

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100920\  
 Data File : VU040589.D  
 Acq On : 09 Oct 2020 17:15  
 Operator : SY/MD  
 Sample : L4346-02  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 YAQZ3

Quant Time: Oct 10 04:22:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100820WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Oct 10 04:13:39 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 138790   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 139513   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 60762    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 50767    | 4.41     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 88.20%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 41850    | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 94.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 75535    | 3.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 67.20%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 195366   | 53.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 106.18% |
| 24) Chloroform-d               | 5.08   | 84    | 95421    | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 60247    | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.00%  |
| 32) Benzene-d6                 | 5.75   | 84    | 179938   | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 60601    | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.00%  |
| 41) Toluene-d8                 | 7.91   | 98    | 151387   | 4.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.80%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 24990    | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 94.40%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 137286   | 50.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.68% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 53169    | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 94.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 60174    | 5.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 106.80% |

## Target Compounds

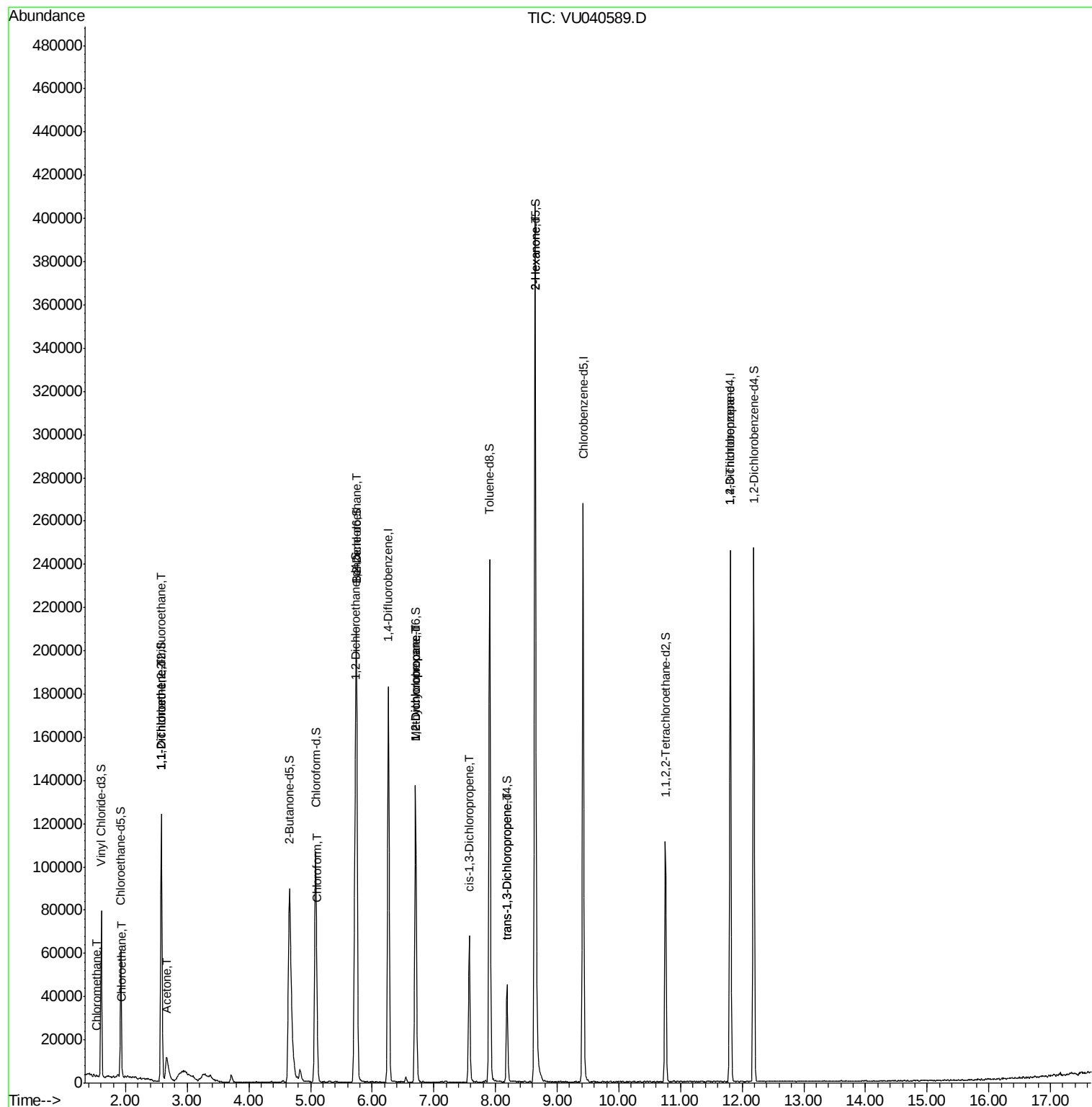
|                                |       |     |       |       | Ovalue    |
|--------------------------------|-------|-----|-------|-------|-----------|
| 3) Chloromethane               | 1.53  | 50  | 701   | 0.060 | ug/L 91   |
| 8) Chloroethane                | 1.95  | 64  | 329   | 0.042 | ug/L # 41 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.58  | 101 | 513   | 0.044 | ug/L # 20 |
| 12) 1,1-Dichloroethene         | 2.58  | 96  | 805   | 0.081 | ug/L # 1  |
| 13) Acetone                    | 2.66  | 43  | 27243 | 9.550 | ug/L 99   |
| 25) Chloroform                 | 5.11  | 83  | 5997  | 0.274 | ug/L 96   |
| 27) 1,2-Dichloroethane         | 5.74  | 62  | 1058  | 0.068 | ug/L # 77 |
| 35) Methylcyclohexane          | 6.70  | 83  | 14560 | 0.884 | ug/L # 14 |
| 37) 1,2-Dichloropropane        | 6.70  | 63  | 7045  | 0.564 | ug/L # 87 |
| 39) cis-1,3-Dichloropropene    | 7.58  | 75  | 1844  | 0.108 | ug/L # 67 |
| 44) trans-1,3-Dichloropropene  | 8.19  | 75  | 1239  | 0.079 | ug/L 95   |
| 48) 2-Hexanone                 | 8.64  | 43  | 21471 | 2.896 | ug/L # 68 |
| 59) 1,2,3-Trichloropropane     | 11.81 | 75  | 8308  | 0.906 | ug/L # 87 |

