

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101920\  
 Data File : VU040804.D  
 Acq On : 19 Oct 2020 14:54  
 Operator : SY/MD  
 Sample : L4354-15DL 5X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ETZ35DL

Quant Time: Oct 20 01:38:08 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100820WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Oct 20 01:28:45 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 118495   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 125218   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 51833    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 34355    | 3.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 70.00%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 34505    | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 91.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 54575    | 2.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 56.80%# |
| 20) 2-Butanone-d5              | 4.66   | 46    | 182028   | 57.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 115.86% |
| 24) Chloroform-d               | 5.08   | 84    | 86687    | 5.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 100.60% |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 52638    | 5.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 100.20% |
| 32) Benzene-d6                 | 5.75   | 84    | 142368   | 4.22     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 84.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 52221    | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.20%  |
| 41) Toluene-d8                 | 7.91   | 98    | 107972   | 3.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 71.40%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 19711    | 4.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 83.00%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 123064   | 50.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.56% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 51073    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.60% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 48561    | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 101.00% |

## Target Compounds

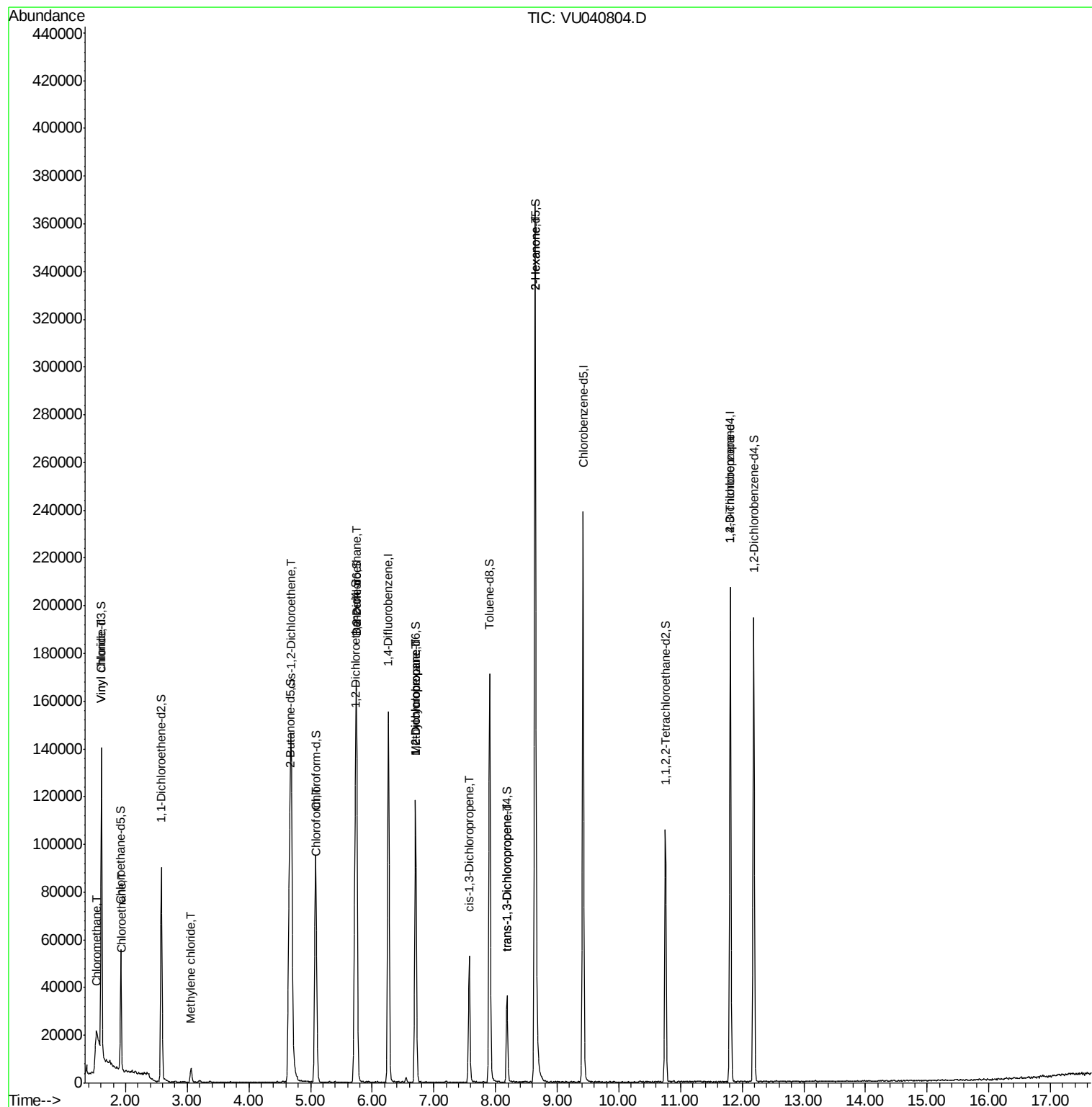
| Target Compounds              | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------------|-------|------|----------|-------|--------|--------|
| 3) Chloromethane              | 1.53  | 50   | 984      | 0.098 | ug/L # | 43     |
| 5) Vinyl chloride             | 1.61  | 62   | 52448    | 4.960 | ug/L # | 81     |
| 8) Chloroethane               | 1.94  | 64   | 537      | 0.080 | ug/L # | 55     |
| 16) Methylene chloride        | 3.06  | 84   | 2721     | 0.251 | ug/L   | 94     |
| 22) cis-1,2-Dichloroethene    | 4.69  | 96   | 50098    | 5.249 | ug/L   | 95     |
| 25) Chloroform                | 5.10  | 83   | 1851     | 0.099 | ug/L   | 91     |
| 27) 1,2-Dichloroethane        | 5.74  | 62   | 882      | 0.067 | ug/L # | 77     |
| 35) Methylcyclohexane         | 6.70  | 83   | 12279    | 0.830 | ug/L # | 14     |
| 37) 1,2-Dichloropropane       | 6.70  | 63   | 6222     | 0.555 | ug/L # | 87     |
| 39) cis-1,3-Dichloropropene   | 7.58  | 75   | 1261     | 0.082 | ug/L # | 64     |
| 44) trans-1,3-Dichloropropene | 8.18  | 75   | 1002     | 0.071 | ug/L # | 72     |
| 48) 2-Hexanone                | 8.64  | 43   | 16132    | 2.425 | ug/L # | 73     |
| 59) 1,2,3-Trichloropropane    | 11.81 | 75   | 7238     | 0.879 | ug/L   | 94     |

