

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100220\  
 Data File : VU040467.D  
 Acq On : 02 Oct 2020 18:15  
 Operator : SY/MD  
 Sample : L4209-04MSD  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 JLWS8MSD

Quant Time: Oct 03 00:19:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR092920WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Oct 03 00:09:31 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 135549   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 131844   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 60970    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 0.00   | 65    | 0        | 0.00     | ug/L |         |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 0.00%#  |
| 7) Chloroethane-d5             | 1.92   | 69    | 25512    | 4.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 86.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 40014    | 2.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 49.60%# |
| 20) 2-Butanone-d5              | 4.66   | 46    | 135806   | 40.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 81.48%  |
| 24) Chloroform-d               | 5.08   | 84    | 63874    | 4.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 80.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 41373    | 4.25     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 85.00%  |
| 32) Benzene-d6                 | 5.74   | 84    | 128251   | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 43897    | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 90.60%  |
| 41) Toluene-d8                 | 7.91   | 98    | 25220    | 1.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 22.00%# |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 7705     | 1.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 39.00%# |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 93466    | 40.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 80.32%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 37094    | 3.93     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 78.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 48025    | 5.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 104.00% |

## Target Compounds

|                            |       |     |        |              | Ovalue |
|----------------------------|-------|-----|--------|--------------|--------|
| 3) Chloromethane           | 1.53  | 50  | 2016   | 0.151 ug/L   | 95     |
| 12) 1,1-Dichloroethene     | 2.59  | 96  | 25778  | 2.497 ug/L   | 98     |
| 13) Acetone                | 2.66  | 43  | 14886  | 5.359 ug/L   | 99     |
| 25) Chloroform             | 5.11  | 83  | 3462   | 0.155 ug/L   | 97     |
| 27) 1,2-Dichloroethane     | 5.79  | 62  | 2315   | 0.150 ug/L # | 74     |
| 33) Benzene                | 5.79  | 78  | 212329 | 4.803 ug/L   | 100    |
| 34) Trichloroethene        | 6.56  | 95  | 54657  | 4.658 ug/L   | 94     |
| 35) Methylcyclohexane      | 6.70  | 83  | 10154  | 0.590 ug/L # | 13     |
| 37) 1,2-Dichloropropane    | 6.71  | 63  | 5019   | 0.408 ug/L # | 88     |
| 38) Bromodichloromethane   | 7.11  | 83  | 1318   | 0.087 ug/L # | 96     |
| 42) Toluene                | 7.98  | 91  | 40578  | 0.895 ug/L   | 98     |
| 49) Dibromochloromethane   | 8.81  | 129 | 1851   | 0.184 ug/L   | 100    |
| 51) Chlorobenzene          | 9.45  | 112 | 147339 | 5.028 ug/L   | 99     |
| 59) 1,2,3-Trichloropropane | 11.81 | 75  | 8897   | 0.997 ug/L   | 90     |
| 61) Bromoform              | 10.29 | 173 | 3613   | 0.717 ug/L # | 93     |

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Instrument :  
MSVOA\_U  
ClientSampleId :  
JLWS8MSD

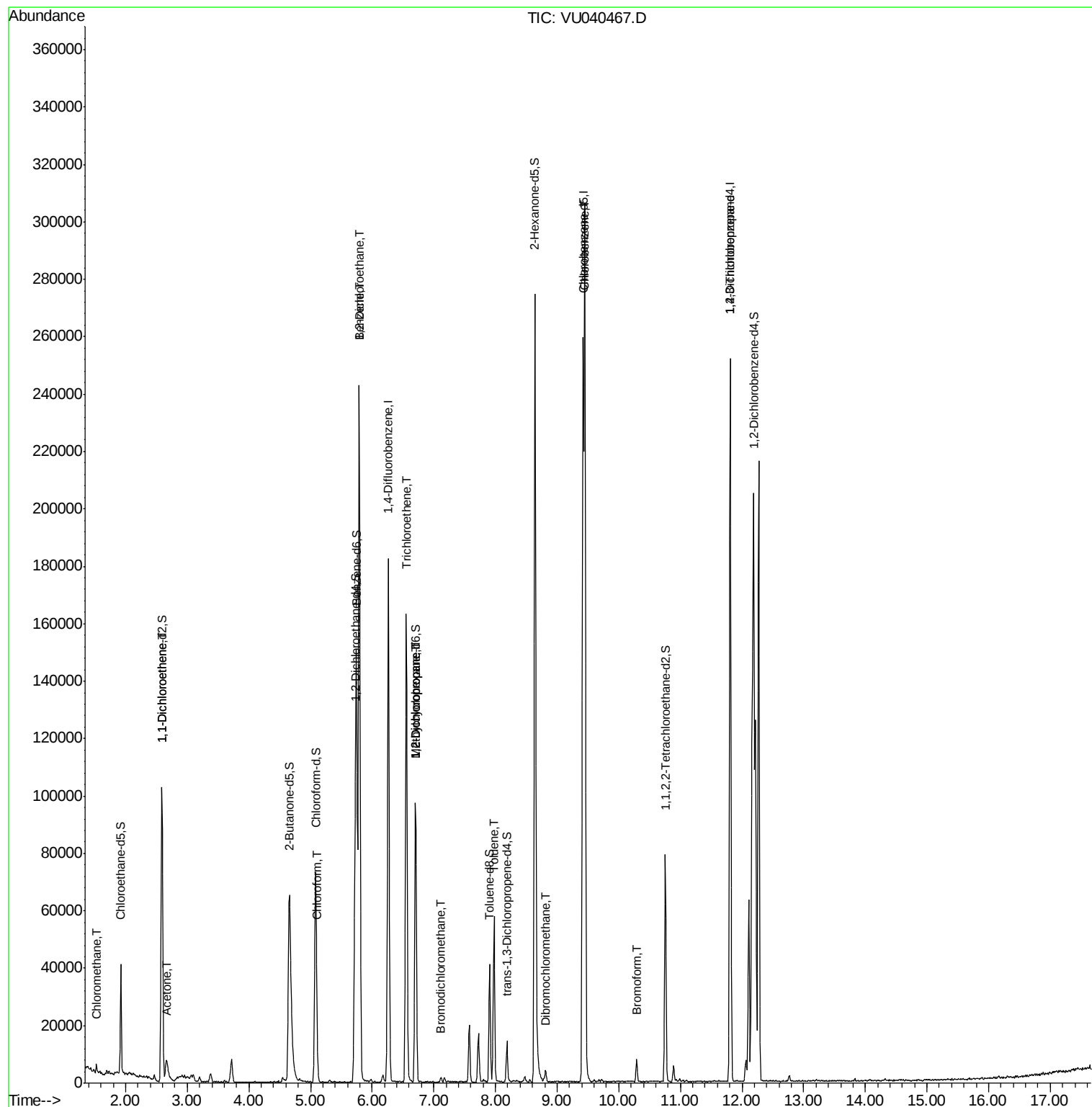
Quant Time: Oct 03 00:19:30 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR092920WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Oct 03 00:09:31 2020  
Response via : Initial Calibration

