

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121619\  
 Data File : VU036243.D  
 Acq On : 16 Dec 2019 18:56  
 Operator : JC/MD  
 Sample : K6275-09  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFDS5

Quant Time: Dec 17 03:40:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Dec 17 01:19:57 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 246237   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 265166   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 93276    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.62   | 65    | 80108    | 3.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 73.80%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 79158    | 4.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 81.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 85150    | 2.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 54.40%# |
| 20) 2-Butanone-d5              | 4.68   | 46    | 191677   | 47.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 94.36%  |
| 24) Chloroform-d               | 5.11   | 84    | 150086   | 4.30     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 86.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 81307    | 4.44     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.80%  |
| 32) Benzene-d6                 | 5.77   | 84    | 272586   | 4.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 81.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 90716    | 4.32     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 86.40%  |
| 41) Toluene-d8                 | 7.93   | 98    | 226869   | 3.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 72.40%  |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 33201    | 3.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 76.80%  |
| 46) 2-Hexanone-d5              | 8.68   | 63    | 146999   | 44.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 88.98%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 86382    | 4.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 90.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 79543    | 4.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 89.00%  |

## Target Compounds

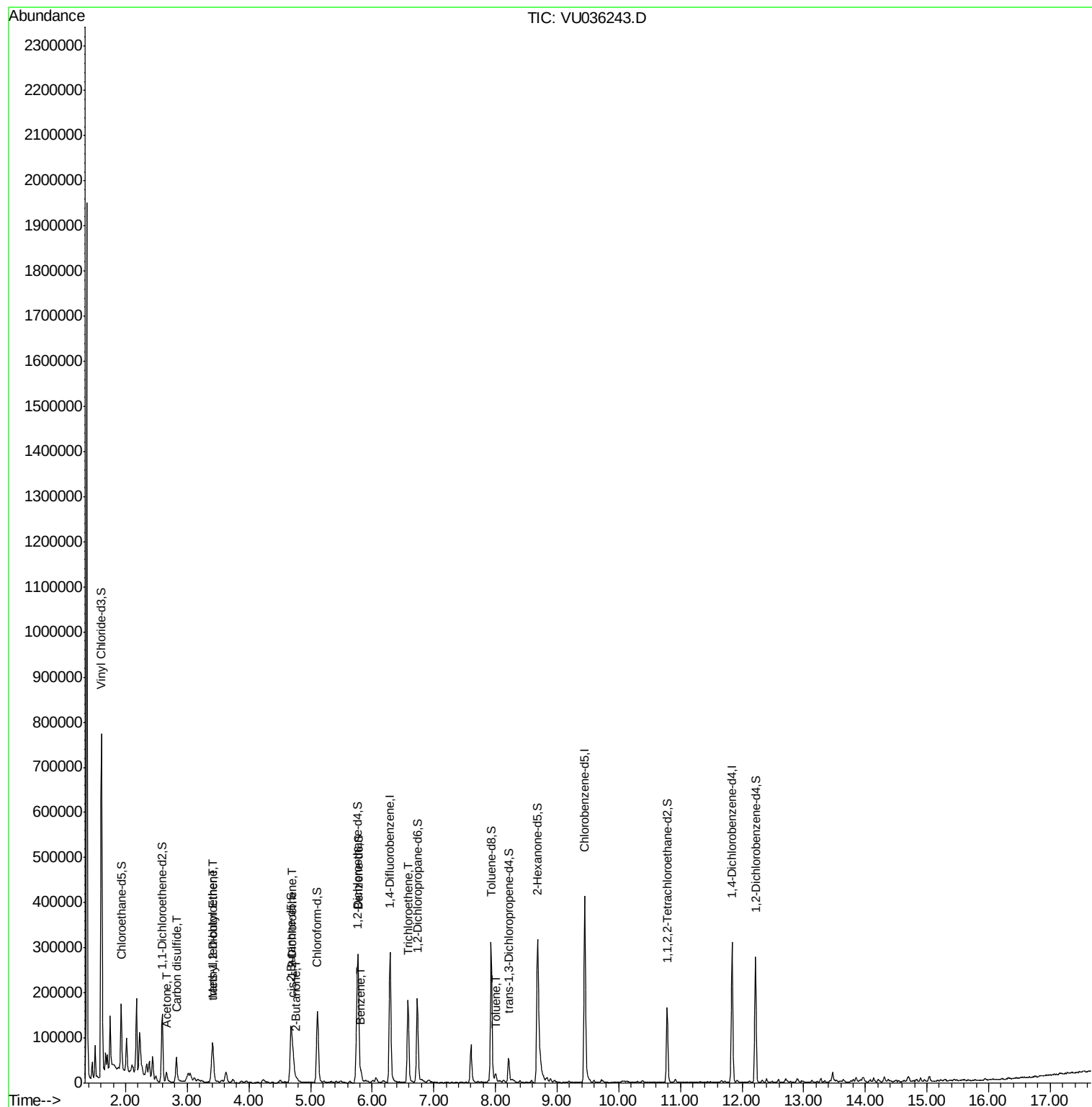
|                              |      |    |       |              | Ovalue |
|------------------------------|------|----|-------|--------------|--------|
| 13) Acetone                  | 2.66 | 43 | 21940 | 6.197 ug/L   | 91     |
| 14) Carbon disulfide         | 2.83 | 76 | 81320 | 1.327 ug/L   | 98     |
| 17) Methyl tert-butyl Ether  | 3.41 | 73 | 77170 | 1.971 ug/L # | 90     |
| 18) trans-1,2-Dichloroethene | 3.40 | 96 | 5109  | 0.267 ug/L   | 94     |
| 21) 2-Butanone               | 4.76 | 43 | 6862  | 1.450 ug/L   | 81     |
| 22) cis-1,2-Dichloroethene   | 4.72 | 96 | 23922 | 1.166 ug/L   | 98     |
| 33) Benzene                  | 5.82 | 78 | 15391 | 0.189 ug/L   | 100    |
| 34) Trichloroethene          | 6.58 | 95 | 64116 | 3.052 ug/L   | 97     |
| 42) Toluene                  | 8.01 | 91 | 12610 | 0.144 ug/L   | 92     |