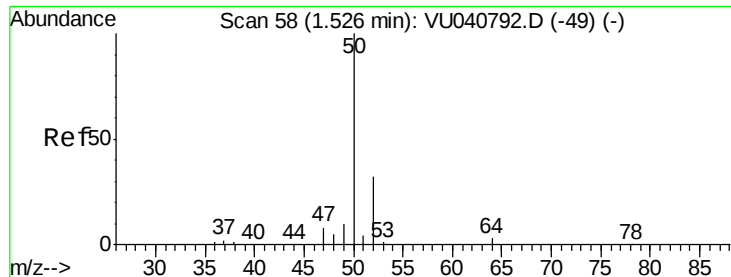
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU101920\  
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Acq On : 19 Oct 2020 14:54  
Operator : SY/MD  
Sample : L4354-15DL 5X  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
ETZ35DL

Quant Time: Oct 20 01:38:08 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100820WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Oct 20 01:28:45 2020  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.098 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040804.D

Acq: 19 Oct 2020 14:54

Instrument :

MSVOA\_U

ClientSampleId :

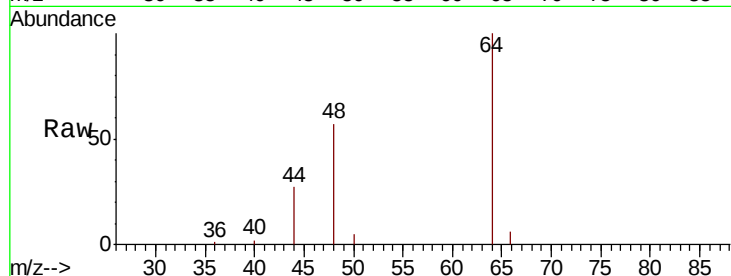
ETZ35DL

Tot Ion: 50 Resp: 984

Ion Ratio Lower Upper

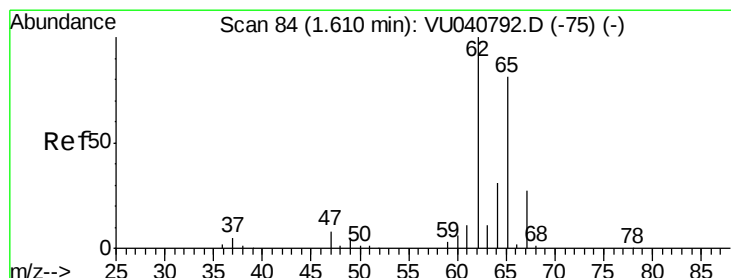
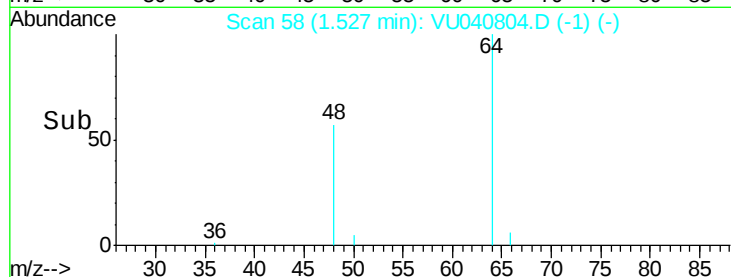
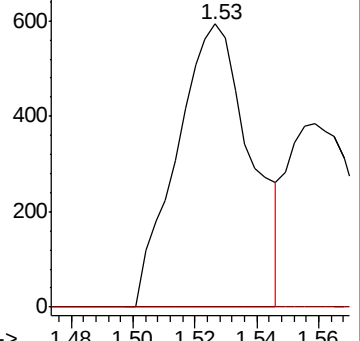
50 100

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: 4.960 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040804.D