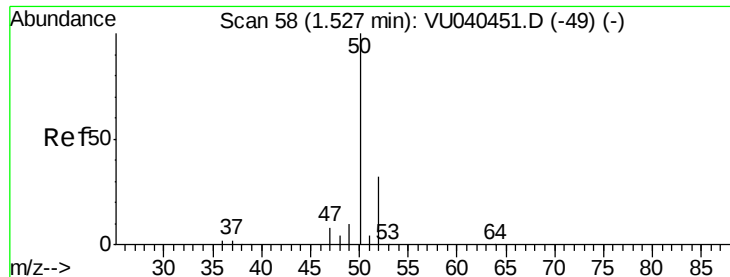
| Internal Standards                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                             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

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Oct 03 00:09:31 2020  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.151 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040467.D

Acq: 02 Oct 2020 18:15

Instrument :

MSVOA\_U

ClientSampleId :

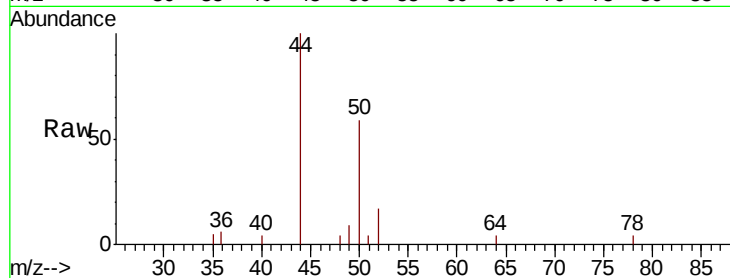
JLWS8MSD

Tot Ion: 50 Resp: 2016

Ion Ratio Lower Upper

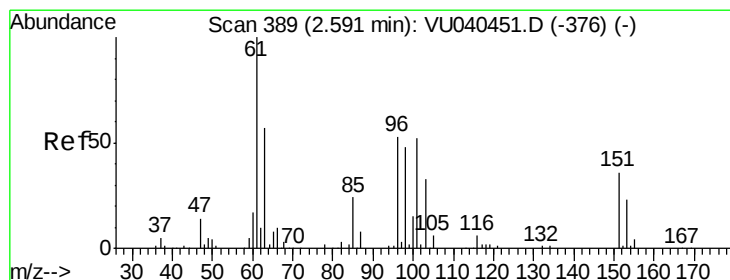
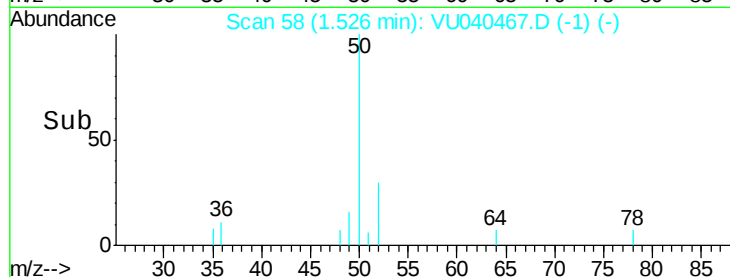
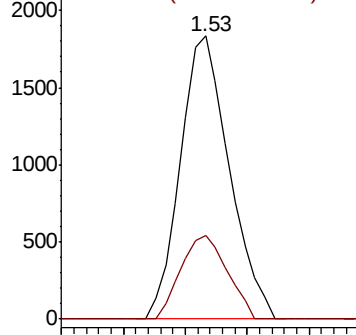
50 100

52 29.7 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#12

1,1-Dichloroethene

Concen: 2.497 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040467.D

Acq: 02 Oct 2020 18:15

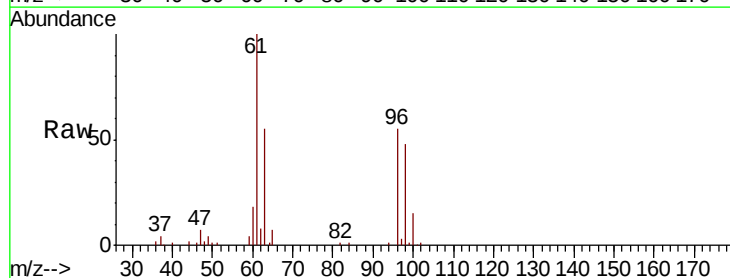
Tgt Ion: 96 Resp: 25778

Ion Ratio Lower Upper

96 100

61 180.7 128.6 238.8

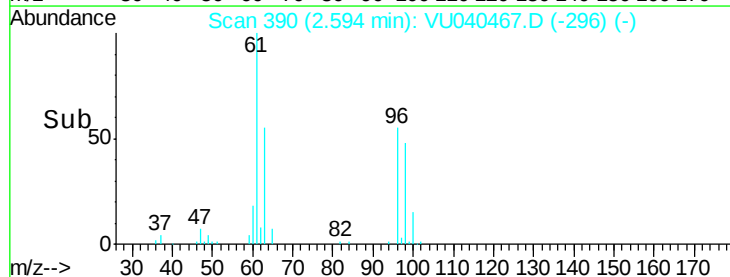
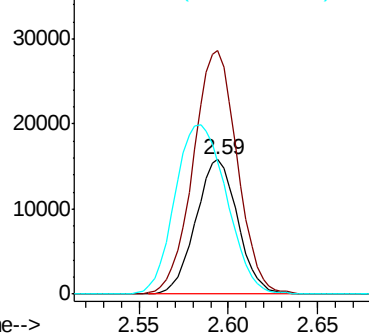
63 98.5 67.8 126.0