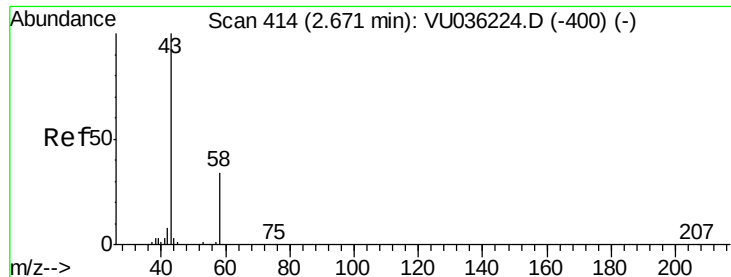
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 6.197 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.01 min

Lab File: VU036243.D

Acq: 16 Dec 2019 18:56

Instrument :

MSVOA\_U

ClientSampleId :

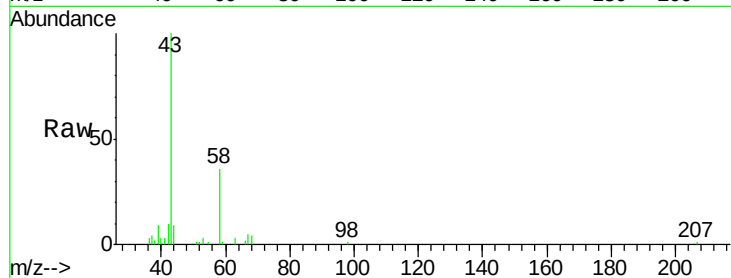
BFDS5

Tot Ion: 43 Resp: 21940

Ion Ratio Lower Upper

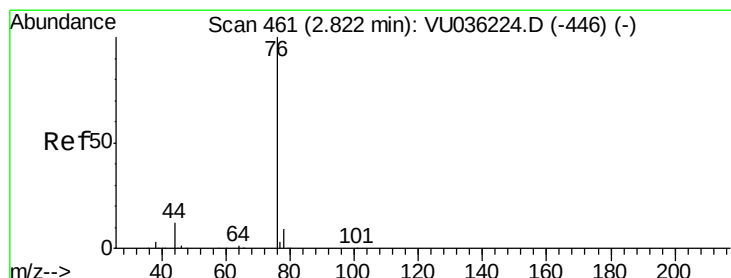
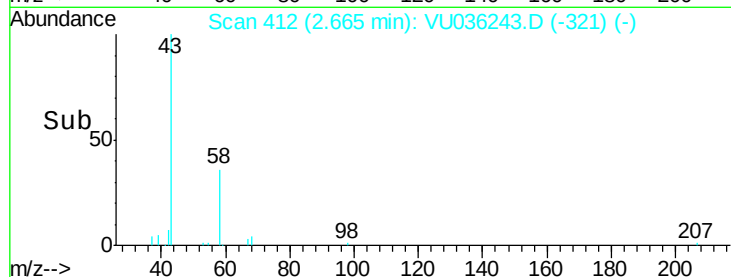
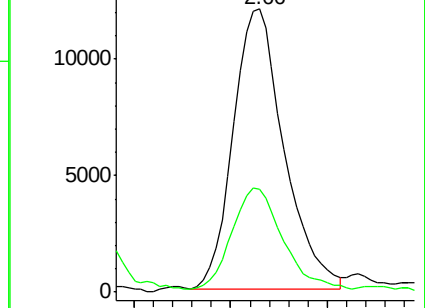
43 100

58 38.8 0.0 67.6



Abundance Ion 43.05 (42.75 to 43.75): VU036224.D (-400) (-)

Ion 58.05 (57.75 to 58.75): VU036224.D (-400) (-)



#14

Carbon disulfide

Concen: 1.327 ug/L

RT: 2.83 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU036243.D

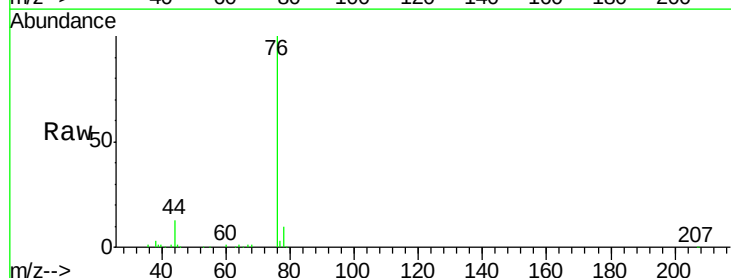
Acq: 16 Dec 2019 18:56

Tgt Ion: 76 Resp: 81320

Ion Ratio Lower Upper

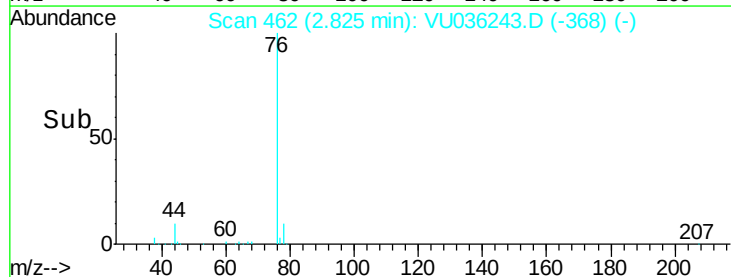
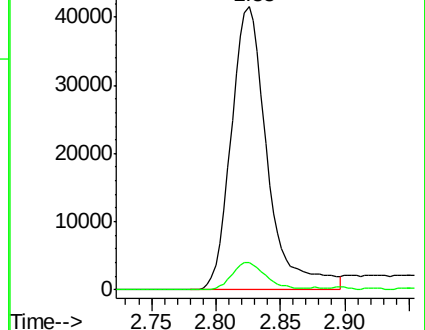
76 100