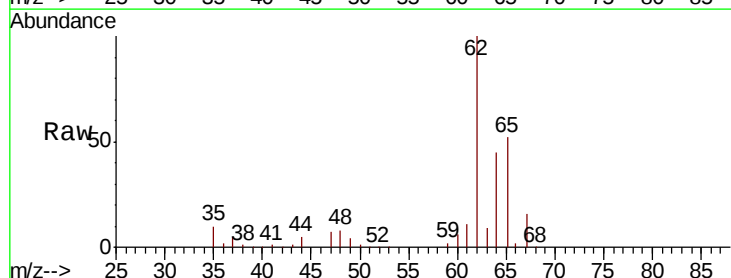
Acq: 19 Oct 2020 14:54

Tgt Ion: 62 Resp: 52448

Ion Ratio Lower Upper

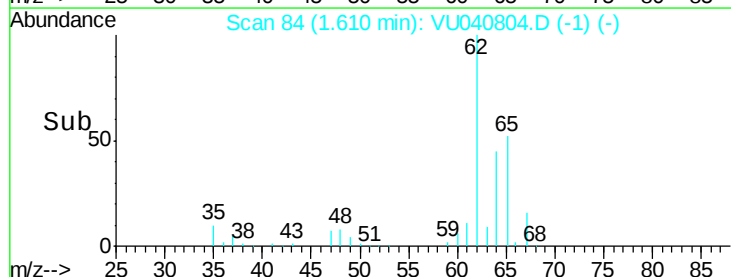
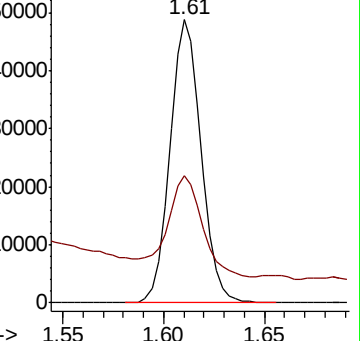
62 100

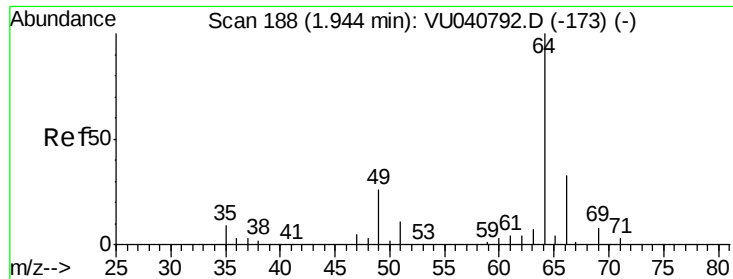
64 44.8 23.7 44.1#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

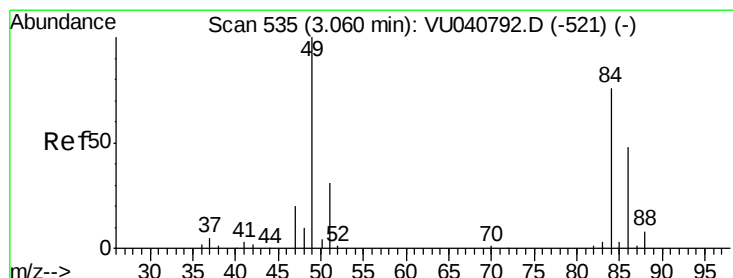
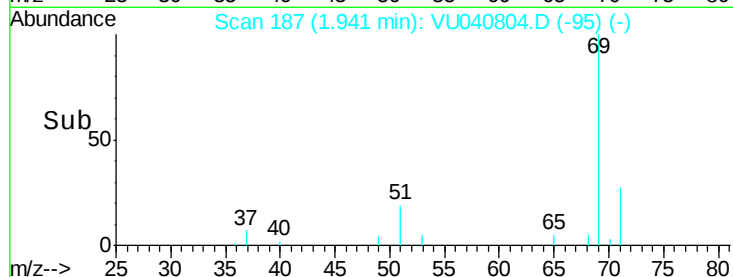
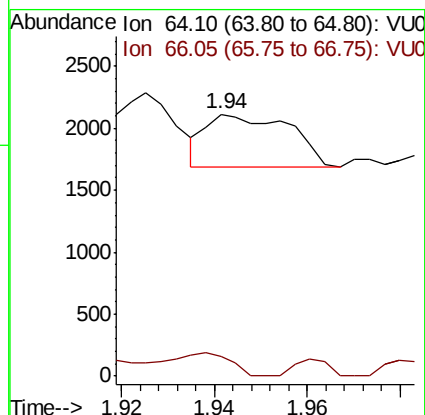
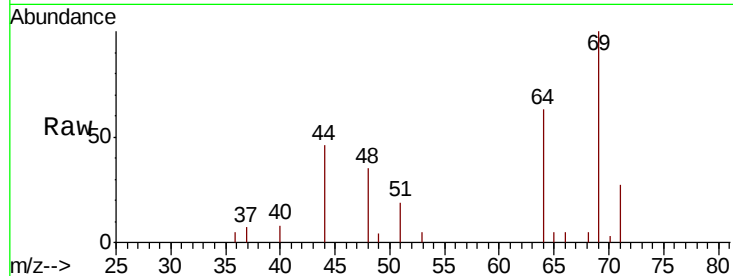




#8  
Chloroethane  
Concen: 0.080 ug/L  
RT: 1.94 min Scan# 187  
Delta R.T. -0.00 min  
Lab File: VU040804.D  
Acq: 19 Oct 2020 14:54