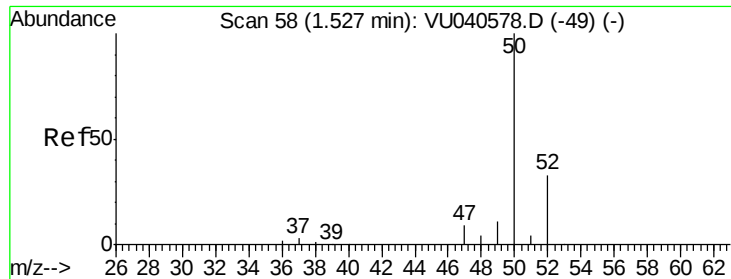
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100920\  
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Acq On : 09 Oct 2020 17:15  
Operator : SY/MD  
Sample : L4346-02  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
YAQZ3

Quant Time: Oct 10 04:22:33 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100820WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Oct 10 04:13:39 2020  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.060 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040589.D

Acq: 09 Oct 2020 17:15

Instrument :

MSVOA\_U

ClientSampleId :

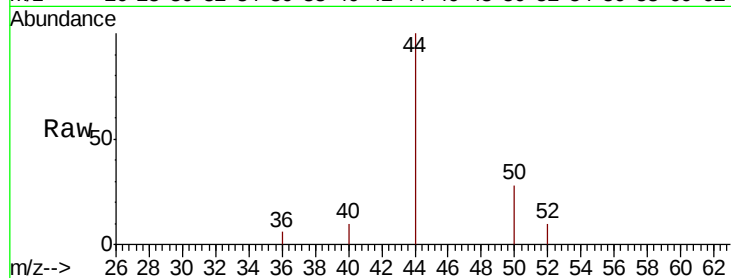
YAZ3

Tot Ion: 50 Resp: 701

Ion Ratio Lower Upper

50 100

52 36.2 21.9 40.7



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

1.53

600

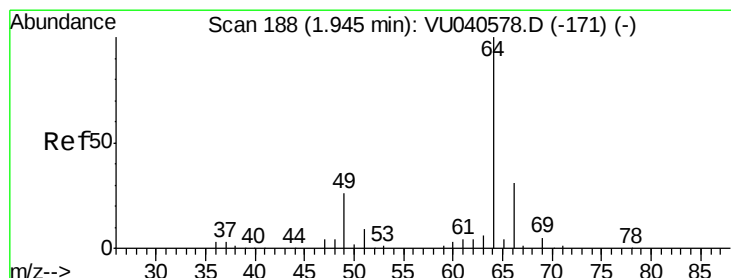
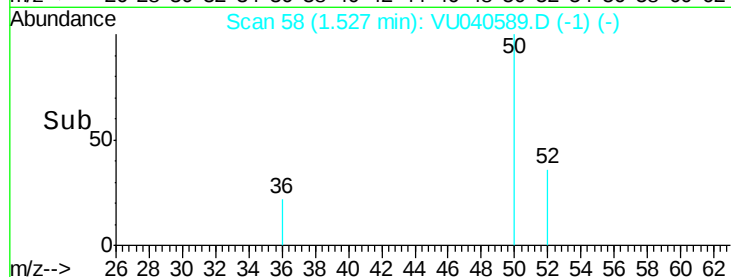
400