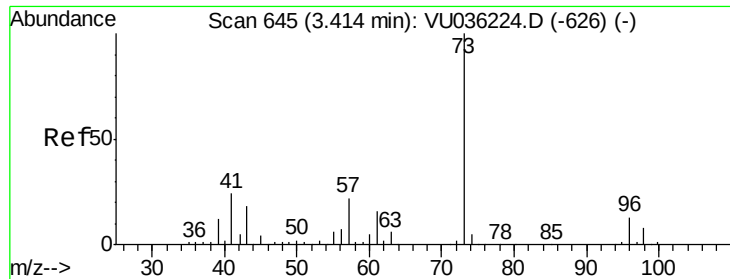
78 9.6 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU036224.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU036224.D (-446) (-)

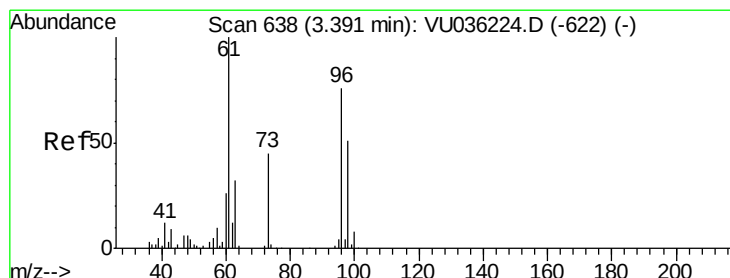
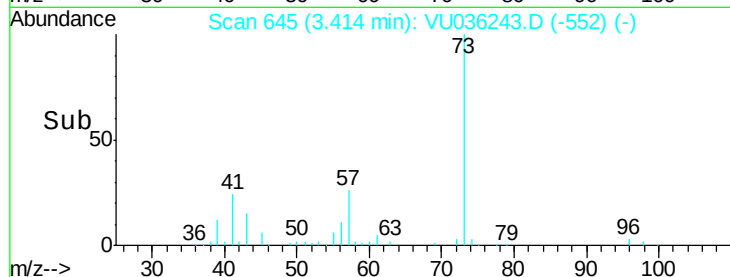
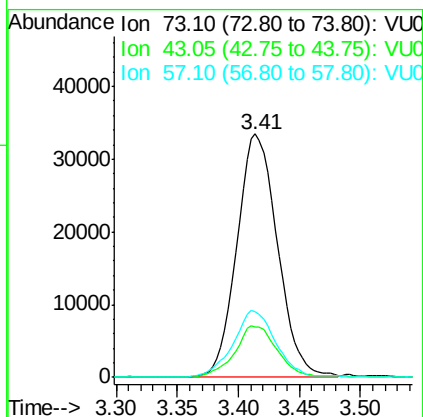
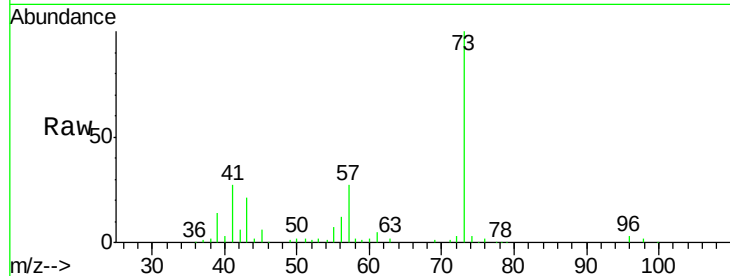




