

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101520\  
 Data File : VU040733.D  
 Acq On : 15 Oct 2020 20:10  
 Operator : SY/MD  
 Sample : L4354-06  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ETZ16

Quant Time: Oct 16 04:34:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100820WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Oct 16 04:23:22 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 110524   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 111545   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 48568    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 45369    | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 99.00%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 36917    | 5.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 104.60% |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 66836    | 3.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 74.60%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 177977   | 60.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 121.46% |
| 24) Chloroform-d               | 5.08   | 84    | 89261    | 5.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 111.00% |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 55653    | 5.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 113.60% |
| 32) Benzene-d6                 | 5.75   | 84    | 160131   | 5.32     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 106.40% |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 53563    | 5.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 107.20% |
| 41) Toluene-d8                 | 7.91   | 98    | 125761   | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.40%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 20111    | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 95.00%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 113464   | 52.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 104.08% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 49583    | 5.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 110.60% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 53731    | 5.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 119.40% |

## Target Compounds

|                                |      |     |         |               | Ovalue |
|--------------------------------|------|-----|---------|---------------|--------|
| 3) Chloromethane               | 1.53 | 50  | 917     | 0.098 ug/L #  | 43     |
| 5) Vinyl chloride              | 1.61 | 62  | 232011  | 23.525 ug/L # | 67     |
| 8) Chloroethane                | 2.03 | 64  | 1438    | 0.229 ug/L #  | 49     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.58 | 101 | 511     | 0.056 ug/L #  | 38     |
| 12) 1,1-Dichloroethene         | 2.59 | 96  | 6721    | 0.852 ug/L #  | 1      |
| 14) Carbon disulfide           | 2.81 | 76  | 1445    | 0.065 ug/L #  | 76     |
| 18) trans-1,2-Dichloroethene   | 3.37 | 96  | 46707   | 5.658 ug/L    | 97     |
| 22) cis-1,2-Dichloroethene     | 4.69 | 96  | 2753139 | 309.265 ug/L  | 99     |
| 30) Cyclohexane                | 5.41 | 56  | 1320    | 0.096 ug/L #  | 22     |
| 33) Benzene                    | 5.79 | 78  | 891     | 0.025 ug/L    | 100    |
| 34) Trichloroethene            | 6.56 | 95  | 1377    | 0.148 ug/L    | 89     |
| 35) Methylcyclohexane          | 6.70 | 83  | 13145   | 0.998 ug/L #  | 14     |
| 37) 1,2-Dichloropropane        | 6.71 | 63  | 6297    | 0.631 ug/L #  | 87     |
| 39) cis-1,3-Dichloropropene    | 7.58 | 75  | 1586    | 0.116 ug/L #  | 75     |
| 44) trans-1,3-Dichloropropene  | 8.19 | 75  | 992     | 0.079 ug/L #  | 24     |
| 48) 2-Hexanone                 | 8.64 | 43  | 19063   | 3.216 ug/L #  | 74     |
| 52) Ethylbenzene               | 9.57 | 91  | 2168    | 0.055 ug/L #  | 75     |

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Quant Time: Oct 16 04:34:45 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100820WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Oct 16 04:23:22 2020  
Response via : Initial Calibration

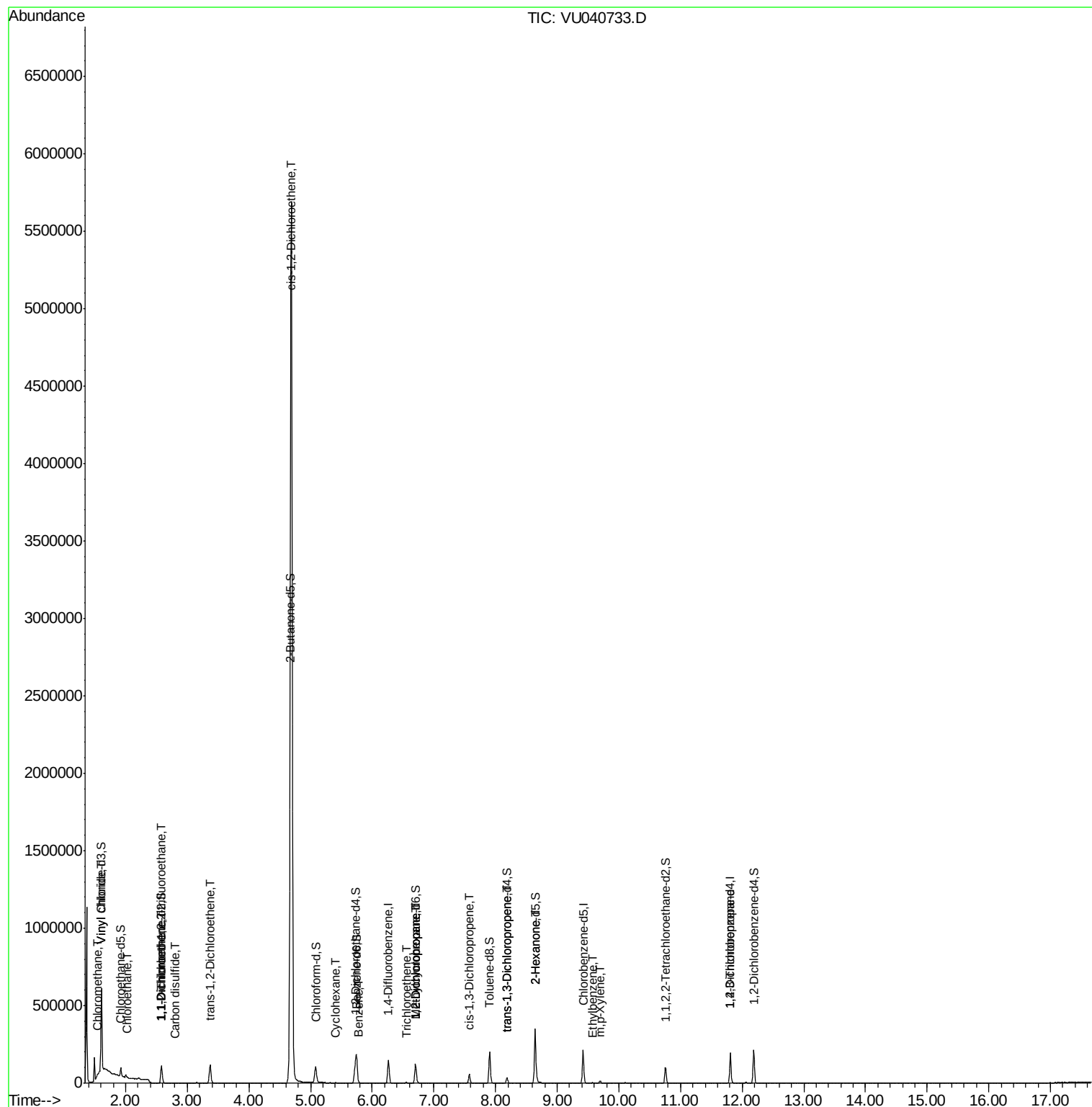
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 53) m,p-Xylene             | 9.70  | 106  | 3629     | 0.252 | ug/L  | 96       |
| 59) 1,2,3-Trichloropropane | 11.81 | 75   | 6625     | 0.903 | ug/L  | 89       |

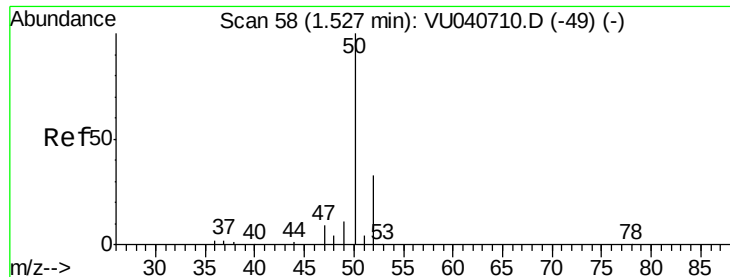
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.098 ug/L

