

Data File : VU041400.D  
Acq On : 23 Nov 2020 20:15  
Operator : SY/MD  
Sample : L4849-09DL 10X  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4422DL

Quant Time: Nov 24 01:56:16 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR112320WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Nov 24 01:52:19 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 64798    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 68936    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 28465    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 22488    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 98.80%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 16143    | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 101.00% |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 36100    | 4.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 80.80%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 67294    | 58.00    | ug/L | 0.02    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 116.00% |
| 24) Chloroform-d               | 5.08   | 84    | 44516    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 29301    | 5.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 108.40% |
| 32) Benzene-d6                 | 5.74   | 84    | 82737    | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 27863    | 5.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 103.80% |
| 41) Toluene-d8                 | 7.90   | 98    | 71410    | 4.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.80%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 11842    | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 97.20%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 44477    | 55.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 111.58% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 23873    | 5.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 109.20% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 27097    | 5.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 114.20% |

#### Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 5) Vinyl chloride              | 1.61 | 62  | 58819 | 10.387 ug/L  | 97     |
| 8) Chloroethane                | 1.87 | 64  | 7032  | 2.190 ug/L # | 40     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.58 | 101 | 201   | 0.045 ug/L # | 21     |
| 14) Carbon disulfide           | 2.81 | 76  | 629   | 0.045 ug/L # | 76     |
| 16) Methylene chloride         | 3.06 | 84  | 6423  | 1.126 ug/L   | 97     |
| 17) Methyl tert-butyl Ether    | 3.38 | 73  | 3063  | 0.308 ug/L # | 64     |
| 18) trans-1,2-Dichloroethene   | 3.37 | 96  | 878   | 0.203 ug/L   | 80     |
| 19) 1,1-Dichloroethane         | 3.89 | 63  | 509   | 0.059 ug/L # | 49     |
| 22) cis-1,2-Dichloroethene     | 4.68 | 96  | 21474 | 4.667 ug/L   | 97     |
| 25) Chloroform                 | 5.10 | 83  | 1545  | 0.163 ug/L   | 99     |
| 27) 1,2-Dichloroethane         | 5.74 | 62  | 501   | 0.081 ug/L # | 78     |
| 33) Benzene                    | 5.79 | 78  | 952   | 0.051 ug/L   | 100    |
| 35) Methylcyclohexane          | 6.70 | 83  | 6617  | 0.901 ug/L # | 15     |
| 37) 1,2-Dichloropropane        | 6.70 | 63  | 3448  | 0.680 ug/L # | 90     |
| 39) cis-1,3-Dichloropropene    | 7.57 | 75  | 725   | 0.104 ug/L # | 42     |
| 44) trans-1,3-Dichloropropene  | 8.19 | 75  | 508   | 0.080 ug/L # | 74     |
| 48) 2-Hexanone                 | 8.69 | 43  | 1346  | 0.589 ug/L # | 89     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU112320\  
Quantitation Report (Not Reviewed)

Data File : VU041400.D  
Acq On : 23 Nov 2020 20:15  
Operator : SY/MD  
Sample : L4849-09DL 10X  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4422DL

Quant Time: Nov 24 01:56:16 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR112320WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Nov 24 01:52:19 2020  
Response via : Initial Calibration

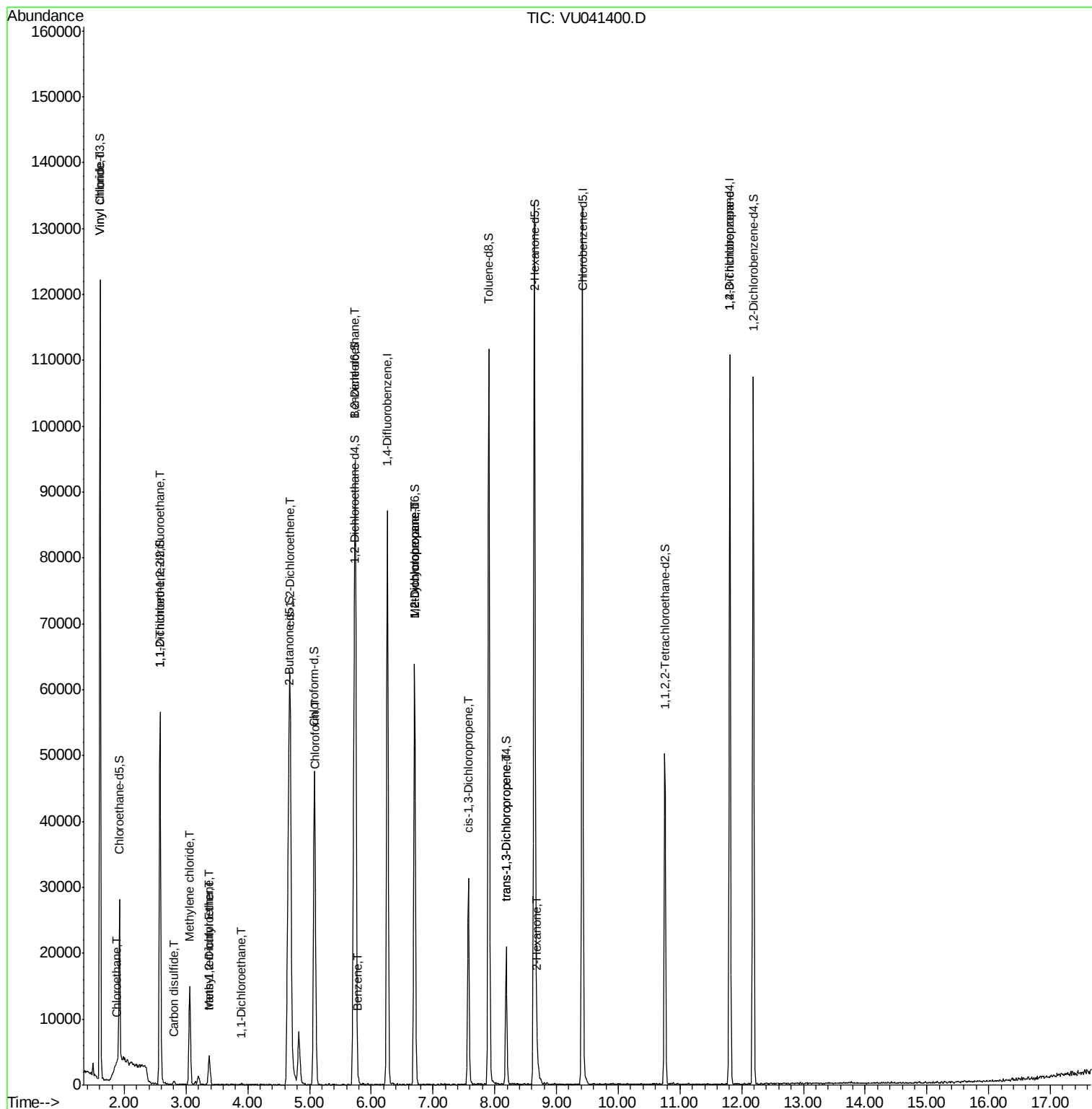
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 59) 1,2,3-Trichloropropane | 11.81 | 75   | 3338     | 1.007 | ug/L # | 88       |