#17  
Methyl tert-butyl Ether  
Concen: 1.971 ug/L  
RT: 3.41 min Scan# 645  
Delta R.T. 0.00 min  
Lab File: VU036243.D  
Acq: 16 Dec 2019 18:56

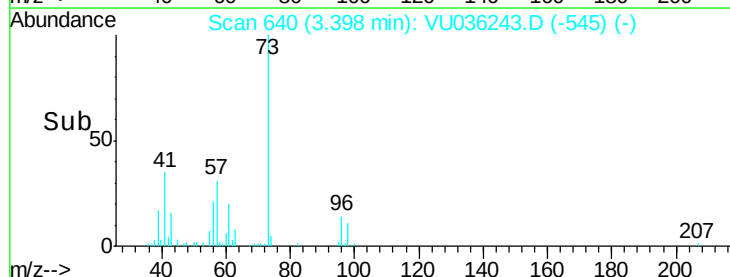
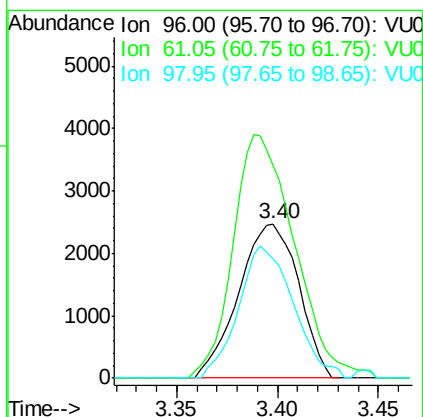
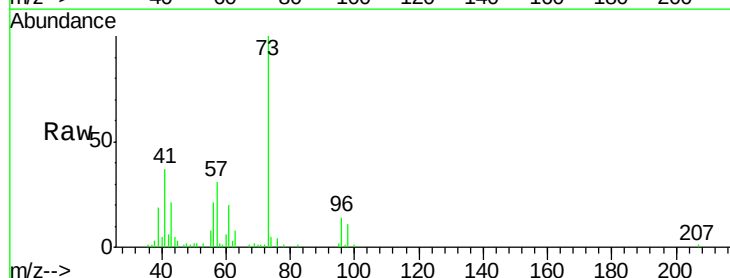
Instrument :  
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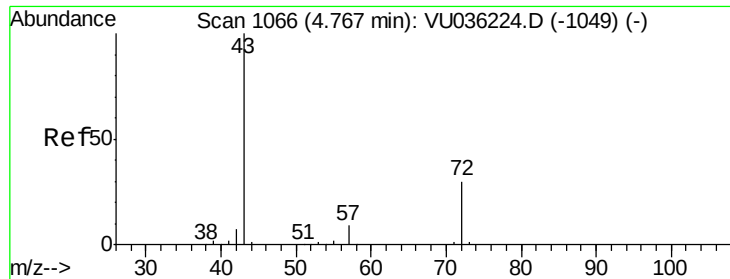
Tot Ion: 73 Resp: 77170  
Ion Ratio Lower Upper  
73 100  
43 22.1 15.3 22.9  
57 28.6 18.2 27.2#



#18  
trans-1,2-Dichloroethene  
Concen: 0.267 ug/L  
RT: 3.40 min Scan# 640  
Delta R.T. 0.01 min  
Lab File: VU036243.D  
Acq: 16 Dec 2019 18:56

Tgt Ion: 96 Resp: 5109  
Ion Ratio Lower Upper  
96 100  
61 138.0 94.8 176.2  
98 77.7 46.8 86.8





#21

2-Butanone

Concen: 1.450 ug/L

RT: 4.76 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VU036243.D

Acq: 16 Dec 2019 18:56

Instrument :

MSVOA\_U

ClientSampleId :