RT: 1.53 min Scan# 59

Delta R.T. 0.00 min

Lab File: VU040733.D

Acq: 15 Oct 2020 20:10

Instrument :

MSVOA\_U

ClientSampleId :

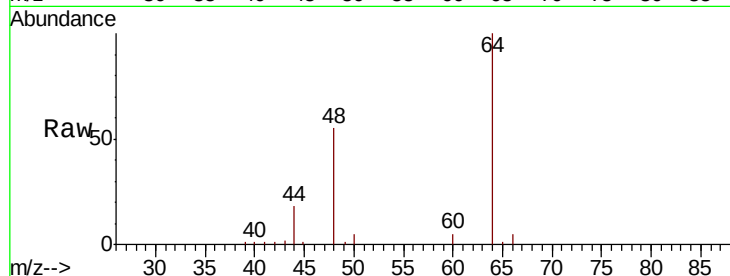
ETZ16

Tot Ion: 50 Resp: 917

Ion Ratio Lower Upper

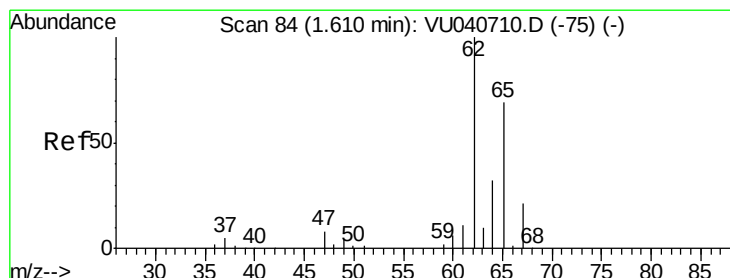
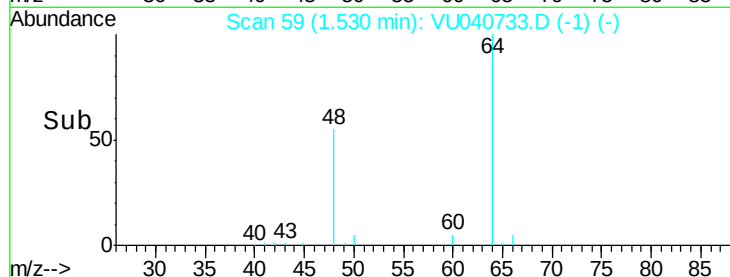
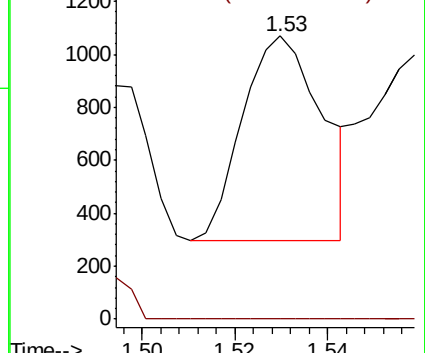
50 100

52 0.0 21.9 40.7#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 23.525 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040733.D

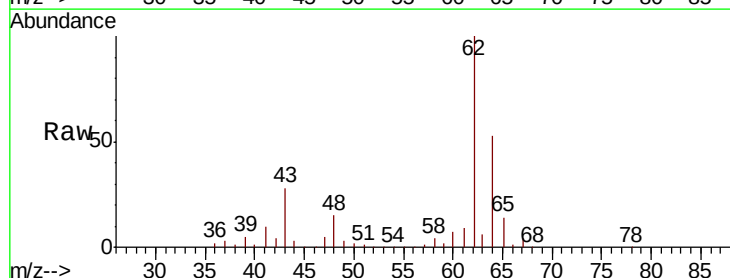
Acq: 15 Oct 2020 20:10

Tgt Ion: 62 Resp: 232011

Ion Ratio Lower Upper

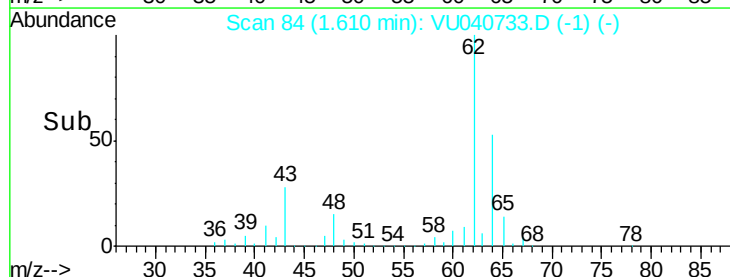
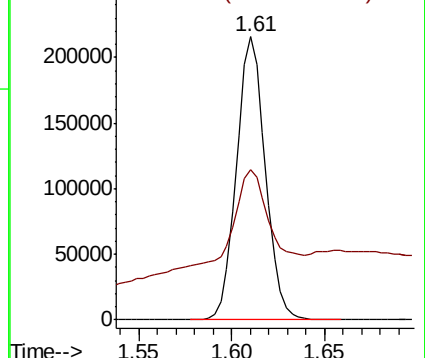
62 100

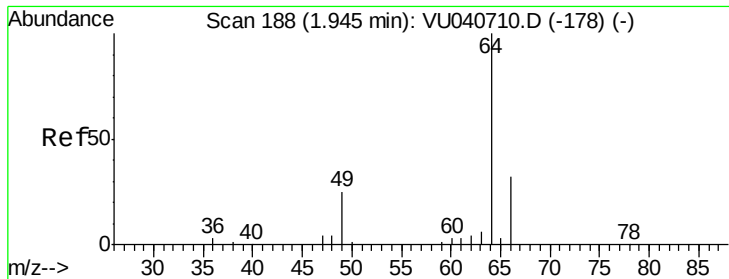
64 53.1 23.7 44.1#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#8

Chloroethane

Concen: 0.229 ug/L

RT: 2.03 min Scan# 216

Delta R.T. 0.09 min

Lab File: VU040733.D

Acq: 15 Oct 2020 20:10

Instrument :

MSVOA\_U

ClientSampleId :

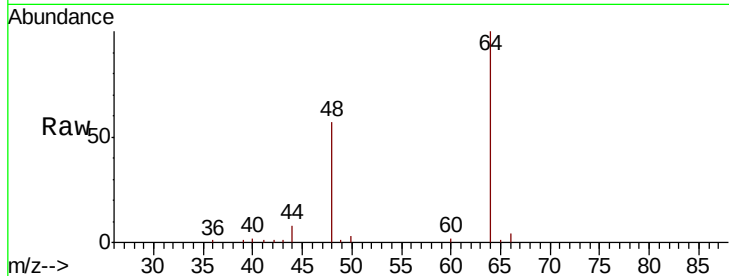
ETZ16

Tot Ion: 64 Resp: 1438

Ion Ratio Lower Upper

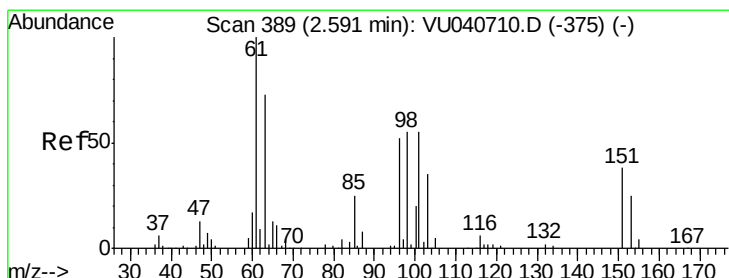
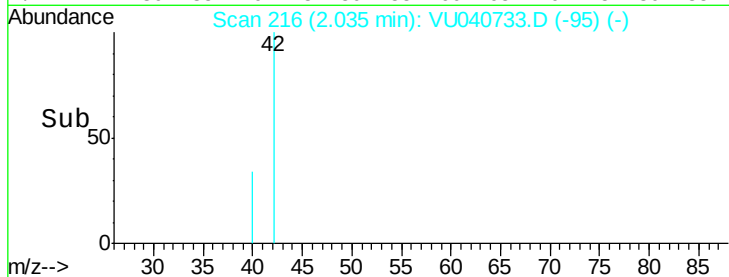
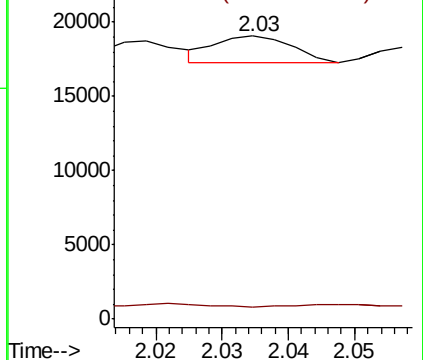
64 100

