

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080820\  
 Data File : VU039803.D  
 Acq On : 08 Aug 2020 11:44  
 Operator : SY/MD  
 Sample : L3590-03  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F4L17

Quant Time: Aug 10 04:55:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR080320WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Aug 10 01:16:49 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.27  | 114  | 67898    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 65868    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 32694    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 14322    | 3.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 78.20%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 16165    | 4.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 81.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.57   | 63    | 27108    | 3.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 73.40%  |
| 20) 2-Butanone-d5              | 4.72   | 46    | 86141    | 53.42    | ug/L | 0.06    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 106.84% |
| 24) Chloroform-d               | 5.08   | 84    | 40234    | 4.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 87.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 26410    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.80%  |
| 32) Benzene-d6                 | 5.74   | 84    | 70658    | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.71   | 67    | 26574    | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.00%  |
| 41) Toluene-d8                 | 7.90   | 98    | 53387    | 3.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 76.80%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 8838     | 4.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 85.80%  |
| 46) 2-Hexanone-d5              | 8.65   | 63    | 57962    | 52.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 104.12% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 24570    | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 94.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 28332    | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 101.20% |

## Target Compounds

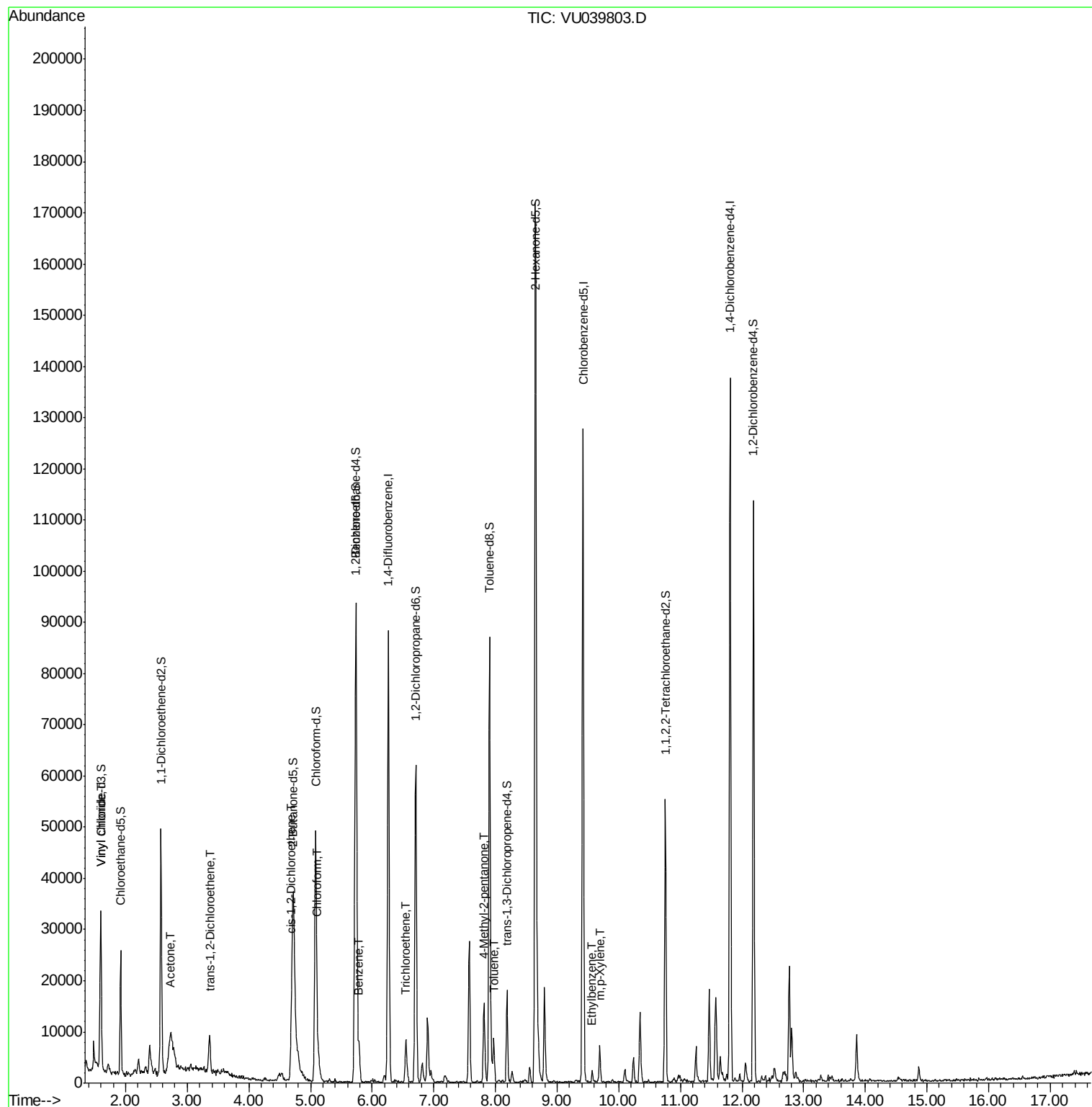
| Target Compounds             | R.T. | QIon | Response | Conc   | Units | Ovalue |
|------------------------------|------|------|----------|--------|-------|--------|
| 5) Vinyl chloride            | 1.60 | 62   | 3978     | 0.721  | ug/L  | # 67   |
| 13) Acetone                  | 2.74 | 43   | 24039    | 25.286 | ug/L  | 64     |
| 18) trans-1,2-Dichloroethene | 3.36 | 96   | 2217     | 0.492  | ug/L  | 93     |
| 22) cis-1,2-Dichloroethene   | 4.68 | 96   | 1416     | 0.289  | ug/L  | 99     |
| 25) Chloroform               | 5.11 | 83   | 2416     | 0.270  | ug/L  | 80     |
| 33) Benzene                  | 5.79 | 78   | 6746     | 0.376  | ug/L  | 100    |
| 34) Trichloroethene          | 6.55 | 95   | 2035     | 0.437  | ug/L  | 95     |
| 40) 4-Methyl-2-pentanone     | 7.81 | 43   | 11884    | 3.336  | ug/L  | 96     |
| 42) Toluene                  | 7.97 | 91   | 5609     | 0.297  | ug/L  | 88     |
| 52) Ethylbenzene             | 9.57 | 91   | 1749     | 0.083  | ug/L  | 95     |
| 53) m,p-Xylene               | 9.69 | 106  | 2042     | 0.254  | ug/L  | 99     |

