

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102120\  
 Data File : VU040873.D  
 Acq On : 21 Oct 2020 15:12  
 Operator : SY/MD  
 Sample : L4428-08DL 10X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ETZ34DL

Quant Time: Oct 22 00:50:14 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR102120WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Oct 22 00:42:50 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 242744   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 249677   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 109113   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 83503    | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 100.40% |
| 7) Chloroethane-d5             | 1.92   | 69    | 75149    | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 103.60% |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 127548   | 3.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 72.00%  |
| 20) 2-Butanone-d5              | 4.65   | 46    | 370783   | 62.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 125.50% |
| 24) Chloroform-d               | 5.08   | 84    | 175302   | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 110529   | 5.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 108.00% |
| 32) Benzene-d6                 | 5.74   | 84    | 315865   | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 108033   | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.20%  |
| 41) Toluene-d8                 | 7.91   | 98    | 251213   | 4.33     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 86.60%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 46494    | 5.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 104.60% |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 277454   | 62.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 124.10% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 104855   | 5.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 111.00% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 106015   | 5.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 110.60% |

## Target Compounds

|                               |       |     |        |              | Ovalue |
|-------------------------------|-------|-----|--------|--------------|--------|
| 5) Vinyl chloride             | 1.61  | 62  | 87323  | 3.511 ug/L   | 93     |
| 8) Chloroethane               | 2.00  | 64  | 686    | 0.043 ug/L # | 44     |
| 12) 1,1-Dichloroethene        | 2.58  | 96  | 1060   | 0.060 ug/L # | 1      |
| 17) Methyl tert-butyl Ether   | 3.38  | 73  | 2871   | 0.066 ug/L # | 91     |
| 18) trans-1,2-Dichloroethene  | 3.37  | 96  | 2299   | 0.125 ug/L   | 93     |
| 22) cis-1,2-Dichloroethene    | 4.69  | 96  | 168645 | 8.330 ug/L   | 94     |
| 34) Trichloroethene           | 6.55  | 95  | 2326   | 0.114 ug/L   | 83     |
| 35) Methylcyclohexane         | 6.70  | 83  | 25902  | 0.847 ug/L # | 15     |
| 37) 1,2-Dichloropropane       | 6.70  | 63  | 12160  | 0.561 ug/L # | 89     |
| 39) cis-1,3-Dichloropropene   | 7.57  | 75  | 3097   | 0.107 ug/L # | 56     |
| 44) trans-1,3-Dichloropropene | 8.18  | 75  | 1895   | 0.072 ug/L   | 86     |
| 48) 2-Hexanone                | 8.69  | 43  | 5008   | 0.473 ug/L # | 92     |
| 59) 1,2,3-Trichloropropane    | 11.81 | 75  | 16262  | 1.155 ug/L   | 98     |
| 68) 1,2,4-trichlorobenzene    | 13.83 | 180 | 893    | 0.042 ug/L   | 93     |
| 69) Naphthalene               | 14.08 | 128 | 2082   | 0.053 ug/L # | 72     |

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MSVOA\_U  
ClientSampleId :  
ETZ34DL

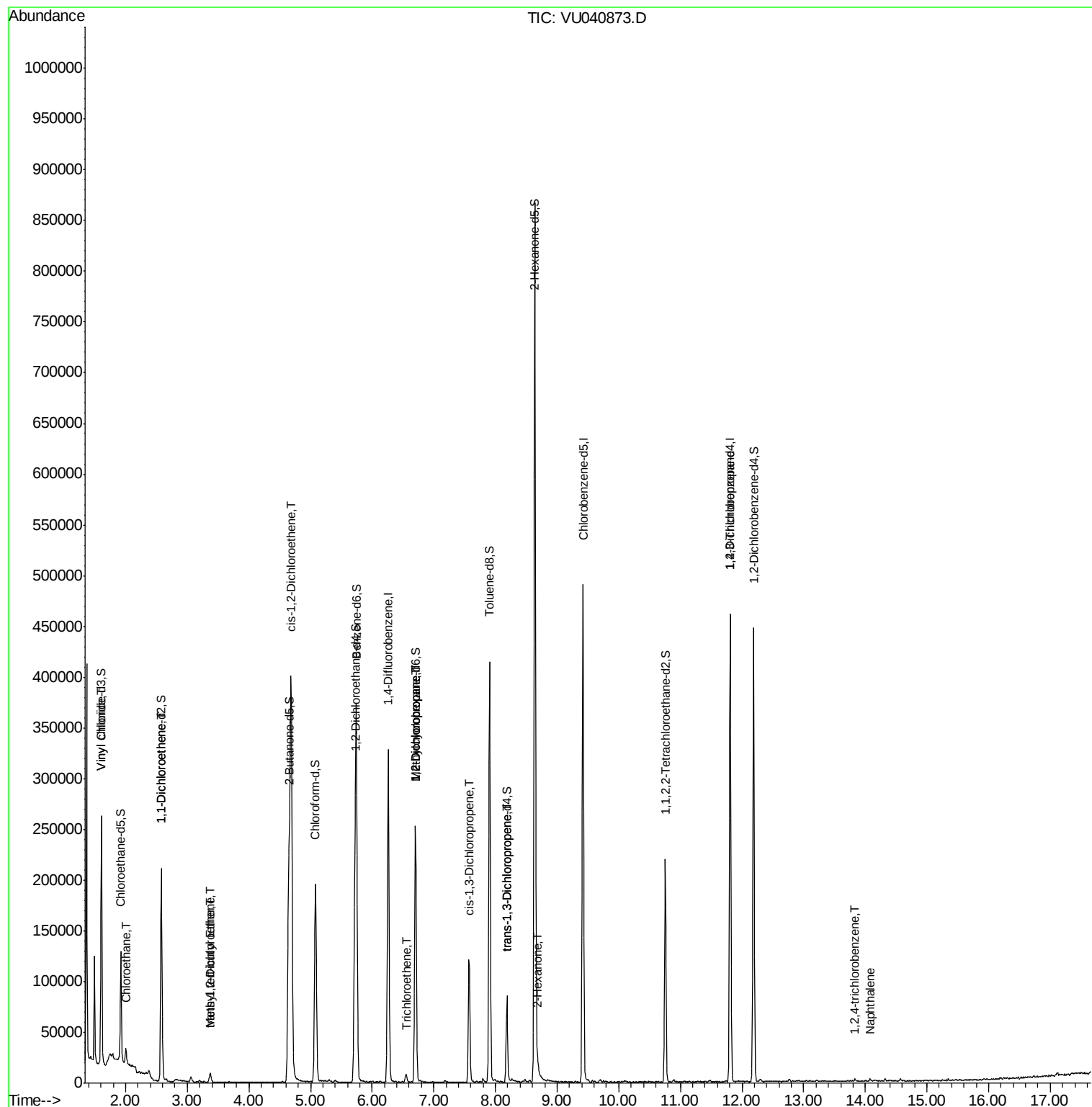
Quant Time: Oct 22 00:50:14 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR102120WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Oct 22 00:42:50 2020  
Response via : Initial Calibration