66 4.5 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.056 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU040733.D

Acq: 15 Oct 2020 20:10

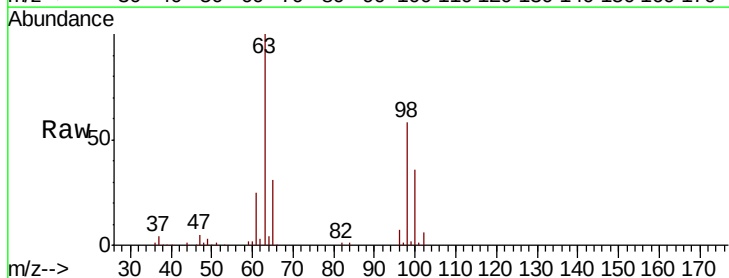
Tgt Ion:101 Resp: 511

Ion Ratio Lower Upper

101 100

85 30.3 36.7 55.1#

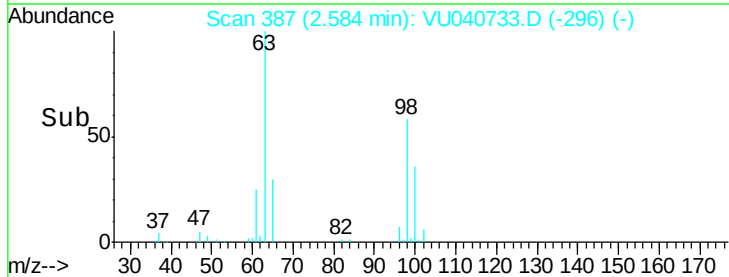
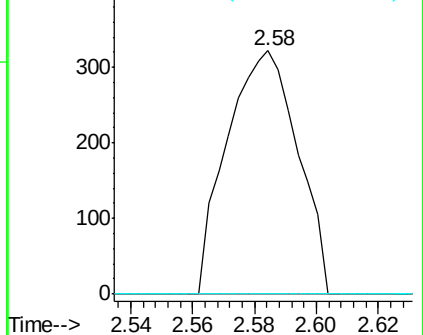
151 0.0 58.0 87.0#

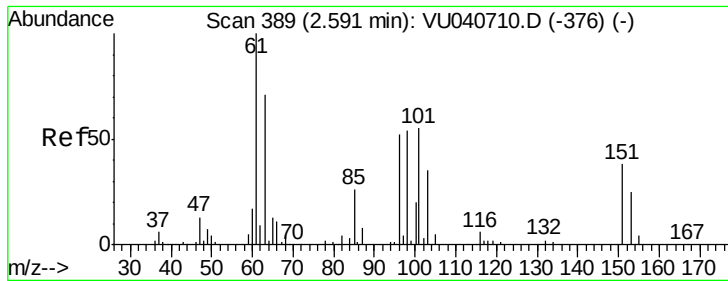


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

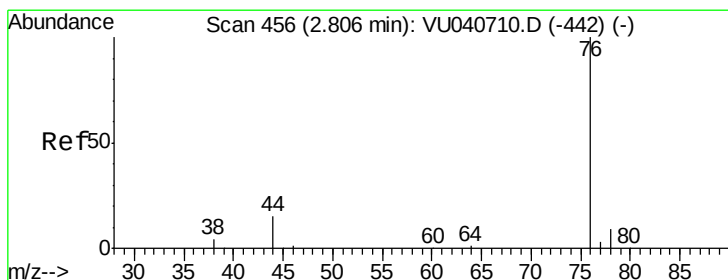
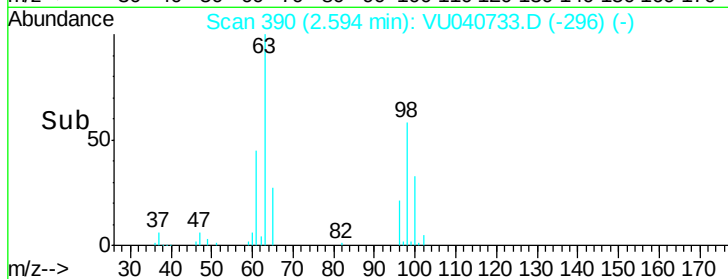
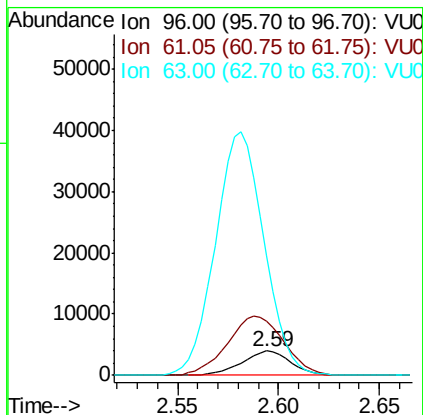
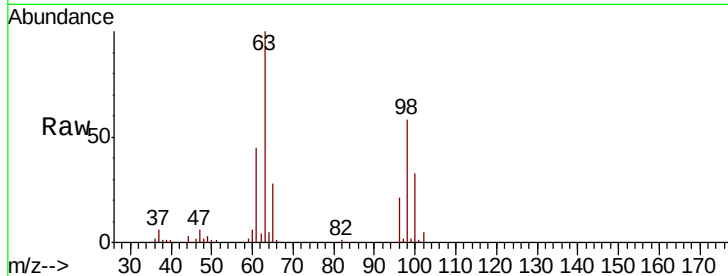




#12  
 1,1-Dichloroethene  
 Concen: 0.852 ug/L  
 RT: 2.59 min Scan# 390  
 Delta R.T. 0.00 min  
 Lab File: VU040733.D  
 Acq: 15 Oct 2020 20:10