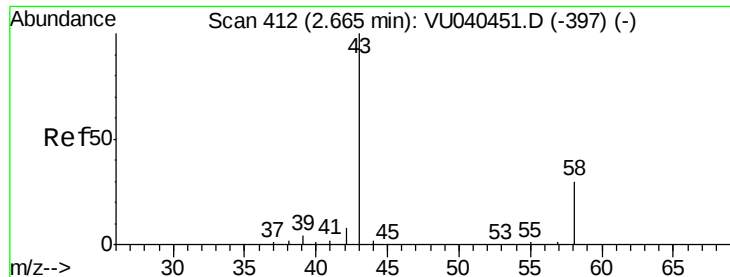


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.359 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.00 min

Lab File: VU040467.D

Acq: 02 Oct 2020 18:15

Instrument :

MSVOA\_U

ClientSampleId :

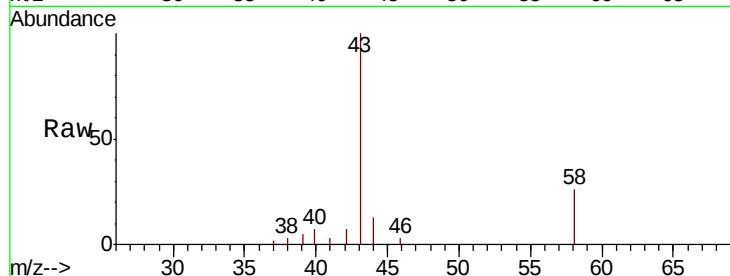
JLWS8MSD

Tot Ion: 43 Resp: 14886

Ion Ratio Lower Upper

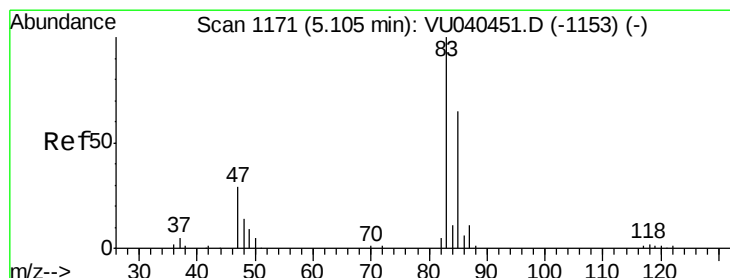
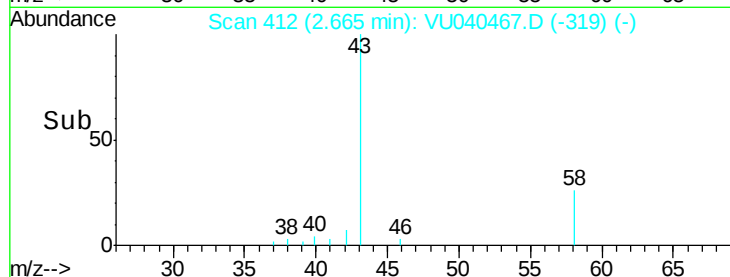
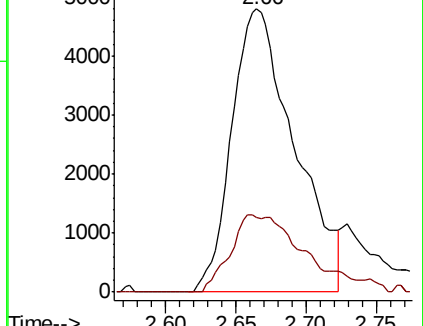
43 100

58 31.6 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU040451.D (-397) (-)

Ion 58.05 (57.75 to 58.75): VU040451.D (-397) (-)



#25

Chloroform

Concen: 0.155 ug/L

RT: 5.11 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VU040467.D

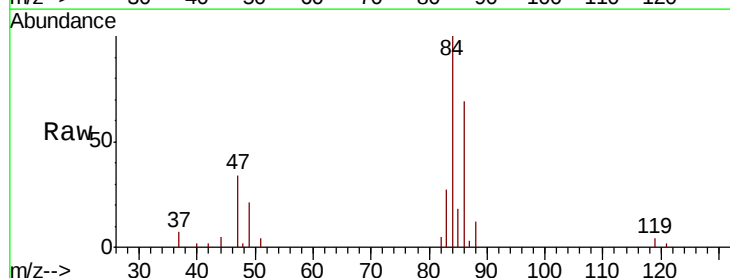
Acq: 02 Oct 2020 18:15

Tgt Ion: 83 Resp: 3462

Ion Ratio Lower Upper

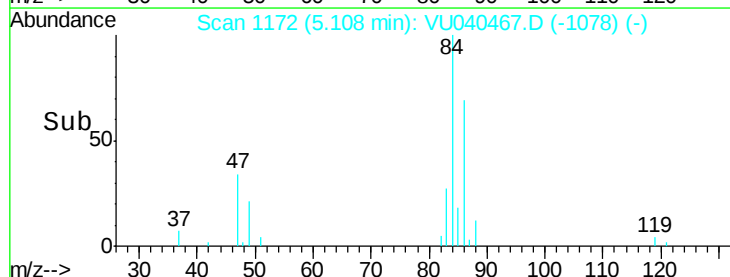
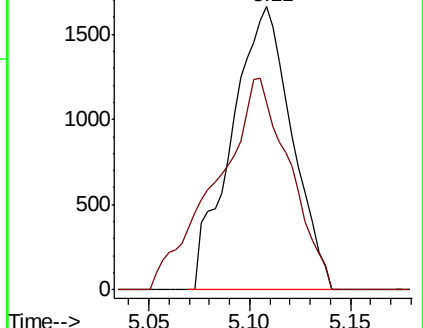
83 100

