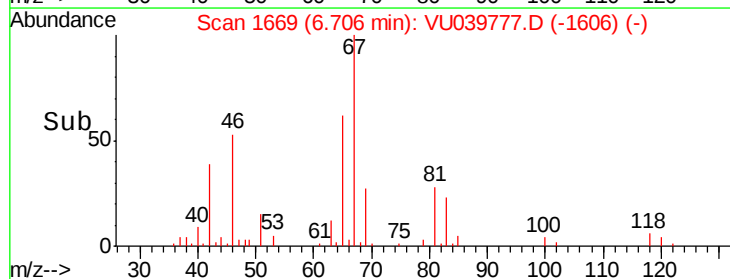
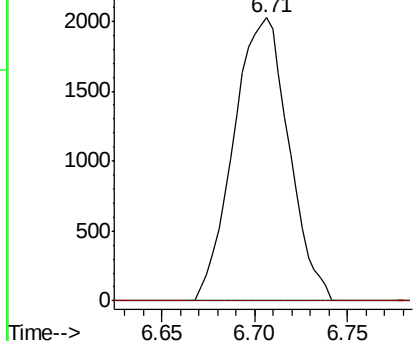


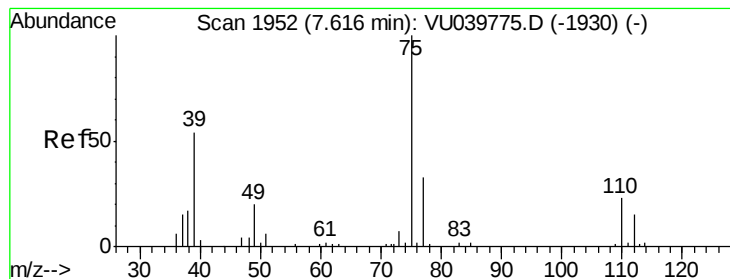
#37  
1,2-Dichloropropane  
Concen: 0.805 ug/L  
RT: 6.71 min Scan# 1669  
Delta R.T. -0.10 min  
Lab File: VU039777.D  
Acq: 07 Aug 2020 11:16

Tgt Ion: 63 Resp: 4176  
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



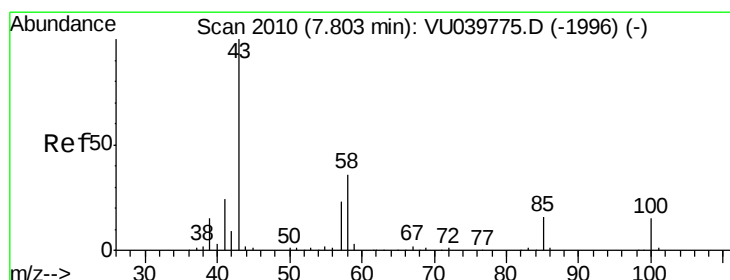
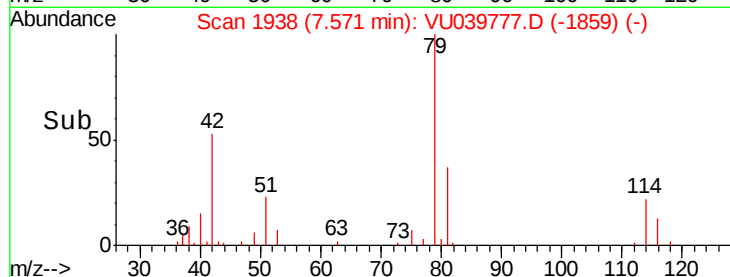
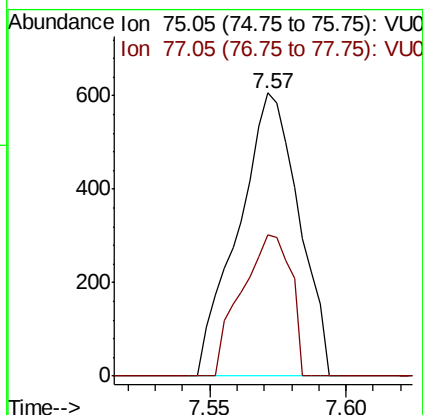
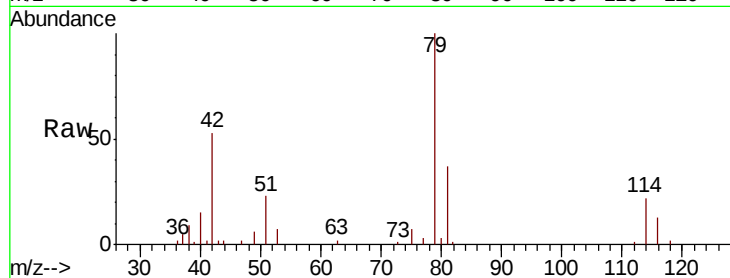