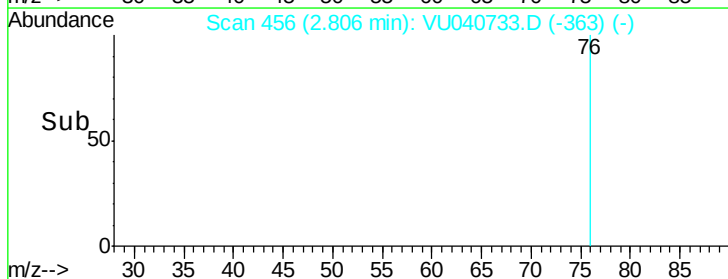
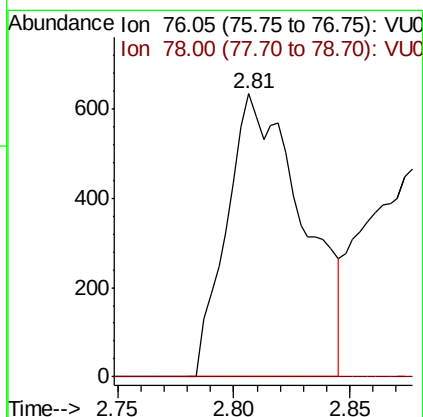
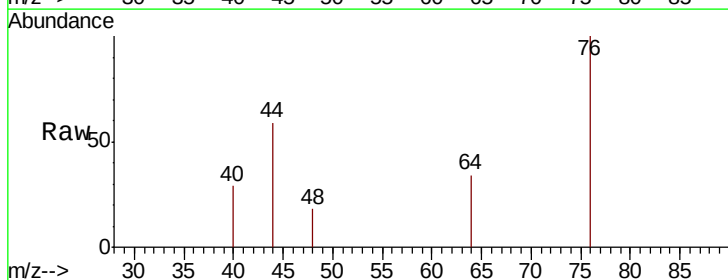
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
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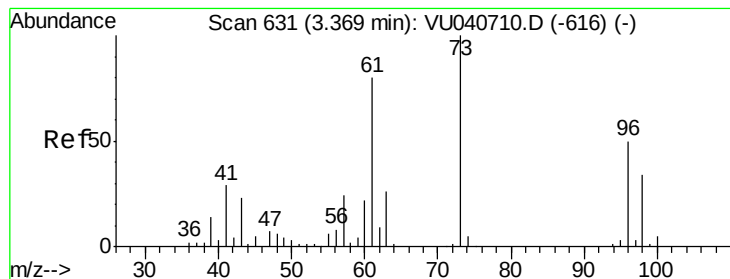
Tot Ion: 96 Resp: 6721  
 Ion Ratio Lower Upper  
 96 100  
 61 220.2 128.8 239.2  
 63 487.6 84.6 157.2#



#14  
 Carbon disulfide  
 Concen: 0.065 ug/L  
 RT: 2.81 min Scan# 456  
 Delta R.T. -0.00 min  
 Lab File: VU040733.D  
 Acq: 15 Oct 2020 20:10

Tgt Ion: 76 Resp: 1445  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 6.8 10.2#





#18

trans-1,2-Dichloroethene

Concen: 5.658 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.00 min

Lab File: VU040733.D

Acq: 15 Oct 2020 20:10

Instrument :

MSVOA\_U

ClientSampleId :

ETZ16

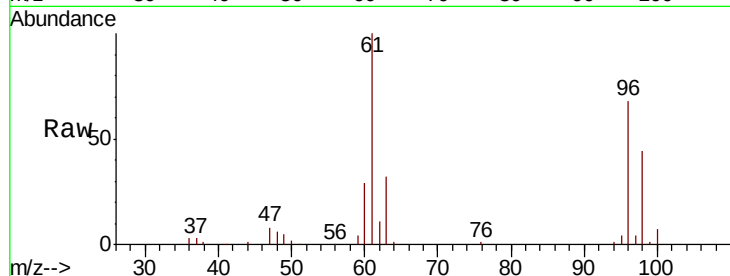
Tot Ion: 96 Resp: 46707

Ion Ratio Lower Upper

96 100

61 146.5 105.9 196.7

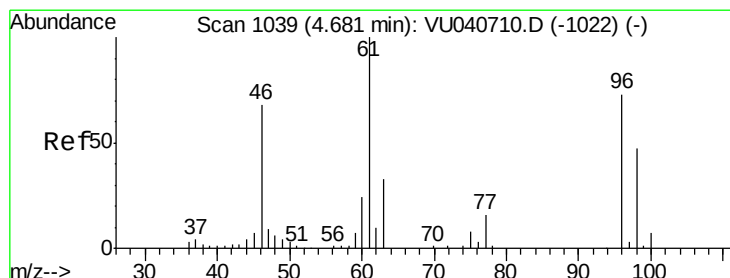
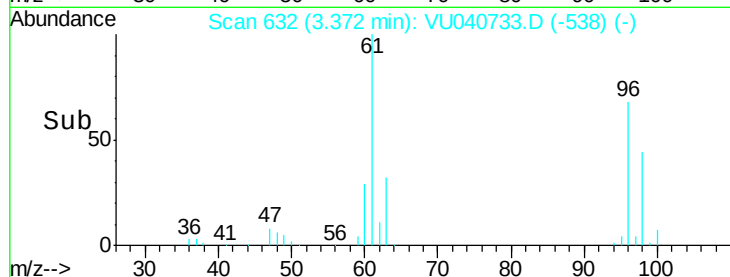
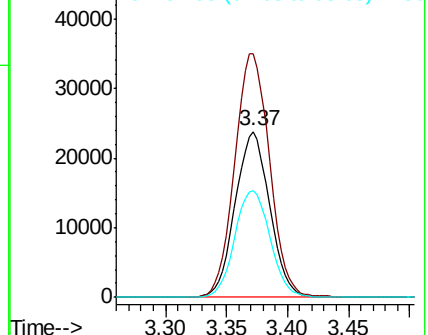
98 64.6 43.8 81.3



Abundance Ion 96.00 (95.70 to 96.70): VU040733.D (-538) (-)

Ion 61.05 (60.75 to 61.75): VU040733.D (-538) (-)

Ion 97.95 (97.65 to 98.65): VU040733.D (-538) (-)



#22

cis-1,2-Dichloroethene

Concen: 309.265 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.01 min

Lab File: VU040733.D

Acq: 15 Oct 2020 20:10

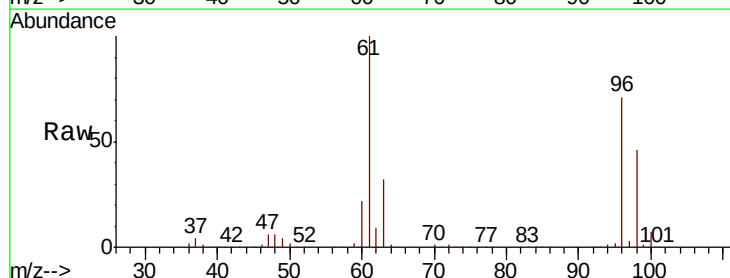
Tgt Ion: 96 Resp: 2753139

Ion Ratio Lower Upper

96 100

61 140.8 99.8 185.4

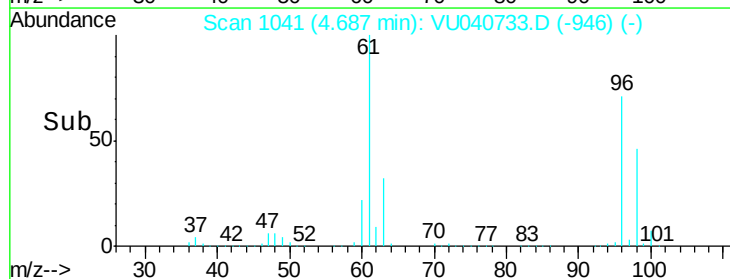
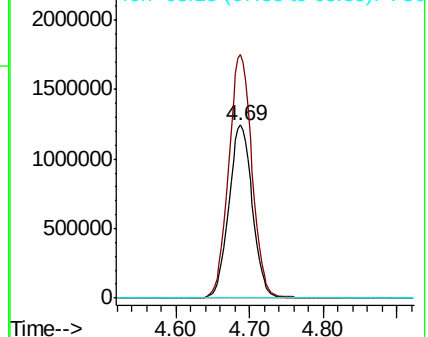
68 0.0 0.0 0.0

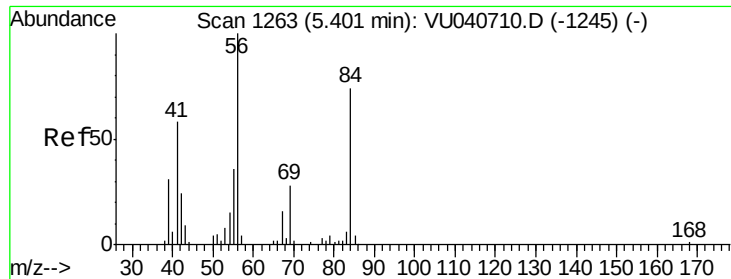


Abundance Ion 96.00 (95.70 to 96.70): VU040733.D (-946) (-)