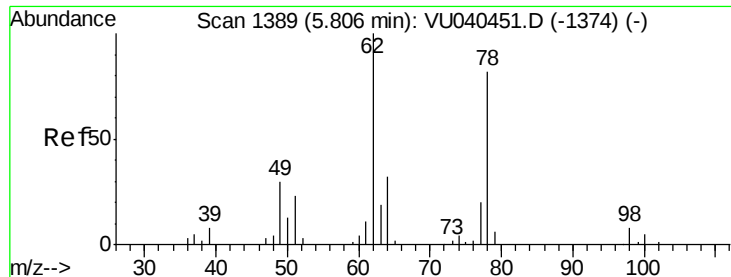
85 66.2 44.6 82.8



Abundance Ion 83.05 (82.75 to 83.75): VU040451.D (-1153) (-)

Ion 85.00 (84.70 to 85.70): VU040451.D (-1153) (-)





#27

1,2-Dichloroethane

Concen: 0.150 ug/L

RT: 5.79 min Scan# 1383

Delta R.T. -0.02 min

Lab File: VU040467.D

Acq: 02 Oct 2020 18:15

Instrument :

MSVOA\_U

ClientSampleId :

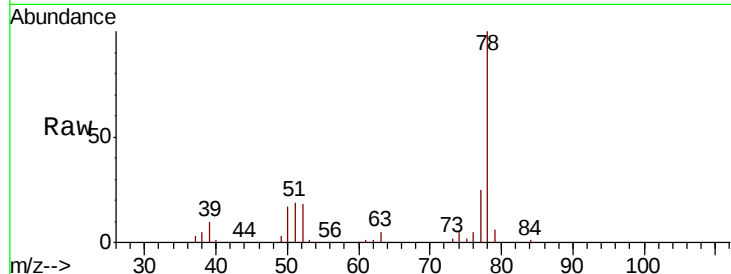
JLWS8MSD

Tot Ion: 62 Resp: 2315

Ion Ratio Lower Upper

62 100

98 0.0 7.5 11.3#



Abundance Ion 62.00 (61.70 to 62.70): VU040451.D (-1374) (-)

Ion 98.05 (97.75 to 98.75): VU040451.D (-1374) (-)

1200

1000

800

600

400

200

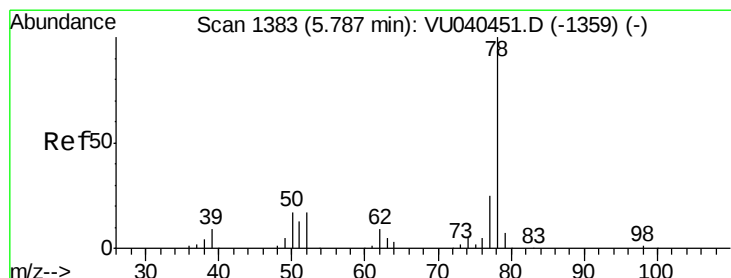
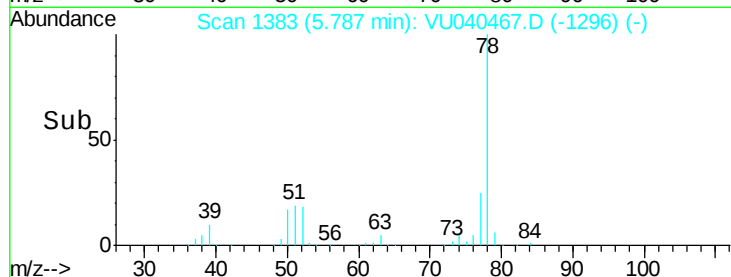
0

5.75

5.80

5.85

Time-->



#33

Benzene

Concen: 4.803 ug/L

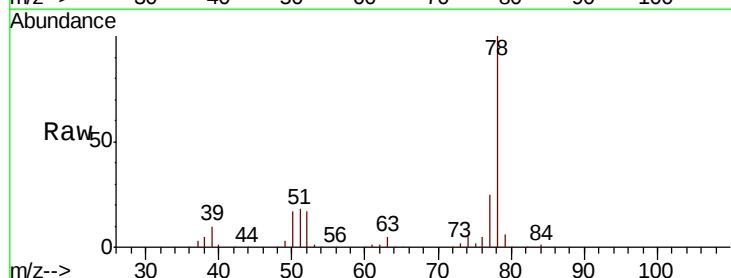
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU040467.D

Acq: 02 Oct 2020 18:15

Tgt Ion: 78 Resp: 212329



Abundance Ion 78.10 (77.80 to 78.80): VU040451.D (-1359) (-)