200

0

1.50 1.52 1.54

Time-->



#8

Chloroethane

Concen: 0.042 ug/L

RT: 1.95 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU040589.D

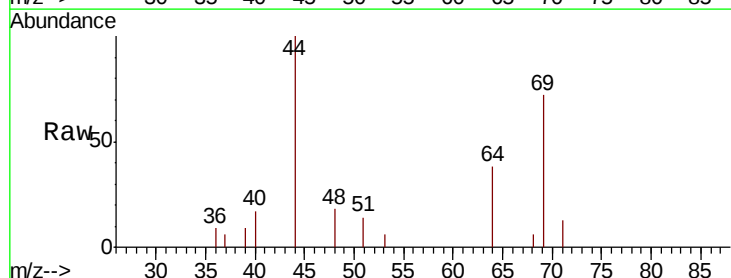
Acq: 09 Oct 2020 17:15

Tgt Ion: 64 Resp: 329

Ion Ratio Lower Upper

64 100

66 0.0 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0

800

600

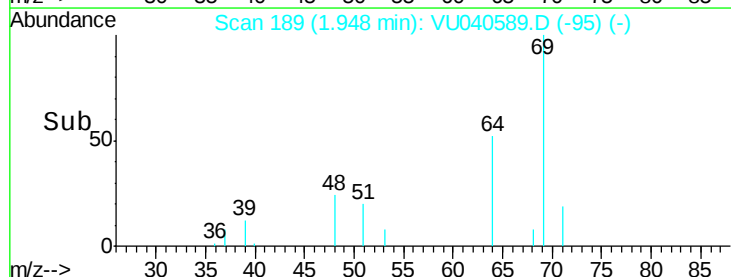
400

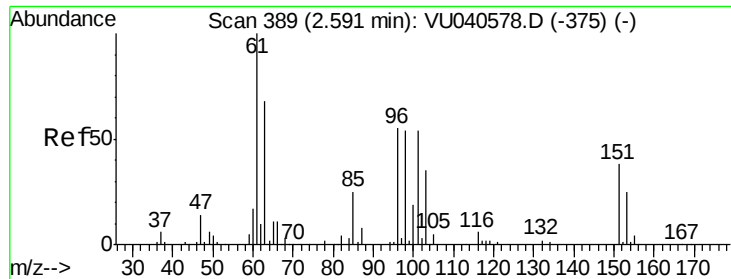
200

0

1.94 1.96

Time-->





#10

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

Concen: 0.044 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU040589.D

Acq: 09 Oct 2020 17:15

Instrument :

MSVOA\_U

ClientSampleId :

YAZ3

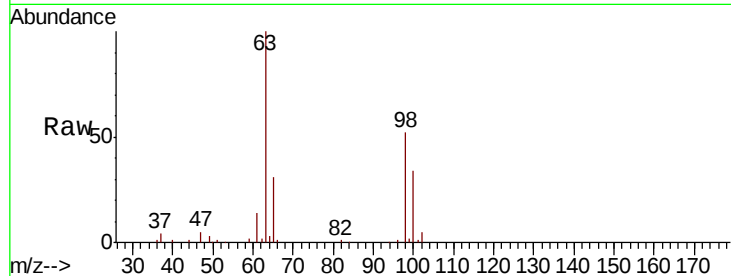
Tot Ion:101 Resp: 513

Ion Ratio Lower Upper

101 100

85 0.0 36.7 55.1#

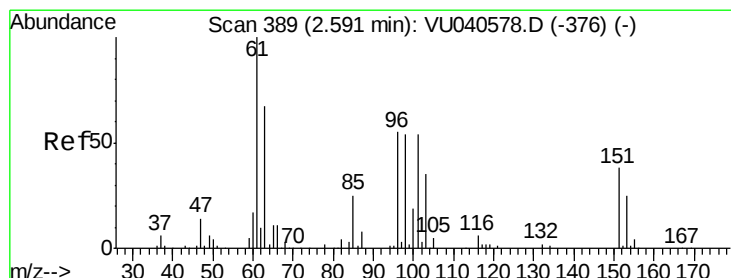
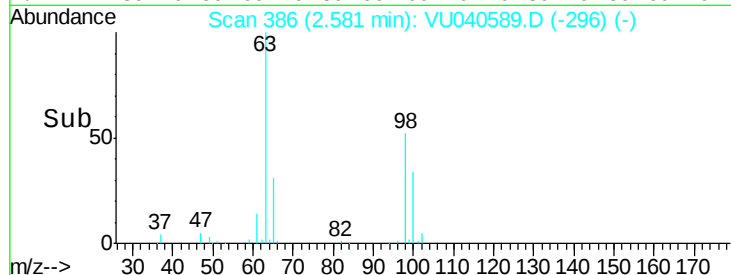
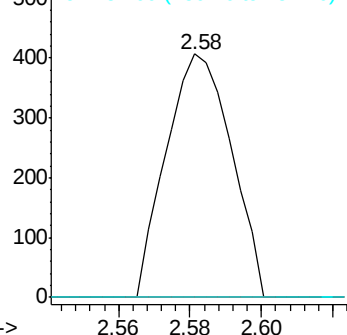
151 0.0 58.0 87.0#