#39

cis-1,3-Dichloropropene  
 Concen: 0.132 ug/L  
 RT: 7.57 min Scan# 1938  
 Delta R.T. -0.05 min  
 Lab File: VU039777.D  
 Acq: 07 Aug 2020 11:16

Instrument :  
 MSVOA\_U  
 ClientSampleId :

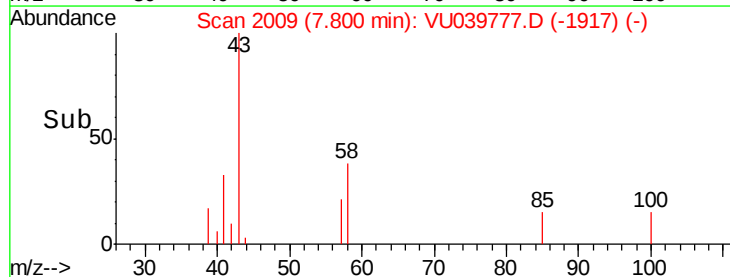
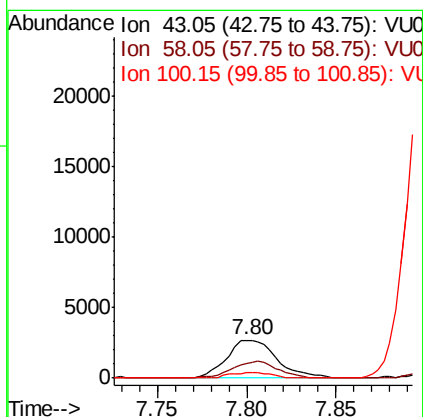
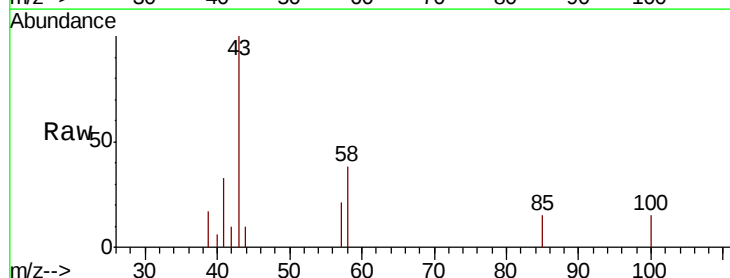
Tot Ion: 75 Resp: 932  
 Ion Ratio Lower Upper  
 75 100  
 77 49.8 22.4 41.6#

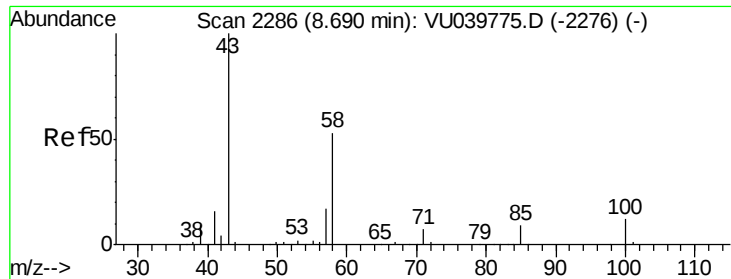


#40

4-Methyl-2-pentanone  
 Concen: 1.350 ug/L  
 RT: 7.80 min Scan# 2009  
 Delta R.T. -0.00 min  
 Lab File: VU039777.D  
 Acq: 07 Aug 2020 11:16

