

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121220\  
 Data File : VU041585.D  
 Acq On : 12 Dec 2020 22:53  
 Operator : SY/MD  
 Sample : L5060-02  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0B00

Quant Time: Dec 13 11:28:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sun Dec 13 11:26:38 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 141598   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 128003   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 63301    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 34253    | 3.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 61.80%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 33836    | 3.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 79.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 57546    | 2.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 56.40%# |
| 20) 2-Butanone-d5              | 4.66   | 46    | 167873   | 52.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 105.58% |
| 24) Chloroform-d               | 5.08   | 84    | 84457    | 4.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 47494    | 4.41     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.20%  |
| 32) Benzene-d6                 | 5.74   | 84    | 169184   | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 53917    | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.80%  |
| 41) Toluene-d8                 | 7.91   | 98    | 143890   | 4.35     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 87.00%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 21502    | 4.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 83.20%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 129416   | 45.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 91.62%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 52721    | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.00% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 57589    | 5.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 102.40% |

## Target Compounds

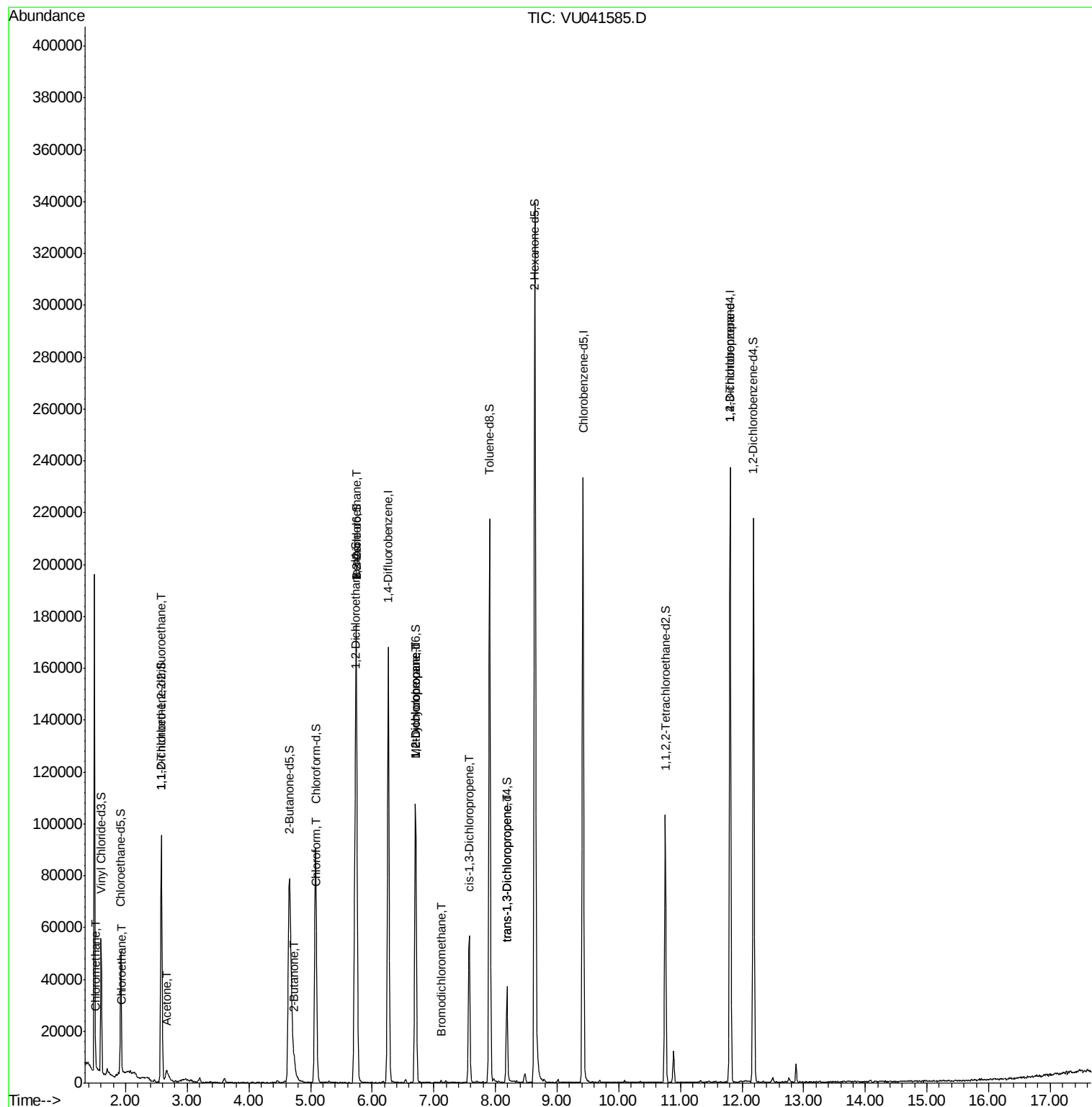
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 3) Chloromethane               | 1.52  | 50   | 660      | 0.057 | ug/L   | 87     |
| 8) Chloroethane                | 1.95  | 64   | 608      | 0.070 | ug/L # | 44     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.58  | 101  | 512      | 0.053 | ug/L # | 22     |
| 13) Acetone                    | 2.67  | 43   | 11942    | 5.904 | ug/L   | 86     |
| 21) 2-Butanone                 | 4.75  | 43   | 4666     | 1.416 | ug/L   | 85     |
| 25) Chloroform                 | 5.11  | 83   | 3609     | 0.193 | ug/L   | 93     |
| 27) 1,2-Dichloroethane         | 5.74  | 62   | 856      | 0.068 | ug/L # | 73     |
| 35) Methylcyclohexane          | 6.70  | 83   | 12789    | 0.769 | ug/L # | 19     |
| 37) 1,2-Dichloropropane        | 6.70  | 63   | 5657     | 0.540 | ug/L # | 88     |
| 38) Bromodichloromethane       | 7.12  | 83   | 572      | 0.044 | ug/L # | 87     |
| 39) cis-1,3-Dichloropropene    | 7.57  | 75   | 1377     | 0.089 | ug/L # | 49     |
| 44) trans-1,3-Dichloropropene  | 8.19  | 75   | 937      | 0.068 | ug/L # | 68     |
| 59) 1,2,3-Trichloropropane     | 11.81 | 75   | 7128     | 0.906 | ug/L   | 99     |