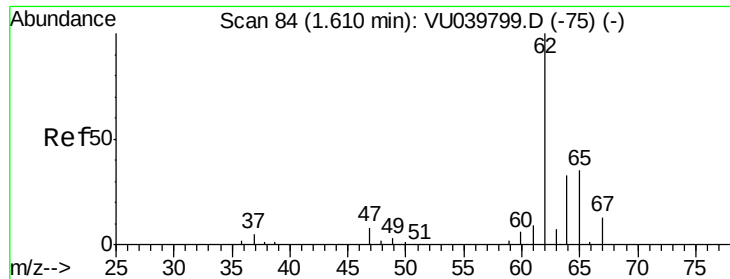
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L3590-03  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F4L17

Quant Time: Aug 10 04:55:28 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR080320WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Mon Aug 10 01:16:49 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.721 ug/L

RT: 1.60 min Scan# 82

Delta R.T. -0.01 min

Lab File: VU039803.D

Acq: 08 Aug 2020 11:44

Instrument :

MSVOA\_U

ClientSampleId :

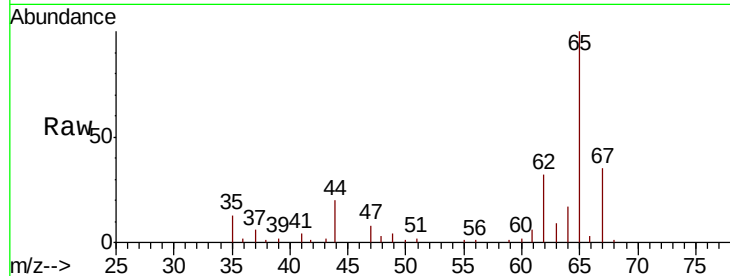
F4L17

Tot Ion: 62 Resp: 3978

Ion Ratio Lower Upper

62 100

64 53.6 24.1 44.7#



Abundance Ion 62.00 (61.70 to 62.70): VU039799.D (-75) (-)

Ion 64.10 (63.80 to 64.80): VU039803.D (-321) (-)