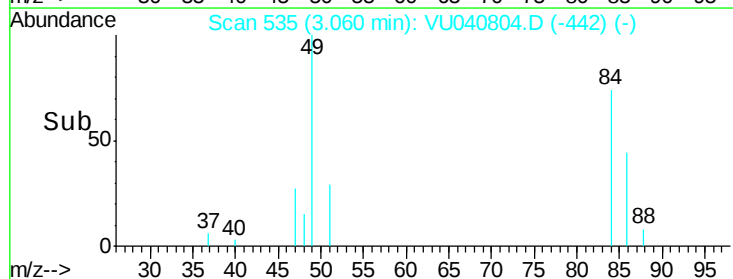
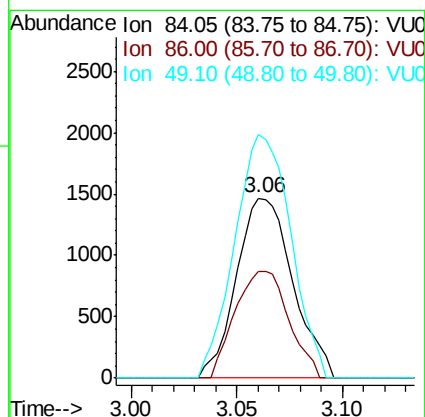
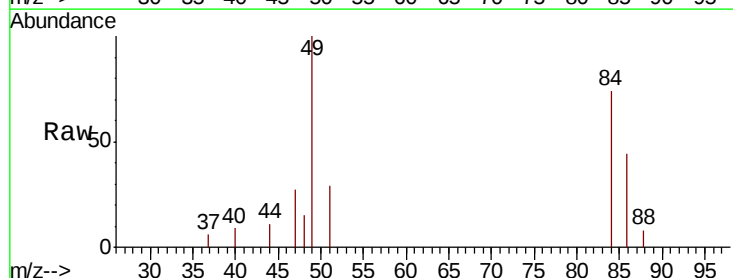
Instrument :  
MSVOA\_U  
ClientSampleId :  
ETZ35DL

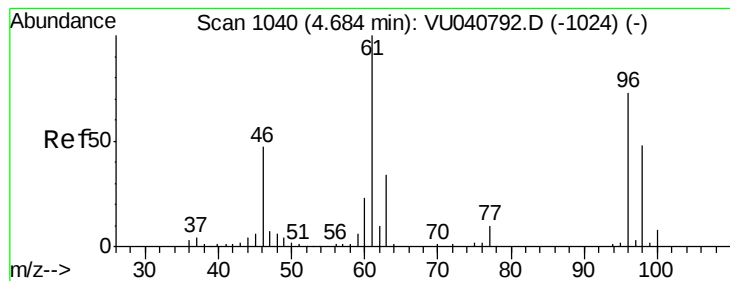
Tot Ion: 64 Resp: 537  
Ion Ratio Lower Upper  
64 100  
66 7.6 23.3 43.3#



#16  
Methylene chloride  
Concen: 0.251 ug/L  
RT: 3.06 min Scan# 535  
Delta R.T. 0.00 min  
Lab File: VU040804.D  
Acq: 19 Oct 2020 14:54

Tgt Ion: 84 Resp: 2721  
Ion Ratio Lower Upper  
84 100  
86 59.1 45.4 84.4  
49 135.3 99.8 185.3





#22

cis-1,2-Dichloroethene

Concen: 5.249 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040804.D

Acq: 19 Oct 2020 14:54

Instrument :

MSVOA\_U

ClientSampleId :

ETZ35DL

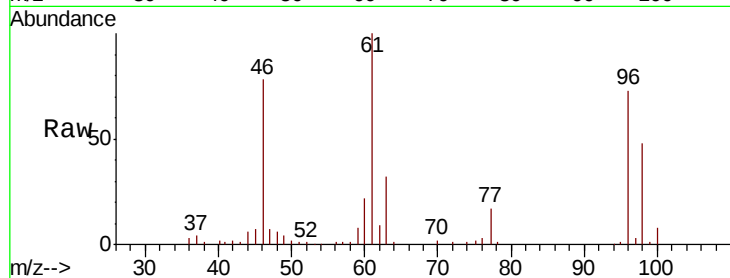
Tot Ion: 96 Resp: 50098

Ion Ratio Lower Upper

96 100

61 136.8 99.8 185.4

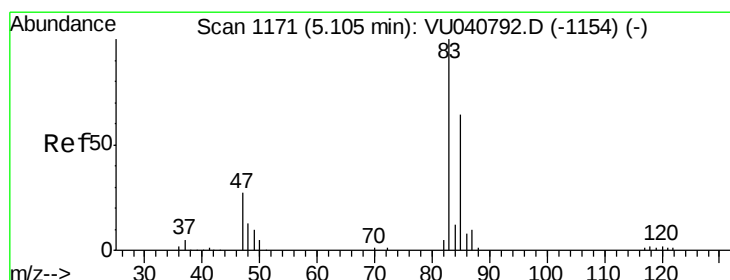
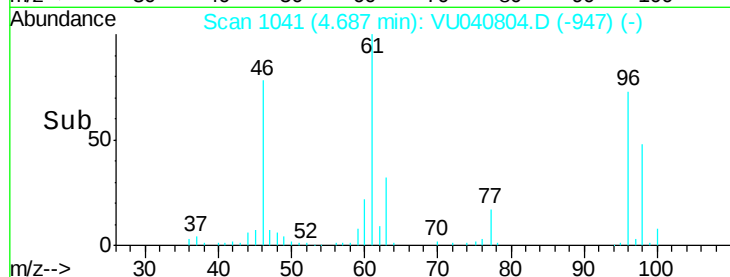
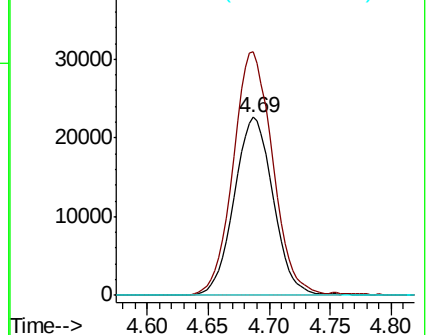
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040804.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU040804.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU040804.D (-947) (-)