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



#12

1,1-Dichloroethene

Concen: 0.081 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU040589.D

Acq: 09 Oct 2020 17:15

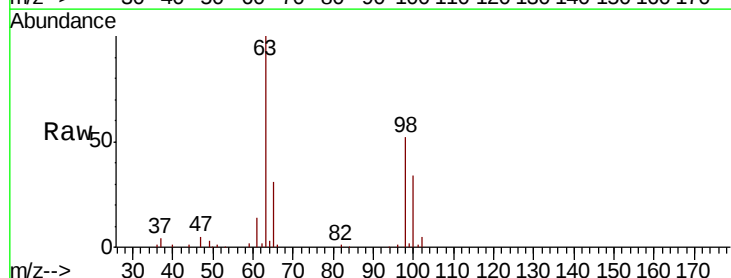
Tgt Ion: 96 Resp: 805

Ion Ratio Lower Upper

96 100

61 1814.7 128.8 239.2#

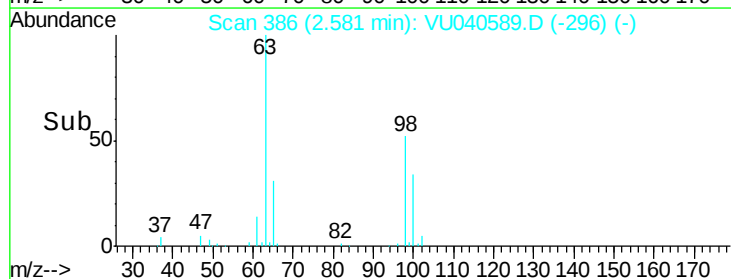
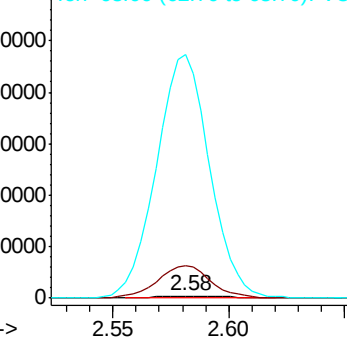
63 13367.2 84.6 157.2#

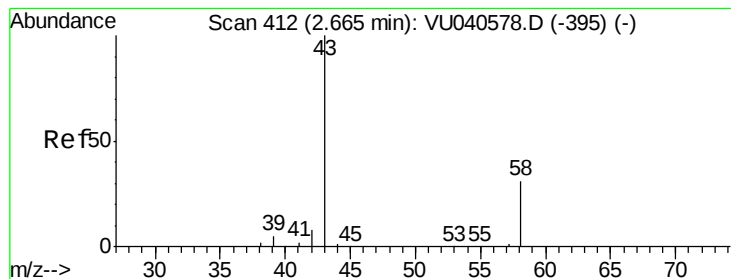


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 9.550 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.00 min

Lab File: VU040589.D

Acq: 09 Oct 2020 17:15

Instrument :

MSVOA\_U

ClientSampled :

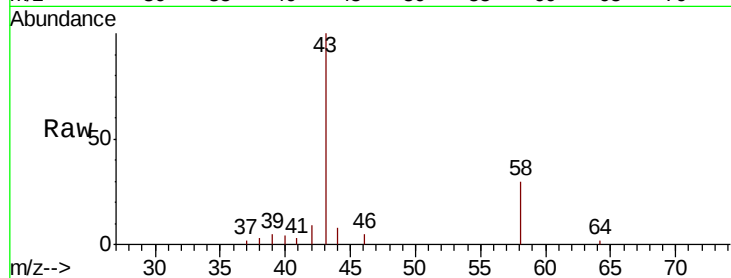
YQZ3

Tot Ion: 43 Resp: 27243

Ion Ratio Lower Upper

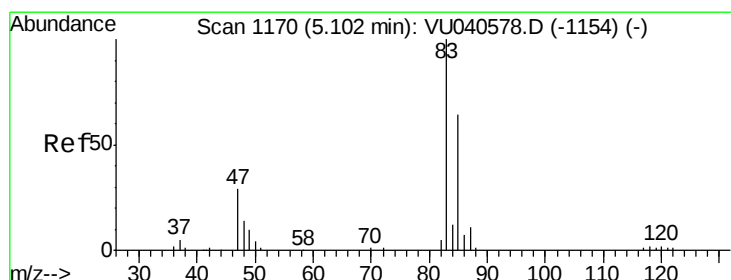
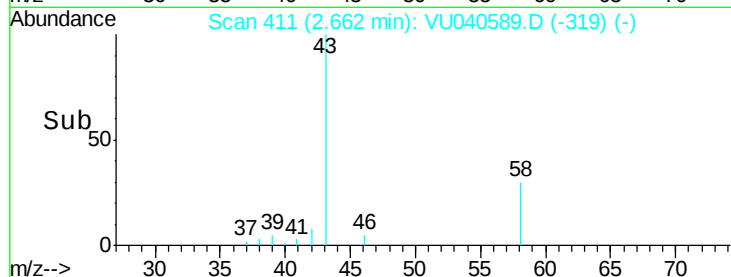
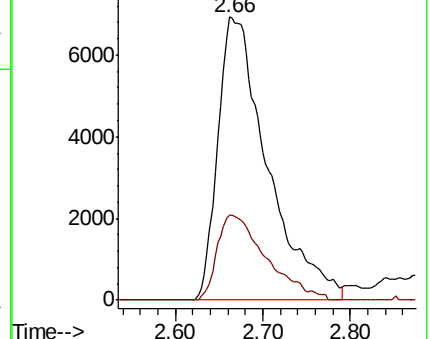
43 100

58 29.8 0.0 60.6



Abundance Ion 43.05 (42.75 to 43.75): VU040589.D (-319) (-)

Ion 58.05 (57.75 to 58.75): VU040589.D (-319) (-)