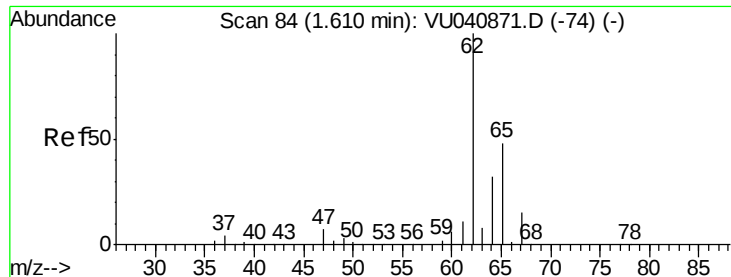
| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 3.511 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040873.D

Acq: 21 Oct 2020 15:12

Instrument :

MSVOA\_U

ClientSampleId :

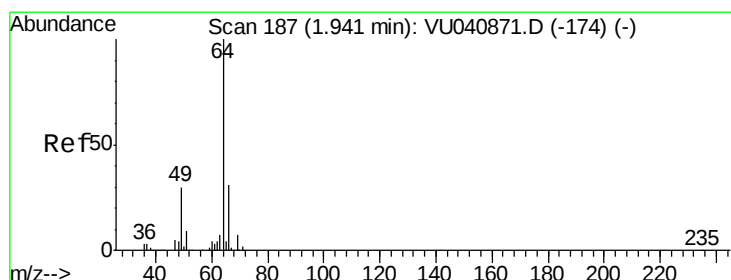
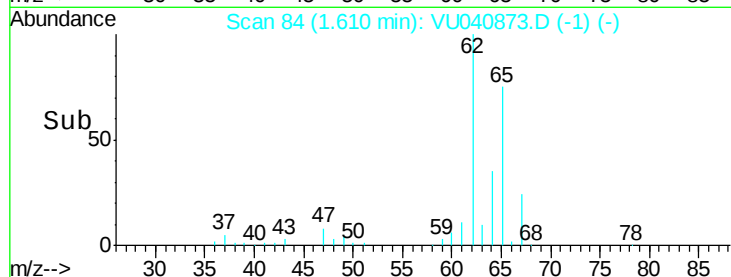
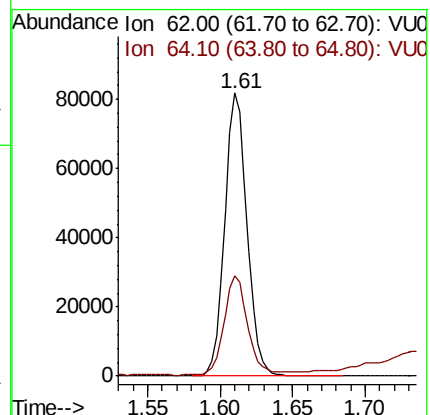
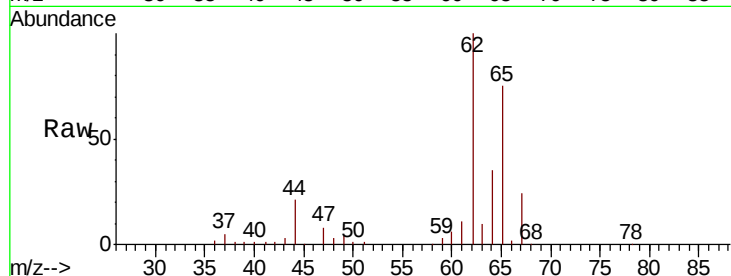
ETZ34DL

Tot Ion: 62 Resp: 87323

Ion Ratio Lower Upper

62 100

64 35.3 21.8 40.6



#8

Chloroethane

Concen: 0.043 ug/L

RT: 2.00 min Scan# 205

Delta R.T. 0.06 min

Lab File: VU040873.D

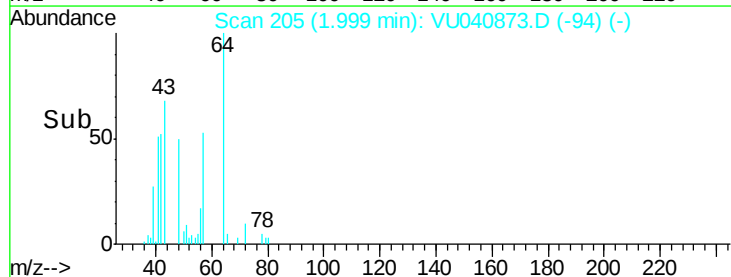
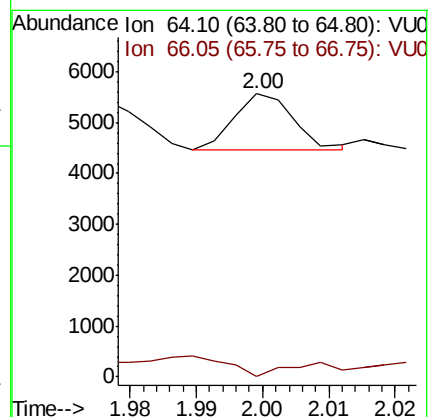
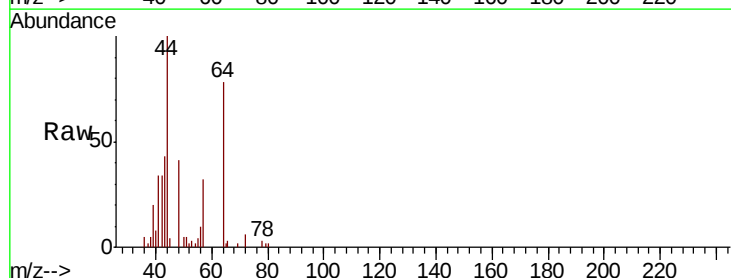
Acq: 21 Oct 2020 15:12