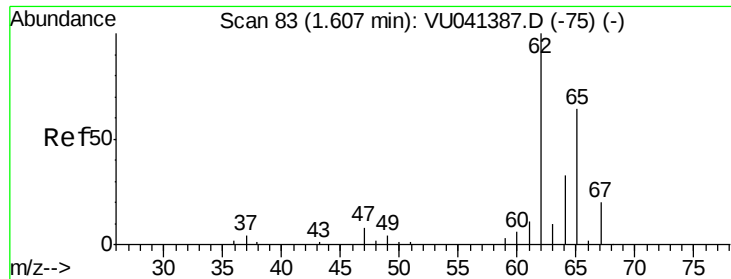
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU041400.D  
Acq On : 23 Nov 2020 20:15  
Operator : SY/MD  
Sample : L4849-09DL 10X  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4422DL

Quant Time: Nov 24 01:56:16 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR112320WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Nov 24 01:52:19 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 10.387 ug/L

RT: 1.61 min Scan# 83

Delta R.T. 0.00 min

Lab File: VU041400.D

Acq: 23 Nov 2020 20:15

Instrument :

MSVOA\_U

ClientSampleId :

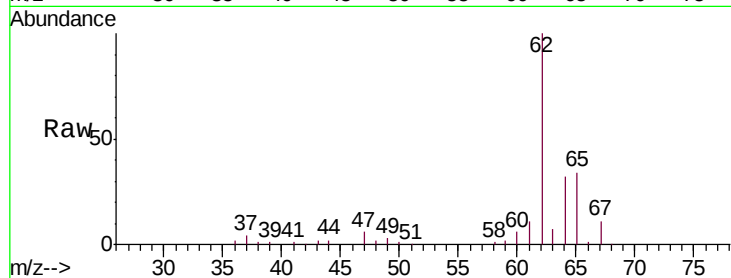
H4422DL

Tgt Ion: 62 Resp: 58819

Ion Ratio Lower Upper

62 100

64 32.4 23.8 44.2

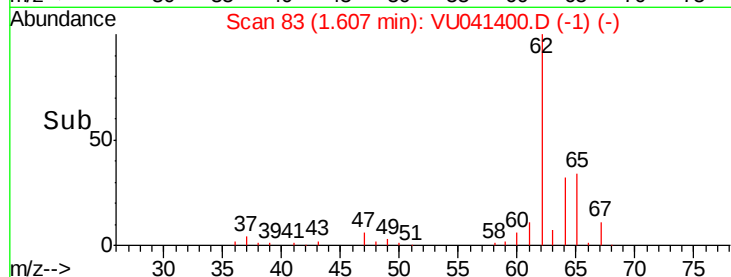


Abundance Ion 62.00 (61.70 to 62.70): VU041387.D (-75) (-)

Ion 64.10 (63.80 to 64.80): VU041387.D (-75) (-)

1.61

Time-->

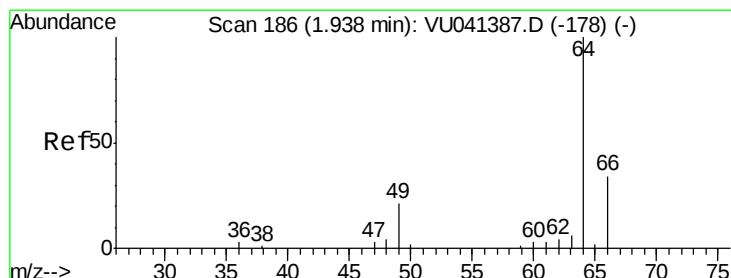


Abundance Ion 62.00 (61.70 to 62.70): VU041400.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU041400.D (-1) (-)

1.61

Time-->



#8

Chloroethane

Concen: 2.190 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.07 min

Lab File: VU041400.D

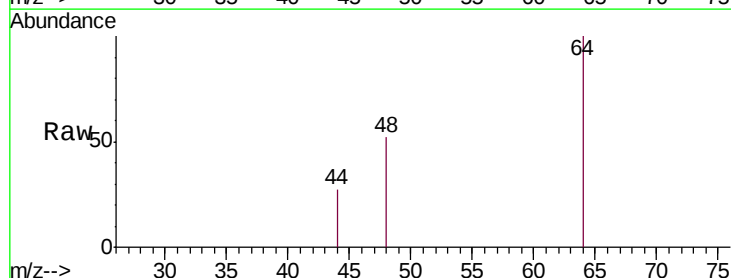
Acq: 23 Nov 2020 20:15

Tgt Ion: 64 Resp: 7032

Ion Ratio Lower Upper

64 100

66 0.0 24.6 45.8#

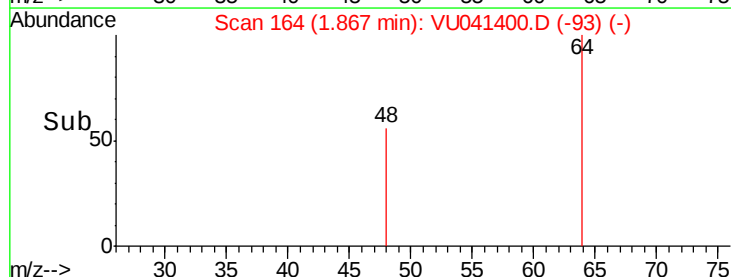


Abundance Ion 64.10 (63.80 to 64.80): VU041387.D (-178) (-)

Ion 66.05 (65.75 to 66.75): VU041387.D (-178) (-)

1.87

Time-->

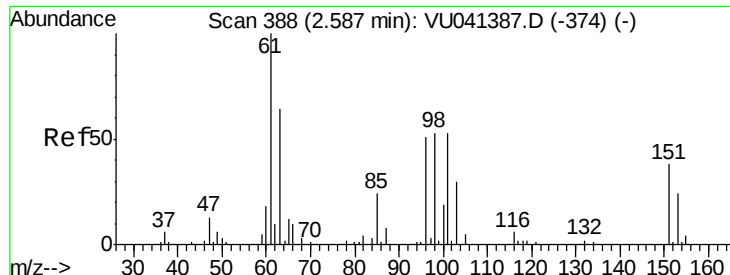


Abundance Ion 64.10 (63.80 to 64.80): VU041400.D (-93) (-)

Ion 66.05 (65.75 to 66.75): VU041400.D (-93) (-)

1.87

Time-->



#10

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

Concen: 0.045 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.01 min

Lab File: VU041400.D

Acq: 23 Nov 2020 20:15

Instrument :

MSVOA\_U

ClientSampled :