Ion 61.05 (60.75 to 61.75): VU040733.D (-946) (-)

Ion 68.15 (67.85 to 68.85): VU040733.D (-946) (-)

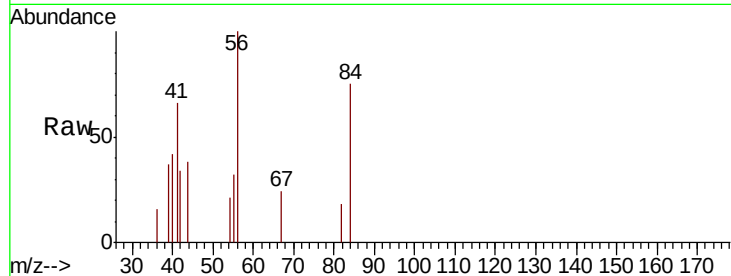




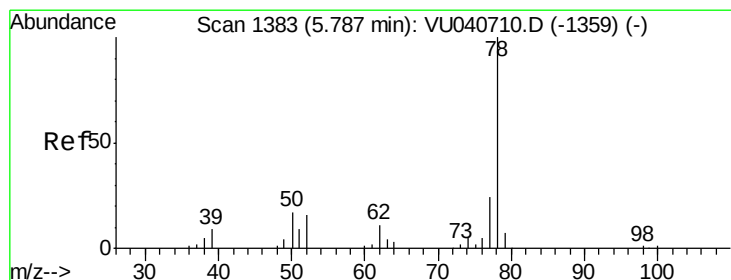
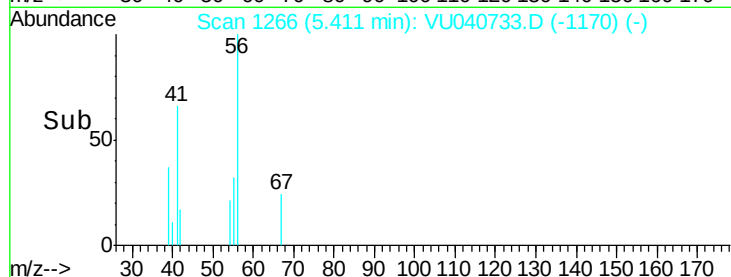
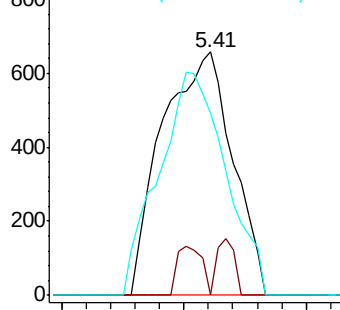
#30  
Cyclohexane  
Concen: 0.096 ug/L  
RT: 5.41 min Scan# 1266  
Delta R.T. 0.01 min  
Lab File: VU040733.D  
Acq: 15 Oct 2020 20:10

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Tot Ion: 56 Resp: 1320  
Ion Ratio Lower Upper  
56 100  
69 5.9 23.8 35.8#  
84 0.0 64.0 96.0#

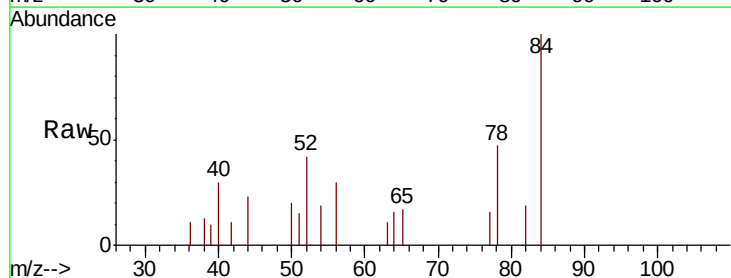


Abundance Ion 56.10 (55.80 to 56.80): VU0  
Ion 69.15 (68.85 to 69.85): VU0  
Ion 84.15 (83.85 to 84.85): VU0

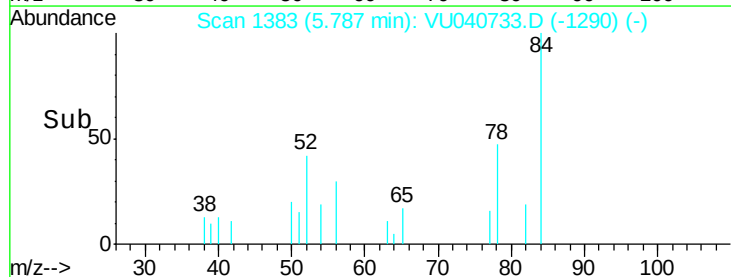
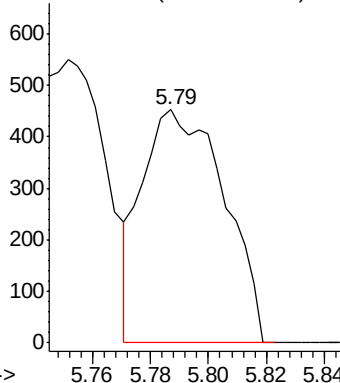


#33  
Benzene  
Concen: 0.025 ug/L  
RT: 5.79 min Scan# 1383  
Delta R.T. -0.00 min  
Lab File: VU040733.D  
Acq: 15 Oct 2020 20:10

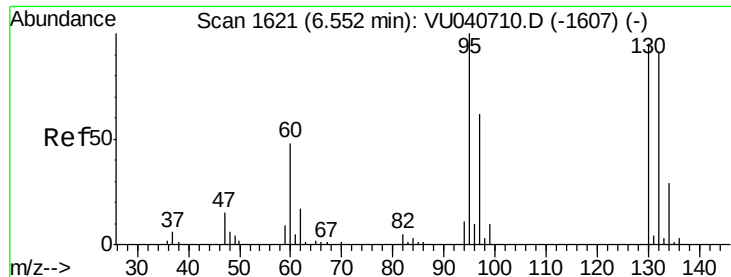
Tgt Ion: 78 Resp: 891



Abundance Ion 78.10 (77.80 to 78.80): VU0







#34

Trichloroethene

Concen: 0.148 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU040733.D

Acq: 15 Oct 2020 20:10

Instrument :

MSVOA\_U

ClientSampleId :

ETZ16

Tot Ion: 95 Resp: 1377

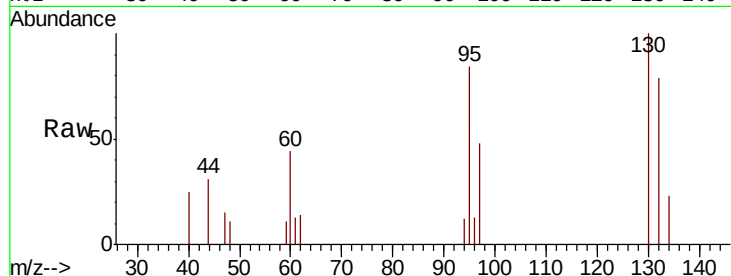
Ion Ratio Lower Upper

95 100

97 57.6 45.5 84.5

132 93.9 67.5 125.4

130 119.4 69.9 129.9

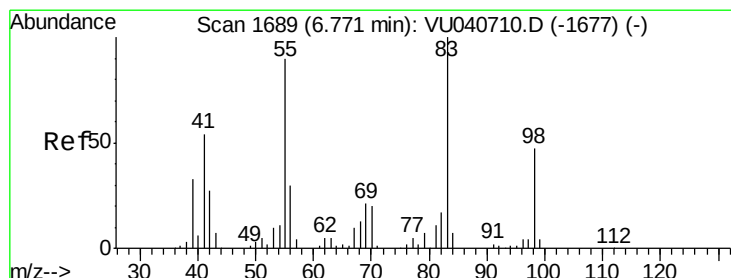
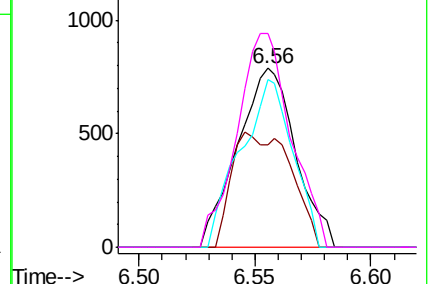
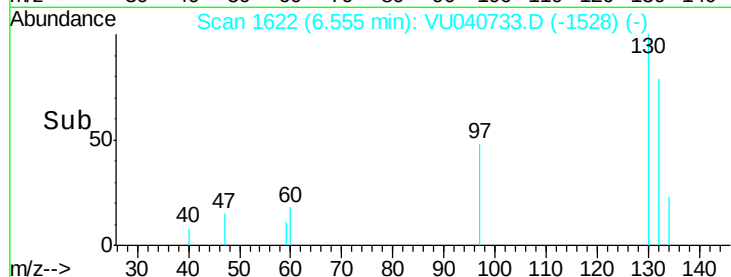


