

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121019\  
 Data File : VU036111.D  
 Acq On : 11 Dec 2019 03:21  
 Operator : JC/MD  
 Sample : K6240-04  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 11 07:34:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR120919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Dec 11 07:30:58 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 257794   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 276900   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 102724   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 122214   | 5.32     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 106.40% |
| 7) Chloroethane-d5             | 1.93   | 69    | 117761   | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 130480   | 3.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 62.00%  |
| 20) 2-Butanone-d5              | 4.70   | 46    | 244775   | 62.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 125.04% |
| 24) Chloroform-d               | 5.11   | 84    | 187886   | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 100.80% |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 99371    | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 103.00% |
| 32) Benzene-d6                 | 5.77   | 84    | 359046   | 5.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.40% |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 117871   | 5.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 111.60% |
| 41) Toluene-d8                 | 7.93   | 98    | 287312   | 4.44     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.80%  |
| 43) trans-1,3-Dichloropropene- | 8.22   | 79    | 42070    | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 95.60%  |
| 46) 2-Hexanone-d5              | 8.68   | 63    | 196618   | 61.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 123.36% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 108213   | 5.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 111.40% |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 106480   | 5.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 107.80% |

## Target Compounds

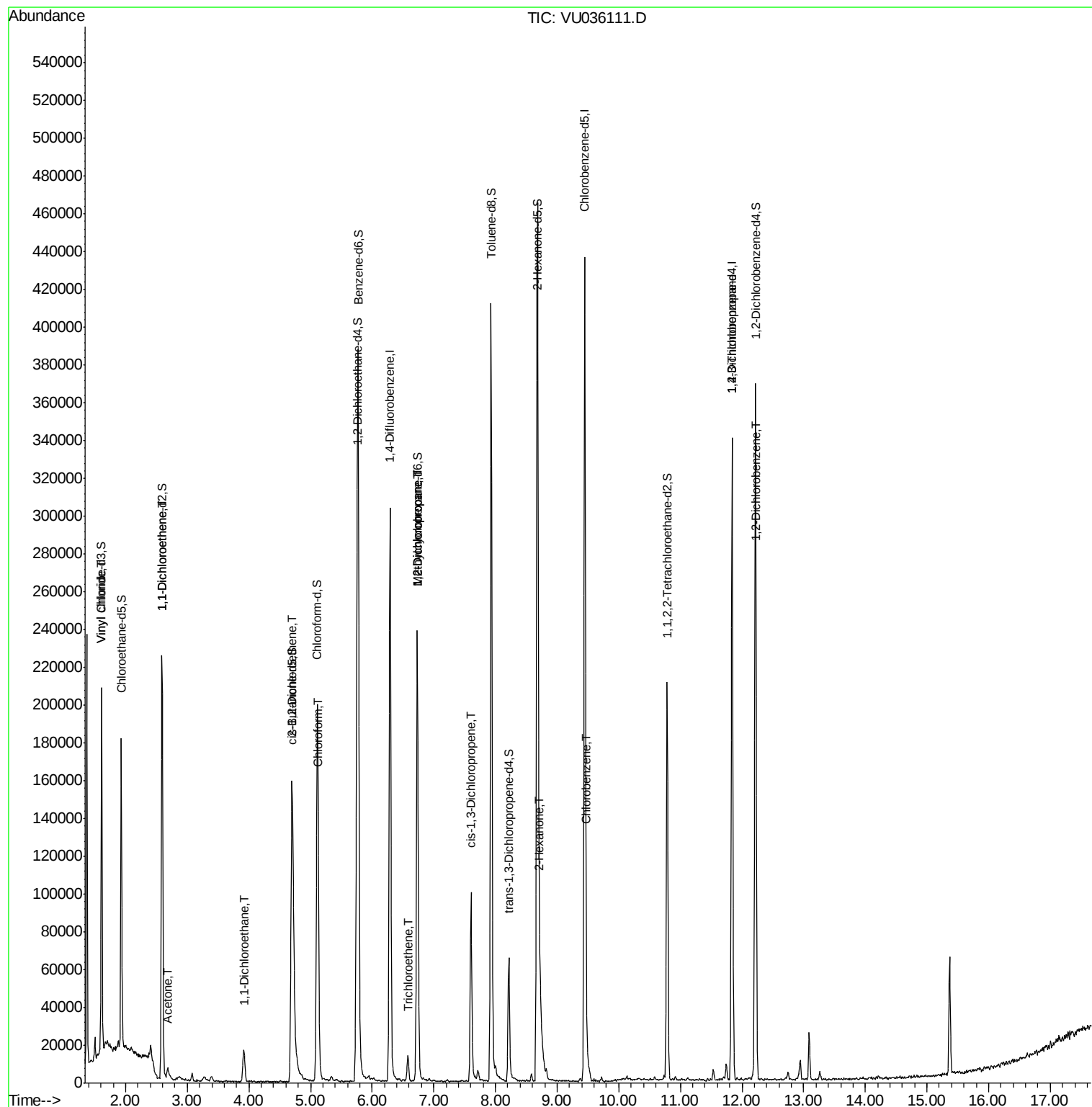
| Target Compounds            | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-----------------------------|-------|------|----------|-------|--------|--------|
| 5) Vinyl chloride           | 1.62  | 62   | 10152    | 0.393 | ug/L # | 25     |
| 12) 1,1-Dichloroethene      | 2.59  | 96   | 1705     | 0.076 | ug/L # | 1      |
| 13) Acetone                 | 2.68  | 43   | 8592     | 1.729 | ug/L   | 90     |
| 19) 1,1-Dichloroethane      | 3.92  | 63   | 19864    | 0.578 | ug/L   | 93     |
| 22) cis-1,2-Dichloroethene  | 4.72  | 96   | 21842    | 1.087 | ug/L   | 90     |
| 25) Chloroform              | 5.13  | 83   | 7938     | 0.207 | ug/L   | 94     |
| 34) Trichloroethene         | 6.58  | 95   | 4192     | 0.209 | ug/L   | 88     |
| 35) Methylcyclohexane       | 6.73  | 83   | 28264    | 1.048 | ug/L # | 18     |
| 37) 1,2-Dichloropropane     | 6.73  | 63   | 12470    | 0.657 | ug/L # | 87     |
| 39) cis-1,3-Dichloropropene | 7.61  | 75   | 2669     | 0.103 | ug/L # | 44     |
| 48) 2-Hexanone              | 8.72  | 43   | 7541     | 1.060 | ug/L # | 79     |
| 51) Chlorobenzene           | 9.48  | 112  | 4819     | 0.085 | ug/L   | 91     |
| 59) 1,2,3-Trichloropropane  | 11.84 | 75   | 11477    | 0.846 | ug/L   | 96     |
| 65) 1,2-Dichlorobenzene     | 12.24 | 146  | 4049     | 0.122 | ug/L   | 89     |