H4422DL

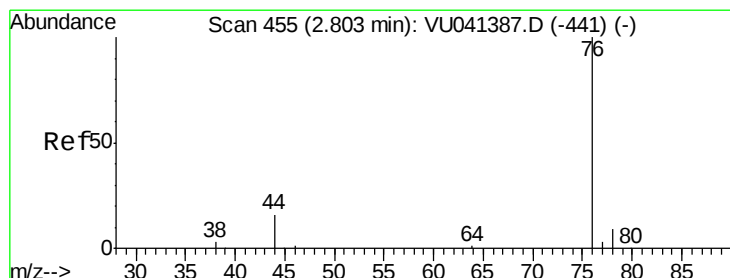
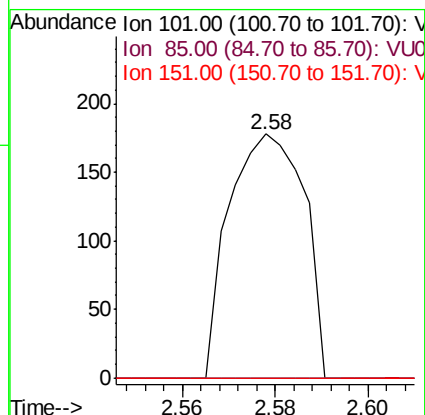
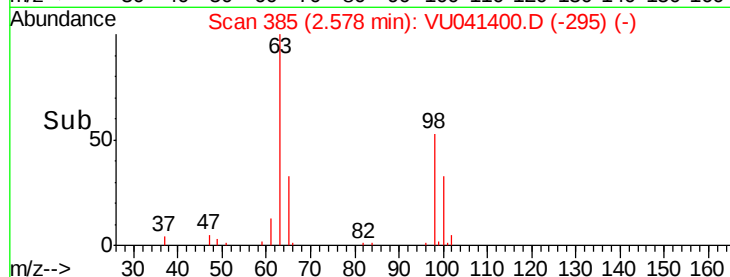
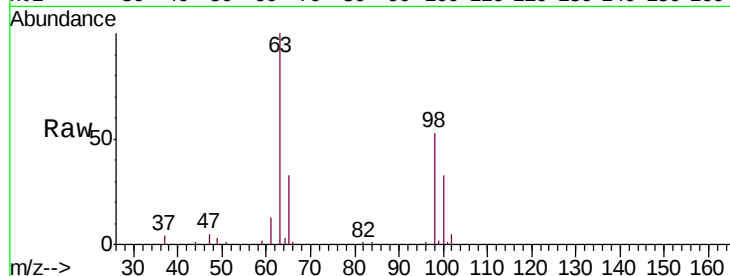
Tgt Ion:101 Resp: 201

Ion Ratio Lower Upper

101 100

85 0.0 35.1 52.7#

151 0.0 56.2 84.2#



#14

Carbon disulfide

Concen: 0.045 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU041400.D

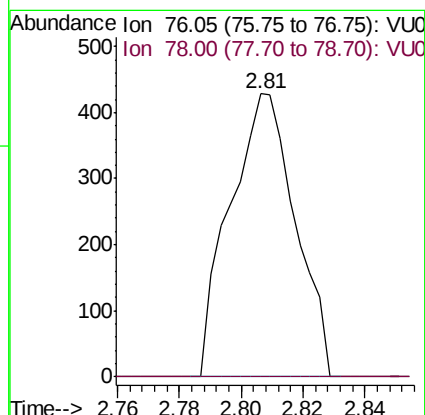
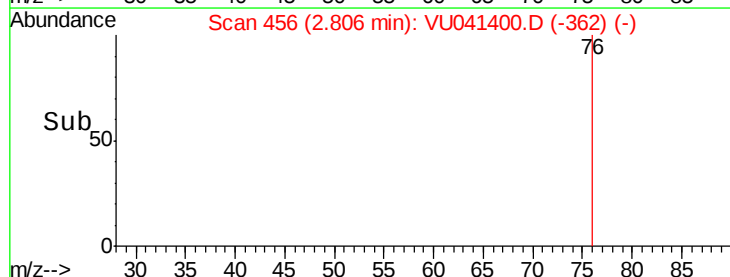
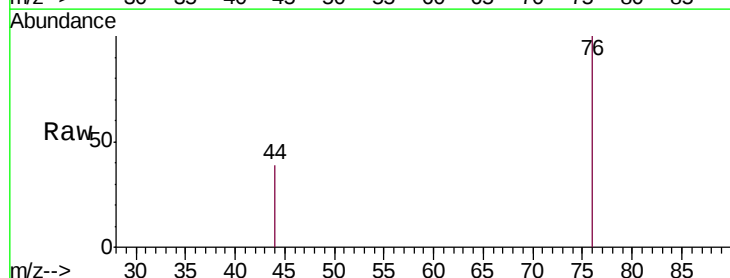
Acq: 23 Nov 2020 20:15

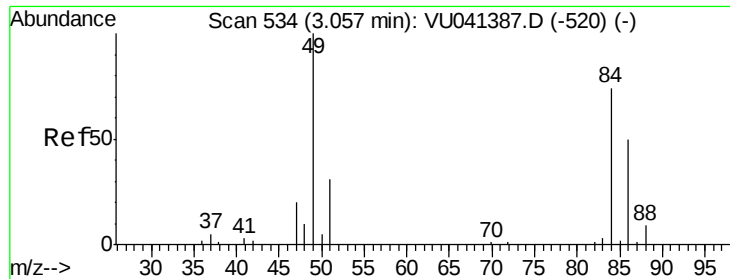
Tgt Ion: 76 Resp: 629

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#

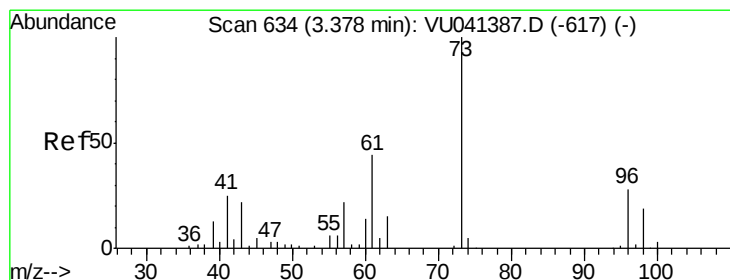
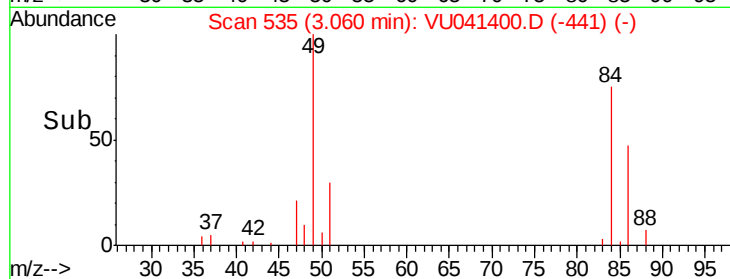
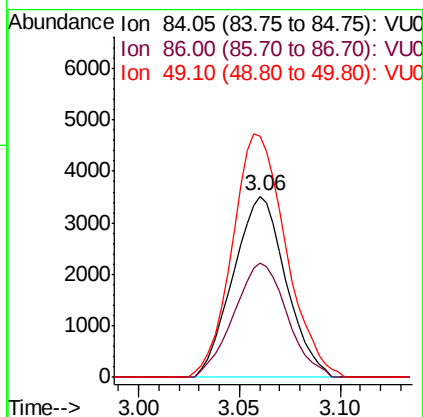
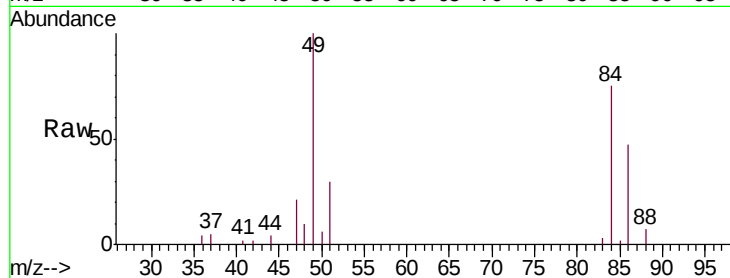