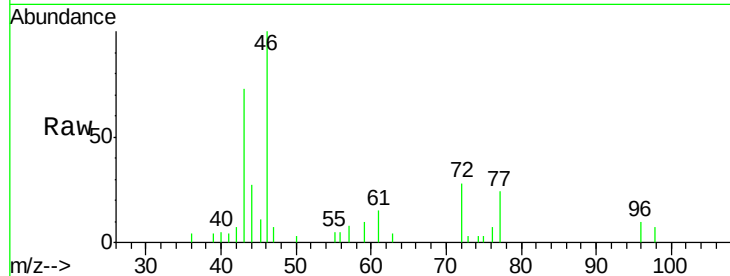
BFDS5

Tot Ion: 43 Resp: 6862

Ion Ratio Lower Upper

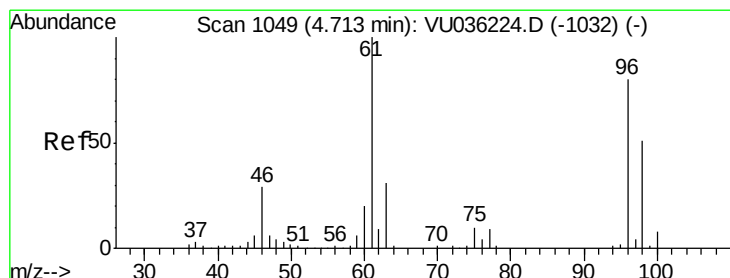
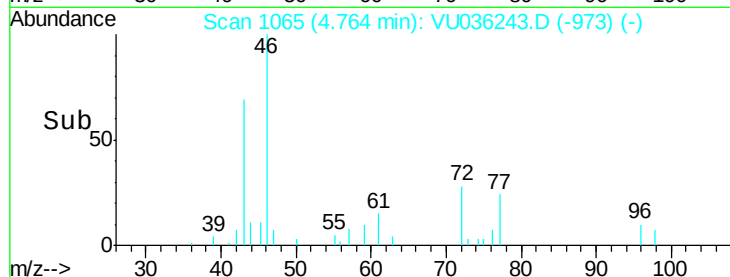
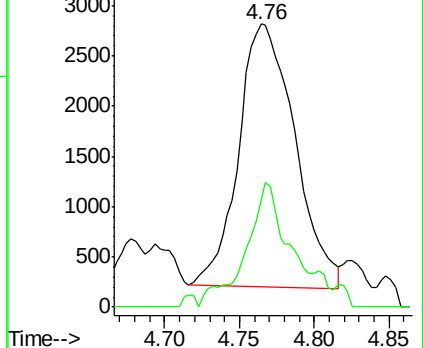
43 100

72 39.0 14.4 43.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 72.10 (71.80 to 72.80): VU0