1.60

3000

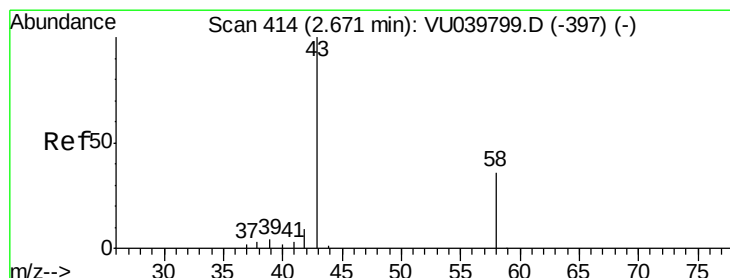
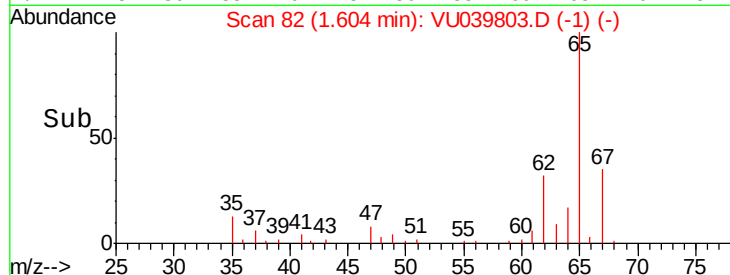
2000

1000

0

1.56 1.58 1.60 1.62 1.64

Time-->



#13

Acetone

Concen: 25.286 ug/L

RT: 2.74 min Scan# 435

Delta R.T. 0.07 min

Lab File: VU039803.D

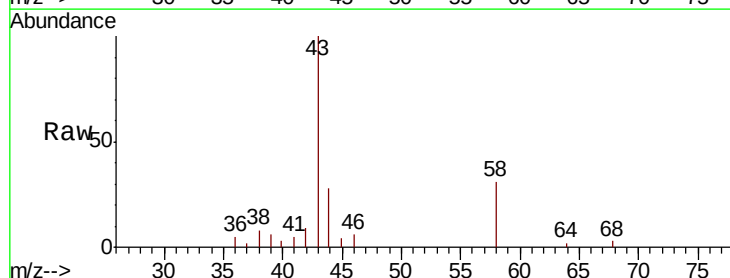
Acq: 08 Aug 2020 11:44

Tgt Ion: 43 Resp: 24039

Ion Ratio Lower Upper

43 100

58 11.2 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU039799.D (-397) (-)

Ion 58.05 (57.75 to 58.75): VU039803.D (-321) (-)

2.74

5000

4000

3000

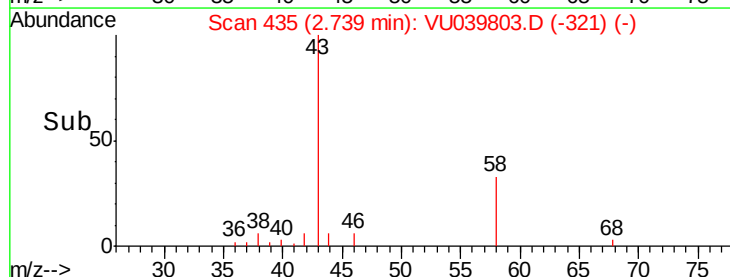
2000

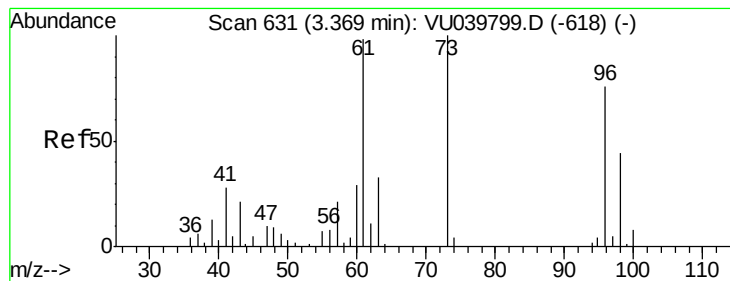
1000

0

2.60 2.70 2.80

Time-->





#18

trans-1,2-Dichloroethene

Concen: 0.492 ug/L

RT: 3.36 min Scan# 629

Delta R.T. -0.01 min

Lab File: VU039803.D

Acq: 08 Aug 2020 11:44

Instrument :

MSVOA\_U

ClientSampled :