#16  
Methylene chloride  
Concen: 1.126 ug/L  
RT: 3.06 min Scan# 535  
Delta R.T. 0.00 min  
Lab File: VU041400.D  
Acq: 23 Nov 2020 20:15

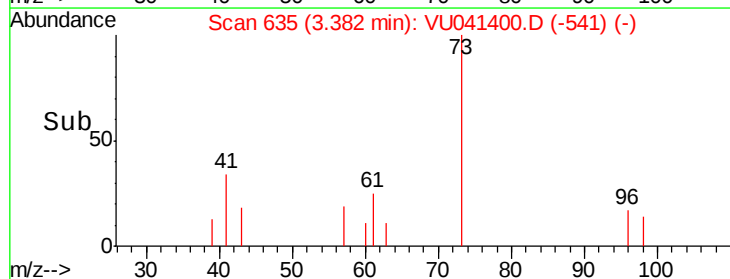
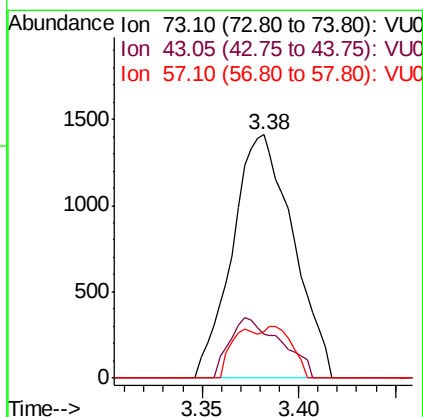
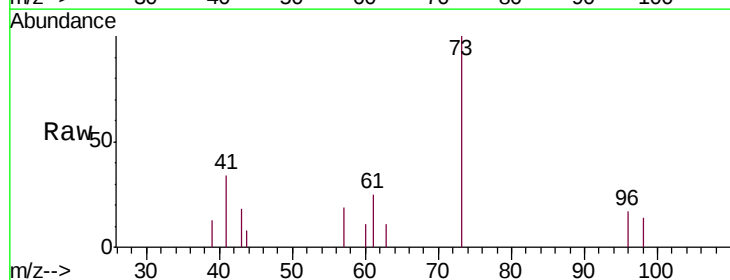
Instrument :  
MSVOA\_U  
ClientSampleId :  
H4422DL

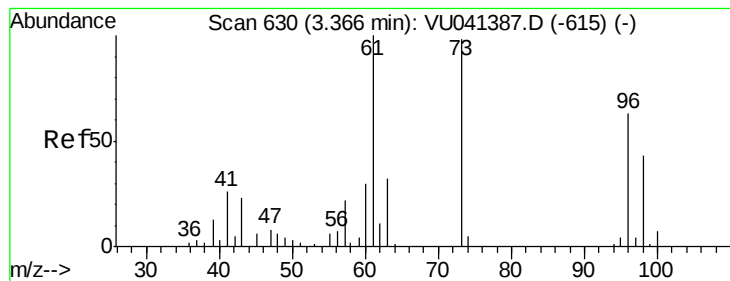
Tgt Ion: 84 Resp: 6423  
Ion Ratio Lower Upper  
84 100  
86 62.8 44.4 82.5  
49 133.0 89.9 167.0



#17  
Methyl tert-butyl Ether  
Concen: 0.308 ug/L  
RT: 3.38 min Scan# 635  
Delta R.T. 0.00 min  
Lab File: VU041400.D  
Acq: 23 Nov 2020 20:15

Tgt Ion: 73 Resp: 3063  
Ion Ratio Lower Upper  
73 100  
43 0.0 18.3 27.5#  
57 10.4 17.7 26.5#





#18

trans-1,2-Dichloroethene

Concen: 0.203 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU041400.D

Acq: 23 Nov 2020 20:15

Instrument :

MSVOA\_U

ClientSampleId :

H4422DL

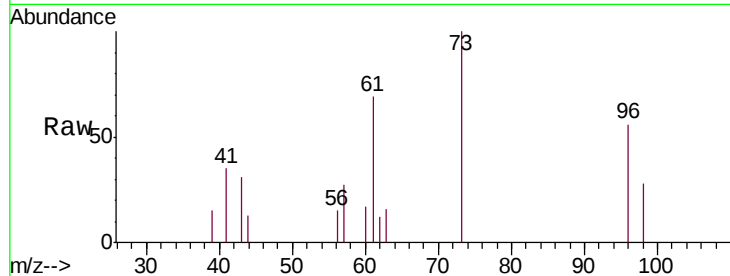
Tgt Ion: 96 Resp: 878

Ion Ratio Lower Upper

96 100

61 123.3 103.7 192.5

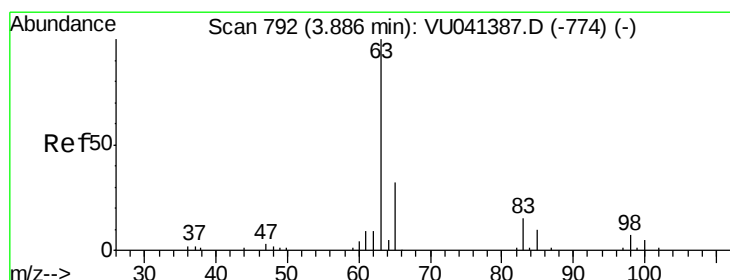
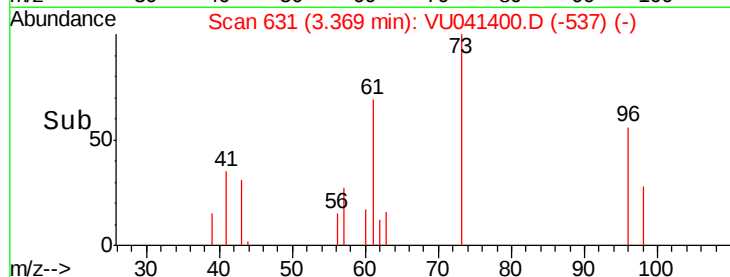
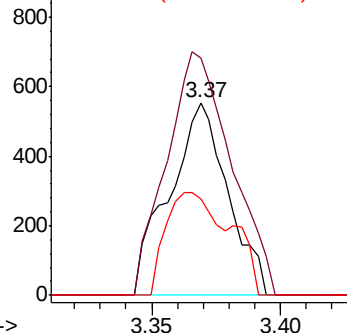
98 50.4 47.5 88.3