Abundance Ion 95.00 (94.70 to 95.70): VU040733.D (-1528) (-)

Ion 96.95 (96.65 to 97.65): VU040733.D (-1528) (-)

Ion 131.95 (131.65 to 132.65): VU040733.D (-1528) (-)

Ion 129.95 (129.65 to 130.65): VU040733.D (-1528) (-)



#35

Methylcyclohexane

Concen: 0.998 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU040733.D

Acq: 15 Oct 2020 20:10

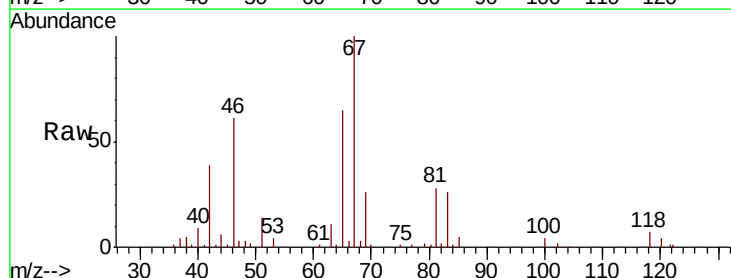
Tgt Ion: 83 Resp: 13145

Ion Ratio Lower Upper

83 100

55 0.0 70.7 106.1#

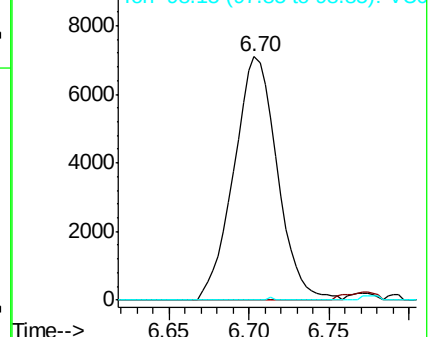
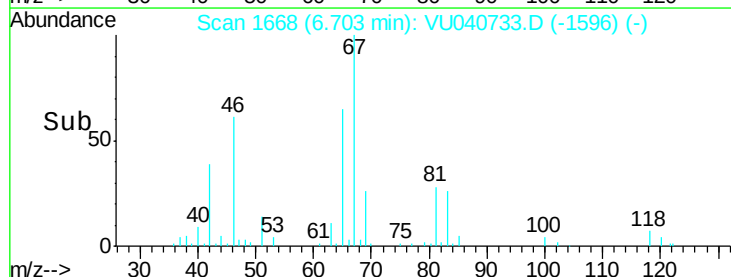
98 0.2 38.4 57.6#

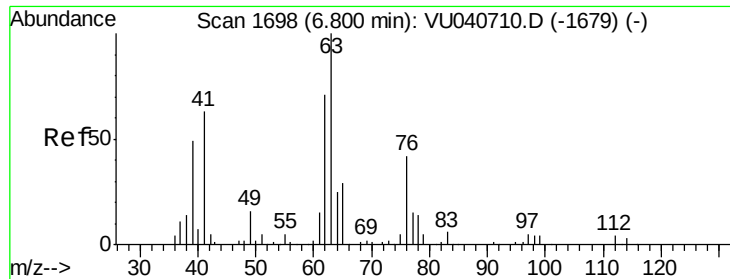


Abundance Ion 83.15 (82.85 to 83.85): VU040733.D (-1596) (-)

Ion 55.10 (54.80 to 55.80): VU040733.D (-1596) (-)

Ion 98.15 (97.85 to 98.85): VU040733.D (-1596) (-)

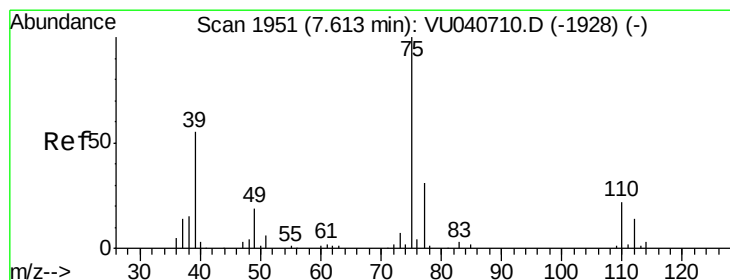
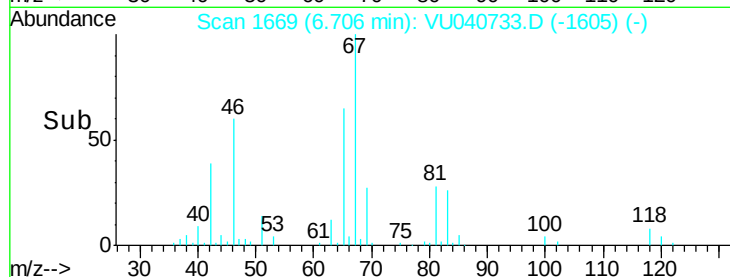
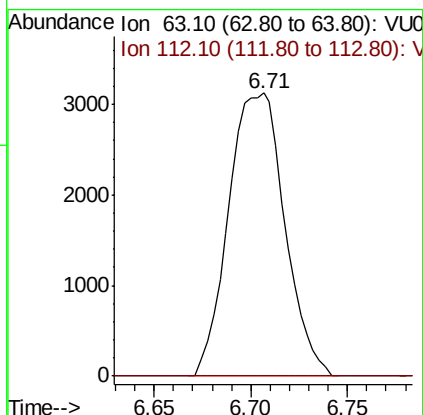
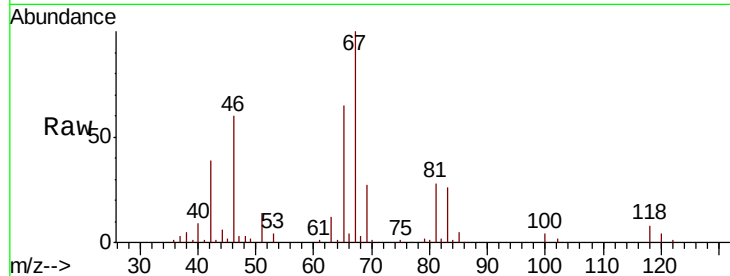




#37  
 1,2-Dichloropropane  
 Concen: 0.631 ug/L  
 RT: 6.71 min Scan# 1669  
 Delta R.T. -0.09 min  
 Lab File: VU040733.D  
 Acq: 15 Oct 2020 20:10