F4L17

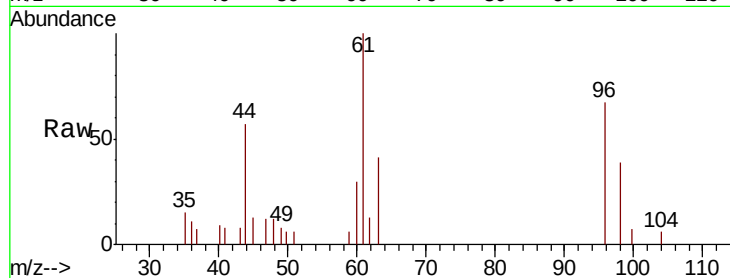
Tot Ion: 96 Resp: 2217

Ion Ratio Lower Upper

96 100

61 150.3 96.5 179.1

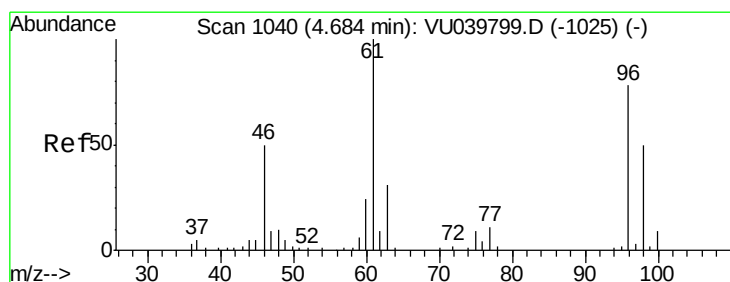
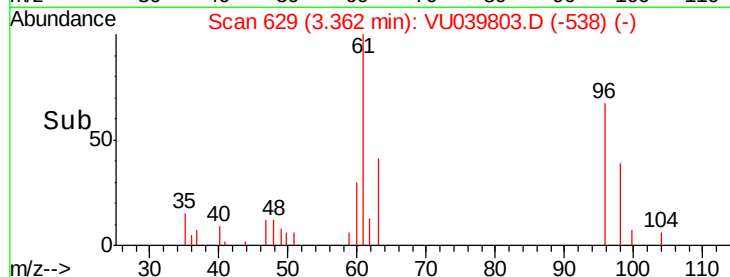
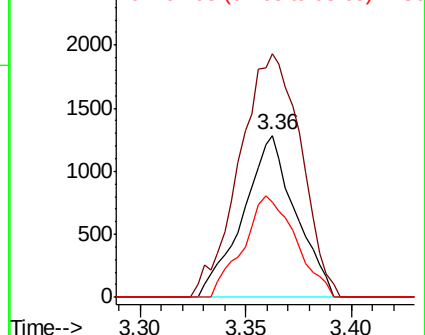
98 59.1 40.9 76.0



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: 0.289 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU039803.D

Acq: 08 Aug 2020 11:44

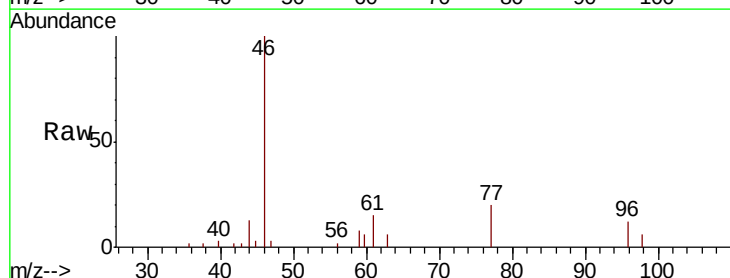
Tgt Ion: 96 Resp: 1416

Ion Ratio Lower Upper

96 100

61 126.5 87.4 162.2

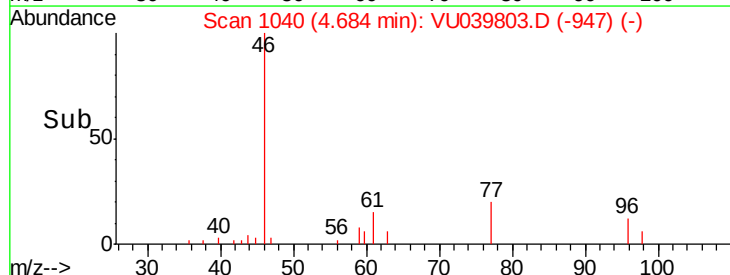
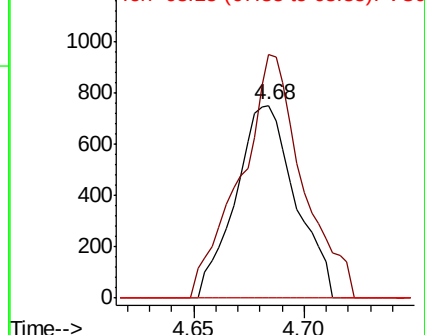
68 0.0 0.0 0.0