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0



#19

1,1-Dichloroethane

Concen: 0.059 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU041400.D

Acq: 23 Nov 2020 20:15

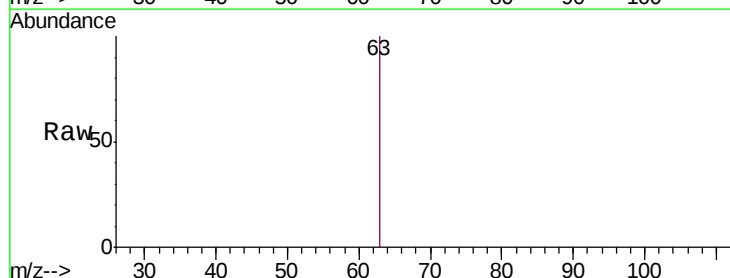
Tgt Ion: 63 Resp: 509

Ion Ratio Lower Upper

63 100

65 0.0 23.0 42.8#

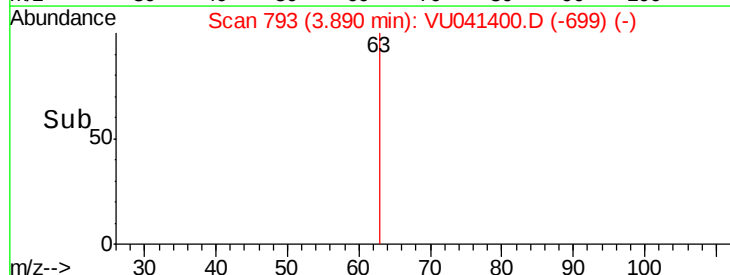
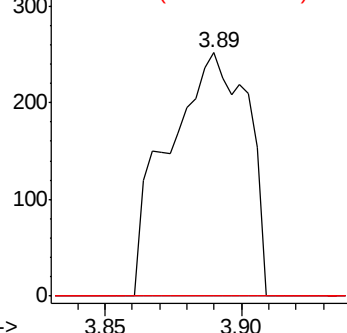
83 0.0 9.4 17.4#

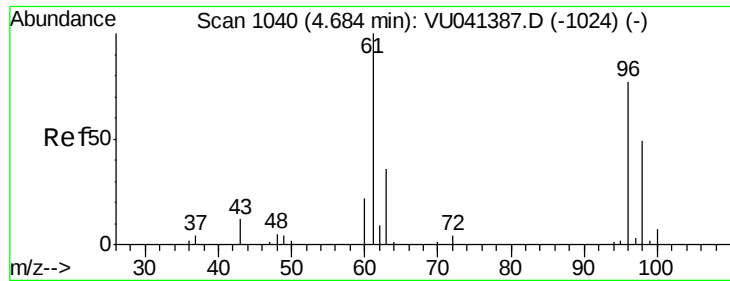


Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0





#22

cis-1,2-Dichloroethene

Concen: 4.667 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU041400.D

Acq: 23 Nov 2020 20:15

Instrument :

MSVOA\_U

ClientSampleId :

H4422DL

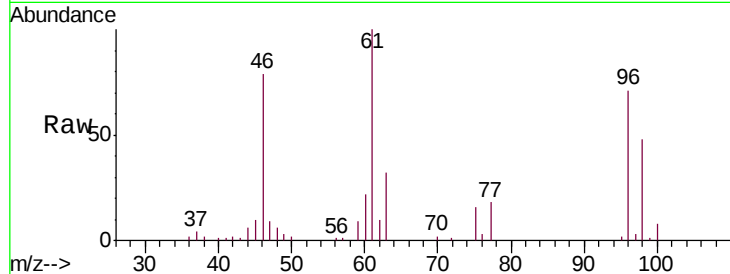
Tgt Ion: 96 Resp: 21474

Ion Ratio Lower Upper

96 100

61 140.2 95.3 176.9

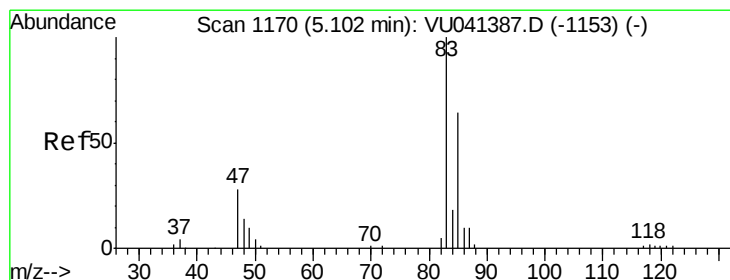
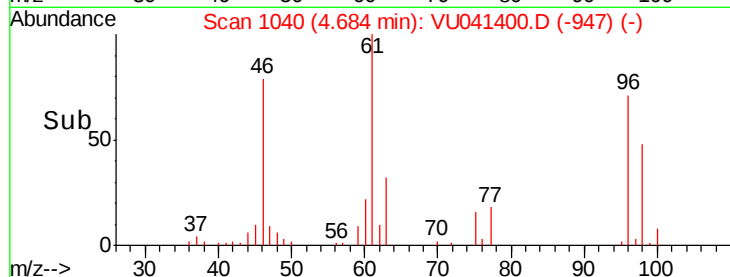
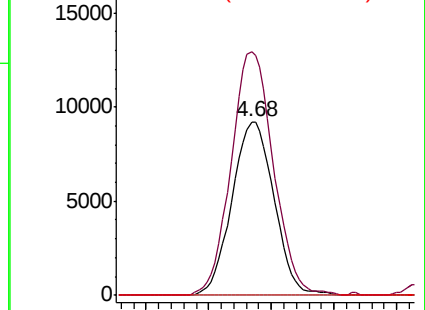
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU041400.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU041400.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU041400.D (-947) (-)



#25

Chloroform

Concen: 0.163 ug/L

RT: 5.10 min Scan# 1169

Delta R.T. -0.00 min

Lab File: VU041400.D

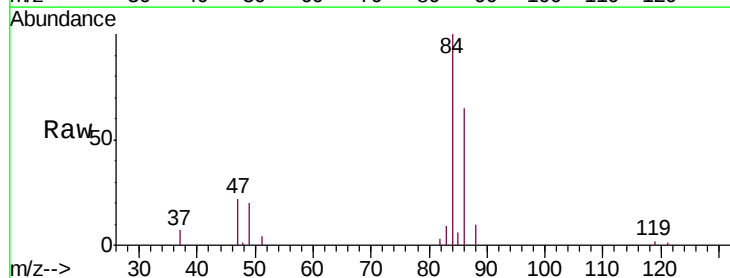
Acq: 23 Nov 2020 20:15

Tgt Ion: 83 Resp: 1545

Ion Ratio Lower Upper

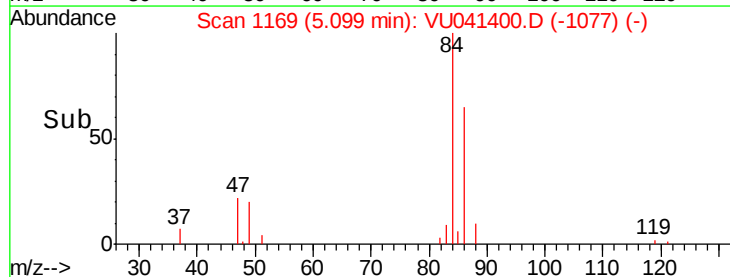
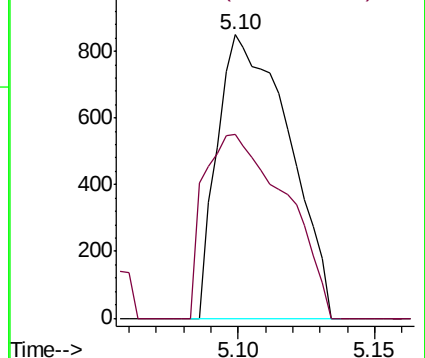
83 100