#25

Chloroform

Concen: 0.099 ug/L

RT: 5.10 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VU040804.D

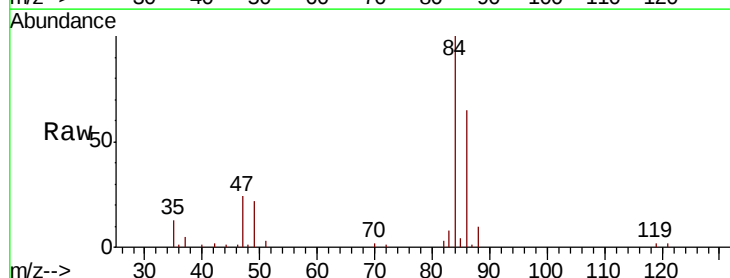
Acq: 19 Oct 2020 14:54

Tgt Ion: 83 Resp: 1851

Ion Ratio Lower Upper

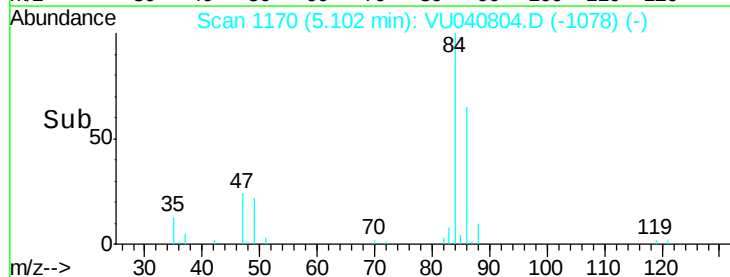
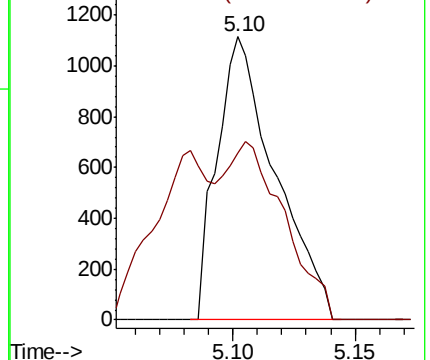
83 100

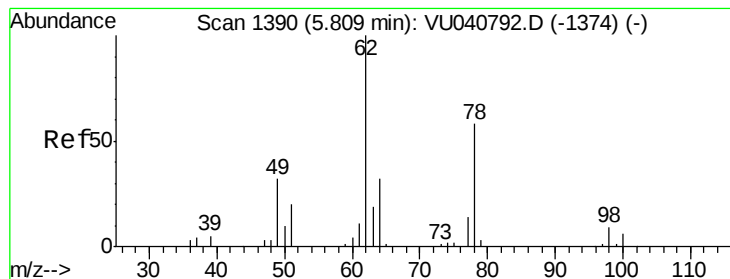
85 59.2 46.5 86.5



Abundance Ion 83.05 (82.75 to 83.75): VU040804.D (-1078) (-)

Ion 85.00 (84.70 to 85.70): VU040804.D (-1078) (-)





#27

1,2-Dichloroethane

Concen: 0.067 ug/L

RT: 5.74 min Scan# 1369

Delta R.T. -0.07 min

Lab File: VU040804.D

Acq: 19 Oct 2020 14:54

Instrument :

MSVOA\_U

ClientSampleId :

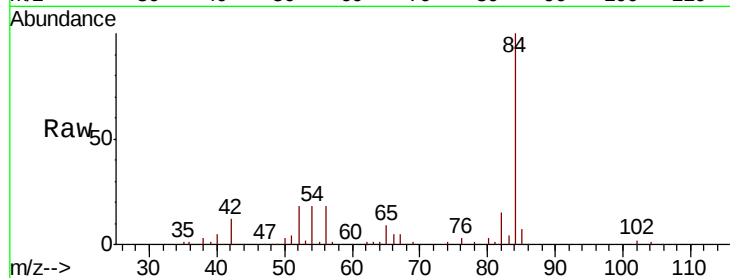
ETZ35DL

Tot Ion: 62 Resp: 882

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#



Abundance Ion 62.00 (61.70 to 62.70): VU040804.D (-1297) (-)

Ion 98.05 (97.75 to 98.75): VU040804.D (-1297) (-)