#25

Chloroform

Concen: 0.274 ug/L

RT: 5.11 min Scan# 1172

Delta R.T. 0.01 min

Lab File: VU040589.D

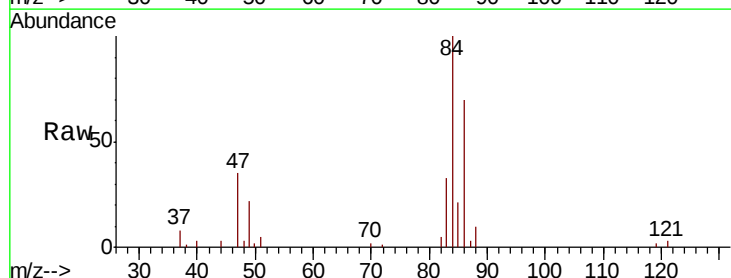
Acq: 09 Oct 2020 17:15

Tgt Ion: 83 Resp: 5997

Ion Ratio Lower Upper

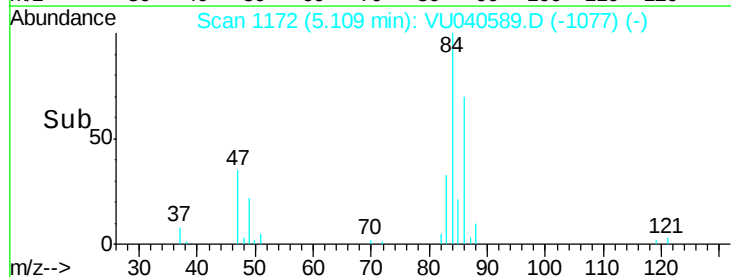
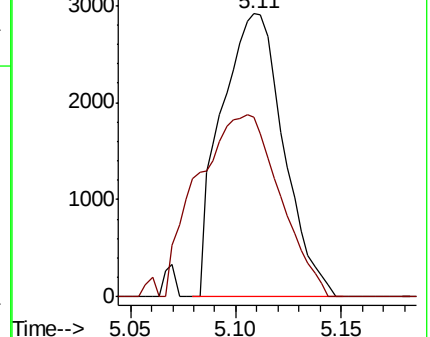
83 100

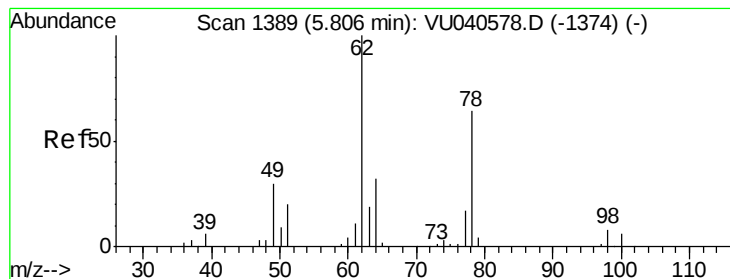
85 63.4 46.5 86.5



Abundance Ion 83.05 (82.75 to 83.75): VU040589.D (-1077) (-)

Ion 85.00 (84.70 to 85.70): VU040589.D (-1077) (-)





#27

1,2-Dichloroethane

Concen: 0.068 ug/L

RT: 5.74 min Scan# 1368

Delta R.T. -0.07 min

Lab File: VU040589.D

Acq: 09 Oct 2020 17:15

Instrument :

MSVOA\_U

ClientSampleId :

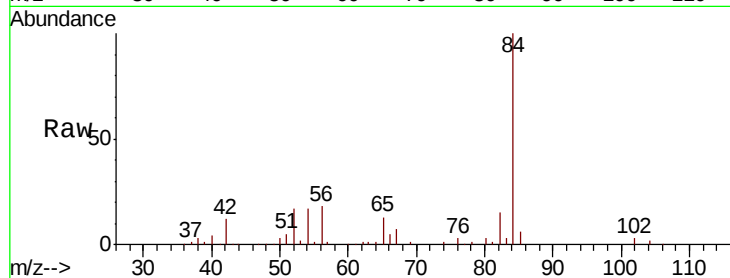
YAZ3

Tot Ion: 62 Resp: 1058

Ion Ratio Lower Upper

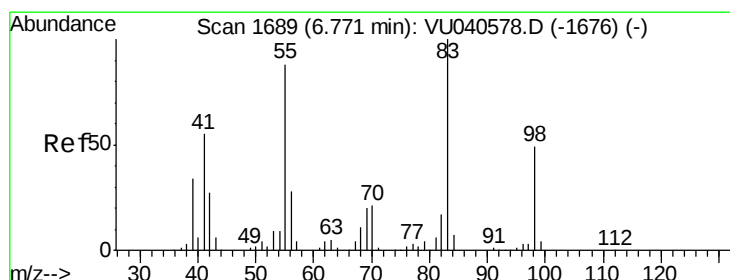
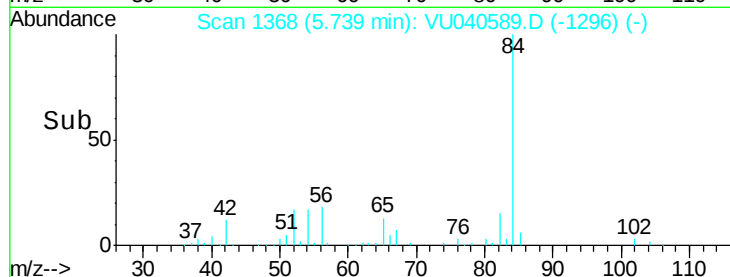
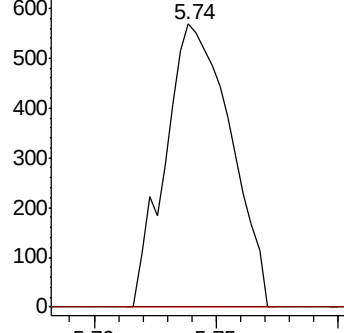
62 100

