

Data File : VU036234.D  
Acq On : 16 Dec 2019 15:17  
Operator : JC/MD  
Sample : K6273-21  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDR7DL

Quant Time: Dec 17 01:24:07 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  | 232571   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 256618   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 81922    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.62   | 65    | 85808    | 4.19     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 83.80% |
| 7) Chloroethane-d5             | 1.93   | 69    | 83728    | 4.56     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 91.20% |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 91788    | 3.11     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 62.20% |
| 20) 2-Butanone-d5              | 4.68   | 46    | 185638   | 48.38    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 96.76% |
| 24) Chloroform-d               | 5.11   | 84    | 132153   | 4.01     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 80.20% |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 85291    | 4.93     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.60% |
| 32) Benzene-d6                 | 5.77   | 84    | 284509   | 4.41     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.20% |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 96153    | 4.73     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.60% |
| 41) Toluene-d8                 | 7.93   | 98    | 236639   | 3.90     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 78.00% |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 35753    | 4.28     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 85.60% |
| 46) 2-Hexanone-d5              | 8.69   | 63    | 135062   | 42.24    | ug/L | 0.02   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 84.48% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79  | 84    | 84952    | 4.57     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 91.40% |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 74772    | 4.77     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 95.40% |

#### Target Compounds

|                              |       |    |        |              | Qvalue |
|------------------------------|-------|----|--------|--------------|--------|
| 5) Vinyl chloride            | 1.62  | 62 | 4933   | 0.160 ug/L # | 65     |
| 12) 1,1-Dichloroethene       | 2.60  | 96 | 1572   | 0.091 ug/L # | 1      |
| 13) Acetone                  | 2.66  | 43 | 7655   | 2.289 ug/L   | 94     |
| 14) Carbon disulfide         | 2.83  | 76 | 5710   | 0.099 ug/L   | 100    |
| 16) Methylene chloride       | 3.08  | 84 | 9736   | 0.384 ug/L   | 92     |
| 18) trans-1,2-Dichloroethene | 3.39  | 96 | 2666   | 0.148 ug/L   | 94     |
| 22) cis-1,2-Dichloroethene   | 4.72  | 96 | 17011  | 0.878 ug/L   | 96     |
| 25) Chloroform               | 5.14  | 83 | 23529  | 0.652 ug/L   | 97     |
| 34) Trichloroethene          | 6.58  | 95 | 192489 | 9.467 ug/L   | 97     |
| 35) Methylcyclohexane        | 6.73  | 83 | 22483  | 0.778 ug/L # | 18     |
| 37) 1,2-Dichloropropane      | 6.73  | 63 | 9244   | 0.459 ug/L # | 85     |
| 39) cis-1,3-Dichloropropene  | 7.60  | 75 | 2167   | 0.079 ug/L # | 75     |
| 48) 2-Hexanone               | 8.69  | 43 | 15793  | 2.011 ug/L # | 71     |
| 59) 1,2,3-Trichloropropane   | 11.84 | 75 | 8633   | 0.646 ug/L   | 94     |