5.74

500

400

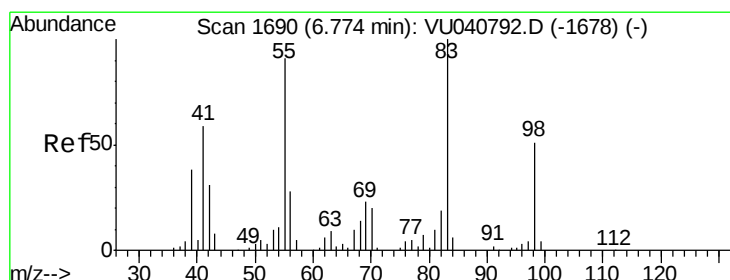
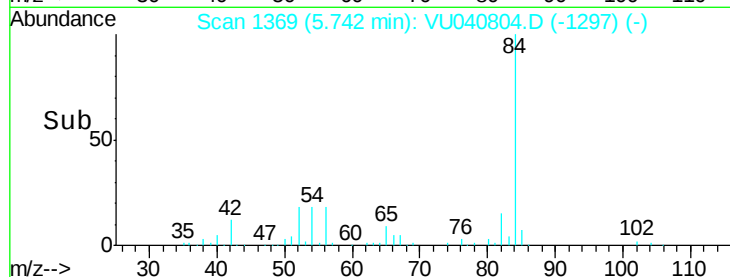
300

200

100

0

Time-->



#35

Methylcyclohexane

Concen: 0.830 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU040804.D

Acq: 19 Oct 2020 14:54

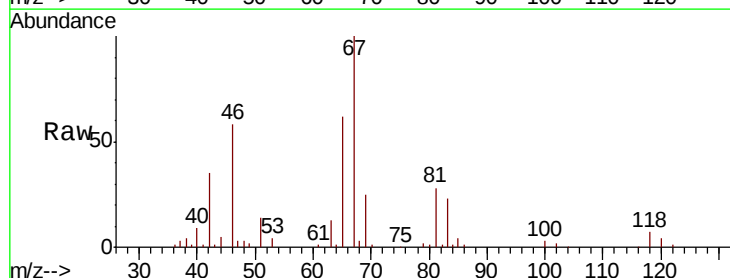
Tgt Ion: 83 Resp: 12279

Ion Ratio Lower Upper

83 100

55 0.0 70.7 106.1#

98 0.7 38.4 57.6#



Abundance Ion 83.15 (82.85 to 83.85): VU040804.D (-1597) (-)

Ion 55.10 (54.80 to 55.80): VU040804.D (-1597) (-)

Ion 98.15 (97.85 to 98.85): VU040804.D (-1597) (-)

6.70

8000

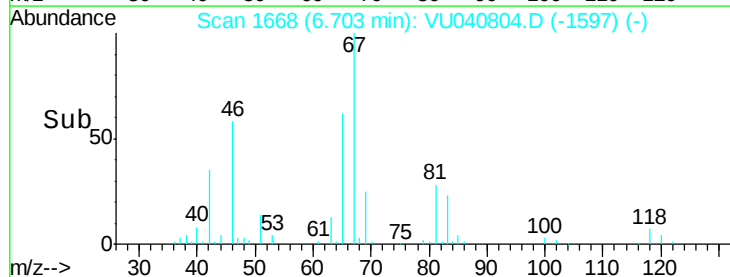
6000

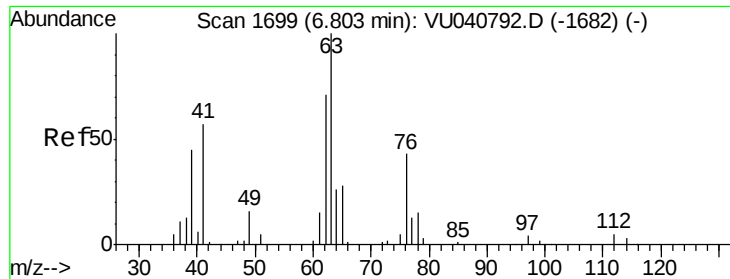
4000

2000

0

Time-->

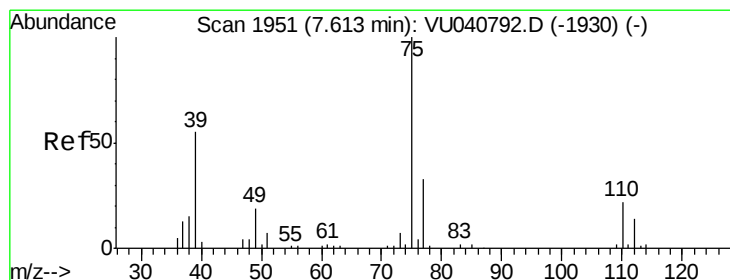
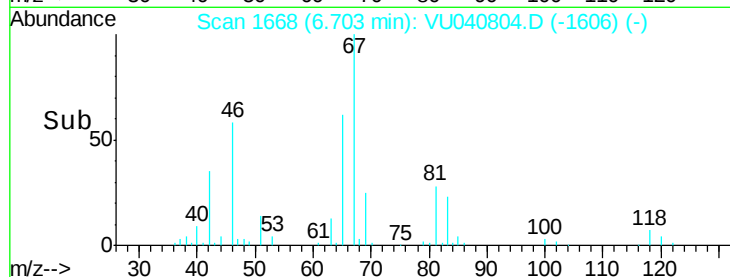
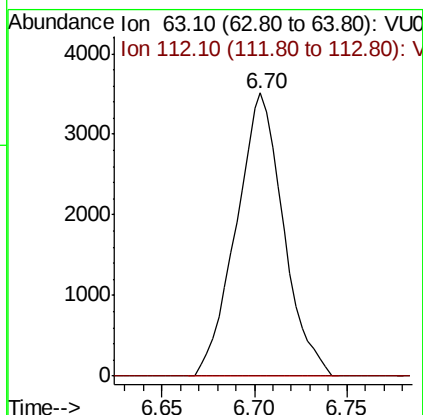
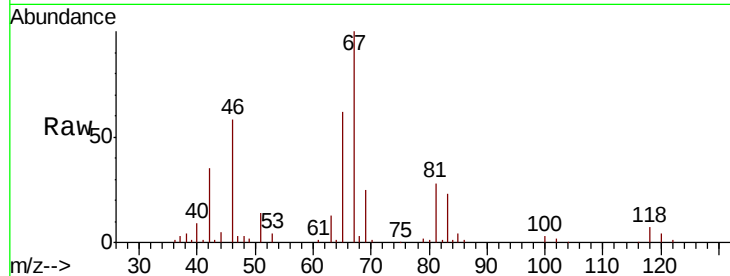