98 0.0 6.6 10.0#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.05 (97.75 to 98.75): VU0



#35

Methylcyclohexane

Concen: 0.884 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU040589.D

Acq: 09 Oct 2020 17:15

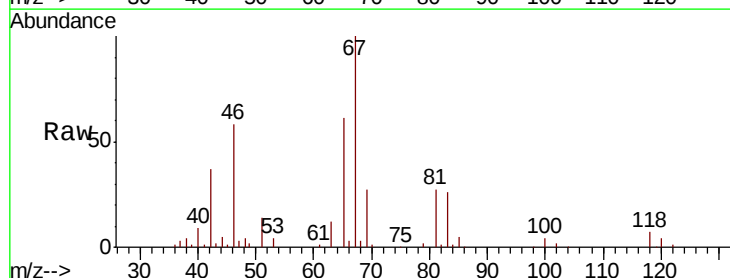
Tgt Ion: 83 Resp: 14560

Ion Ratio Lower Upper

83 100

55 0.0 70.7 106.1#

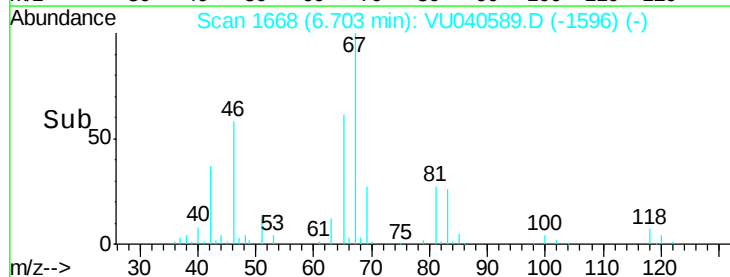
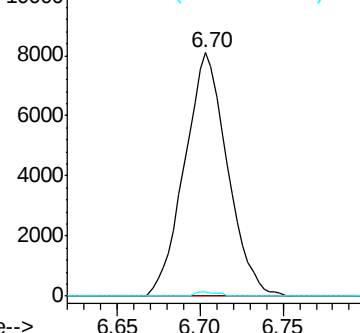
98 1.0 38.4 57.6#

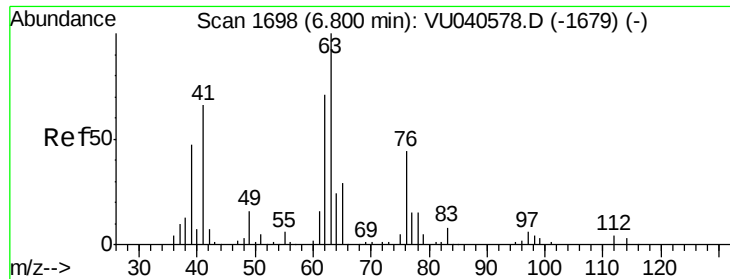


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

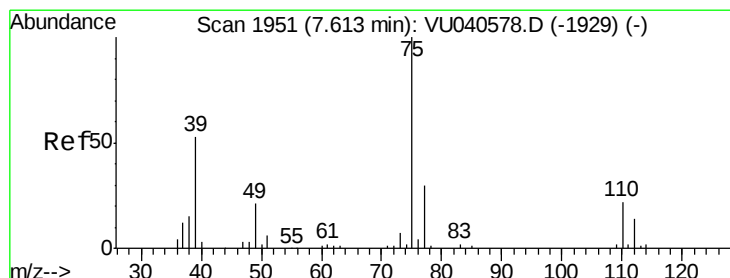
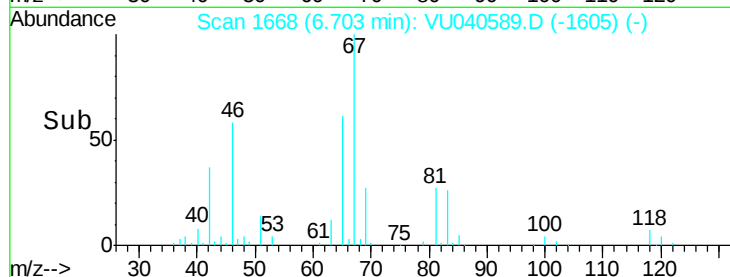
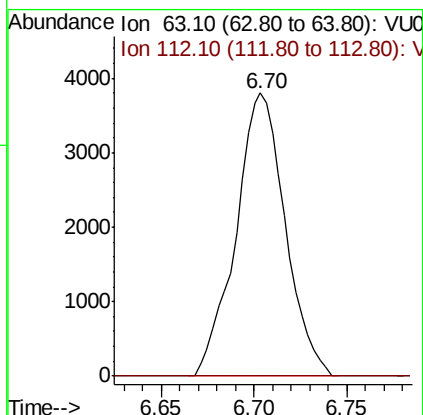
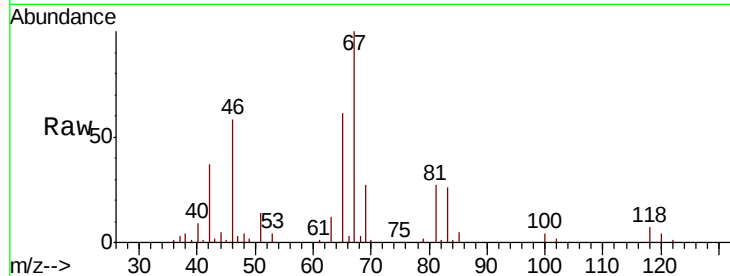