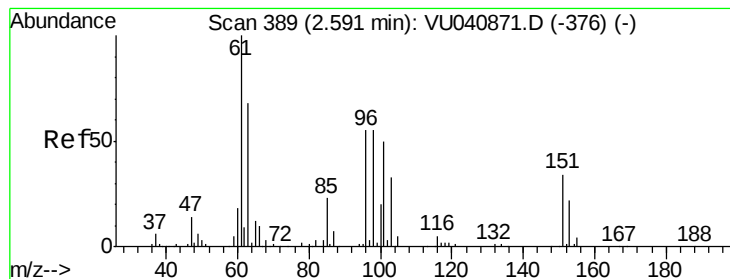
Tgt Ion: 64 Resp: 686

Ion Ratio Lower Upper

64 100

66 0.0 21.2 39.4#





#12

1,1-Dichloroethene

Concen: 0.060 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU040873.D

Acq: 21 Oct 2020 15:12

Instrument :

MSVOA\_U

ClientSampleId :

ETZ34DL

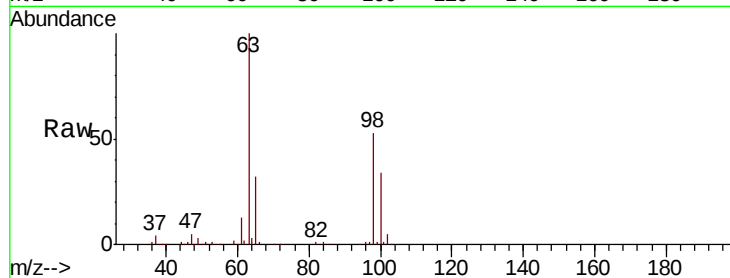
Tot Ion: 96 Resp: 1060

Ion Ratio Lower Upper

96 100

61 1555.2 130.9 243.1#

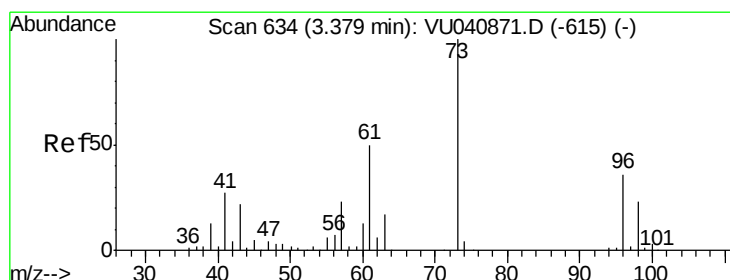
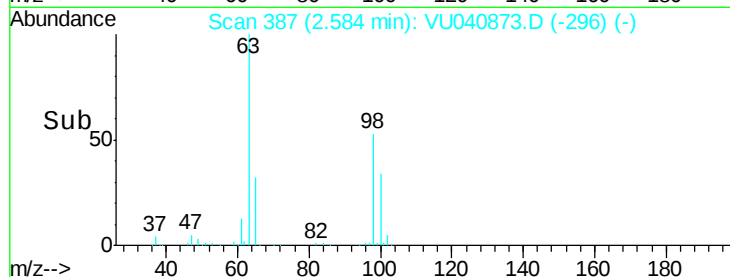
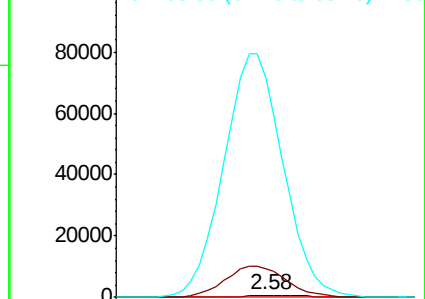
63 11860.7 85.4 158.6#



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



#17

Methyl tert-butyl Ether

Concen: 0.066 ug/L

RT: 3.38 min Scan# 633

Delta R.T. -0.00 min

Lab File: VU040873.D

Acq: 21 Oct 2020 15:12

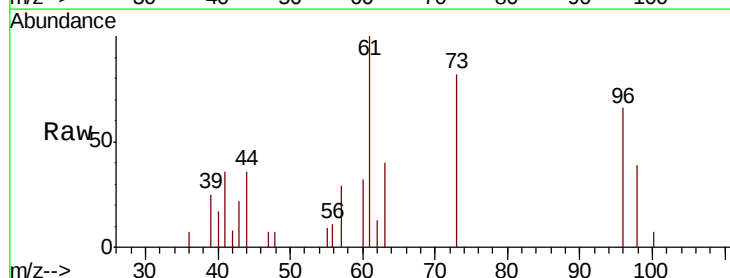
Tgt Ion: 73 Resp: 2871

Ion Ratio Lower Upper

73 100

43 26.3 18.6 27.8

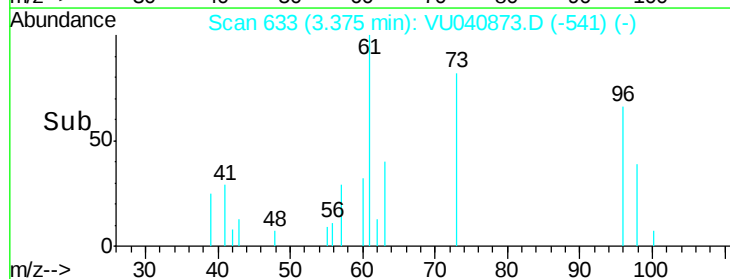
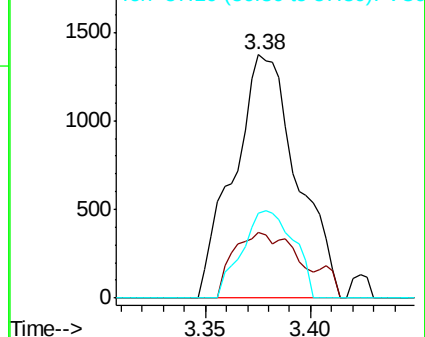
57 29.2 18.5 27.7#