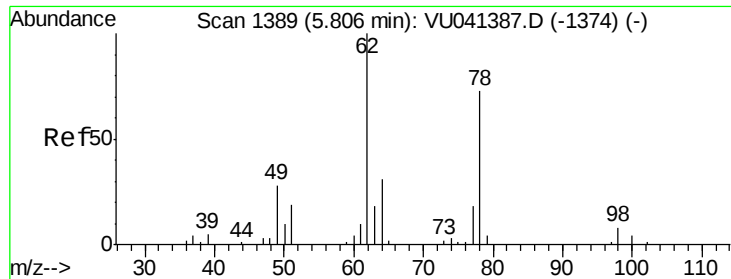
85 64.8 44.7 82.9



Abundance Ion 83.05 (82.75 to 83.75): VU041400.D (-1077) (-)

Ion 85.00 (84.70 to 85.70): VU041400.D (-1077) (-)

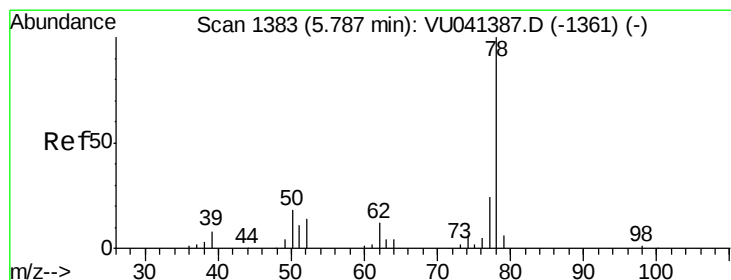
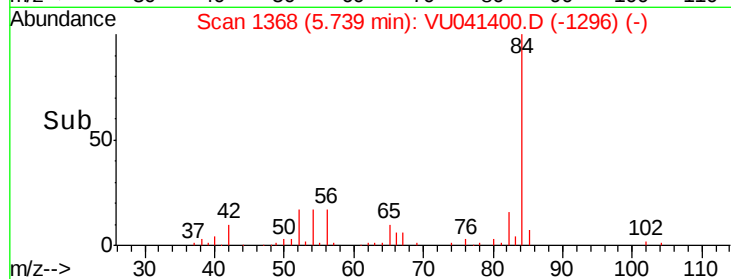
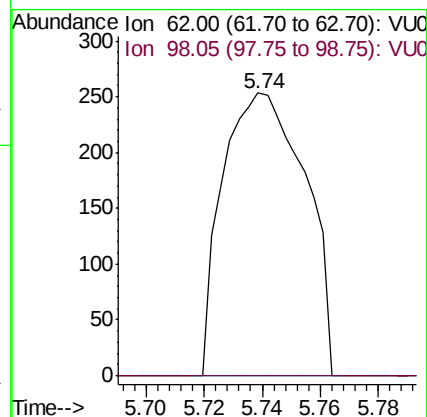
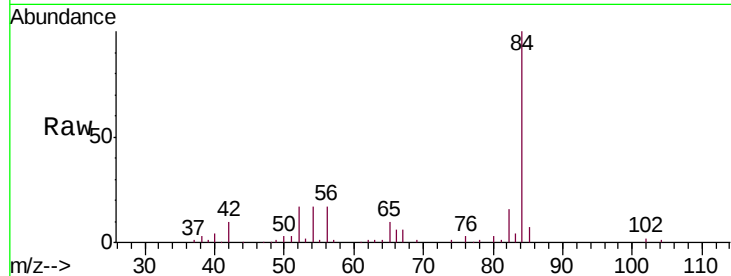




#27  
 1,2-Dichloroethane  
 Concen: 0.081 ug/L  
 RT: 5.74 min Scan# 1368  
 Delta R.T. -0.07 min  
 Lab File: VU041400.D  
 Acq: 23 Nov 2020 20:15

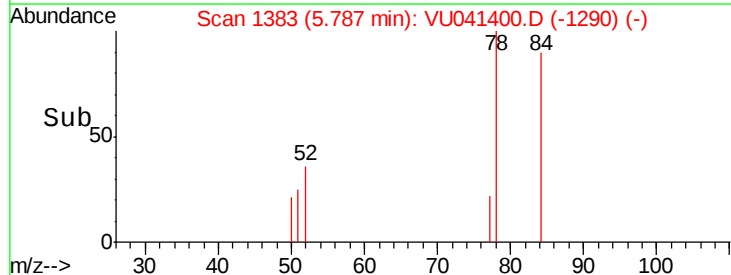
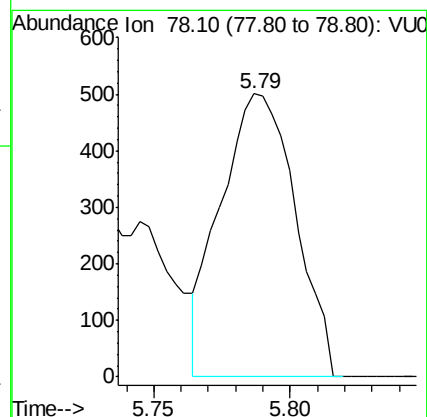
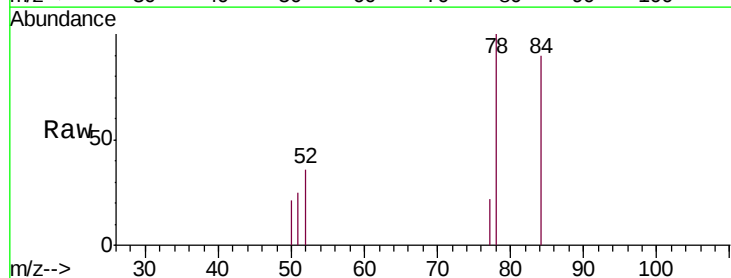
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H4422DL

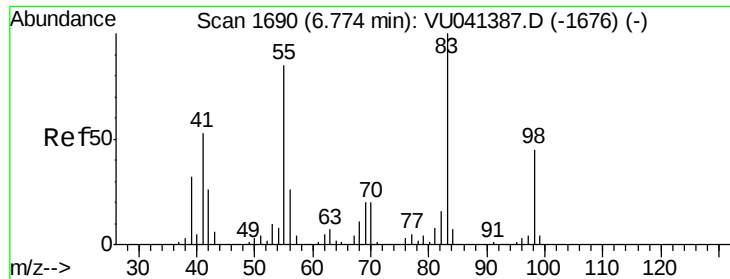
Tgt Ion: 62 Resp: 501  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 6.0 9.0#



#33  
 Benzene  
 Concen: 0.051 ug/L  
 RT: 5.79 min Scan# 1383  
 Delta R.T. 0.00 min  
 Lab File: VU041400.D  
 Acq: 23 Nov 2020 20:15

Tgt Ion: 78 Resp: 952





#35

Methylcyclohexane

Concen: 0.901 ug/L

RT: 6.70 min Scan# 1667

Delta R.T. -0.07 min

Lab File: VU041400.D

Acq: 23 Nov 2020 20:15

Instrument :

MSVOA\_U

ClientSampleId :