120000

100000

80000

60000

40000

20000

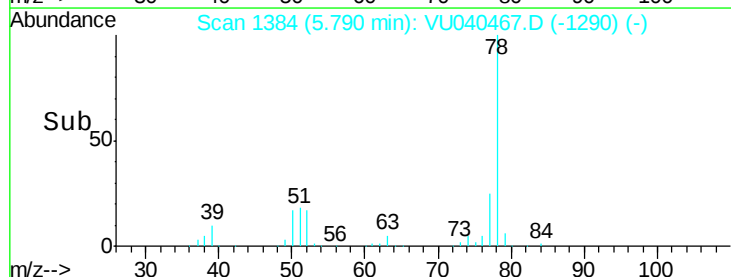
0

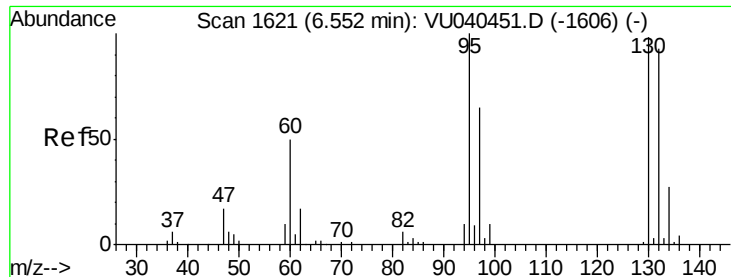
5.70

5.80

5.90

Time-->

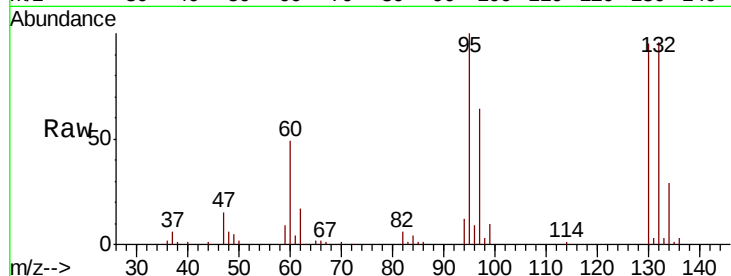




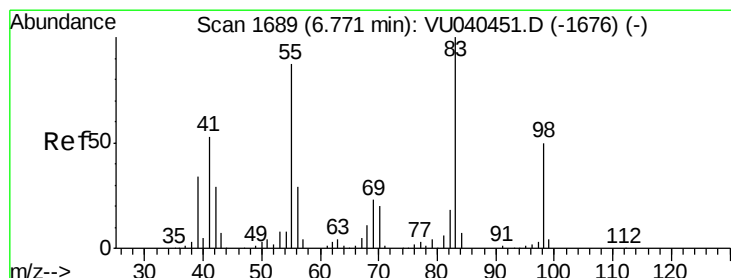
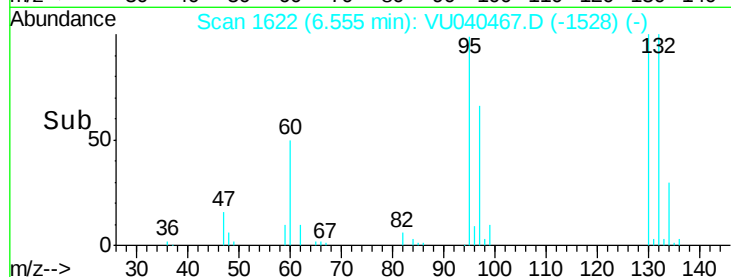
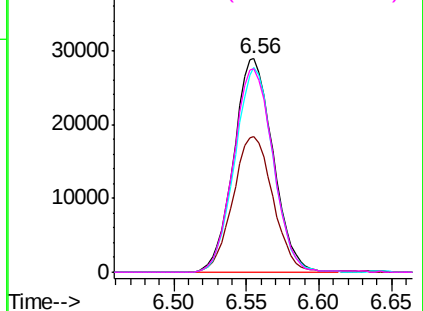
#34  
 Trichloroethene  
 Concen: 4.658 ug/L  
 RT: 6.56 min Scan# 1622  
 Delta R.T. 0.00 min  
 Lab File: VU040467.D  
 Acq: 02 Oct 2020 18:15

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 JLWS8MSD

Tot Ion: 95 Resp: 54657  
 Ion Ratio Lower Upper  
 95 100  
 97 63.6 46.3 85.9  
 132 95.9 60.5 112.3  
 130 95.4 64.3 119.3

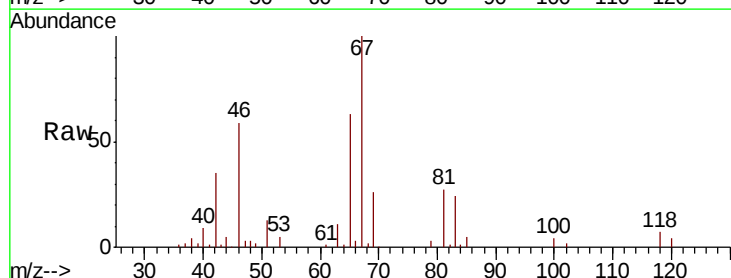


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 96.95 (96.65 to 97.65): VU0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

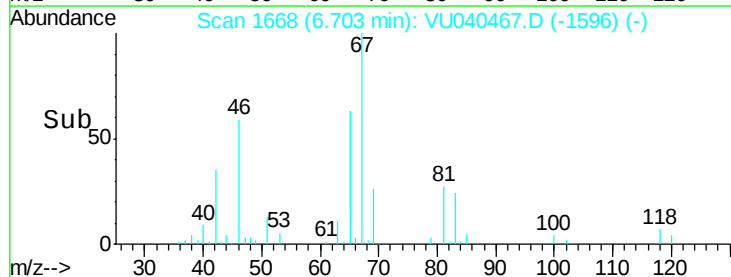
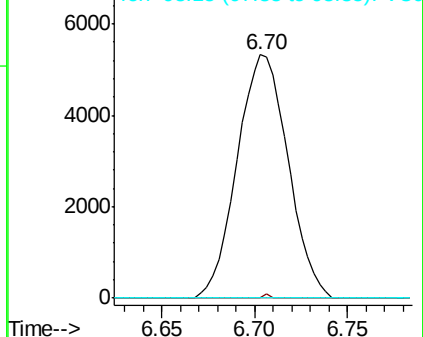


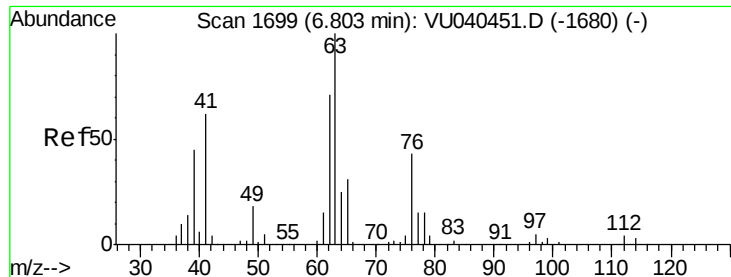
#35  
 Methylcyclohexane  
 Concen: 0.590 ug/L  
 RT: 6.70 min Scan# 1668  
 Delta R.T. -0.07 min  
 Lab File: VU040467.D  
 Acq: 02 Oct 2020 18:15

Tgt Ion: 83 Resp: 10154  
 Ion Ratio Lower Upper  
 83 100  
 55 0.2 71.4 107.2#  
 98 0.0 38.5 57.7#