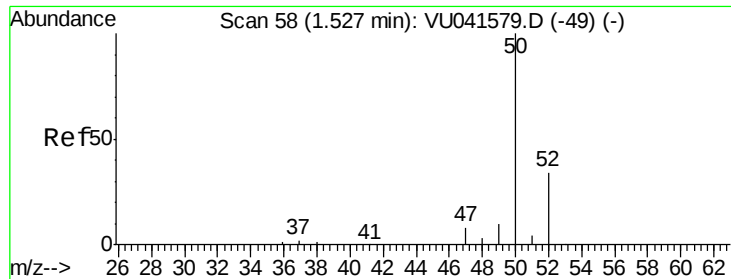
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU121220\  
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Sample : L5060-02  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Quant Time: Dec 13 11:28:52 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sun Dec 13 11:26:38 2020  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.057 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041585.D

Acq: 12 Dec 2020 22:53

Instrument :

MSVOA\_U

ClientSampleId :

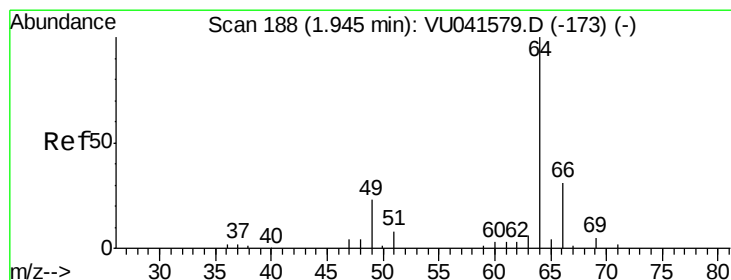
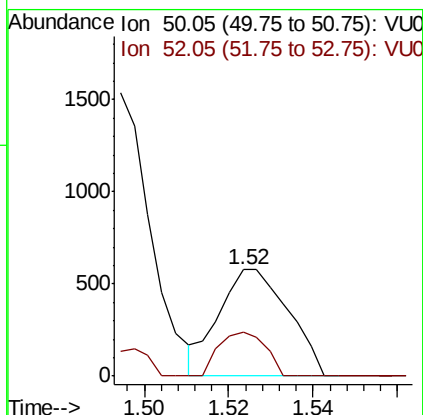
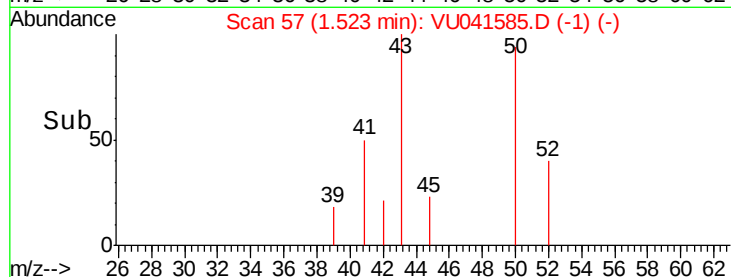
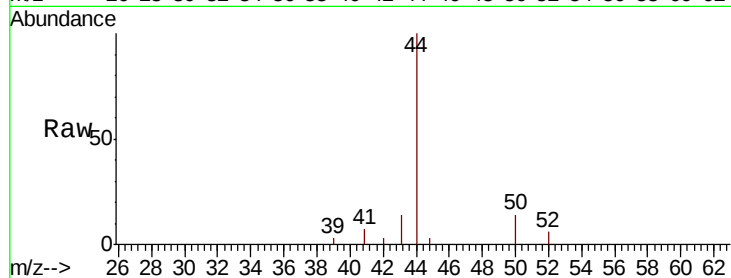
C0B00