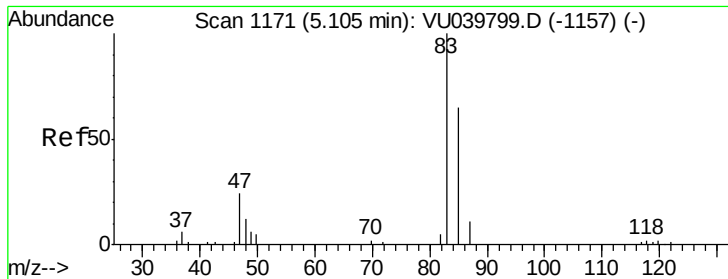


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0

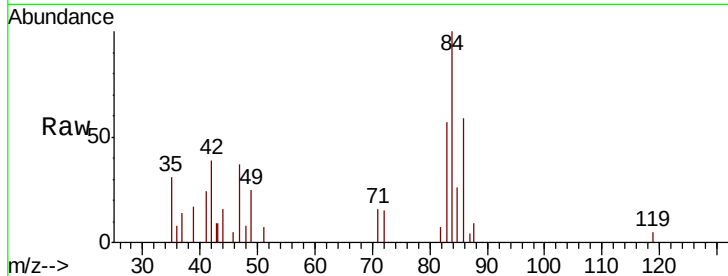




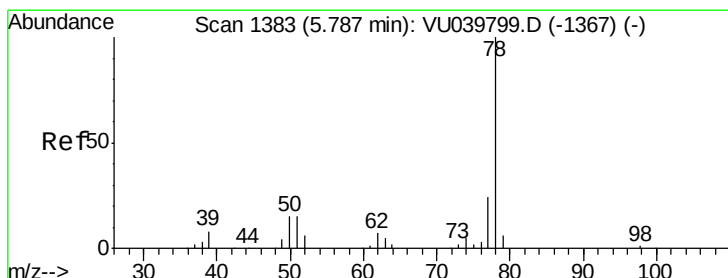
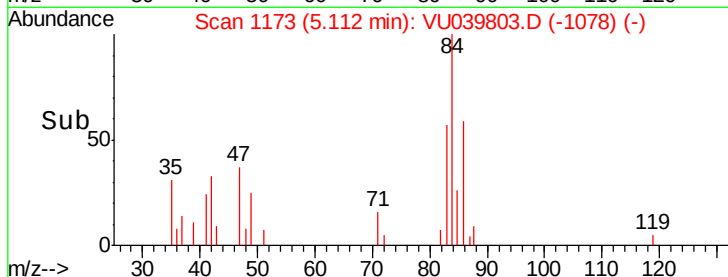
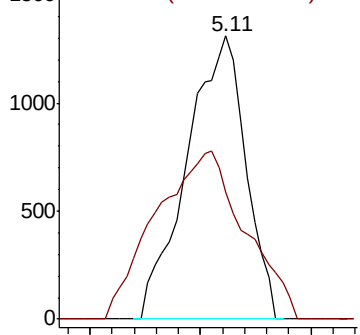
#25  
Chloroform  
Concen: 0.270 ug/L  
RT: 5.11 min Scan# 1173  
Delta R.T. 0.01 min  
Lab File: VU039803.D  
Acq: 08 Aug 2020 11:44

Instrument :  
MSVOA\_U  
ClientSampleId :  
F4L17

Tot Ion: 83 Resp: 2416  
Ion Ratio Lower Upper  
83 100  
85 44.8 42.1 78.3

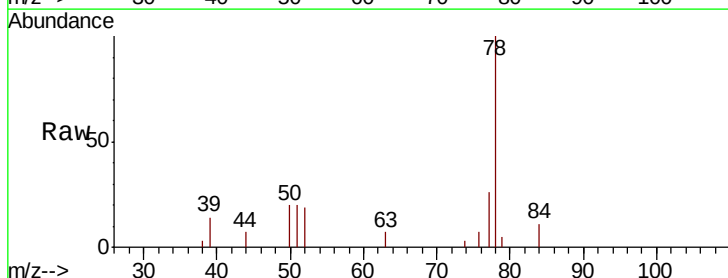


Abundance Ion 83.05 (82.75 to 83.75): VU039799.D (-1157) (-)  
Ion 85.00 (84.70 to 85.70): VU039803.D (-1078) (-)