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

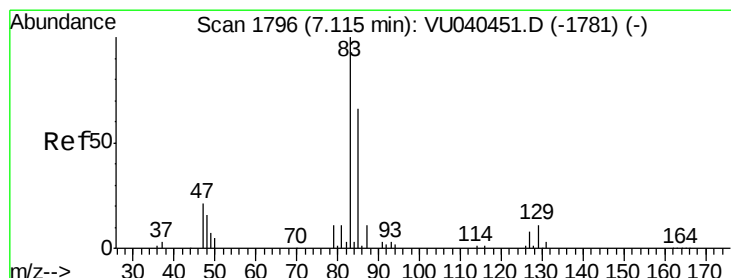
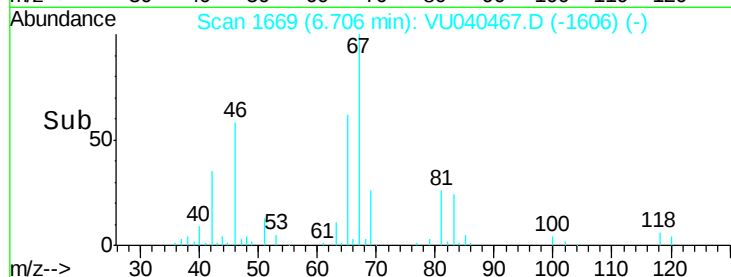
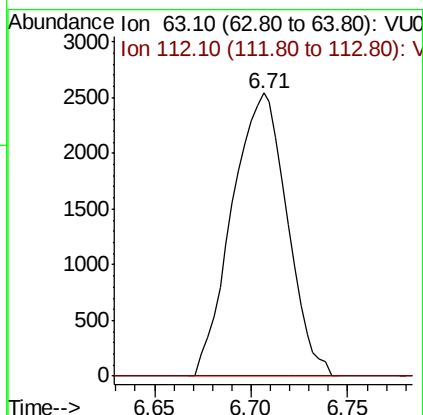
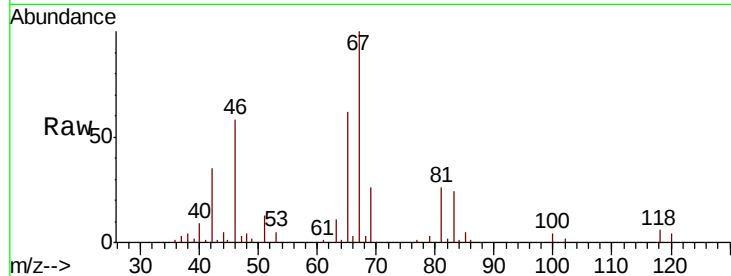




#37  
 1,2-Dichloropropane  
 Concen: 0.408 ug/L  
 RT: 6.71 min Scan# 1669  
 Delta R.T. -0.10 min  
 Lab File: VU040467.D  
 Acq: 02 Oct 2020 18:15

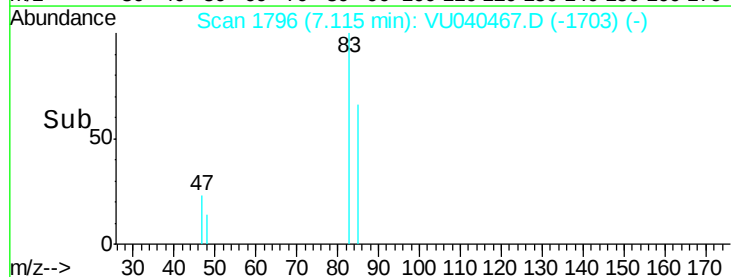
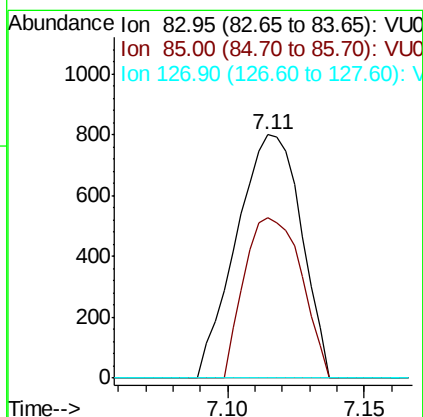
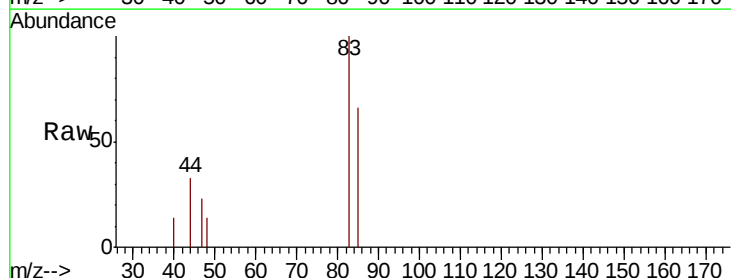
Instrument :  
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 JLWS8MSD

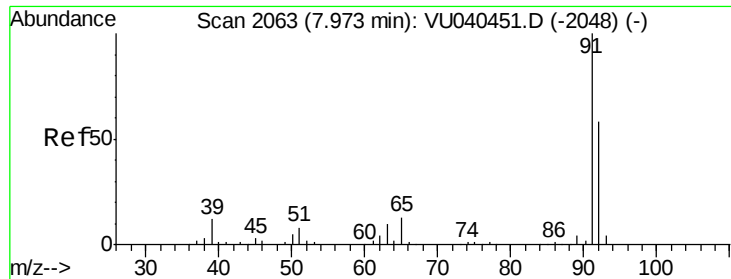
Tot Ion: 63 Resp: 5019  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.2 4.8#



#38  
 Bromodichloromethane  
 Concen: 0.087 ug/L  
 RT: 7.11 min Scan# 1796  
 Delta R.T. -0.00 min  
 Lab File: VU040467.D  
 Acq: 02 Oct 2020 18:15

Tgt Ion: 83 Resp: 1318  
 Ion Ratio Lower Upper  
 83 100  
 85 66.1 45.1 83.9  
 127 0.0 6.6 9.8#





#42

Toluene

Concen: 0.895 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040467.D

Acq: 02 Oct 2020 18:15

Instrument :

MSVOA\_U

ClientSampleId :

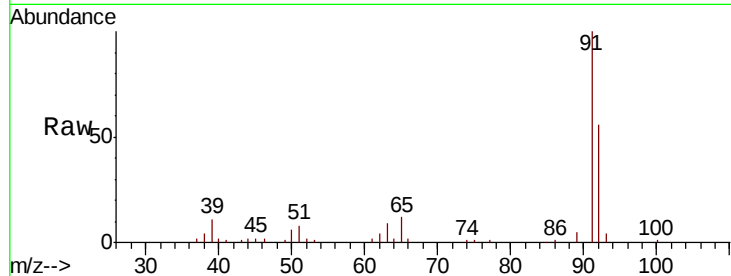
JLWS8MSD

Tot Ion: 91 Resp: 40578

Ion Ratio Lower Upper

91 100

92 56.1 40.0 74.4



Abundance Ion 91.15 (90.85 to 91.85): VU040451.D (-2048) (-)