Tot Ion: 50 Resp: 660

Ion Ratio Lower Upper

50 100

52 41.9 24.1 44.8



#8

Chloroethane

Concen: 0.070 ug/L

RT: 1.95 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU041585.D

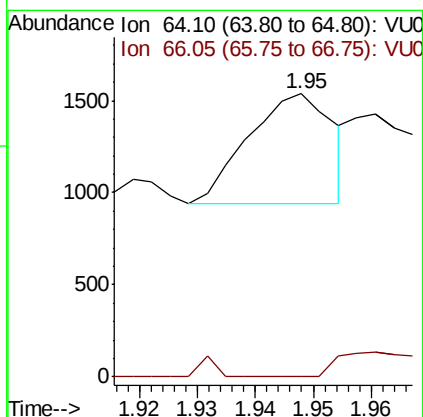
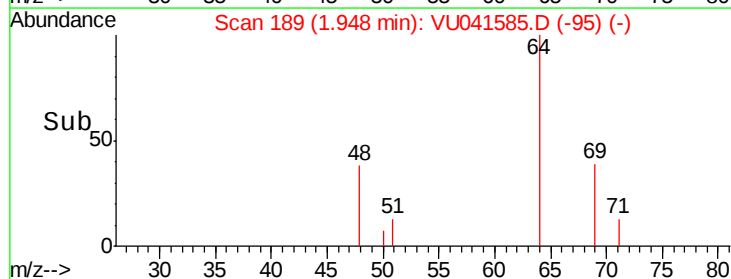
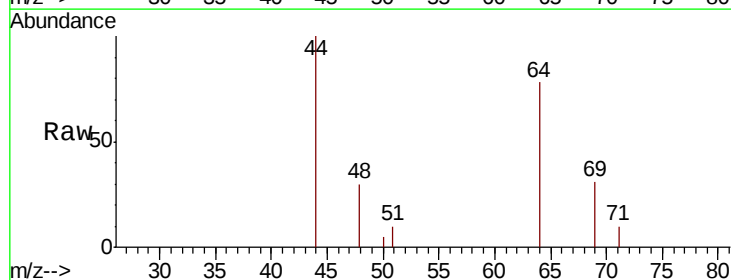
Acq: 12 Dec 2020 22:53

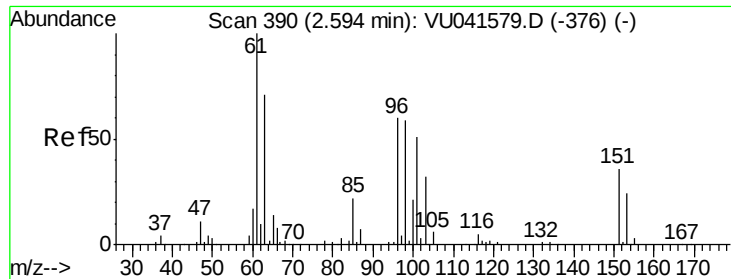
Tgt Ion: 64 Resp: 608

Ion Ratio Lower Upper

64 100

66 0.0 21.6 40.0#





#10

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

Concen: 0.053 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU041585.D

Acq: 12 Dec 2020 22:53

Instrument :

MSVOA\_U

ClientSampleId :

C0B00

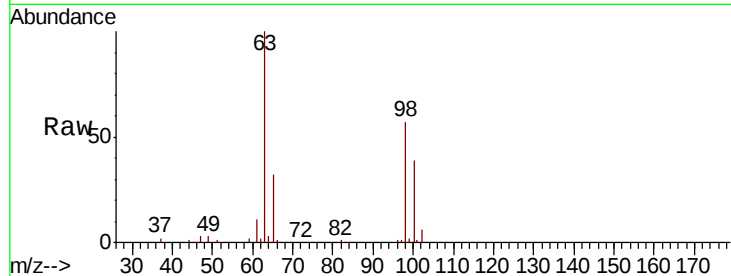
Tot Ion:101 Resp: 512

Ion Ratio Lower Upper

101 100

85 0.0 33.6 50.4#

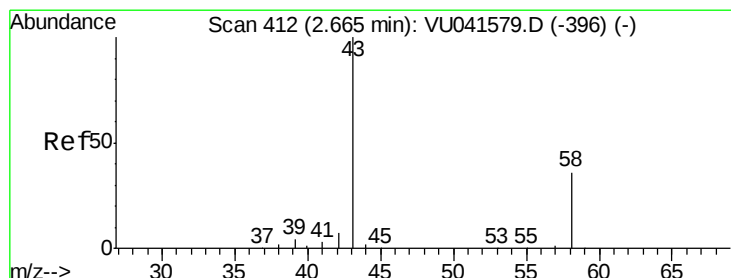
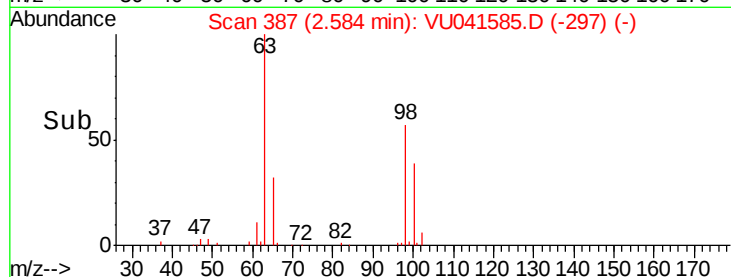
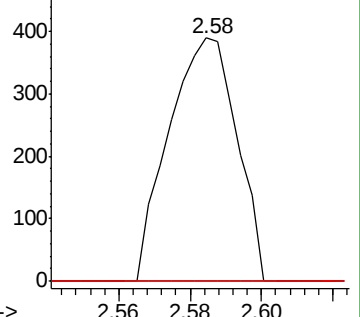
151 0.0 56.2 84.4#