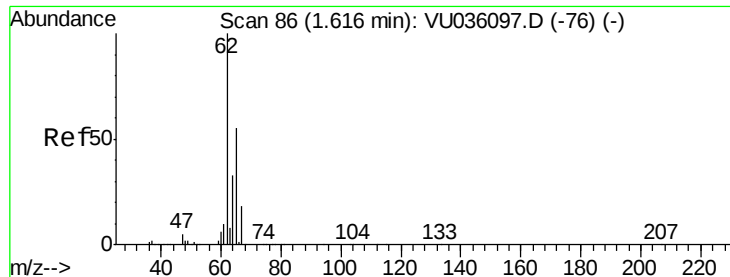
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU121019\  
Data File : VU036111.D  
Acq On : 11 Dec 2019 03:21  
Operator : JC/MD  
Sample : K6240-04  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 44 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Dec 11 07:34:51 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR120919WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Dec 11 07:30:58 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.393 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036111.D

Acq: 11 Dec 2019 03:21

Instrument :

MSVOA\_U

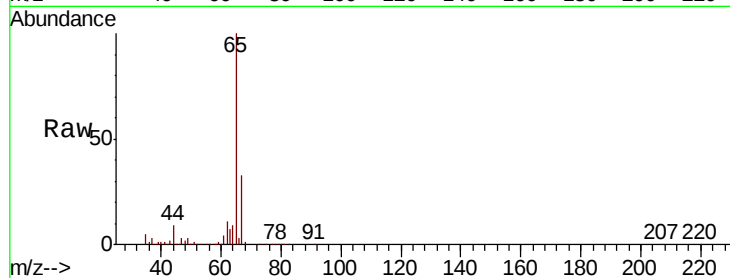
ClientSampled :

Tot Ion: 62 Resp: 10152

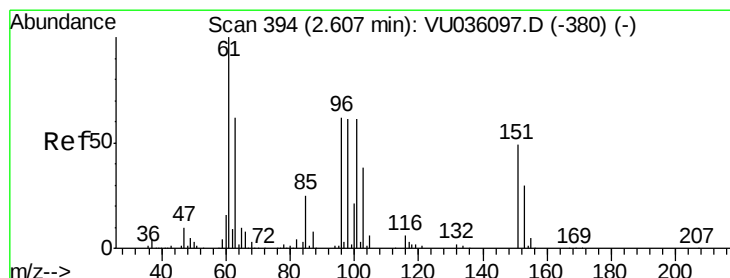
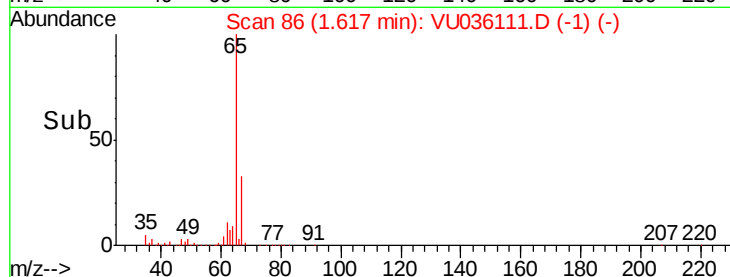
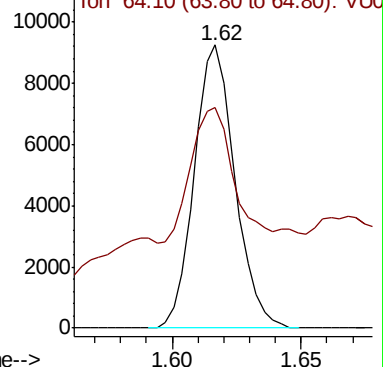
Ion Ratio Lower Upper

62 100

64 77.9 24.3 45.1#



Abundance Ion 62.00 (61.70 to 62.70): VU036111.D (-1) (-)