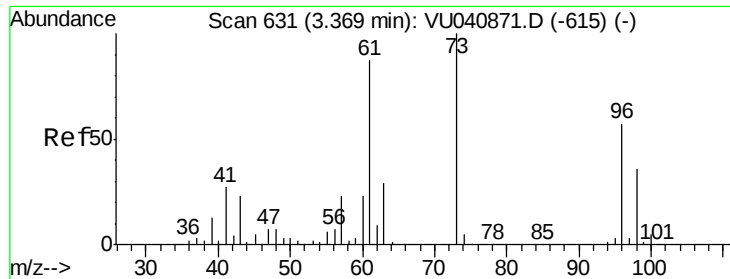


Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0

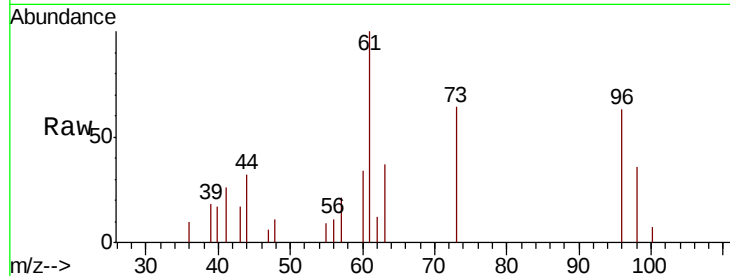




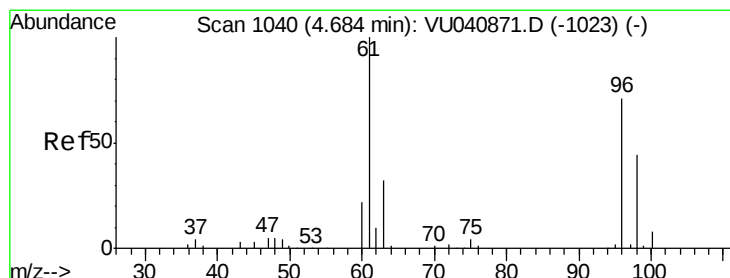
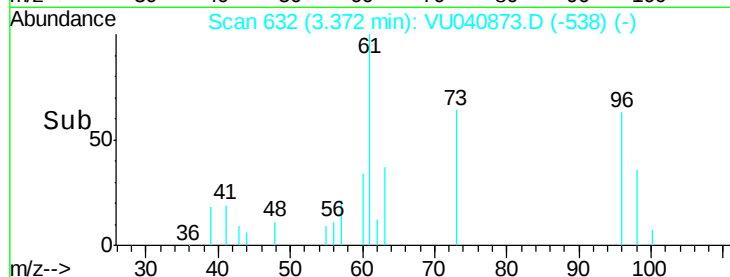
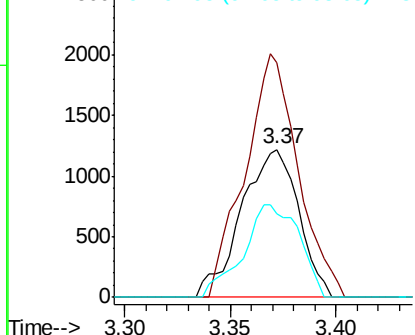
#18  
trans-1,2-Dichloroethene  
Concen: 0.125 ug/L  
RT: 3.37 min Scan# 632  
Delta R.T. 0.00 min  
Lab File: VU040873.D  
Acq: 21 Oct 2020 15:12

Instrument :  
MSVOA\_U  
ClientSampleId :  
ETZ34DL

Tot Ion: 96 Resp: 2299  
Ion Ratio Lower Upper  
96 100  
61 158.6 107.9 200.3  
98 56.8 47.5 88.1

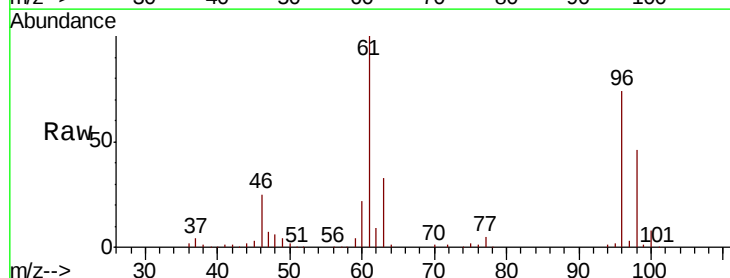


Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0  
Ion 97.95 (97.65 to 98.65): VU0

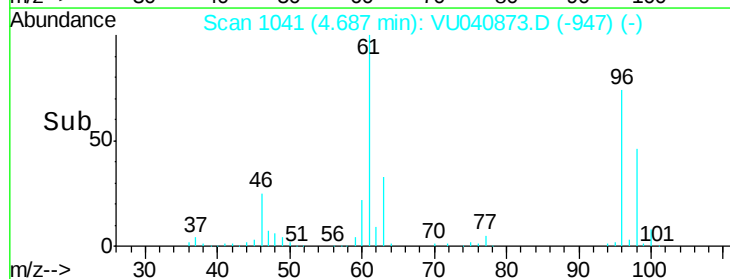
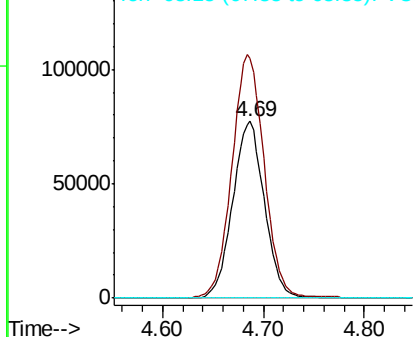