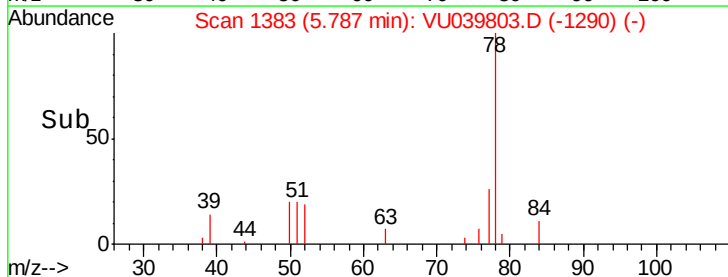
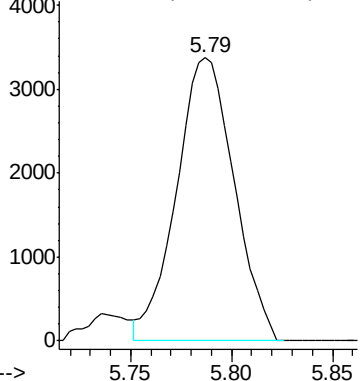


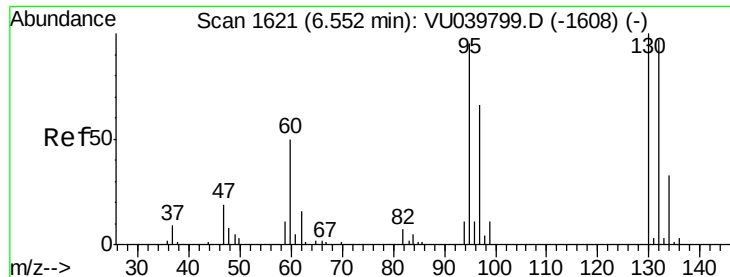
#33  
Benzene  
Concen: 0.376 ug/L  
RT: 5.79 min Scan# 1383  
Delta R.T. -0.00 min  
Lab File: VU039803.D  
Acq: 08 Aug 2020 11:44

Tgt Ion: 78 Resp: 6746



Abundance Ion 78.10 (77.80 to 78.80): VU039799.D (-1367) (-)





#34

Trichloroethene

Concen: 0.437 ug/L

RT: 6.55 min Scan# 1619

Delta R.T. -0.01 min

Lab File: VU039803.D

Acq: 08 Aug 2020 11:44

Instrument :

MSVOA\_U

ClientSampleId :

F4L17

Tot Ion: 95 Resp: 2035

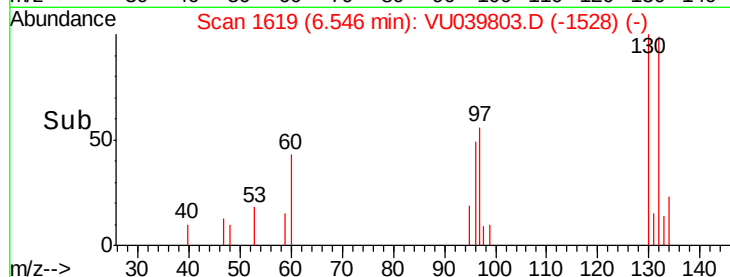
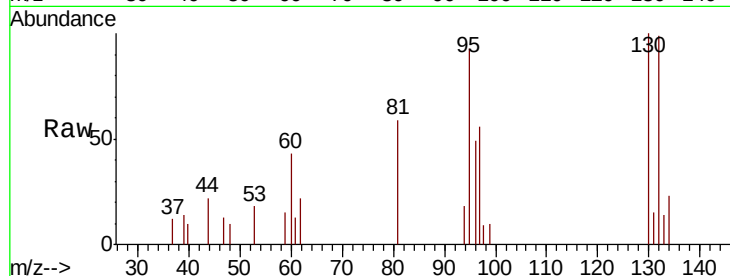
Ion Ratio Lower Upper

95 100

97 59.6 44.0 81.8

132 106.5 71.7 133.3

130 107.3 71.1 132.1



Abundance Ion 95.00 (94.70 to 95.70): VU039799.D (-1608) (-)

Ion 96.95 (96.65 to 97.65): VU039799.D (-1608) (-)

Ion 131.95 (131.65 to 132.65): VU039799.D (-1608) (-)

Ion 129.95 (129.65 to 130.65): VU039799.D (-1608) (-)