#12

1,1-Dichloroethene

Concen: 0.076 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.02 min

Lab File: VU036111.D

Acq: 11 Dec 2019 03:21

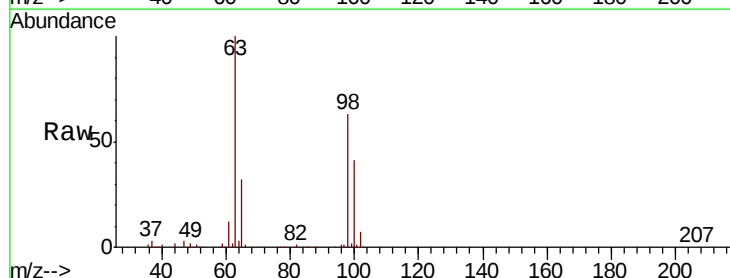
Tgt Ion: 96 Resp: 1705

Ion Ratio Lower Upper

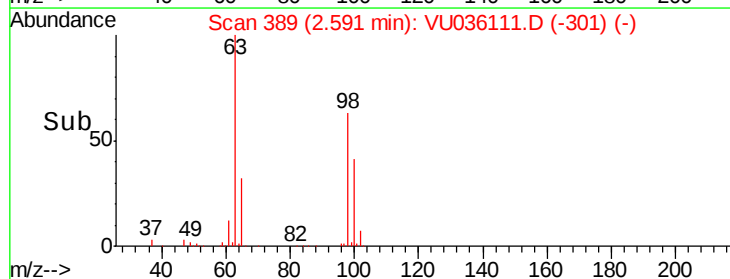
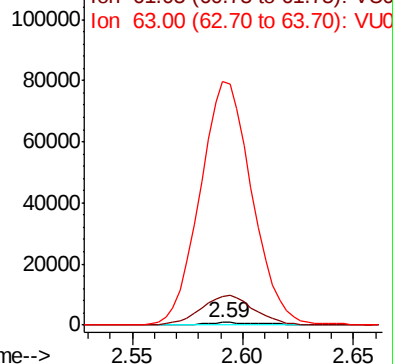
96 100

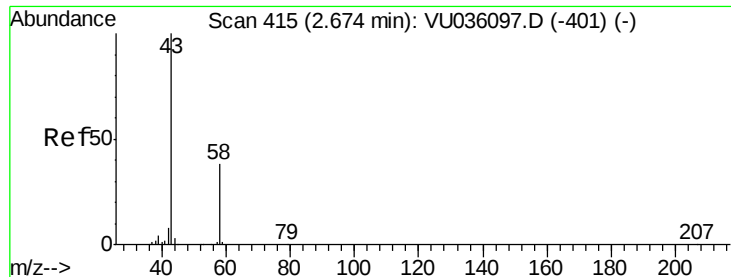
61 1113.9 104.3 193.7#

63 9394.3 65.6 121.8#



Abundance Ion 96.00 (95.70 to 96.70): VU036111.D (-301) (-)





#13

Acetone

Concen: 1.729 ug/L

RT: 2.68 min Scan# 418

Delta R.T. 0.01 min

Lab File: VU036111.D

Acq: 11 Dec 2019 03:21

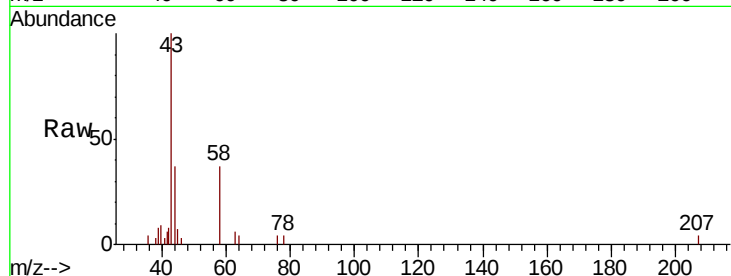
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 8592

Ion Ratio Lower Upper

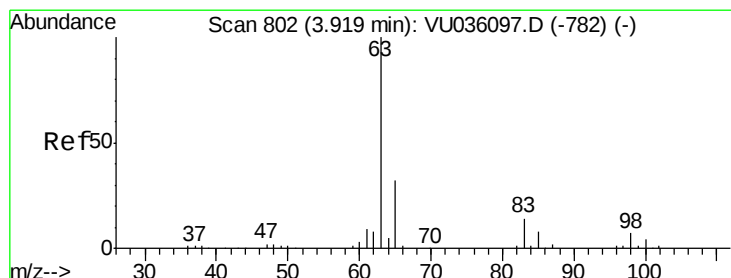
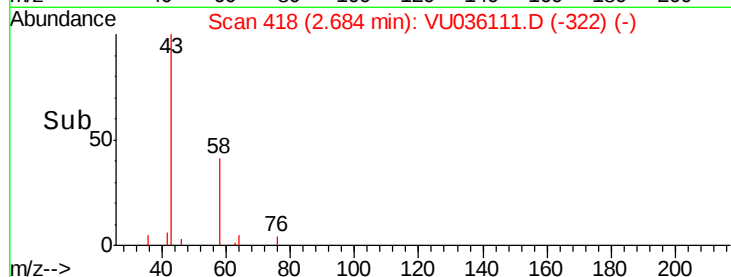
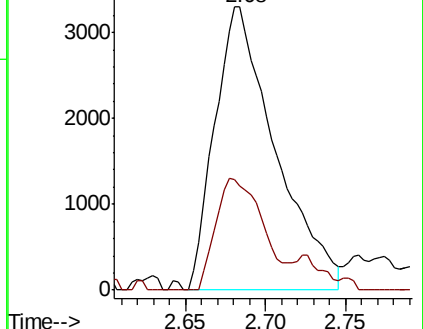
43 100

58 31.2 0.0 74.2



Abundance Ion 43.05 (42.75 to 43.75): VU036111.D (-322) (-)

Ion 58.05 (57.75 to 58.75): VU036111.D (-322) (-)