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



#13

Acetone

Concen: 5.904 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.01 min

Lab File: VU041585.D

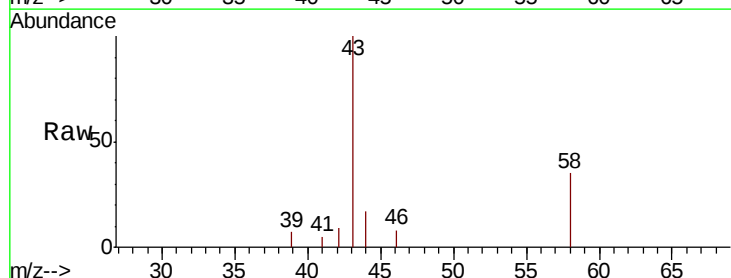
Acq: 12 Dec 2020 22:53

Tgt Ion: 43 Resp: 11942

Ion Ratio Lower Upper

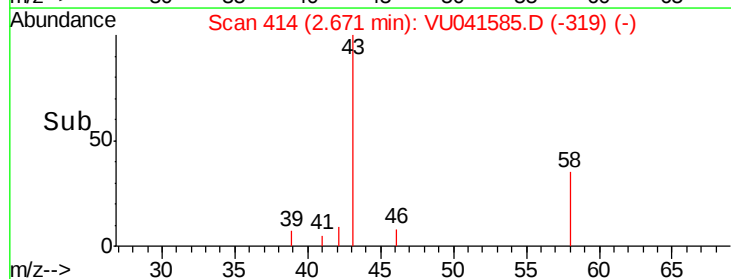
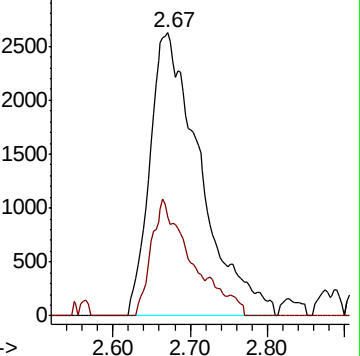
43 100

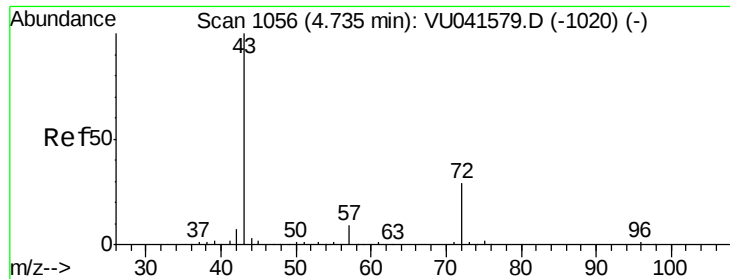
58 28.1 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

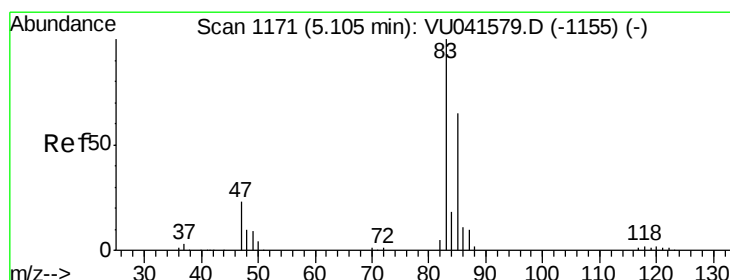
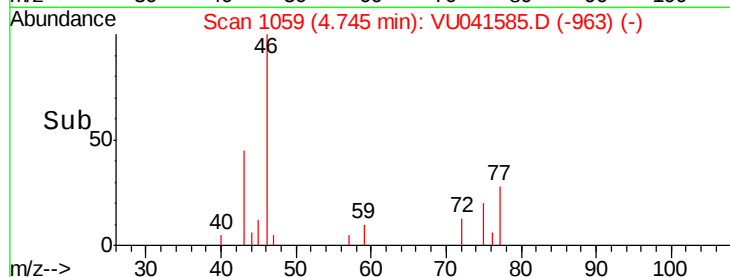
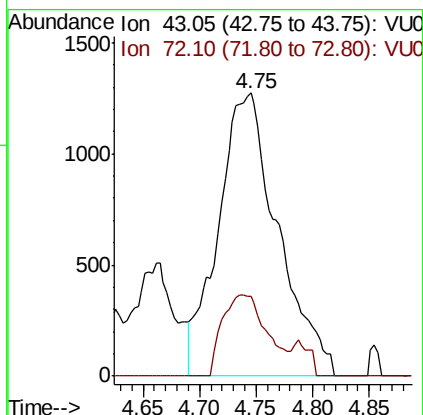
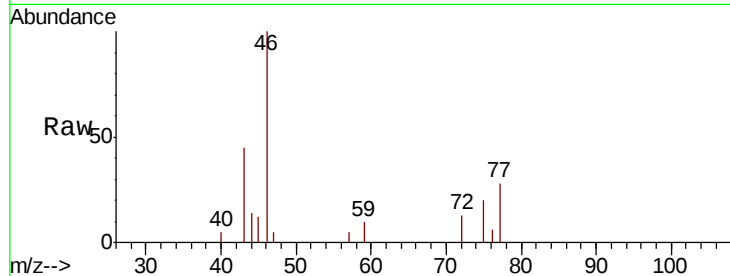




#21  
2-Butanone  
Concen: 1.416 ug/L  
RT: 4.75 min Scan# 1059  
Delta R.T. 0.01 min  
Lab File: VU041585.D  
Acq: 12 Dec 2020 22:53