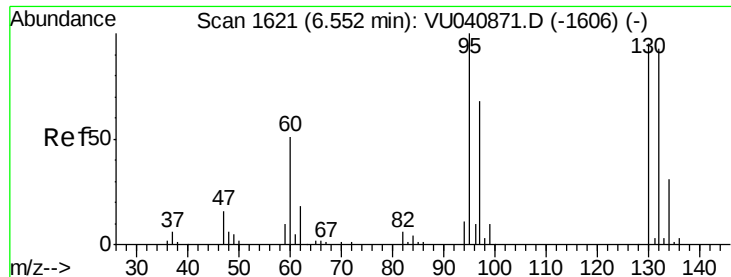
#22  
cis-1,2-Dichloroethene  
Concen: 8.330 ug/L  
RT: 4.69 min Scan# 1041  
Delta R.T. 0.00 min  
Lab File: VU040873.D  
Acq: 21 Oct 2020 15:12

Tgt Ion: 96 Resp: 168645  
Ion Ratio Lower Upper  
96 100  
61 135.9 100.0 185.6  
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

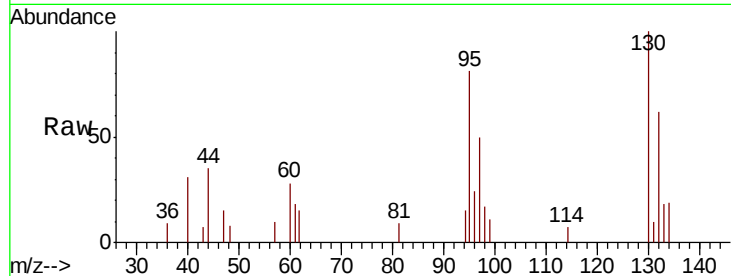




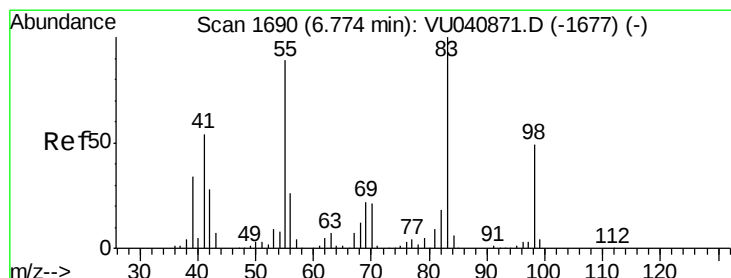
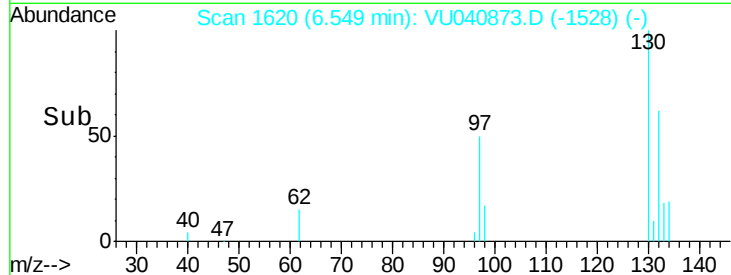
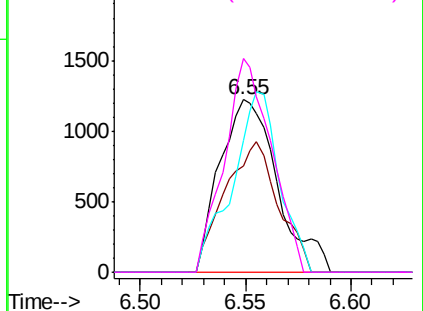
#34  
 Trichloroethene  
 Concen: 0.114 ug/L  
 RT: 6.55 min Scan# 1620  
 Delta R.T. -0.00 min  
 Lab File: VU040873.D  
 Acq: 21 Oct 2020 15:12

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 ETZ34DL

Tot Ion: 95 Resp: 2326  
 Ion Ratio Lower Upper  
 95 100  
 97 61.5 46.0 85.4  
 132 76.8 63.6 118.2  
 130 123.8 68.6 127.4

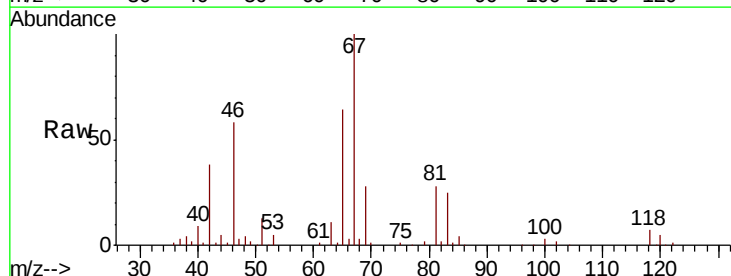


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 96.95 (96.65 to 97.65): VU0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

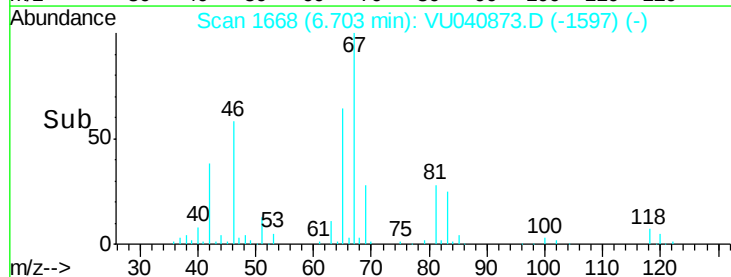
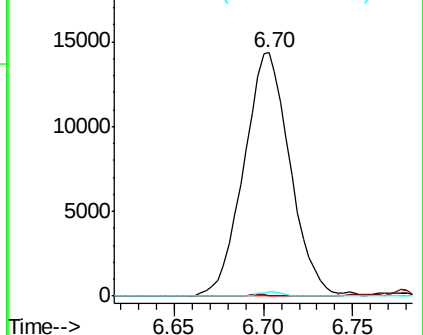


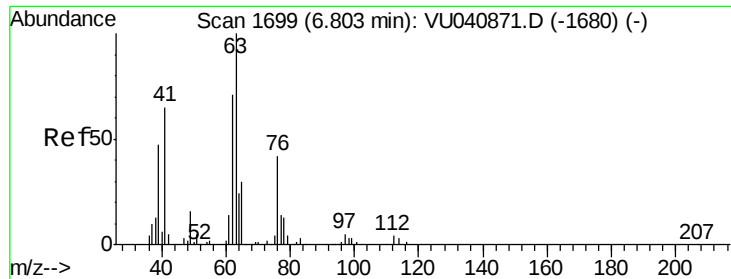
#35  
 Methylcyclohexane  
 Concen: 0.847 ug/L  
 RT: 6.70 min Scan# 1668  
 Delta R.T. -0.07 min  
 Lab File: VU040873.D  
 Acq: 21 Oct 2020 15:12