#19

1,1-Dichloroethane

Concen: 0.578 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU036111.D

Acq: 11 Dec 2019 03:21

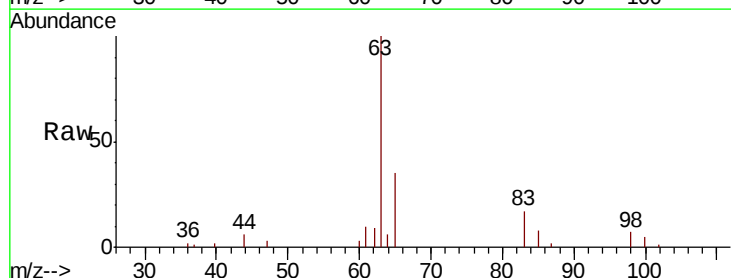
Tgt Ion: 63 Resp: 19864

Ion Ratio Lower Upper

63 100

65 35.2 21.8 40.4

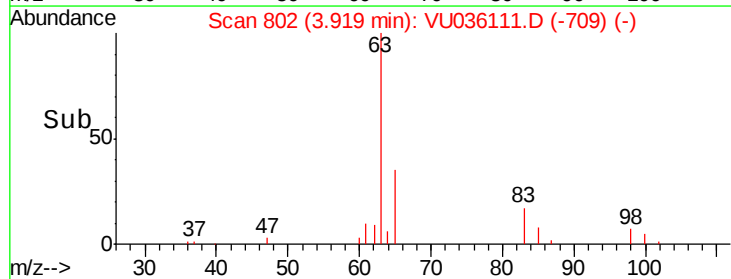
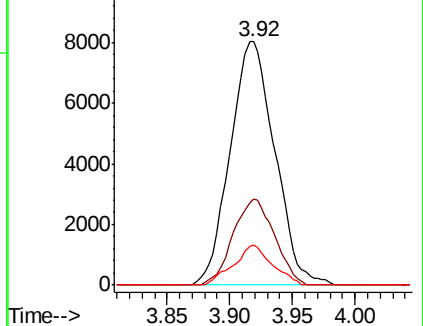
83 16.7 10.1 18.9

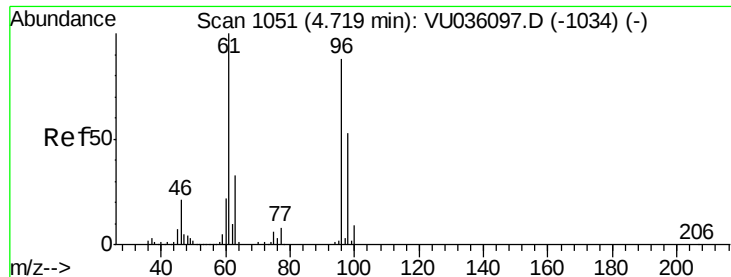


Abundance Ion 63.10 (62.80 to 63.80): VU036111.D (-709) (-)

Ion 65.10 (64.80 to 65.80): VU036111.D (-709) (-)

Ion 83.05 (82.75 to 83.75): VU036111.D (-709) (-)





#22

cis-1,2-Dichloroethene

Concen: 1.087 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU036111.D

Acq: 11 Dec 2019 03:21

Instrument :  
MSVOA\_U  
ClientSampleId :

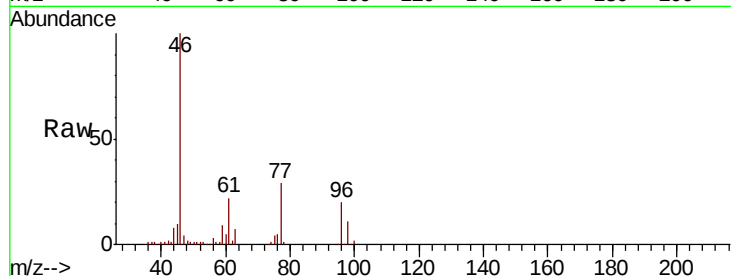
Tot Ion: 96 Resp: 21842

Ion Ratio Lower Upper

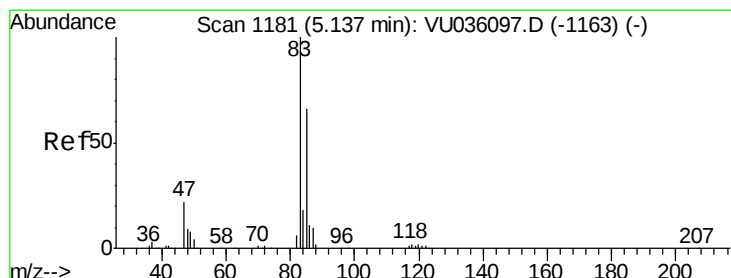
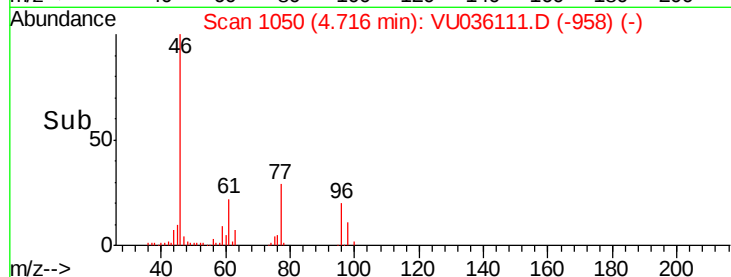
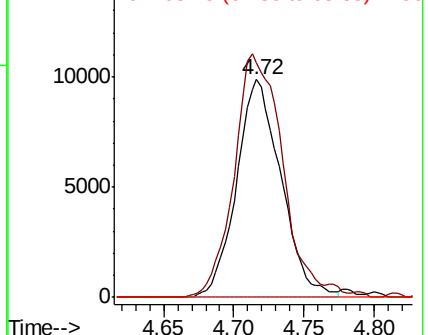
96 100