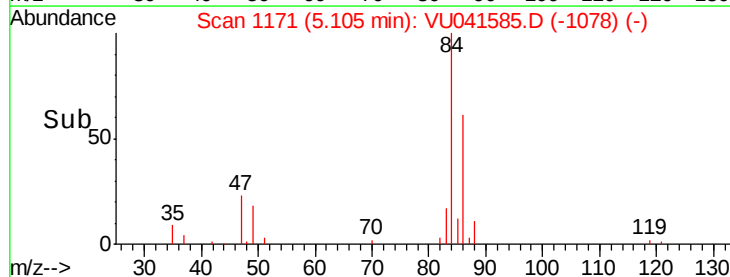
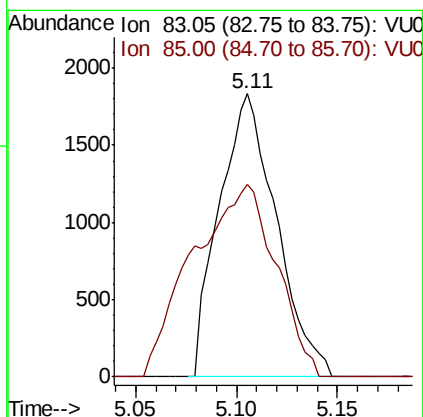
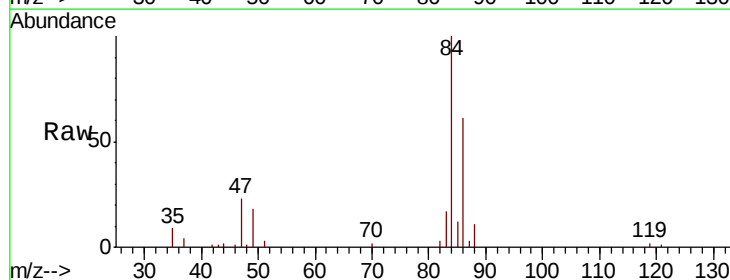
Instrument :  
MSVOA\_U  
ClientSampled :  
C0B00

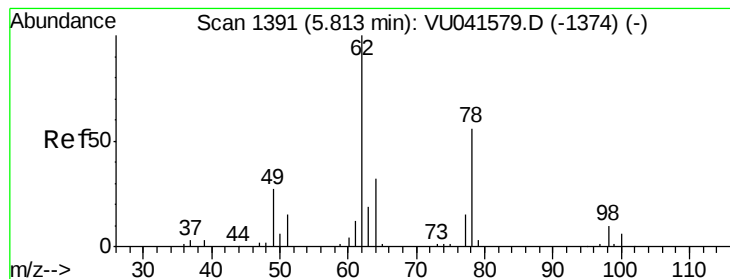
Tot Ion: 43 Resp: 4666  
Ion Ratio Lower Upper  
43 100  
72 21.4 14.6 44.0



#25  
Chloroform  
Concen: 0.193 ug/L  
RT: 5.11 min Scan# 1171  
Delta R.T. 0.00 min  
Lab File: VU041585.D  
Acq: 12 Dec 2020 22:53

Tgt Ion: 83 Resp: 3609  
Ion Ratio Lower Upper  
83 100  
85 68.2 44.2 82.0





#27

1,2-Dichloroethane

Concen: 0.068 ug/L

RT: 5.74 min Scan# 1369

Delta R.T. -0.07 min

Lab File: VU041585.D

Acq: 12 Dec 2020 22:53

Instrument :

MSVOA\_U

ClientSampleId :

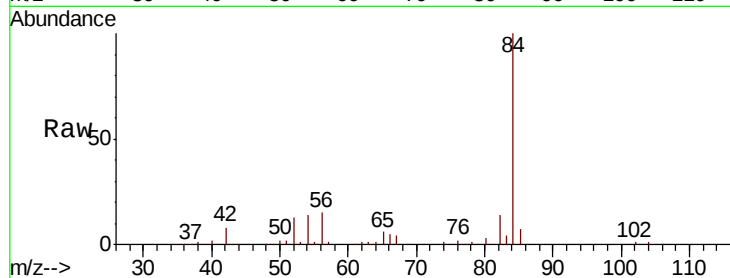
C0B00

Tot Ion: 62 Resp: 856

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.2#



Abundance Ion 62.00 (61.70 to 62.70): VU041579.D (-1374) (-)

Ion 98.05 (97.75 to 98.75): VU041579.D (-1374) (-)