#22

cis-1,2-Dichloroethene

Concen: 1.166 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU036243.D

Acq: 16 Dec 2019 18:56

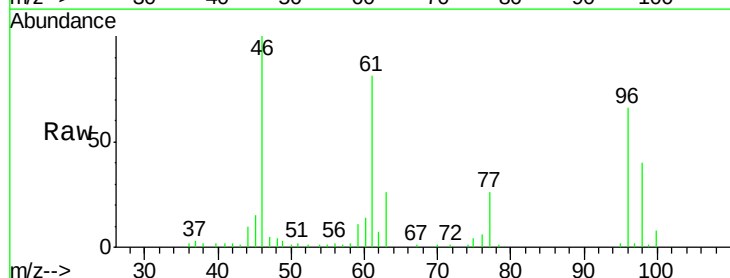
Tgt Ion: 96 Resp: 23922

Ion Ratio Lower Upper

96 100

61 121.9 86.7 161.1

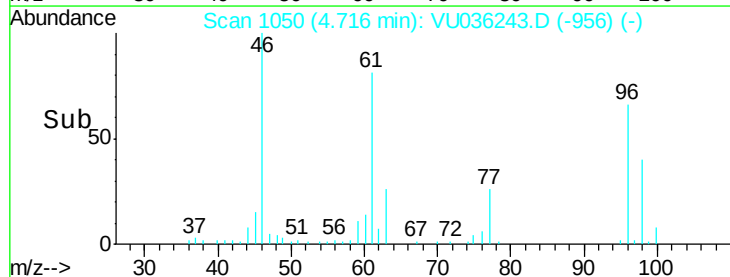
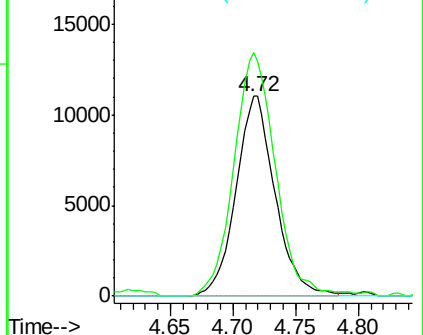
68 0.0 0.0 0.0

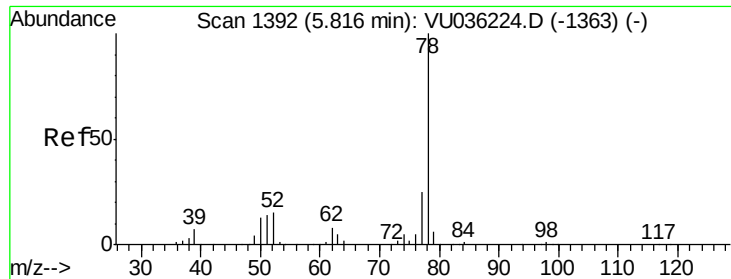


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0





#33

Benzene

Concen: 0.189 ug/L

RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

Lab File: VU036243.D

Acq: 16 Dec 2019 18:56

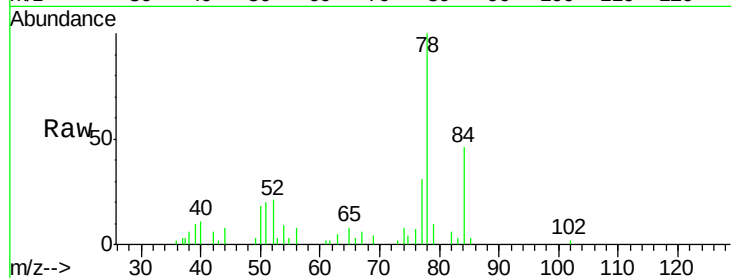
Instrument :

MSVOA\_U

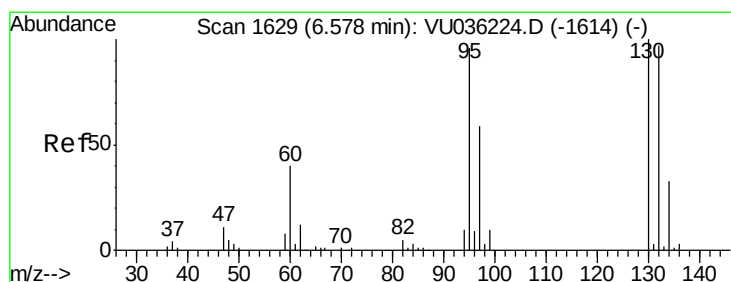
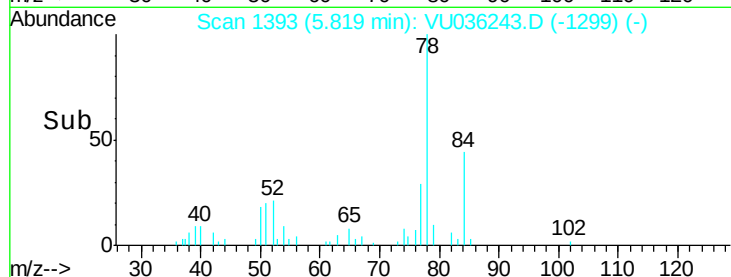
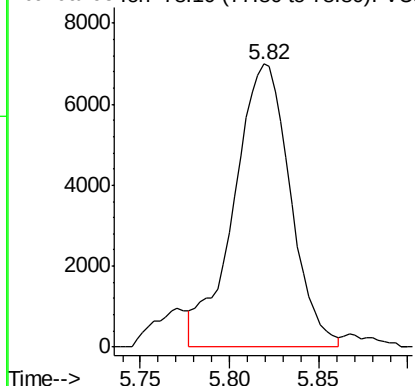
ClientSampleId :