61 107.9 83.0 154.2

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



#25

Chloroform

Concen: 0.207 ug/L

RT: 5.13 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VU036111.D

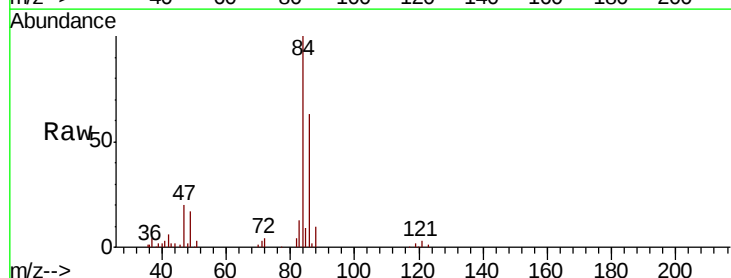
Acq: 11 Dec 2019 03:21

Tgt Ion: 83 Resp: 7938

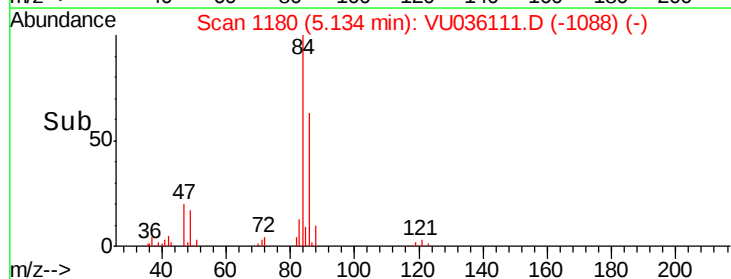
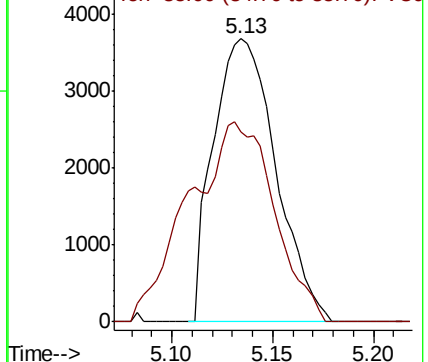
Ion Ratio Lower Upper

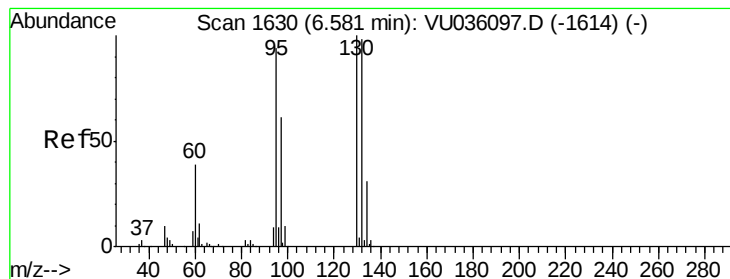
83 100

85 67.3 43.9 81.5



Abundance Ion 83.05 (82.75 to 83.75): VU0  
Ion 85.00 (84.70 to 85.70): VU0





#34

Trichloroethene

Concen: 0.209 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036111.D

Acq: 11 Dec 2019 03:21

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 95 Resp: 4192

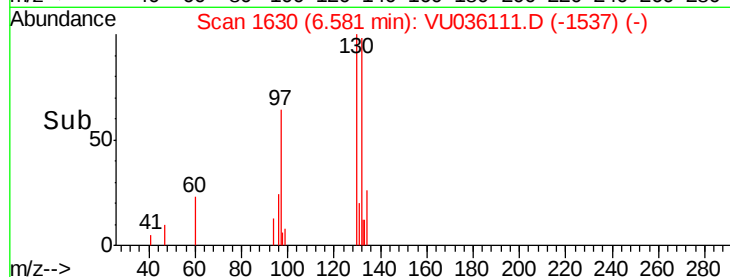
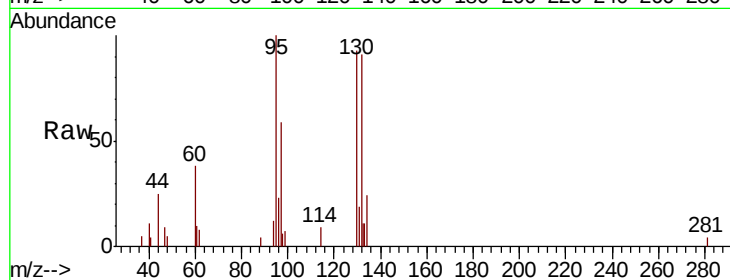
Ion Ratio Lower Upper

95 100

97 59.1 44.4 82.4

132 90.6 73.4 136.4

130 92.8 75.9 141.1

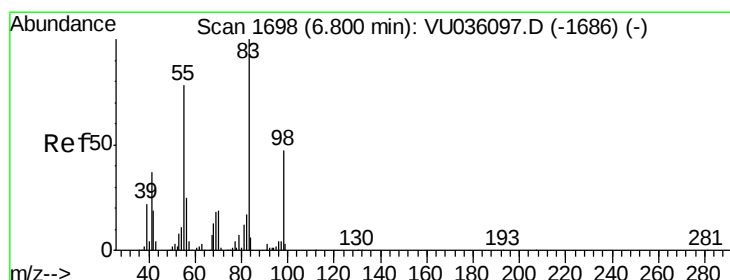
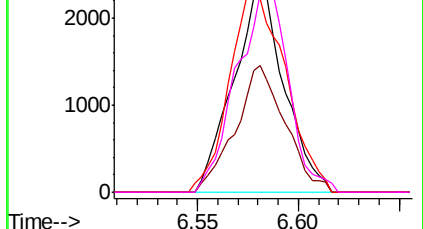


Abundance Ion 95.00 (94.70 to 95.70): VU036111.D (-1537) (-)

Ion 96.95 (96.65 to 97.65): VU036111.D (-1537) (-)

Ion 131.95 (131.65 to 132.65): VU036111.D (-1537) (-)

Ion 129.95 (129.65 to 130.65): VU036111.D (-1537) (-)



#35

Methylcyclohexane

Concen: 1.048 ug/L

RT: 6.73 min Scan# 1677

Delta R.T. -0.07 min

Lab File: VU036111.D

Acq: 11 Dec 2019 03:21

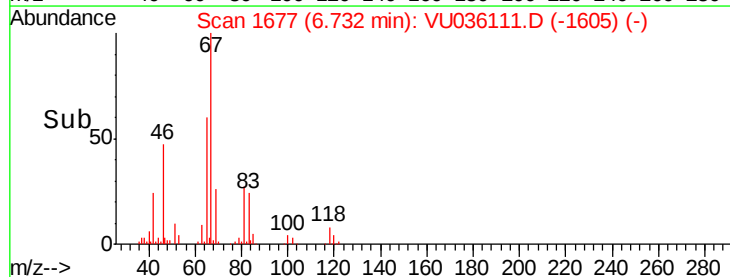
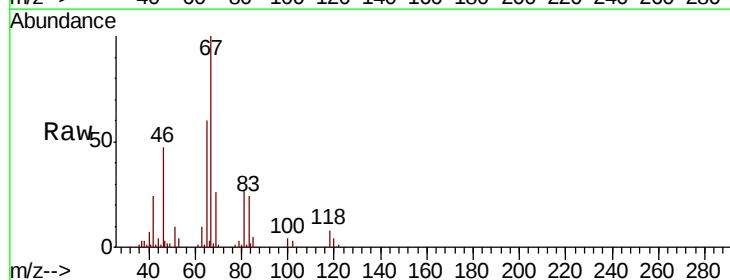
Tgt Ion: 83 Resp: 28264