5.74

5.75

5.76

5.77

5.78

5.79

5.80

5.81

5.82

5.83

5.84

5.85

5.90

5.95

6.00

6.05

6.10

6.15

6.20

6.25

6.30

6.35

6.40

6.45

6.50

6.55

6.60

6.65

6.70

6.75

6.80

6.85

6.90

6.95

7.00

7.05

7.10

7.15

7.20

7.25

7.30

7.35

7.40

7.45

7.50

7.55

7.60

7.65

7.70

7.75

7.80

7.85

7.90

7.95

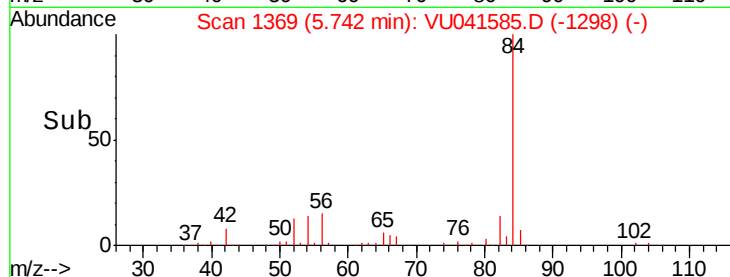
8.00

8.05

8.10

8.15

8.20



#35

Methylcyclohexane

Concen: 0.769 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU041585.D

Acq: 12 Dec 2020 22:53

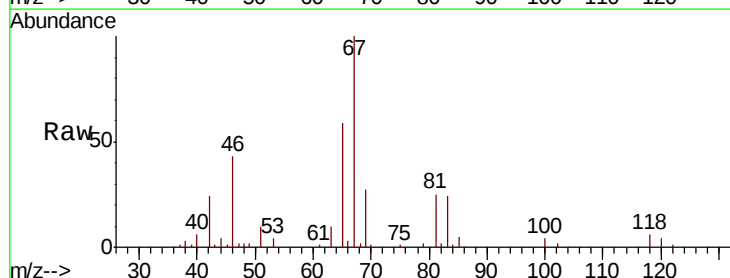
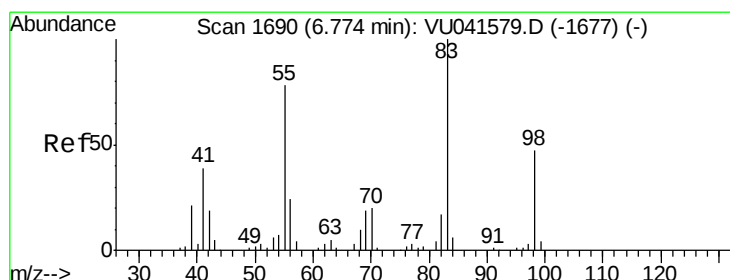
Tgt Ion: 83 Resp: 12789

Ion Ratio Lower Upper

83 100

55 0.0 61.2 91.8#

98 1.8 36.6 54.8#



Abundance Ion 83.15 (82.85 to 83.85): VU041579.D (-1677) (-)

Ion 55.10 (54.80 to 55.80): VU041579.D (-1677) (-)

Ion 98.15 (97.85 to 98.85): VU041579.D (-1677) (-)

6.70

6.75

6.80

6.85

6.90

6.95

7.00

7.05

7.10

7.15

7.20

7.25

7.30

7.35

7.40

7.45

7.50

7.55

7.60

7.65

7.70

7.75

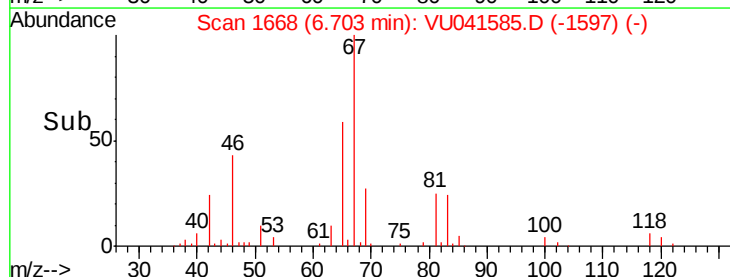
7.80

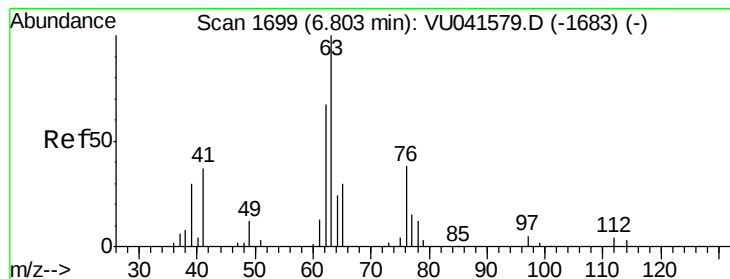
7.85

7.90

7.95

8.00





#37

1,2-Dichloropropane

Concen: 0.540 ug/L

RT: 6.70 min Scan# 1667

Delta R.T. -0.10 min

Lab File: VU041585.D

Acq: 12 Dec 2020 22:53

Instrument :

MSVOA\_U

ClientSampleId :

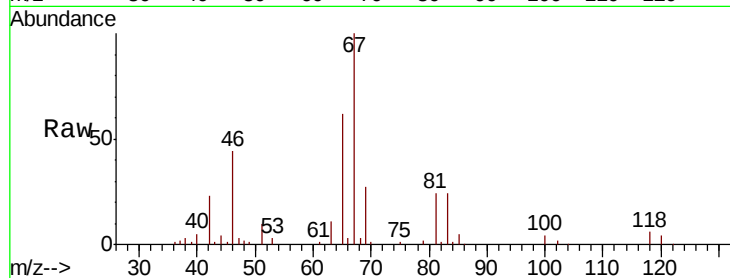
C0B00

Tot Ion: 63 Resp: 5657

Ion Ratio Lower Upper

63 100

112 0.0 3.1 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VU041579.D (-1683) (-)

Ion 112.10 (111.80 to 112.80): VU041579.D (-1683) (-)