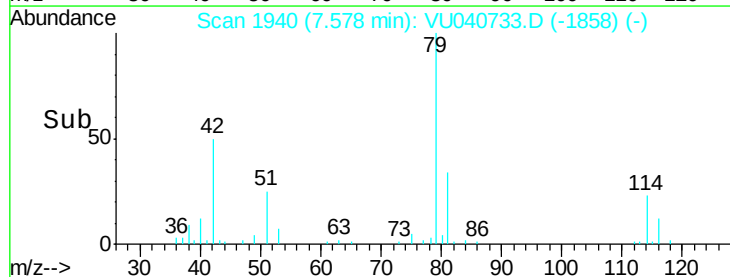
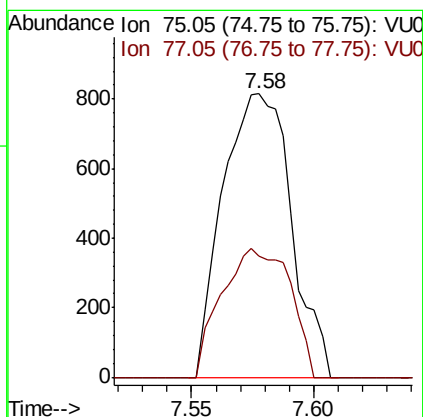
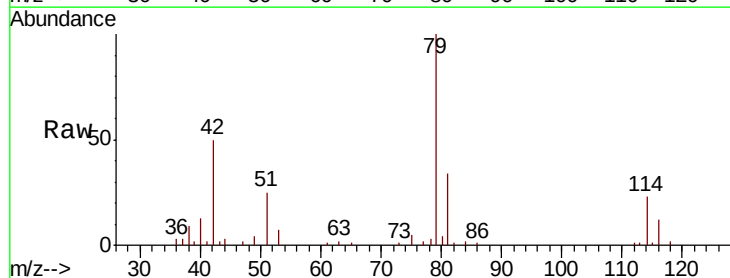
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ETZ16

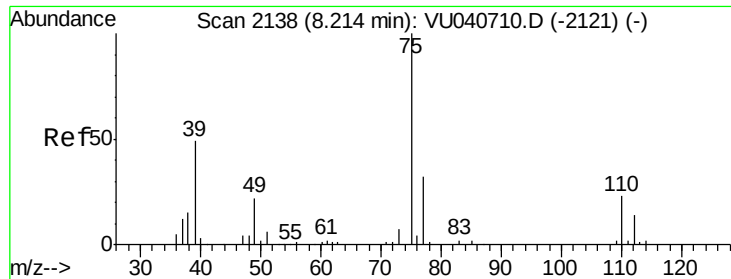
Tot Ion: 63 Resp: 6297  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.5 5.3#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.116 ug/L  
 RT: 7.58 min Scan# 1940  
 Delta R.T. -0.04 min  
 Lab File: VU040733.D  
 Acq: 15 Oct 2020 20:10

Tgt Ion: 75 Resp: 1586  
 Ion Ratio Lower Upper  
 75 100  
 77 42.8 20.5 38.1#

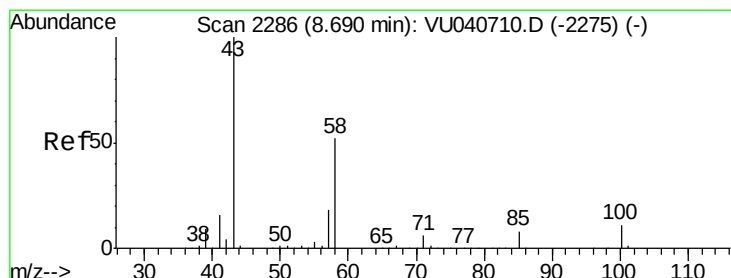
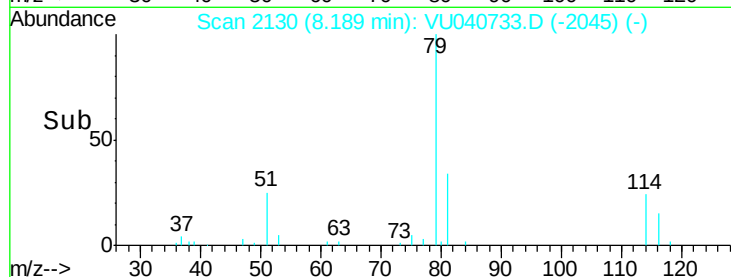
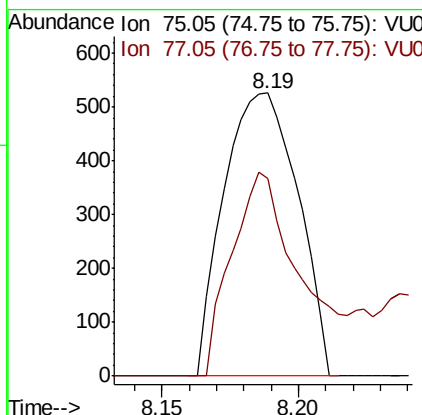
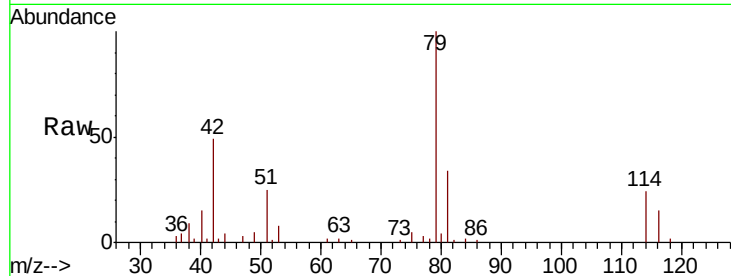




#44  
trans-1,3-Dichloropropene  
Concen: 0.079 ug/L  
RT: 8.19 min Scan# 2130  
Delta R.T. -0.03 min  
Lab File: VU040733.D  
Acq: 15 Oct 2020 20:10

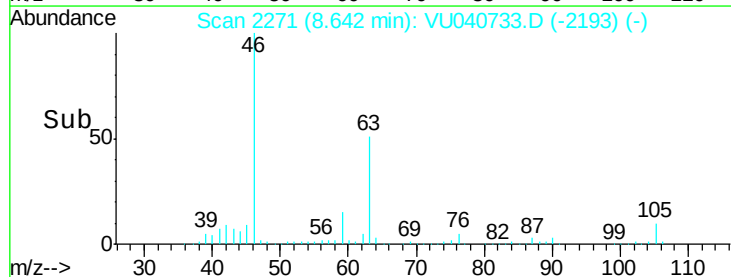
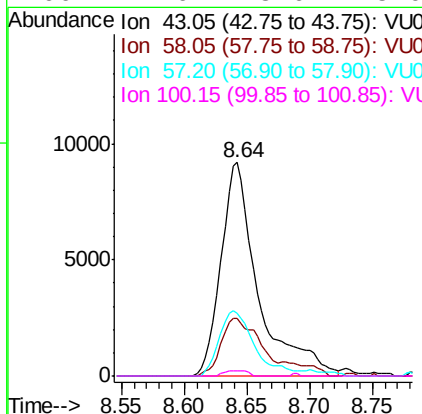
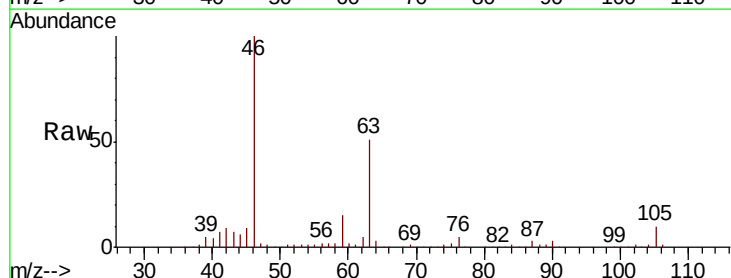
Instrument :  
MSVOA\_U  
ClientSampleId :  
ETZ16