BFDS5

Tgt Ion: 78 Resp: 15391



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 3.052 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036243.D

Acq: 16 Dec 2019 18:56

Tgt Ion: 95 Resp: 64116

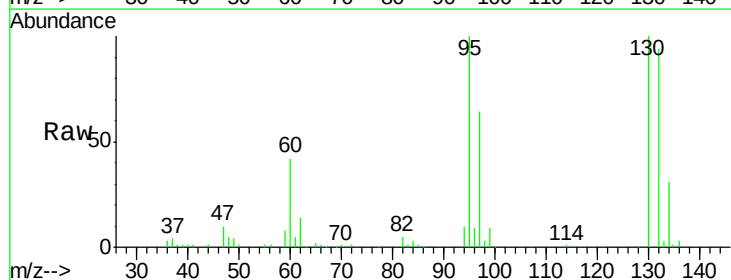
Ion Ratio Lower Upper

95 100

97 64.4 43.6 81.0

132 94.5 69.6 129.2

130 99.6 70.3 130.7

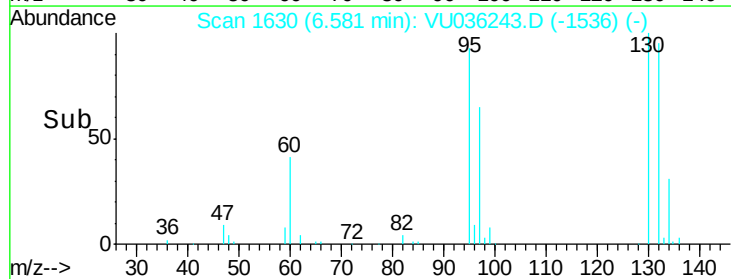
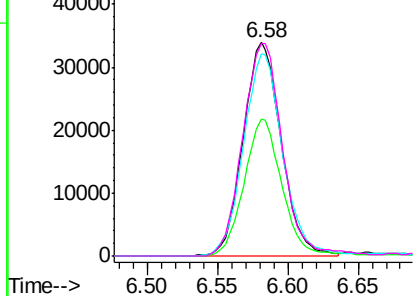


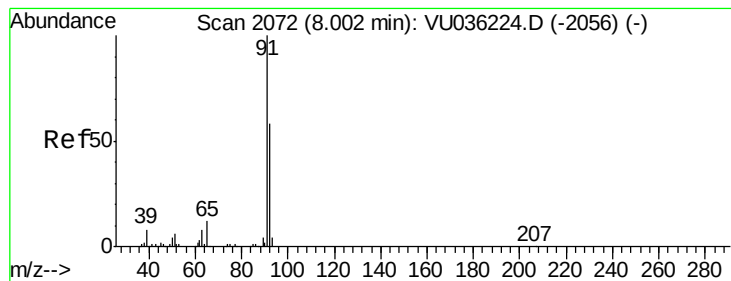
Abundance Ion 95.00 (94.70 to 95.70): VU0

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





#42

Toluene

Concen: 0.144 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VU036243.D

Acq: 16 Dec 2019 18:56

Instrument :

MSVOA\_U

ClientSampleId :

BFDS5

Tot Ion: 91 Resp: 12610

Ion Ratio Lower Upper

91 100

92 53.0 41.2 76.6