Ion 92.15 (91.85 to 92.85): VU040451.D (-2048) (-)

7.98

25000

20000

15000

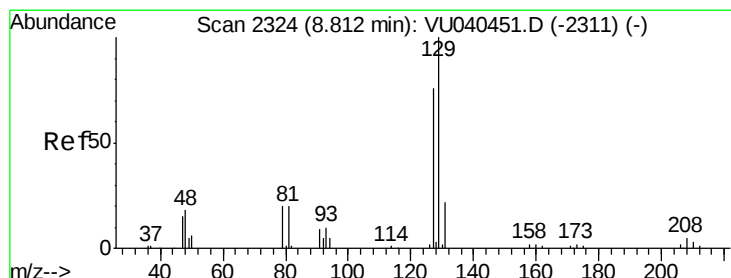
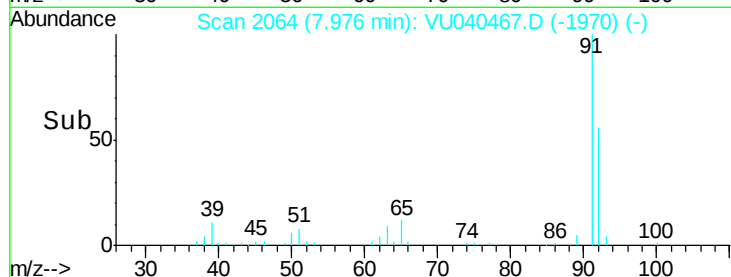
10000

5000

0

Time-->

7.90 7.95 8.00 8.05



#49

Dibromochloromethane

Concen: 0.184 ug/L

RT: 8.81 min Scan# 2324

Delta R.T. -0.00 min

Lab File: VU040467.D

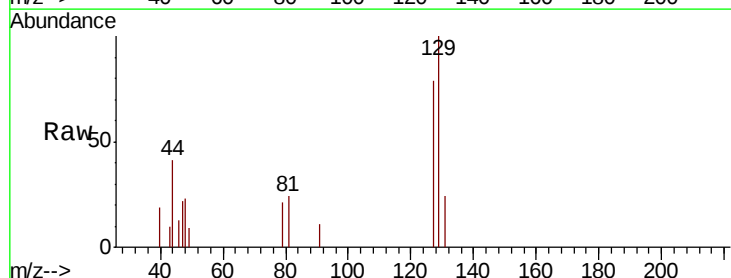
Acq: 02 Oct 2020 18:15

Tgt Ion: 129 Resp: 1851

Ion Ratio Lower Upper

129 100

127 79.5 55.4 103.0



Abundance Ion 128.95 (128.65 to 129.65): VU040451.D (-2311) (-)

Ion 126.90 (126.60 to 127.60): VU040451.D (-2311) (-)