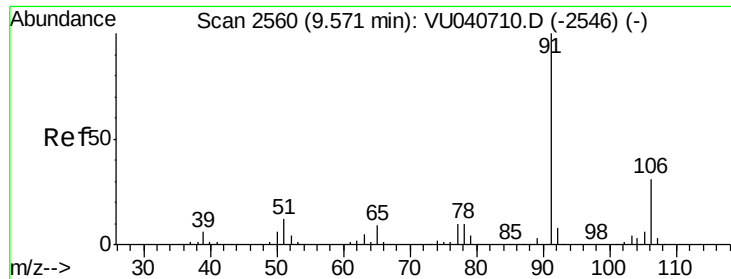
Tot Ion: 75 Resp: 992  
Ion Ratio Lower Upper  
75 100  
77 69.8 20.4 38.0#



#48  
2-Hexanone  
Concen: 3.216 ug/L  
RT: 8.64 min Scan# 2271  
Delta R.T. -0.05 min  
Lab File: VU040733.D  
Acq: 15 Oct 2020 20:10

Tgt Ion: 43 Resp: 19063  
Ion Ratio Lower Upper  
43 100  
58 32.7 41.0 61.6#  
57 28.8 14.4 21.6#  
100 1.6 8.6 13.0#





#52

Ethylbenzene

Concen: 0.055 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040733.D

Acq: 15 Oct 2020 20:10

Instrument :

MSVOA\_U

ClientSampled :

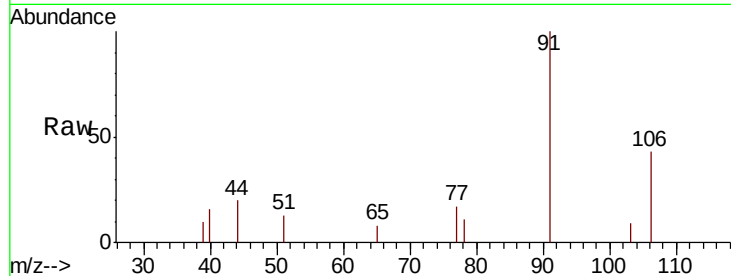
ETZ16

Tot Ion: 91 Resp: 2168

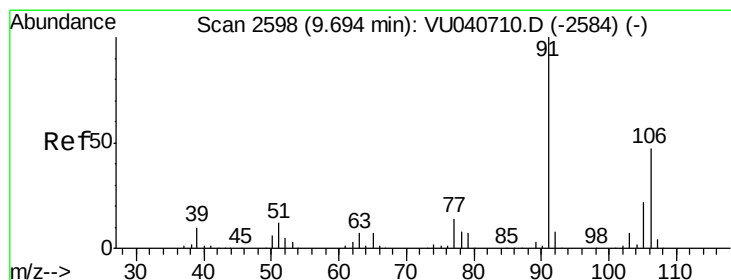
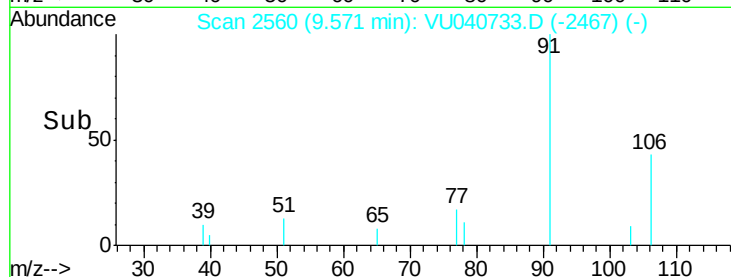
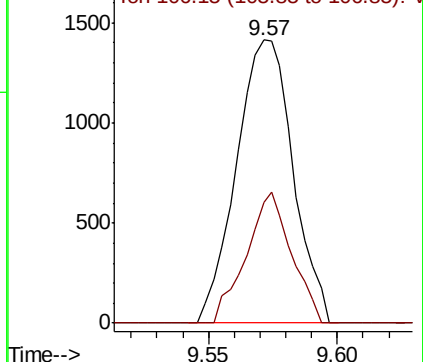
Ion Ratio Lower Upper

91 100

106 42.8 20.7 38.5#



Abundance Ion 91.15 (90.85 to 91.85): VU040733.D (-2467) (-)



#53

m,p-Xylene

Concen: 0.252 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040733.D

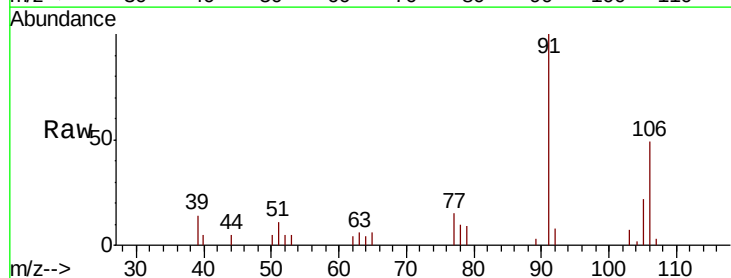
Acq: 15 Oct 2020 20:10

Tgt Ion: 106 Resp: 3629

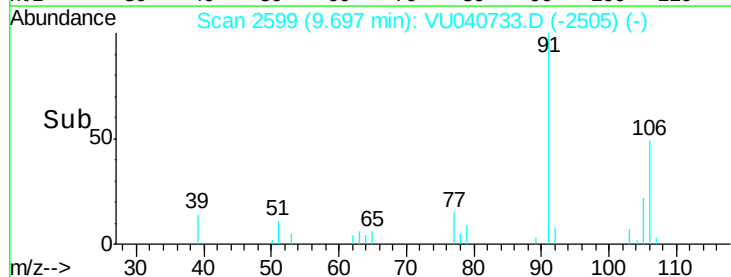
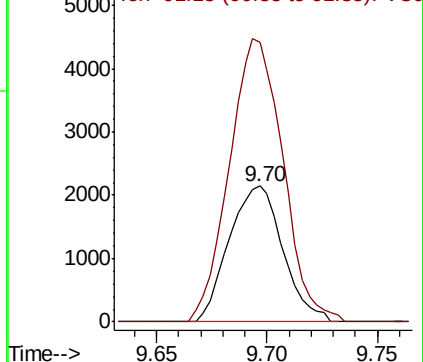
Ion Ratio Lower Upper

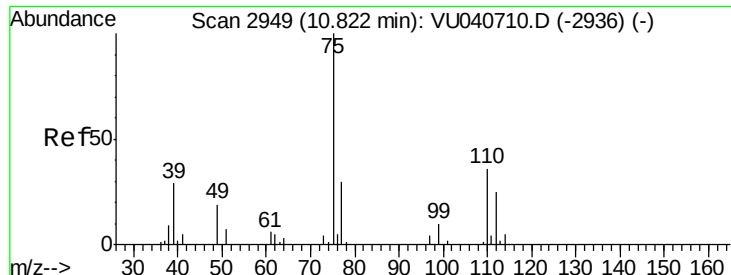
106 100

91 205.8 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): VU040733.D (-2505) (-)





#59

1,2,3-Trichloropropane

Concen: 0.903 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040733.D

Acq: 15 Oct 2020 20:10

Instrument :

MSVOA\_U

ClientSampleId :

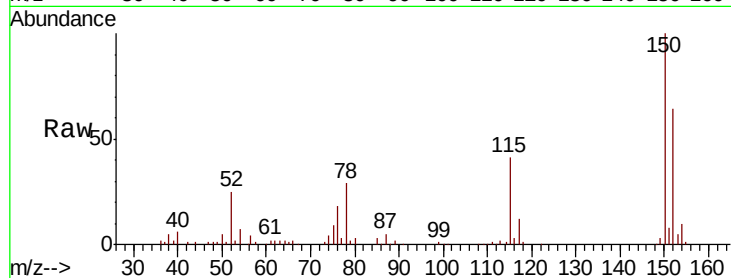
ETZ16

Tot Ion: 75 Resp: 6625

Ion Ratio Lower Upper

75 100

77 39.0 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