Ion Ratio Lower Upper

83 100

55 0.1 62.1 93.1#

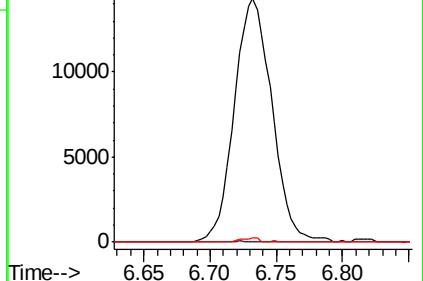
98 0.8 37.0 55.4#

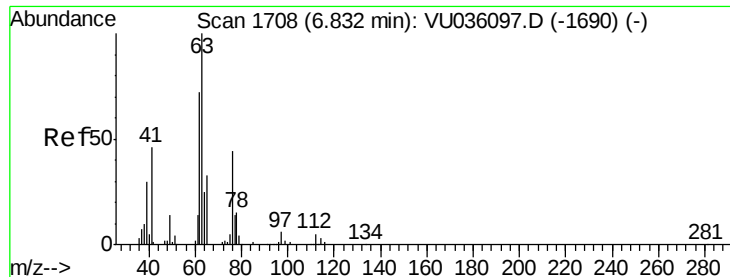


Abundance Ion 83.15 (82.85 to 83.85): VU036111.D (-1605) (-)

Ion 55.10 (54.80 to 55.80): VU036111.D (-1605) (-)

Ion 98.15 (97.85 to 98.85): VU036111.D (-1605) (-)

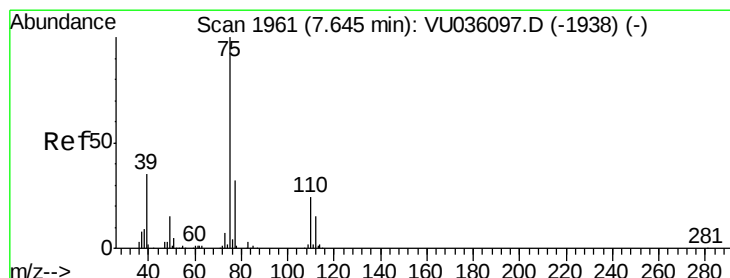
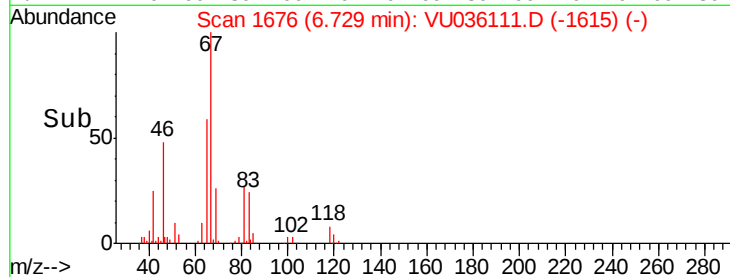
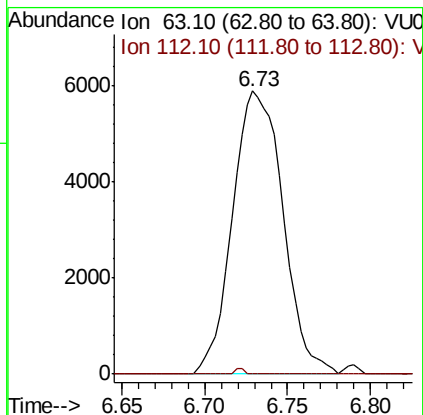
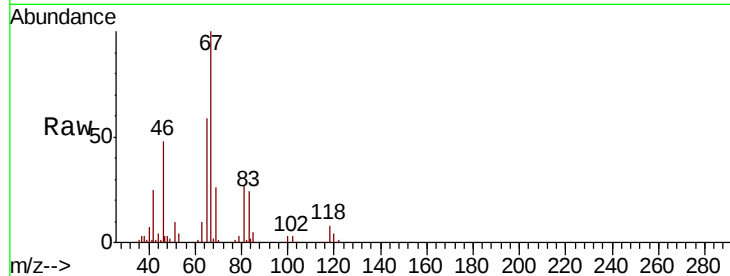




#37  
 1,2-Dichloropropane  
 Concen: 0.657 ug/L  
 RT: 6.73 min Scan# 1676  
 Delta R.T. -0.10 min  
 Lab File: VU036111.D  
 Acq: 11 Dec 2019 03:21