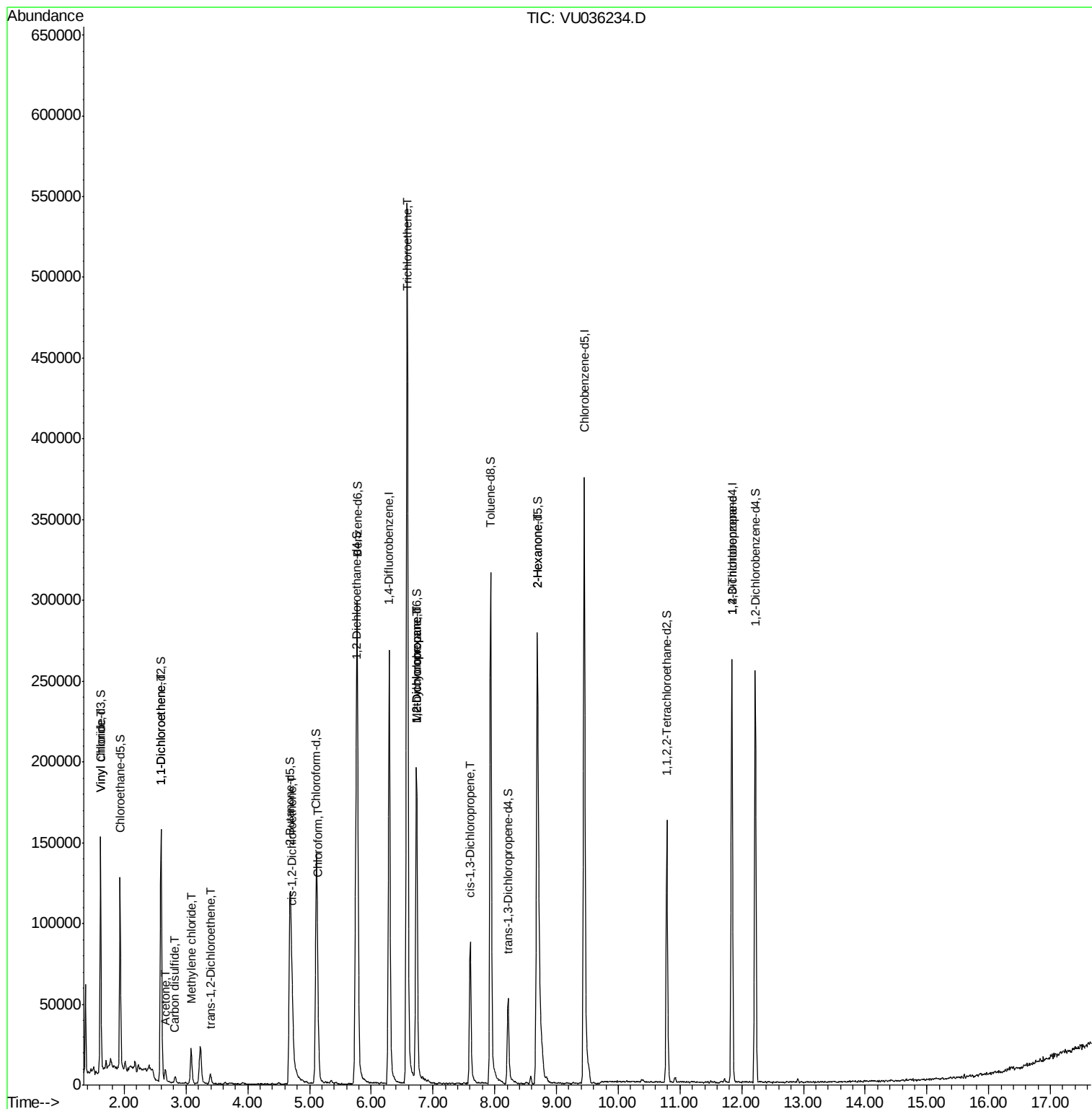
(#) = qualifier out of range (m) = manual integration (+) = signals summed