Tgt Ion: 83 Resp: 25902  
 Ion Ratio Lower Upper  
 83 100  
 55 0.3 69.1 103.7#  
 98 0.9 37.8 56.6#



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: 0.561 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.10 min

Lab File: VU040873.D

Acq: 21 Oct 2020 15:12

Instrument :

MSVOA\_U

ClientSampleId :

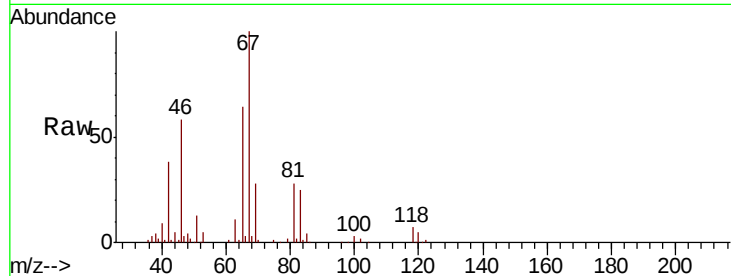
ETZ34DL

Tot Ion: 63 Resp: 12160

Ion Ratio Lower Upper

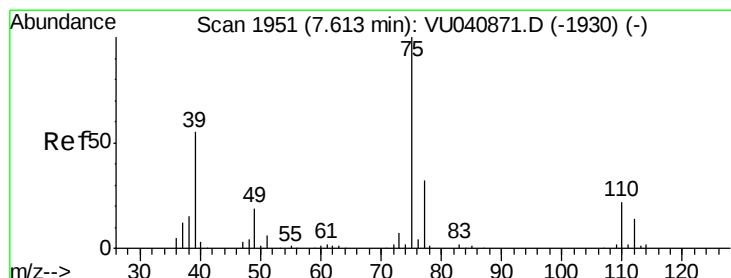
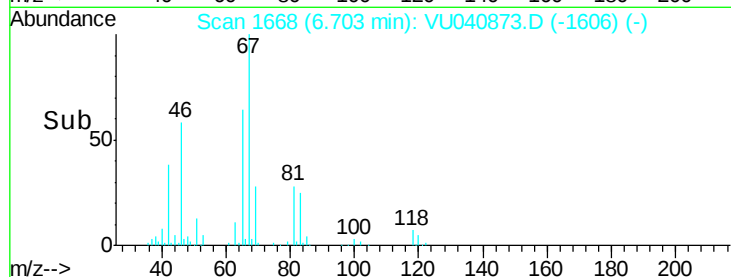
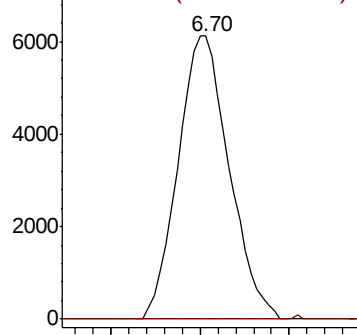
63 100

112 0.2 3.0 4.6#



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: 0.107 ug/L

RT: 7.57 min Scan# 1939

Delta R.T. -0.04 min

Lab File: VU040873.D

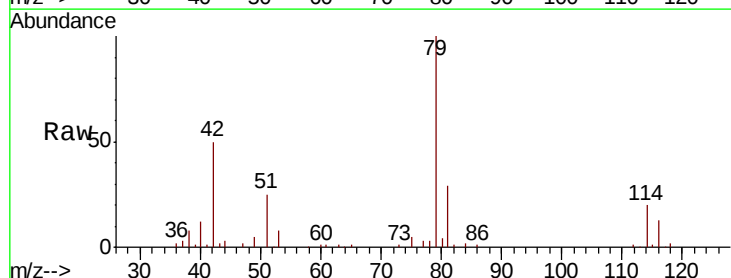
Acq: 21 Oct 2020 15:12

Tgt Ion: 75 Resp: 3097

Ion Ratio Lower Upper

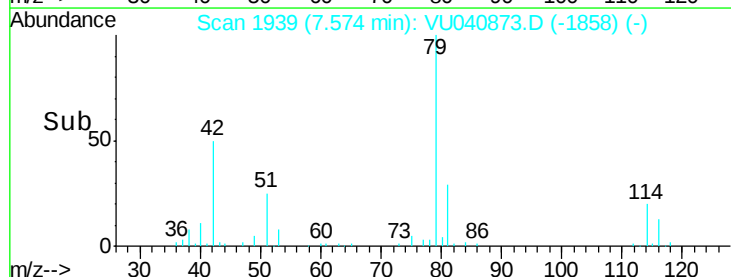
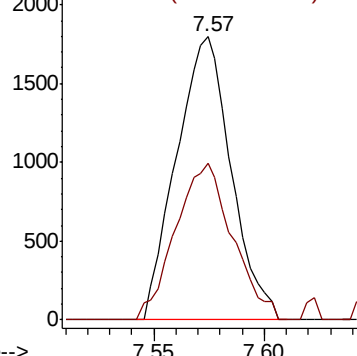
75 100

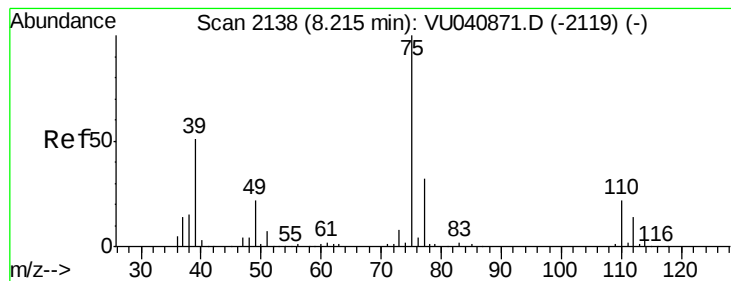
77 55.2 21.6 40.2#



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: 0.072 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU040873.D