Tgt Ion: 43 Resp: 5235  
 Ion Ratio Lower Upper  
 43 100  
 58 39.8 29.4 44.2  
 100 0.0 11.7 17.5#

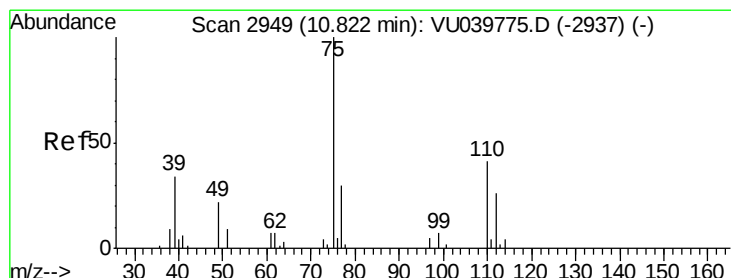
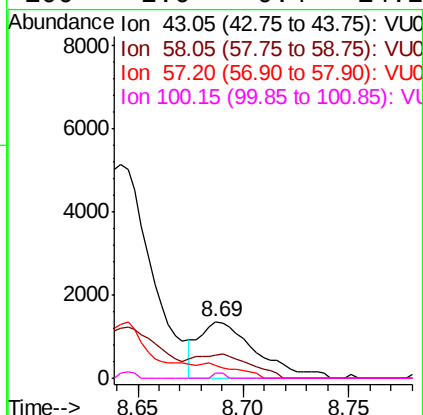
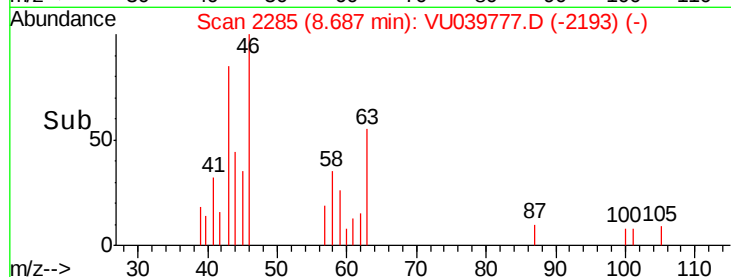
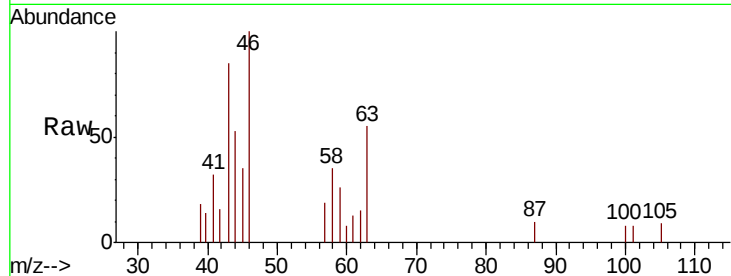




#48  
2-Hexanone  
Concen: 0.913 ug/L  
RT: 8.69 min Scan# 2285  
Delta R.T. -0.00 min  
Lab File: VU039777.D  
Acq: 07 Aug 2020 11:16

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 2558  
Ion Ratio Lower Upper  
43 100  
58 43.0 41.8 62.8  
57 0.0 14.2 21.4#  
100 2.0 9.4 14.2#



#59  
1,2,3-Trichloropropane  
Concen: 1.142 ug/L  
RT: 11.81 min Scan# 3255  
Delta R.T. 0.98 min  
Lab File: VU039777.D  
Acq: 07 Aug 2020 11:16

Tgt Ion: 75 Resp: 4276  
Ion Ratio Lower Upper  
75 100  
77 44.6 24.6 37.0#