Time-->

6.55

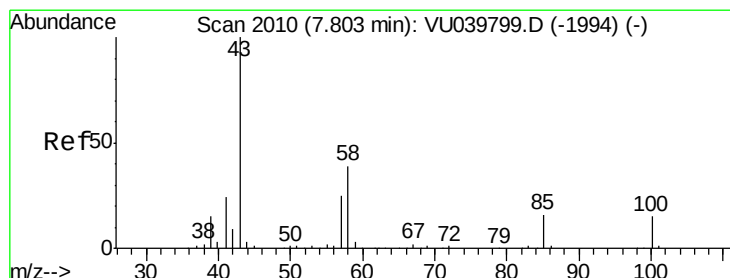
1500

1000

500

0

6.50 6.55 6.60



#40

4-Methyl-2-pentanone

Concen: 3.336 ug/L

RT: 7.81 min Scan# 2013

Delta R.T. 0.01 min

Lab File: VU039803.D

Acq: 08 Aug 2020 11:44

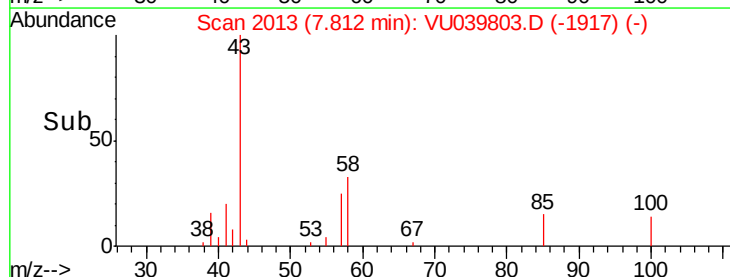
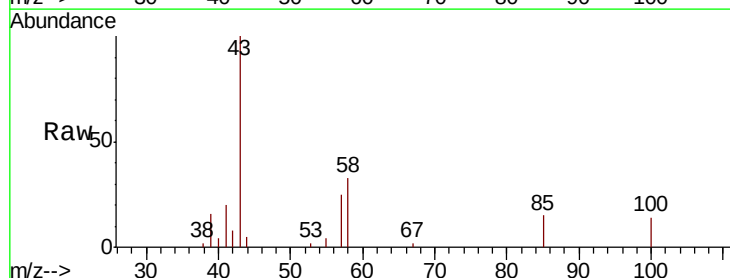
Tgt Ion: 43 Resp: 11884

Ion Ratio Lower Upper

43 100

58 33.8 29.4 44.2

100 13.4 11.7 17.5



Abundance Ion 43.05 (42.75 to 43.75): VU039799.D (-1994) (-)

Ion 58.05 (57.75 to 58.75): VU039799.D (-1994) (-)

Ion 100.15 (99.85 to 100.85): VU039799.D (-1994) (-)

Time-->

7.81

30000

25000

20000

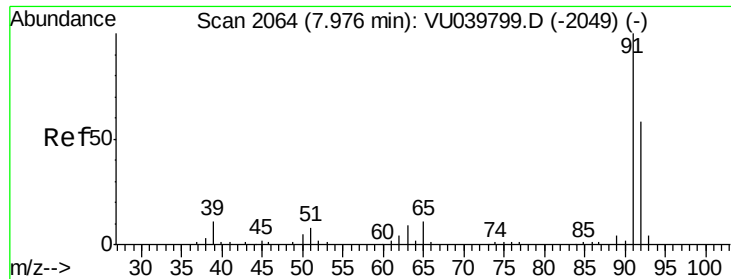
15000

10000

5000

0

7.75 7.80 7.85 7.90



#42

Toluene

Concen: 0.297 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU039803.D

Acq: 08 Aug 2020 11:44

Instrument :

MSVOA\_U

ClientSampleId :

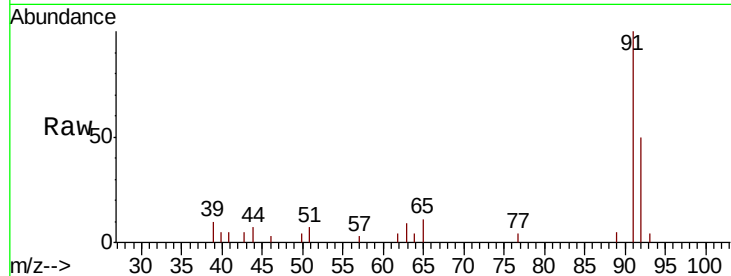
F4L17

Tot Ion: 91 Resp: 5609

Ion Ratio Lower Upper

91 100

92 50.4 41.6 77.3



Abundance Ion 91.15 (90.85 to 91.85): VU039799.D (-2049) (-)

Ion 92.15 (91.85 to 92.85): VU039799.D (-2049) (-)