#37  
 1,2-Dichloropropane  
 Concen: 0.564 ug/L  
 RT: 6.70 min Scan# 1668  
 Delta R.T. -0.10 min  
 Lab File: VU040589.D  
 Acq: 09 Oct 2020 17:15

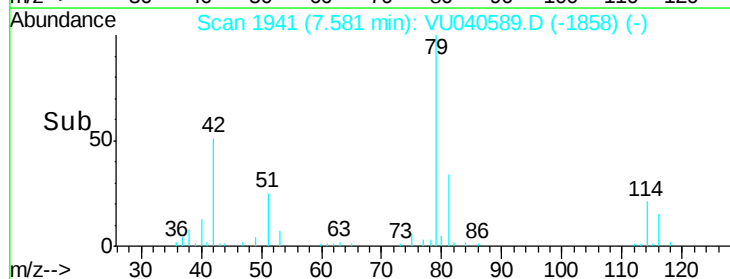
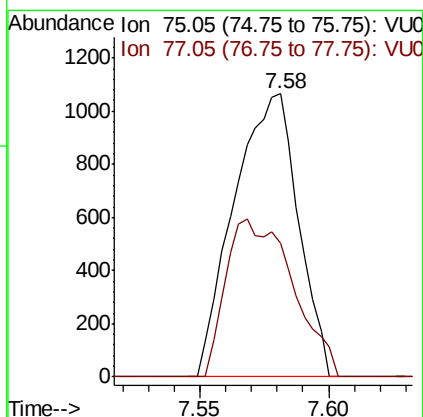
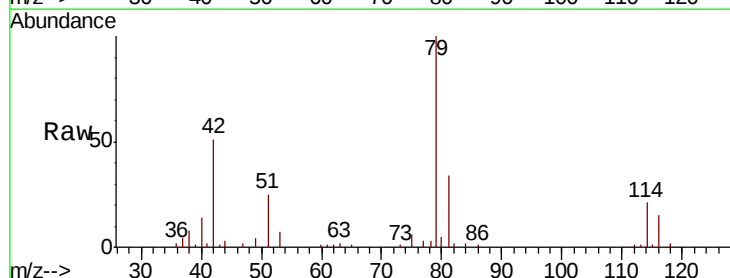
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 YAQZ3

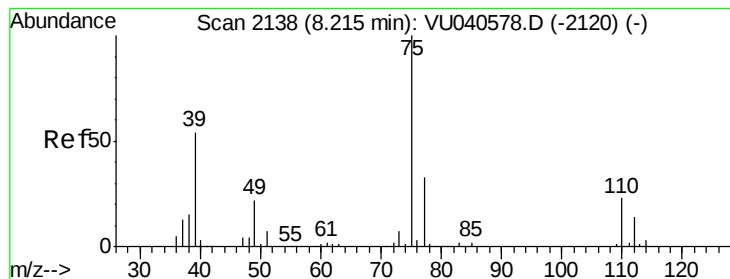
Tot Ion: 63 Resp: 7045  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.5 5.3#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.108 ug/L  
 RT: 7.58 min Scan# 1941  
 Delta R.T. -0.03 min  
 Lab File: VU040589.D  
 Acq: 09 Oct 2020 17:15

Tgt Ion: 75 Resp: 1844  
 Ion Ratio Lower Upper  
 75 100  
 77 47.0 20.5 38.1#





#44

trans-1,3-Dichloropropene

Concen: 0.079 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU040589.D

Acq: 09 Oct 2020 17:15

Instrument :

MSVOA\_U

ClientSampleId :