H4422DL

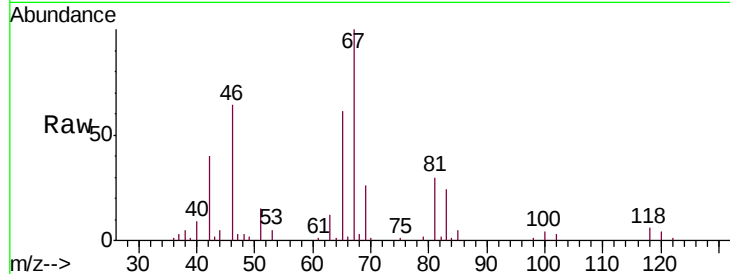
Tgt Ion: 83 Resp: 6617

Ion Ratio Lower Upper

83 100

55 0.0 68.4 102.6#

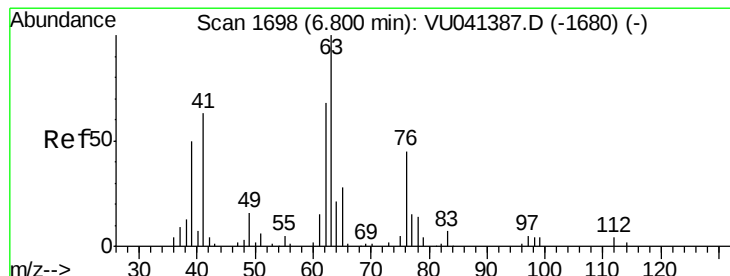
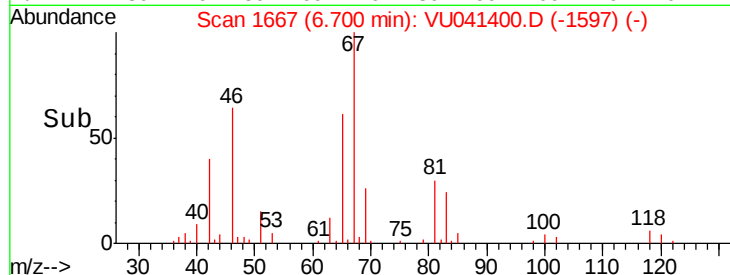
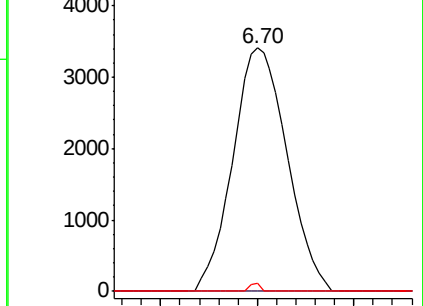
98 0.6 36.5 54.7#



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: 0.680 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.10 min

Lab File: VU041400.D

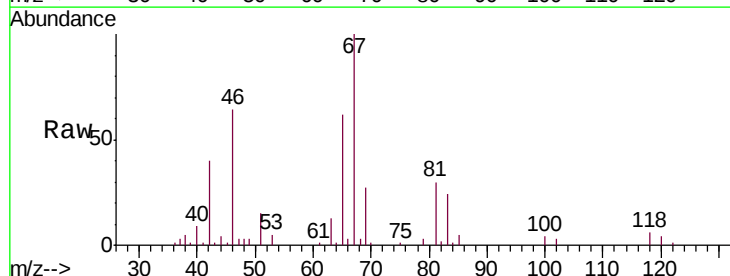
Acq: 23 Nov 2020 20:15

Tgt Ion: 63 Resp: 3448

Ion Ratio Lower Upper

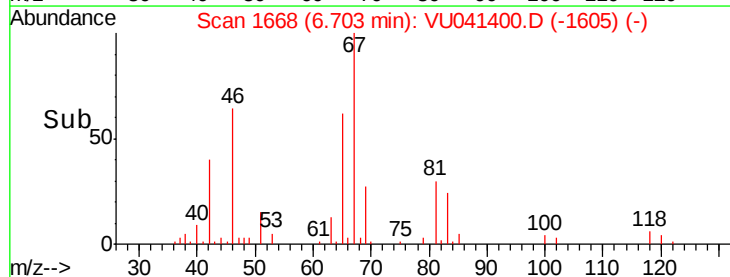
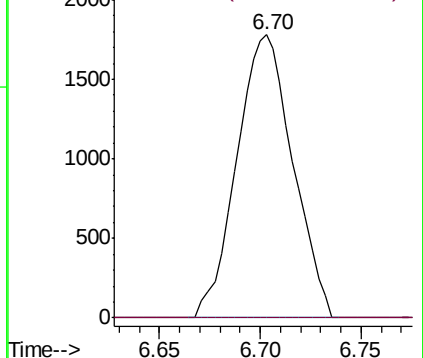
63 100

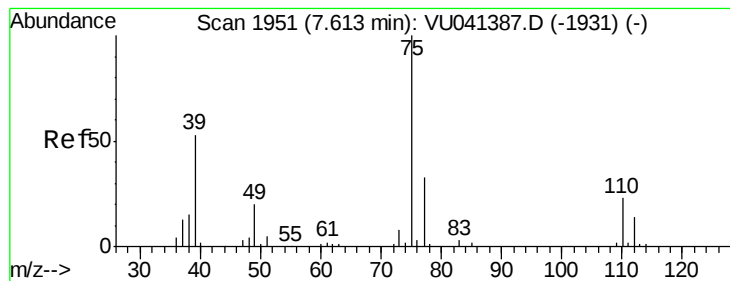
112 0.0 2.6 4.0#



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: 0.104 ug/L

RT: 7.57 min Scan# 1938

Delta R.T. -0.04 min

Lab File: VU041400.D

Acq: 23 Nov 2020 20:15

Instrument :

MSVOA\_U

ClientSampleId :

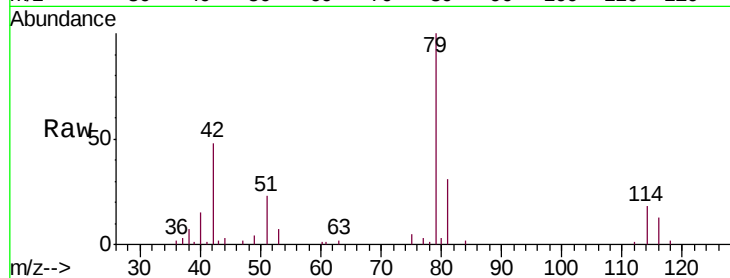
H4422DL

Tgt Ion: 75 Resp: 725

Ion Ratio Lower Upper

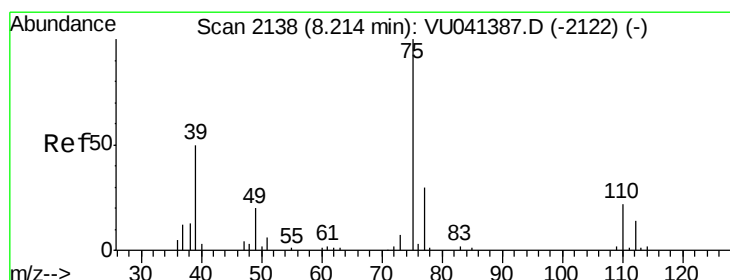
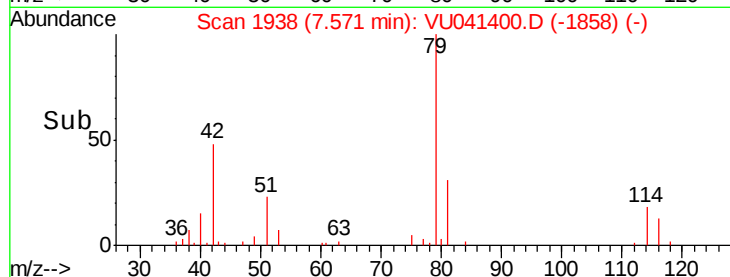
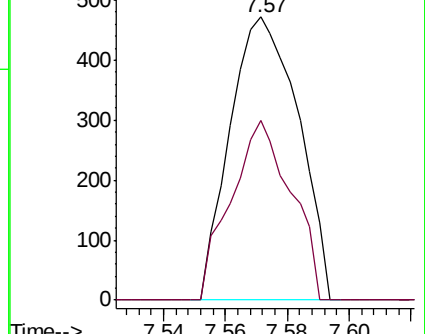
75 100