6.70

3000

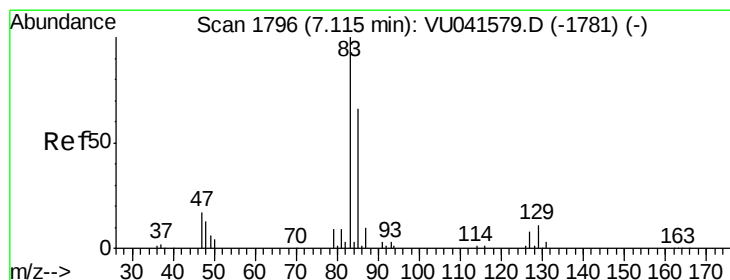
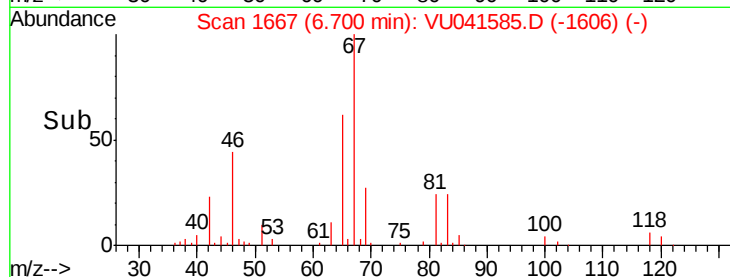
2000

1000

0

6.65 6.70 6.75

Time-->



#38

Bromodichloromethane

Concen: 0.044 ug/L

RT: 7.12 min Scan# 1799

Delta R.T. 0.01 min

Lab File: VU041585.D

Acq: 12 Dec 2020 22:53

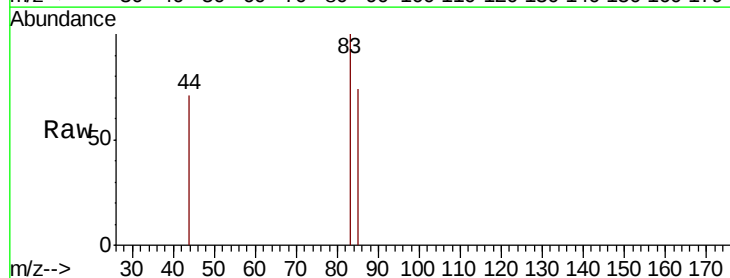
Tgt Ion: 83 Resp: 572

Ion Ratio Lower Upper

83 100

85 74.2 45.5 84.5

127 0.0 7.0 10.6#



Abundance Ion 82.95 (82.65 to 83.65): VU041579.D (-1781) (-)

Ion 85.00 (84.70 to 85.70): VU041579.D (-1781) (-)

Ion 126.90 (126.60 to 127.60): VU041579.D (-1781) (-)