Acq: 21 Oct 2020 15:12

Instrument :

MSVOA\_U

ClientSampled :

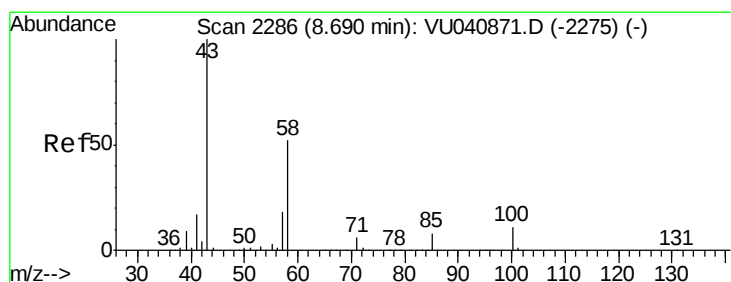
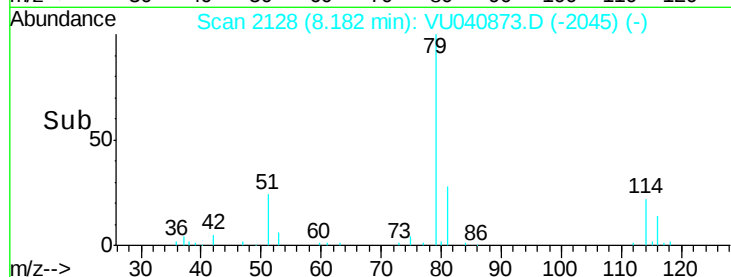
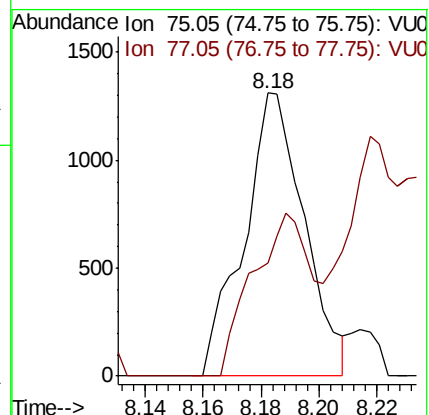
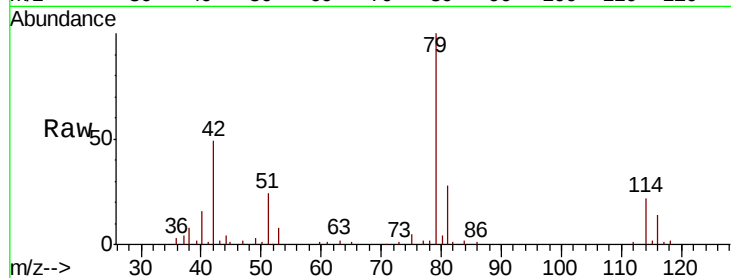
ETZ34DL

Tot Ion: 75 Resp: 1895

Ion Ratio Lower Upper

75 100

77 39.9 22.6 42.0



#48

2-Hexanone

Concen: 0.473 ug/L

RT: 8.69 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VU040873.D

Acq: 21 Oct 2020 15:12

Tgt Ion: 43 Resp: 5008

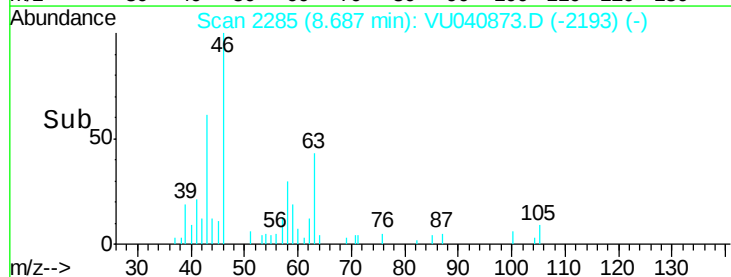
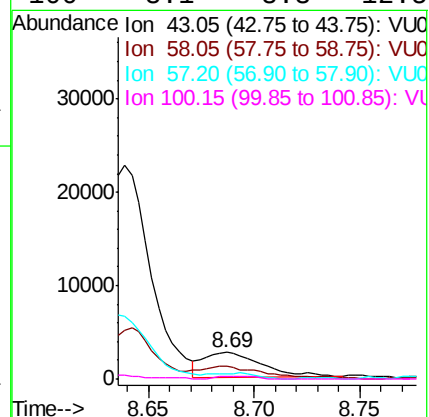
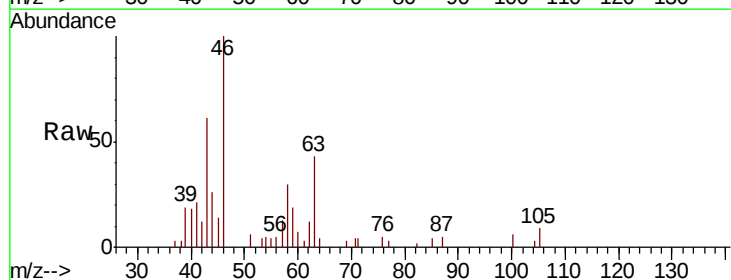
Ion Ratio Lower Upper

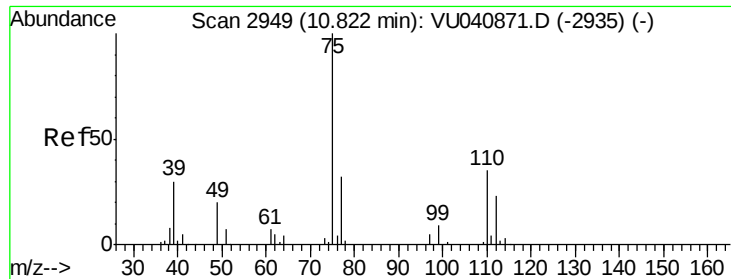
43 100

58 57.6 40.9 61.3

57 19.5 14.4 21.6

100 8.1 8.3 12.5#





#59

1,2,3-Trichloropropane

Concen: 1.155 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU040873.D

Acq: 21 Oct 2020 15:12

Instrument :

MSVOA\_U

ClientSampleId :