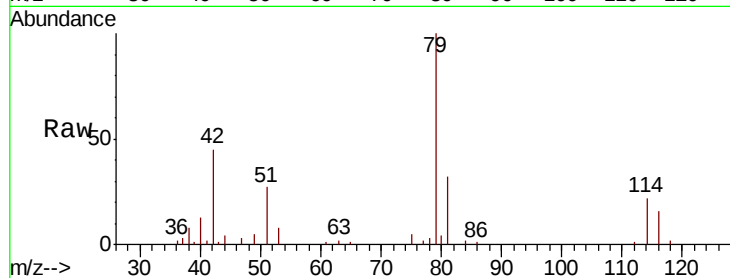
YAZ3

Tot Ion: 75 Resp: 1239

Ion Ratio Lower Upper

75 100

77 31.9 20.4 38.0



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

8.19

800

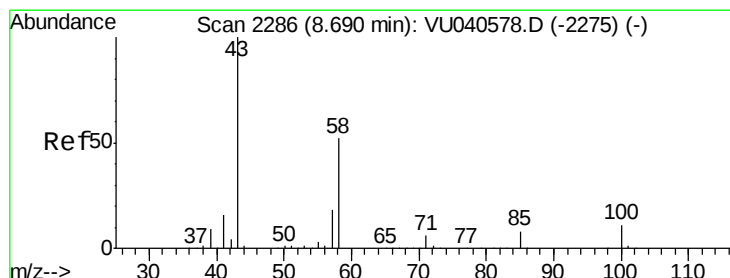
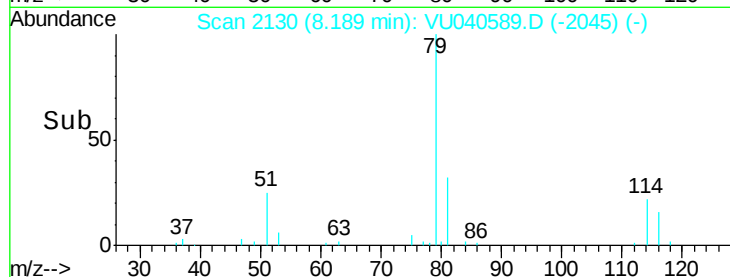
600

400

200

0

Time-->



#48

2-Hexanone

Concen: 2.896 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU040589.D

Acq: 09 Oct 2020 17:15

Tgt Ion: 43 Resp: 21471

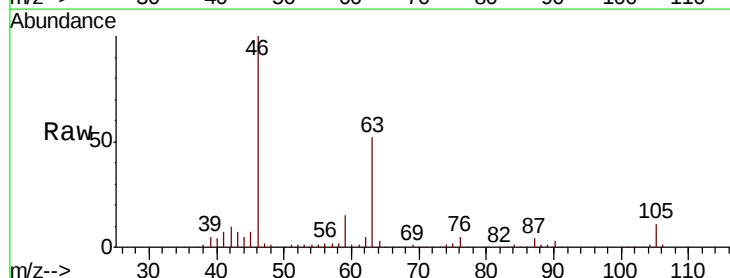
Ion Ratio Lower Upper

43 100

58 26.5 41.0 61.6#

57 27.8 14.4 21.6#

100 0.1 8.6 13.0#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0

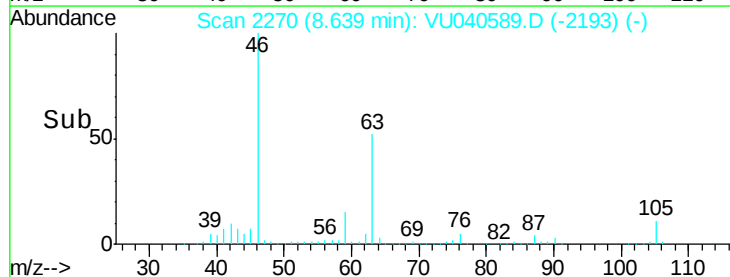
15000

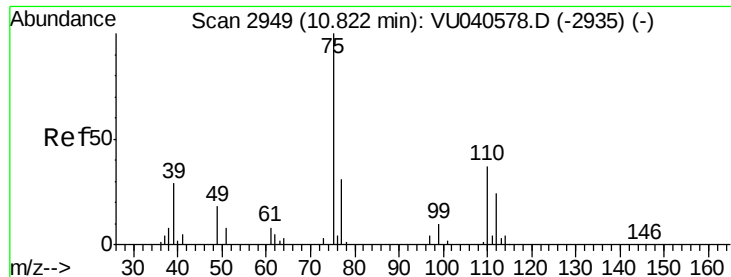
10000

5000

0

Time-->





#59

1,2,3-Trichloropropane

Concen: 0.906 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU040589.D

Acq: 09 Oct 2020 17:15

Instrument :

MSVOA\_U

ClientSampleId :

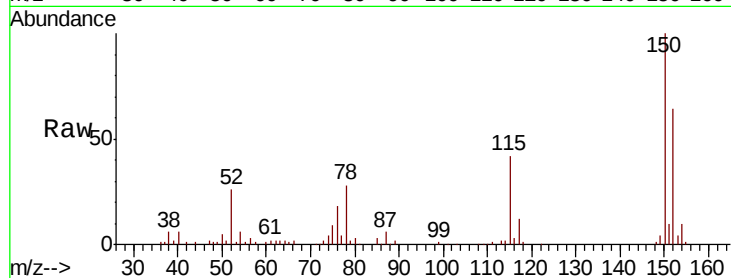
YQZ3

Tot Ion: 75 Resp: 8308

Ion Ratio Lower Upper

75 100

77 40.5 26.4 39.6#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