7.12

500

400

300

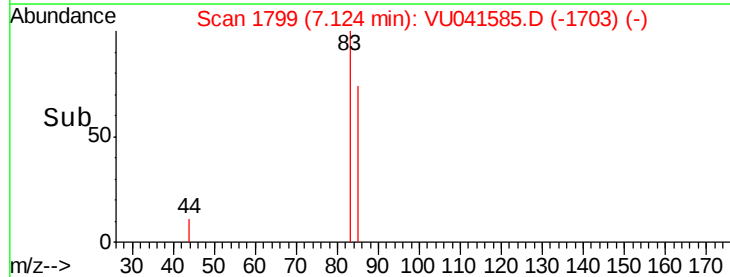
200

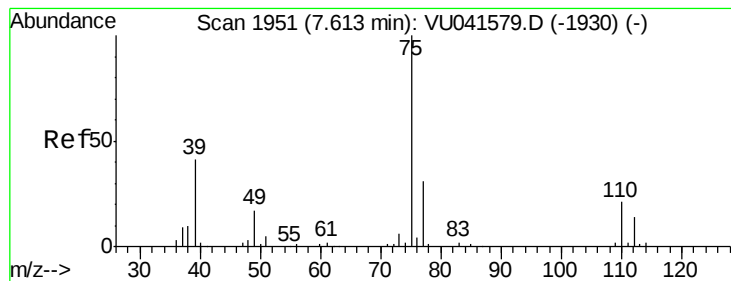
100

0

7.08 7.10 7.12 7.14

Time-->



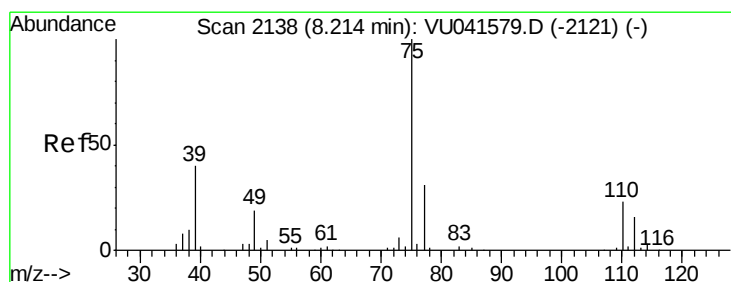
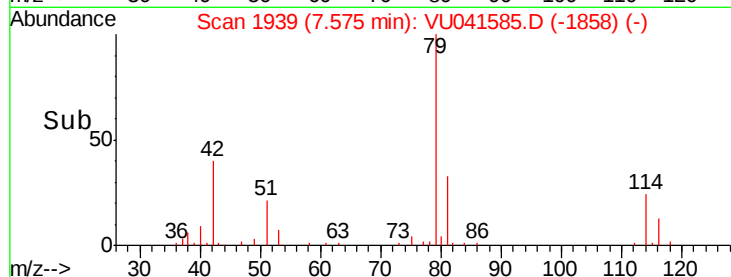
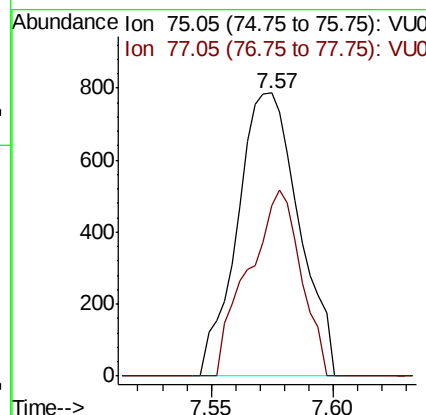
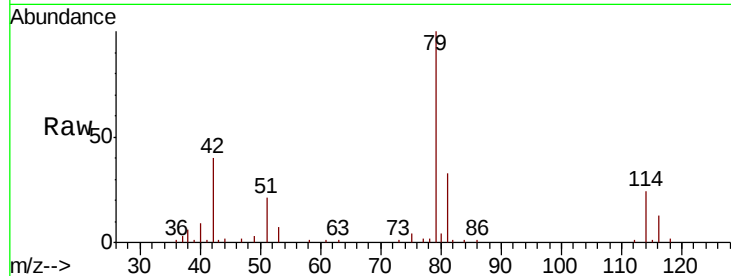


#39

cis-1,3-Dichloropropene  
Concen: 0.089 ug/L  
RT: 7.57 min Scan# 1939  
Delta R.T. -0.04 min  
Lab File: VU041585.D  
Acq: 12 Dec 2020 22:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0B00

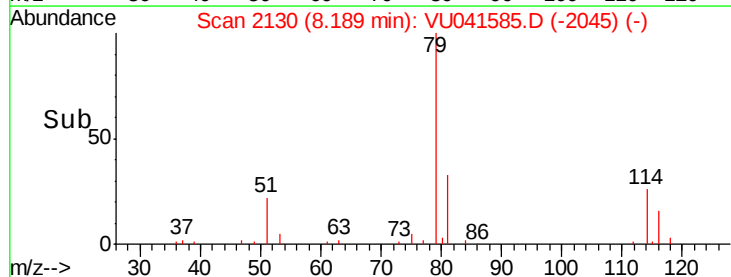
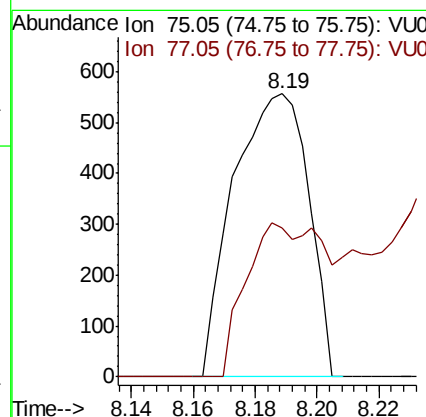
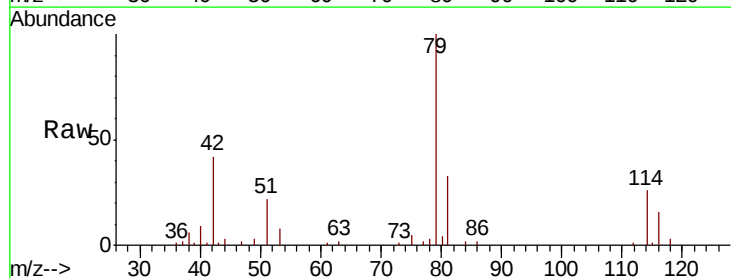
Tot Ion: 75 Resp: 1377  
Ion Ratio Lower Upper  
75 100  
77 60.1 22.3 41.3#

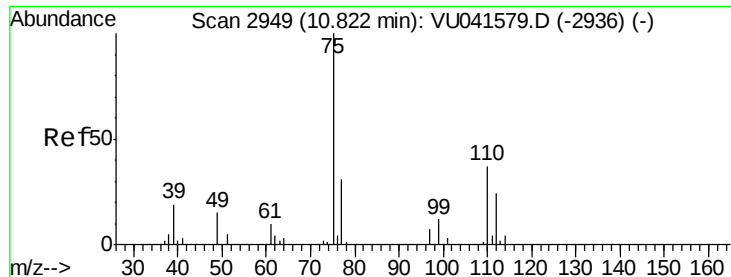


#44

trans-1,3-Dichloropropene  
Concen: 0.068 ug/L  
RT: 8.19 min Scan# 2130  
Delta R.T. -0.03 min  
Lab File: VU041585.D  
Acq: 12 Dec 2020 22:53

Tgt Ion: 75 Resp: 937  
Ion Ratio Lower Upper  
75 100  
77 52.4 23.8 44.2#





#59

1,2,3-Trichloropropane

Concen: 0.906 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU041585.D

Acq: 12 Dec 2020 22:53

Instrument :

MSVOA\_U

ClientSampleId :

C0B00

Tot Ion: 75 Resp: 7128

Ion Ratio Lower Upper

75 100

77 33.0 26.2 39.2