7.97

4000

3000

2000

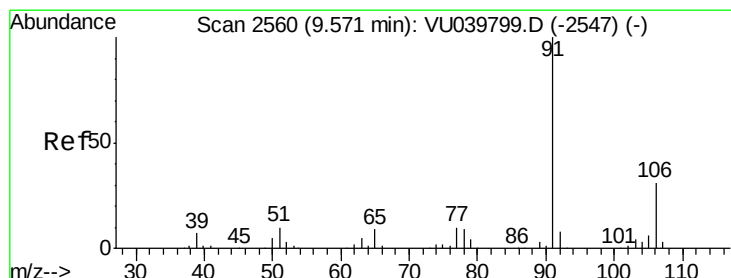
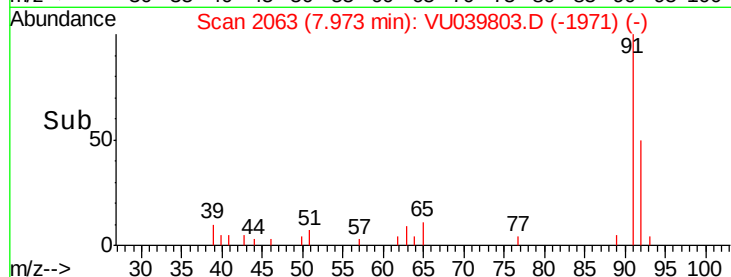
1000

0

7.95

8.00

Time-->



#52

Ethylbenzene

Concen: 0.083 ug/L

RT: 9.57 min Scan# 2559

Delta R.T. -0.00 min

Lab File: VU039803.D

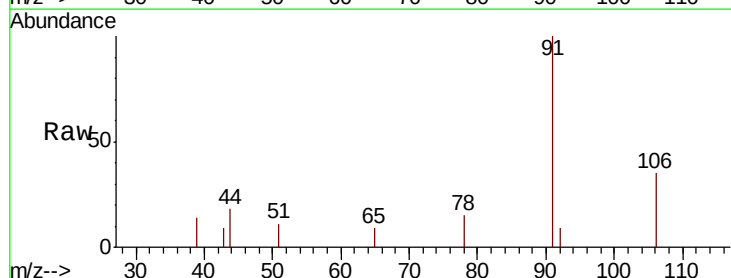
Acq: 08 Aug 2020 11:44

Tgt Ion: 91 Resp: 1749

Ion Ratio Lower Upper

91 100

106 35.4 22.8 42.4



Abundance Ion 91.15 (90.85 to 91.85): VU039799.D (-2547) (-)

Ion 106.15 (105.85 to 106.85): VU039799.D (-2547) (-)

9.57

1200

1000

800

600

400

200

0

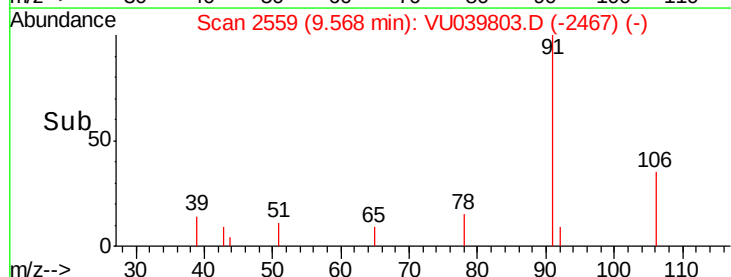
9.54

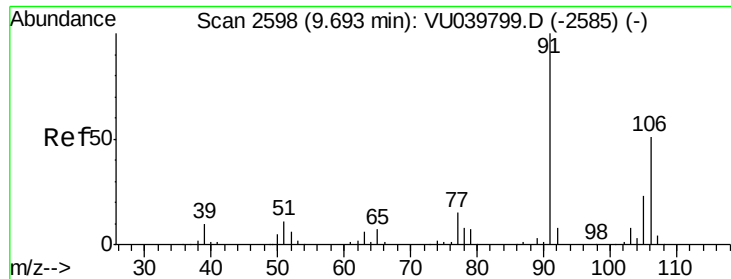
9.56

9.58

9.60

Time-->





#53

m,p-Xylene

Concen: 0.254 ug/L

RT: 9.69 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VU039803.D

Acq: 08 Aug 2020 11:44

Instrument :  
MSVOA\_U  
ClientSampleId :  
F4L17

Tot Ion:106 Resp: 2042

Ion Ratio Lower Upper

106 100

91 191.6 135.5 251.7