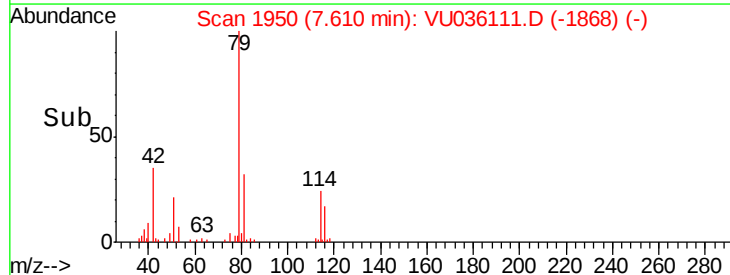
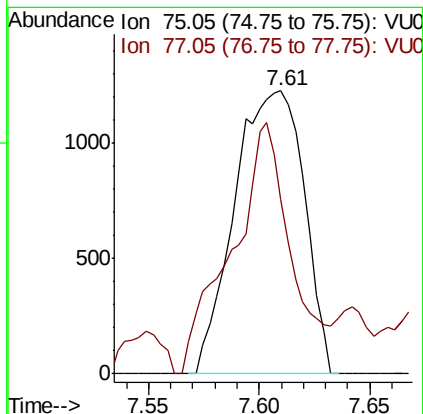
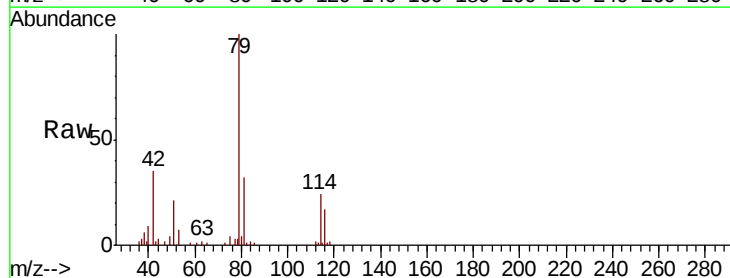
Instrument :  
 MSVOA\_U  
 ClientSampleId :

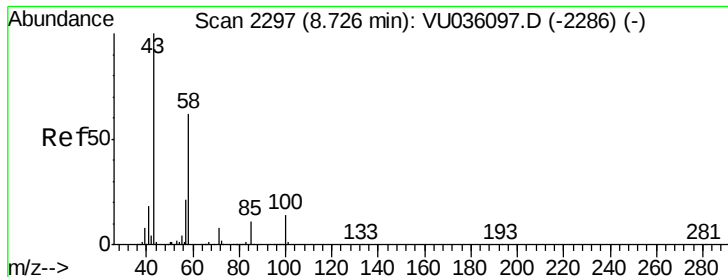
Tot Ion: 63 Resp: 12470  
 Ion Ratio Lower Upper  
 63 100  
 112 0.3 3.8 5.8#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.103 ug/L  
 RT: 7.61 min Scan# 1950  
 Delta R.T. -0.04 min  
 Lab File: VU036111.D  
 Acq: 11 Dec 2019 03:21

Tgt Ion: 75 Resp: 2669  
 Ion Ratio Lower Upper  
 75 100  
 77 61.7 21.7 40.3#

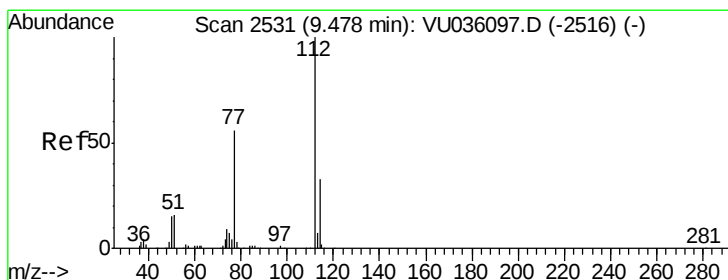
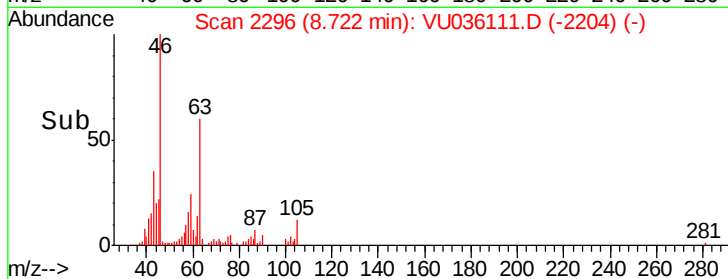
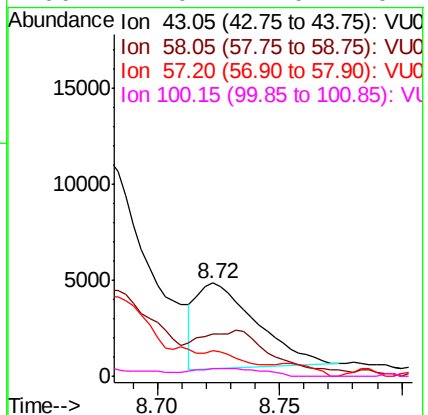
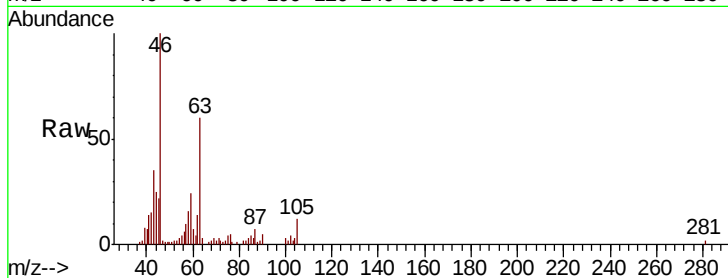




#48  
2-Hexanone  
Concen: 1.060 ug/L  
RT: 8.72 min Scan# 2296  
Delta R.T. -0.00 min  
Lab File: VU036111.D  
Acq: 11 Dec 2019 03:21