77 63.6 22.1 41.1#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.080 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU041400.D

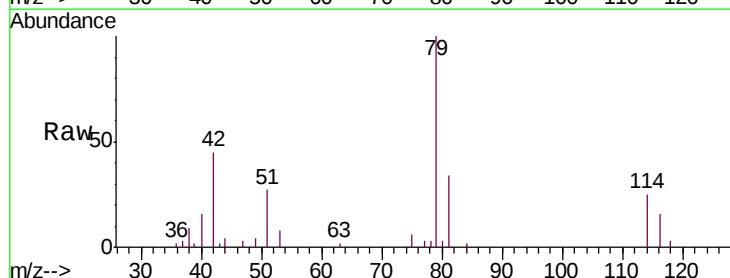
Acq: 23 Nov 2020 20:15

Tgt Ion: 75 Resp: 508

Ion Ratio Lower Upper

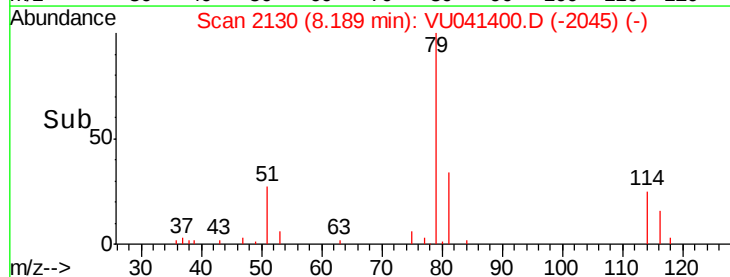
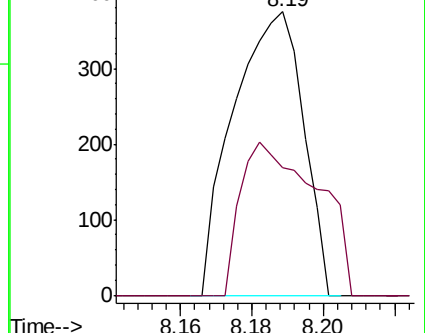
75 100

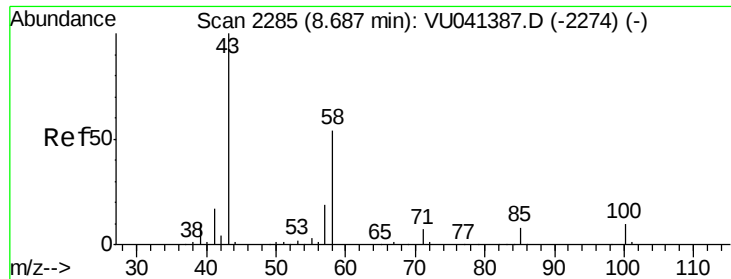
77 45.1 21.7 40.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

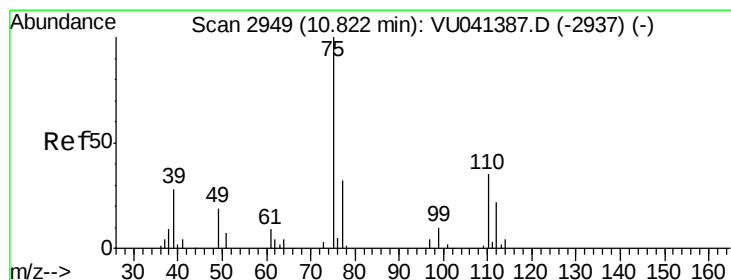
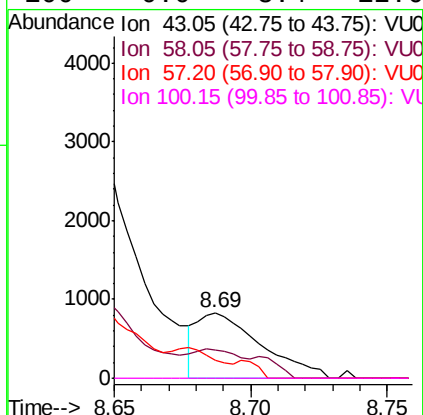
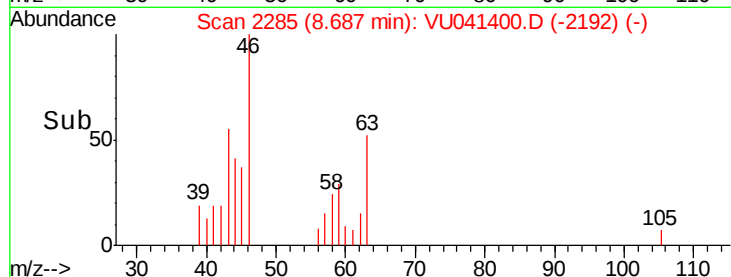
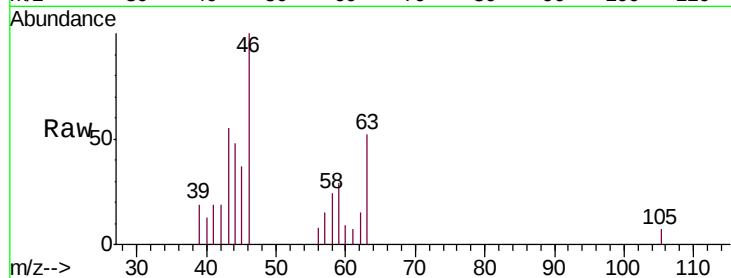




#48  
2-Hexanone  
Concen: 0.589 ug/L  
RT: 8.69 min Scan# 2285  
Delta R.T. 0.00 min  
Lab File: VU041400.D  
Acq: 23 Nov 2020 20:15

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4422DL

Tgt Ion: 43 Resp: 1346  
Ion Ratio Lower Upper  
43 100  
58 48.1 42.0 63.0  
57 12.9 15.0 22.4#  
100 0.0 8.4 12.6#



#59  
1,2,3-Trichloropropane  
Concen: 1.007 ug/L  
RT: 11.81 min Scan# 3255  
Delta R.T. 0.98 min  
Lab File: VU041400.D  
Acq: 23 Nov 2020 20:15

Tgt Ion: 75 Resp: 3338  
Ion Ratio Lower Upper  
75 100  
77 38.2 25.1 37.7#