#37  
 1,2-Dichloropropane  
 Concen: 0.555 ug/L  
 RT: 6.70 min Scan# 1668  
 Delta R.T. -0.10 min  
 Lab File: VU040804.D  
 Acq: 19 Oct 2020 14:54

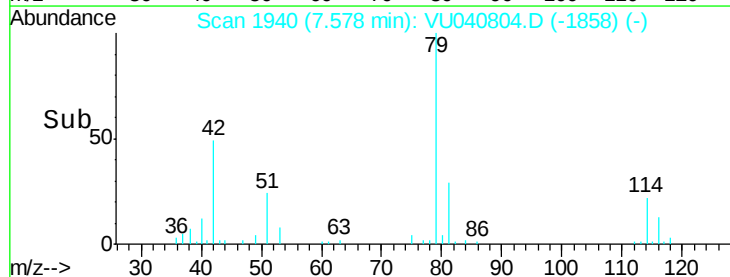
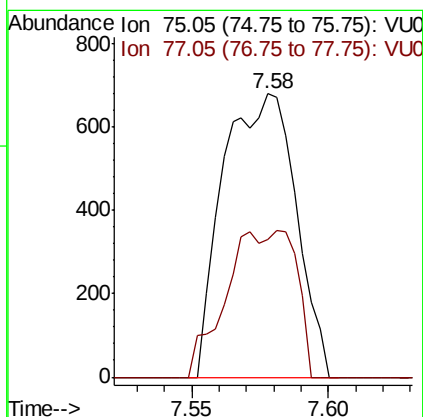
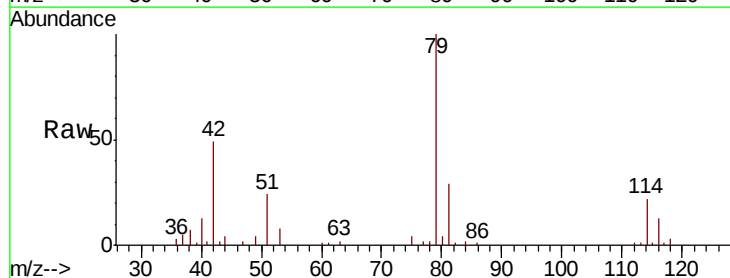
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ETZ35DL

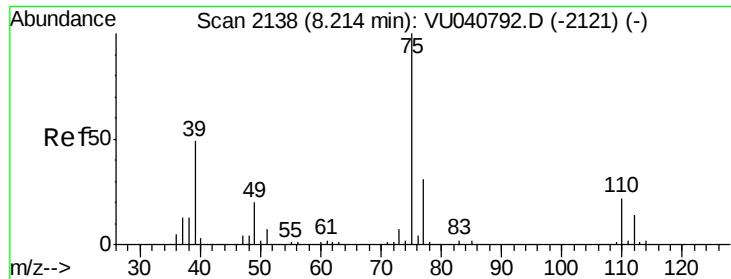
Tot Ion: 63 Resp: 6222  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.5 5.3#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.082 ug/L  
 RT: 7.58 min Scan# 1940  
 Delta R.T. -0.04 min  
 Lab File: VU040804.D  
 Acq: 19 Oct 2020 14:54

Tgt Ion: 75 Resp: 1261  
 Ion Ratio Lower Upper  
 75 100  
 77 48.5 20.5 38.1#





#44

trans-1,3-Dichloropropene

Concen: 0.071 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU040804.D

Acq: 19 Oct 2020 14:54

Instrument :

MSVOA\_U

ClientSampleId :