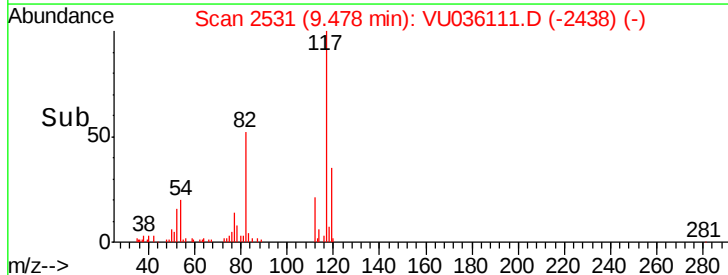
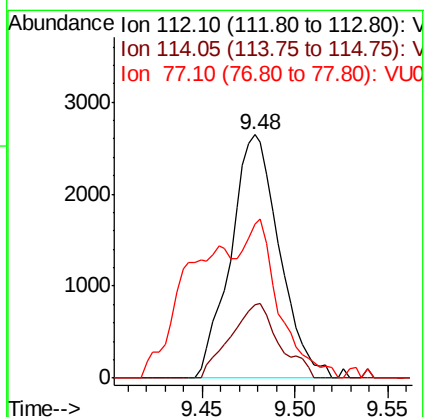
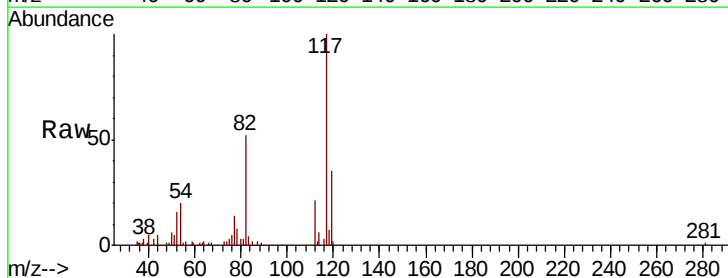
Instrument :  
MSVOA\_U  
ClientSampleId :

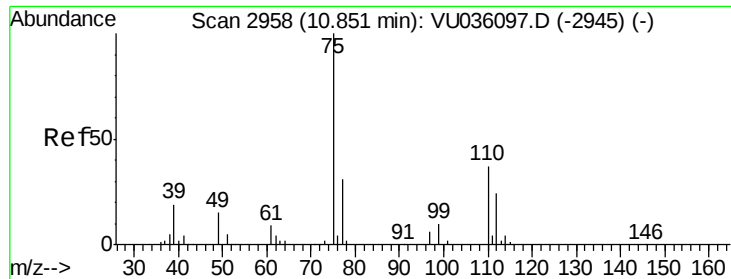
Tot Ion: 43 Resp: 7541  
Ion Ratio Lower Upper  
43 100  
58 70.8 46.9 70.3#  
57 0.0 16.4 24.6#  
100 11.0 11.0 16.4



#51  
Chlorobenzene  
Concen: 0.085 ug/L  
RT: 9.48 min Scan# 2531  
Delta R.T. 0.00 min  
Lab File: VU036111.D  
Acq: 11 Dec 2019 03:21

Tgt Ion: 112 Resp: 4819  
Ion Ratio Lower Upper  
112 100  
114 30.1 22.3 41.5  
77 63.3 43.8 65.8

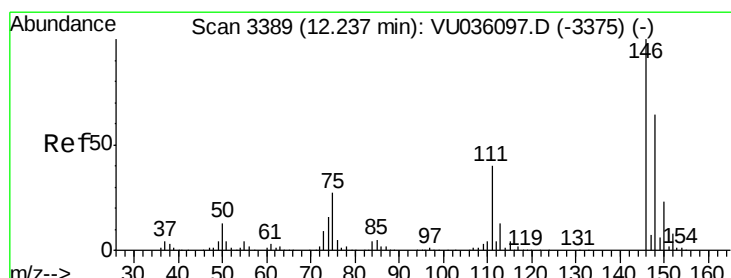
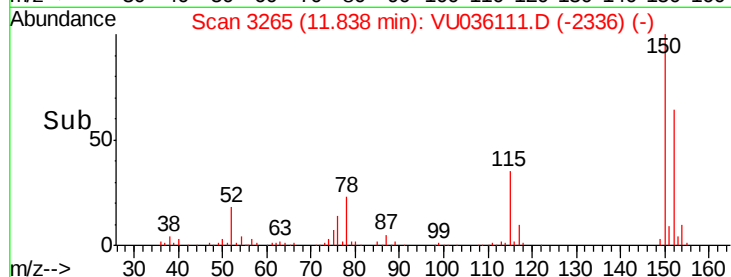
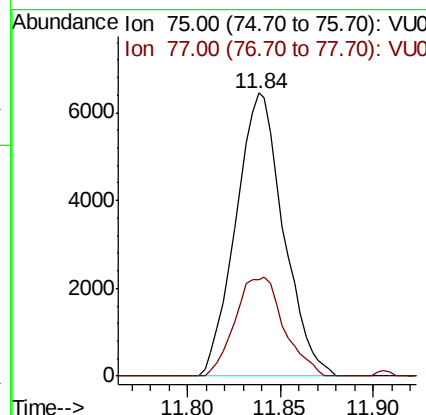
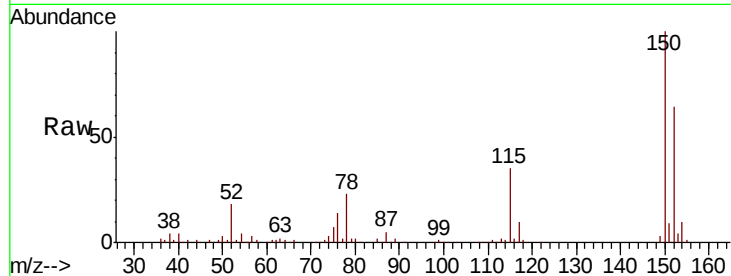




#59  
1,2,3-Trichloropropane  
Concen: 0.846 ug/L  
RT: 11.84 min Scan# 3265  
Delta R.T. 0.99 min  
Lab File: VU036111.D  
Acq: 11 Dec 2019 03:21

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 75 Resp: 11477  
Ion Ratio Lower Upper  
75 100  
77 35.7 26.7 40.1



#65  
1,2-Dichlorobenzene  
Concen: 0.122 ug/L  
RT: 12.24 min Scan# 3389  
Delta R.T. 0.00 min  
Lab File: VU036111.D  
Acq: 11 Dec 2019 03:21

Tgt Ion: 146 Resp: 4049  
Ion Ratio Lower Upper  
146 100  
111 41.9 31.3 46.9  
148 51.1 50.5 75.7