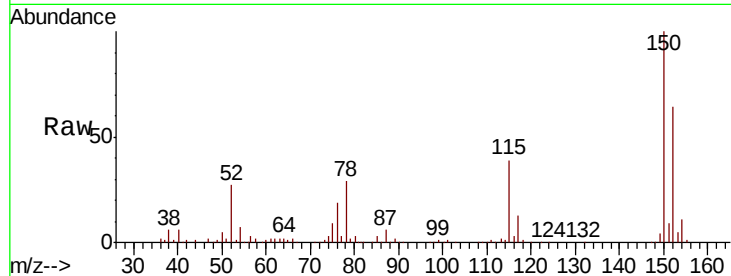
ETZ34DL

Tot Ion: 75 Resp: 16262

Ion Ratio Lower Upper

75 100

77 35.6 27.5 41.3



Abundance Ion 75.00 (74.70 to 75.70): VU040873.D (-2935) (-)

Ion 77.00 (76.70 to 77.70): VU040873.D (-2935) (-)

11.81

10000

8000

6000

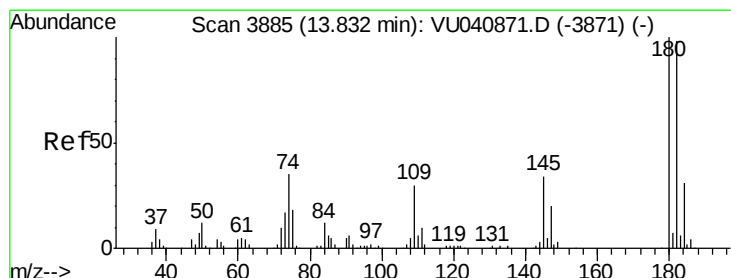
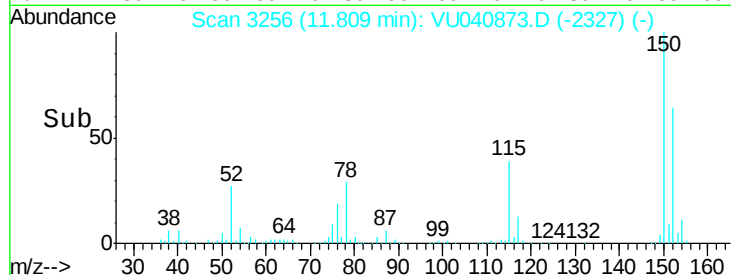
4000

2000

0

Time-->

11.75 11.80 11.85



#68

1,2,4-trichlorobenzene

Concen: 0.042 ug/L

RT: 13.83 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VU040873.D

Acq: 21 Oct 2020 15:12

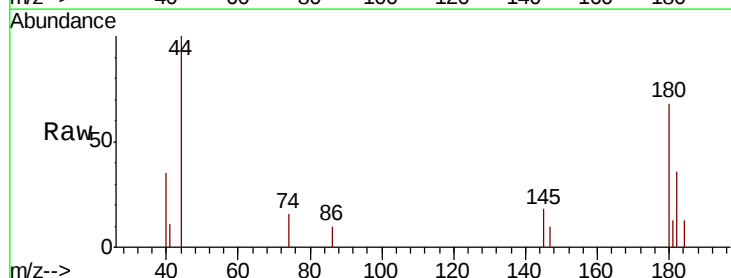
Tgt Ion:180 Resp: 893

Ion Ratio Lower Upper

180 100

182 86.6 76.4 114.6

145 31.4 26.2 39.2



Abundance Ion 179.90 (179.60 to 180.60): VU040873.D (-3871) (-)

Ion 182.00 (181.70 to 182.70): VU040873.D (-3871) (-)

Ion 144.95 (144.65 to 145.65): VU040873.D (-3871) (-)

13.83

1000

800

600

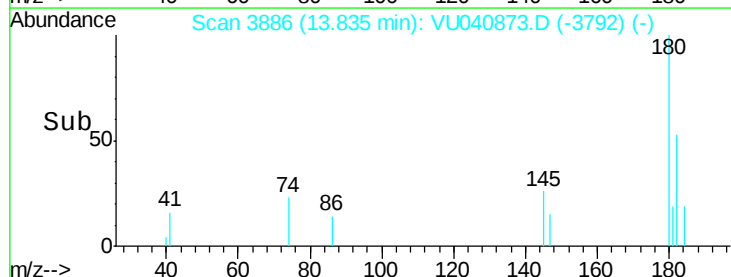
400

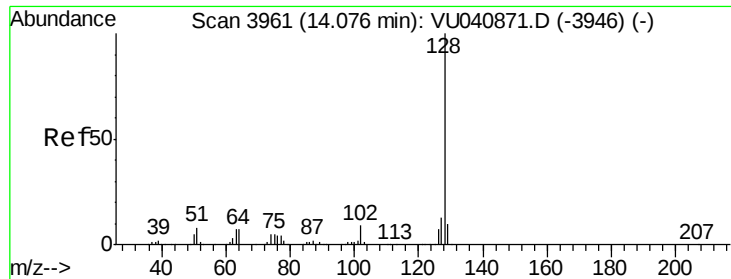
200

0

Time-->

13.80 13.82 13.84 13.86





#69

Naphthalene

Concen: 0.053 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU040873.D

Acq: 21 Oct 2020 15:12

Instrument :

MSVOA\_U

ClientSampleId :

ETZ34DL

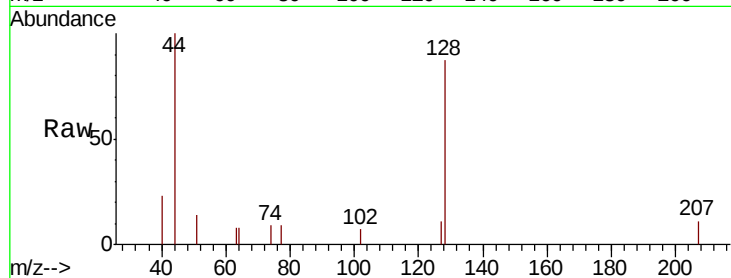
Tot Ion:128 Resp: 2082

Ion Ratio Lower Upper

128 100

129 2.2 8.9 13.3#

127 0.0 10.3 15.5#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