8.81

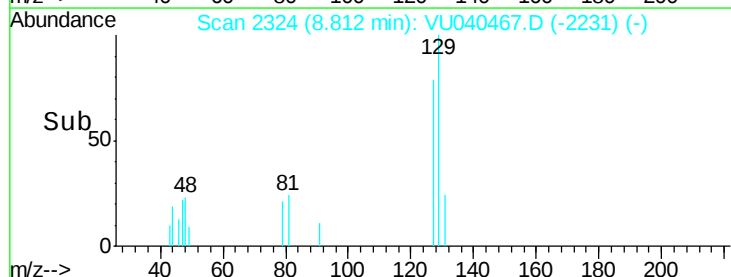
1000

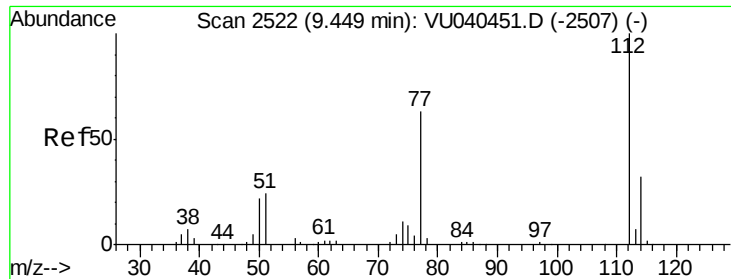
500

0

Time-->

8.80 8.85

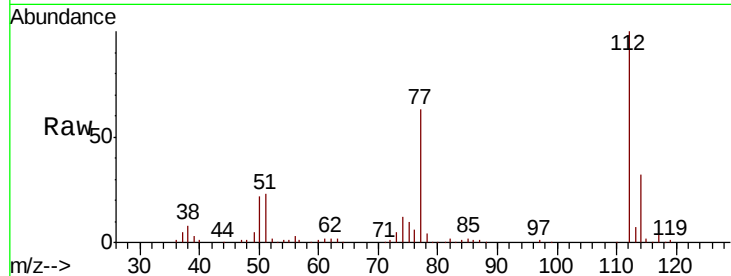




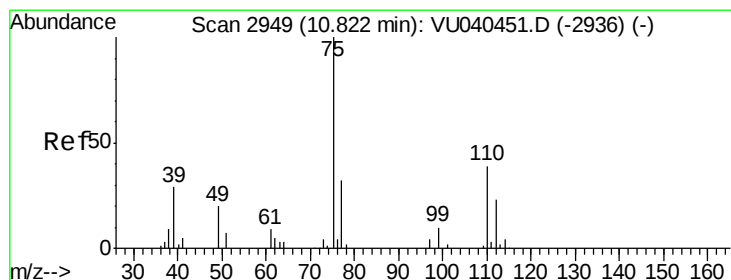
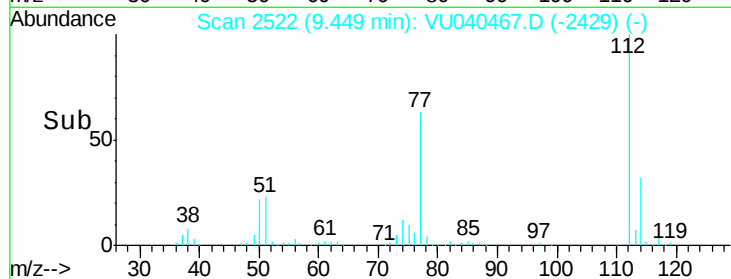
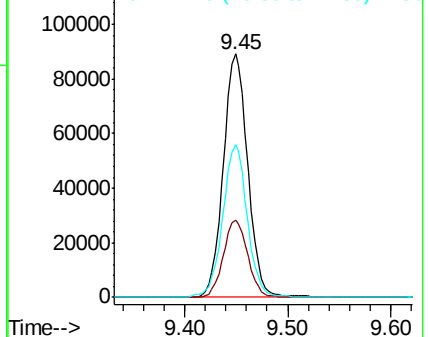
#51  
Chlorobenzene  
Concen: 5.028 ug/L  
RT: 9.45 min Scan# 2522  
Delta R.T. -0.00 min  
Lab File: VU040467.D  
Acq: 02 Oct 2020 18:15

Instrument :  
MSVOA\_U  
ClientSampleId :  
JLWS8MSD

Tot Ion:112 Resp: 147339  
Ion Ratio Lower Upper  
112 100  
114 31.7 22.0 40.8  
77 62.9 49.5 74.3

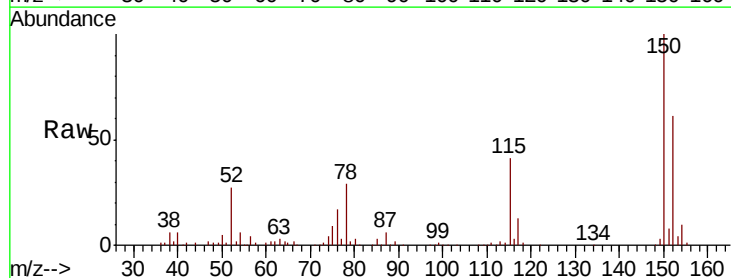


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 114.05 (113.75 to 114.75): V  
Ion 77.10 (76.80 to 77.80): V

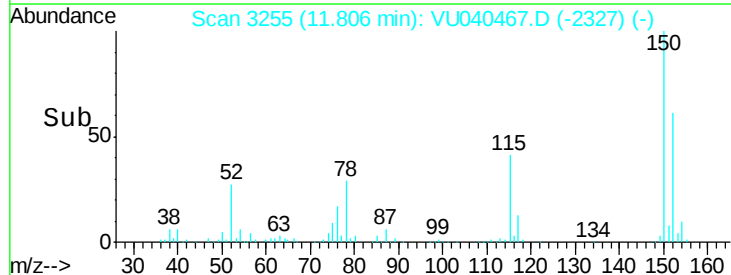
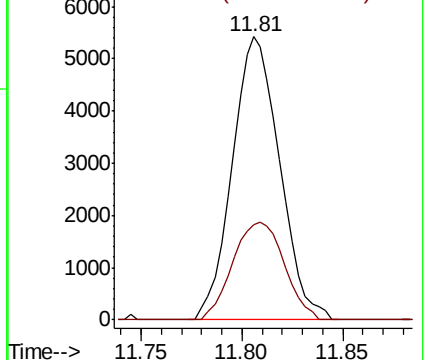


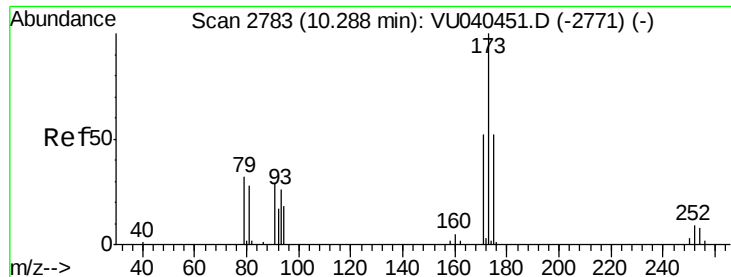
#59  
1,2,3-Trichloropropane  
Concen: 0.997 ug/L  
RT: 11.81 min Scan# 3255  
Delta R.T. 0.98 min  
Lab File: VU040467.D  
Acq: 02 Oct 2020 18:15

Tgt Ion: 75 Resp: 8897  
Ion Ratio Lower Upper  
75 100  
77 37.5 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU0  
Ion 77.00 (76.70 to 77.70): VU0





#61

Bromoform

Concen: 0.717 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. 0.00 min

Lab File: VU040467.D

Acq: 02 Oct 2020 18:15

Instrument :

MSVOA\_U

ClientSampleId :

JLWS8MSD

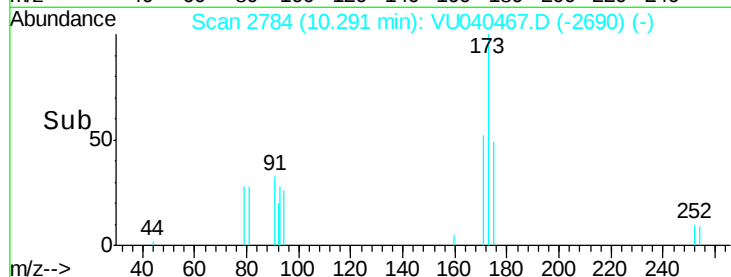
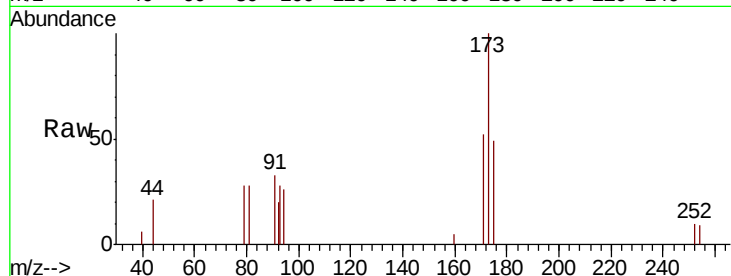
Tot Ion:173 Resp: 3613

Ion Ratio Lower Upper

173 100

175 44.9 39.6 59.4

254 5.0 7.0 10.4#



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V