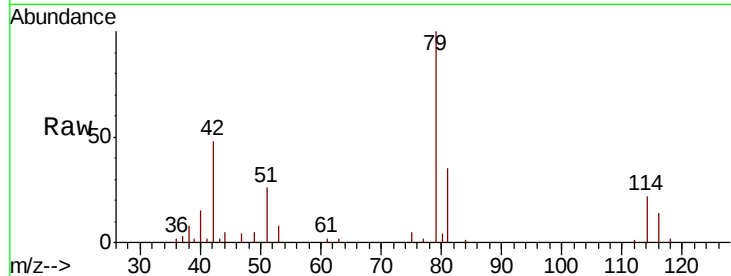
ETZ35DL

Tot Ion: 75 Resp: 1002

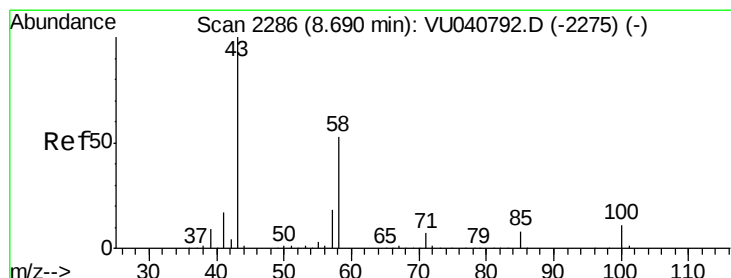
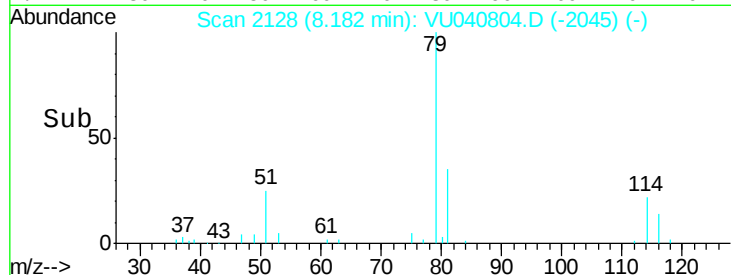
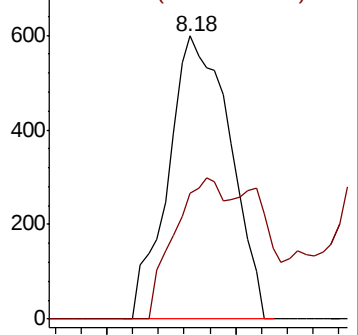
Ion Ratio Lower Upper

75 100

77 44.3 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU040804.D (-2121) (-)



#48

2-Hexanone

Concen: 2.425 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU040804.D

Acq: 19 Oct 2020 14:54

Tgt Ion: 43 Resp: 16132

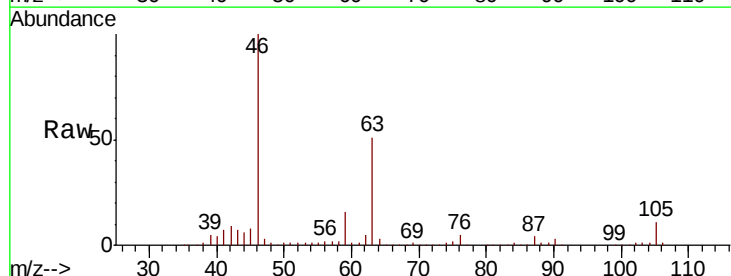
Ion Ratio Lower Upper

43 100

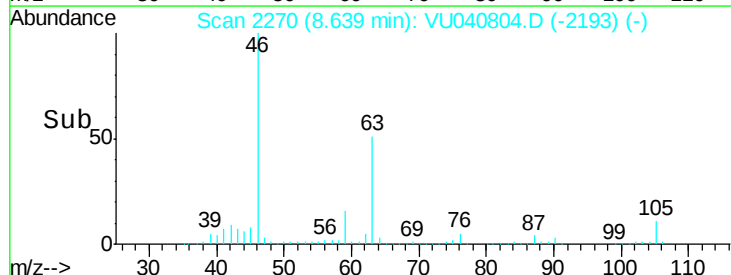
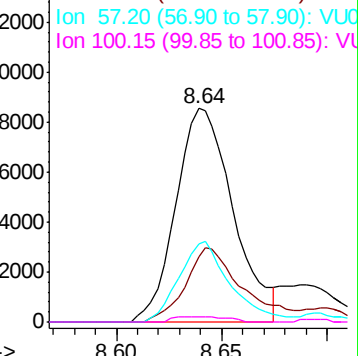
58 34.4 41.0 61.6#

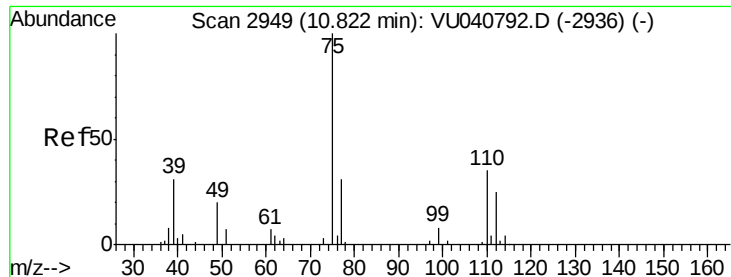
57 33.8 14.4 21.6#

100 2.4 8.6 13.0#



Abundance Ion 43.05 (42.75 to 43.75): VU040804.D (-2193) (-)





#59

1,2,3-Trichloropropane

Concen: 0.879 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040804.D

Acq: 19 Oct 2020 14:54

Instrument :

MSVOA\_U

ClientSampleId :

ETZ35DL

Tot Ion: 75 Resp: 7238

Ion Ratio Lower Upper

75 100

77 36.2 26.4 39.6