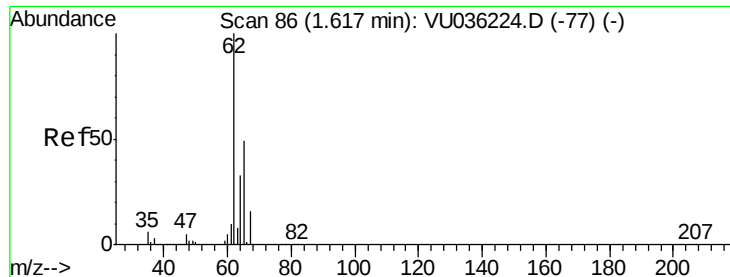
Data File : VU036234.D

```
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MSVOA\_U  
**ClientSampleId :**  
BFDR7DL

Quant Time: Dec 17 01:24:07 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





#5

Vinyl chloride

Concen: 0.160 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036234.D

Acq: 16 Dec 2019 15:17

Instrument :

MSVOA\_U

ClientSampleId :

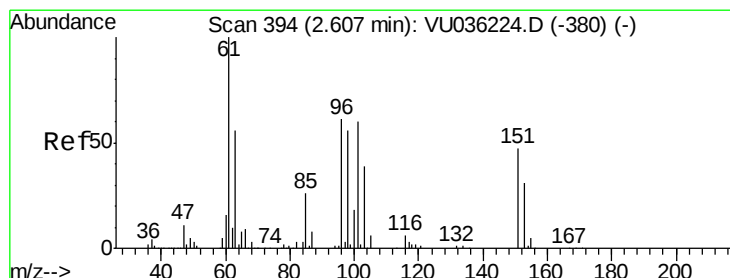
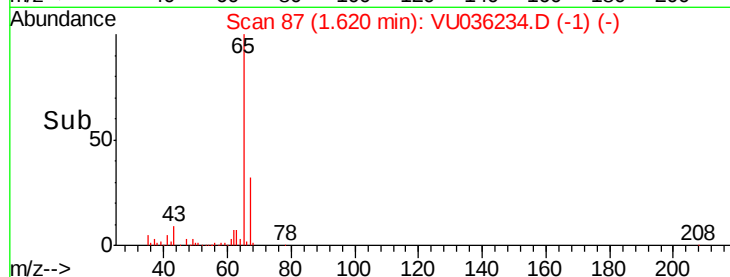
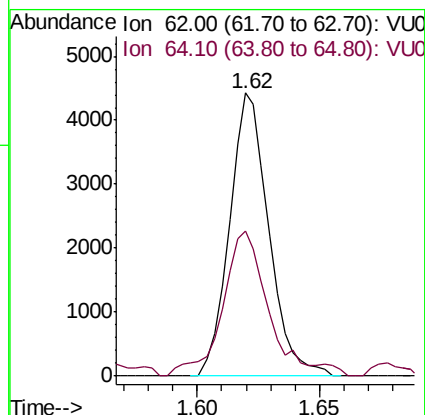
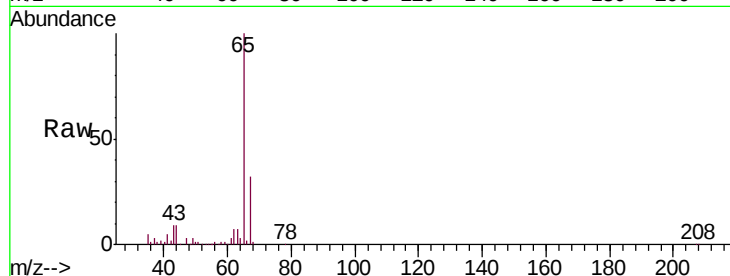
BFDR7DL

Tgt Ion: 62 Resp: 4933

Ion Ratio Lower Upper

62 100

64 51.5 22.4 41.6#



#12

1,1-Dichloroethene

Concen: 0.091 ug/L

RT: 2.60 min Scan# 391

Delta R.T. -0.01 min

Lab File: VU036234.D

Acq: 16 Dec 2019 15:17

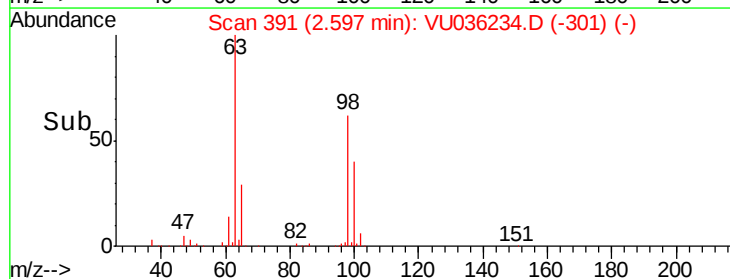
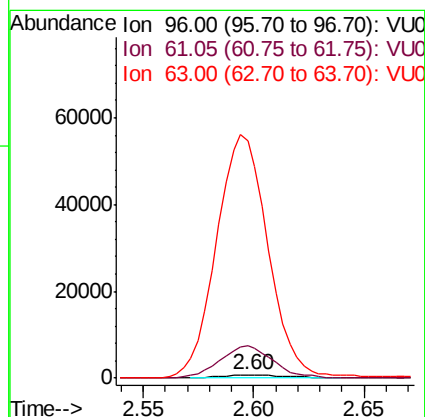
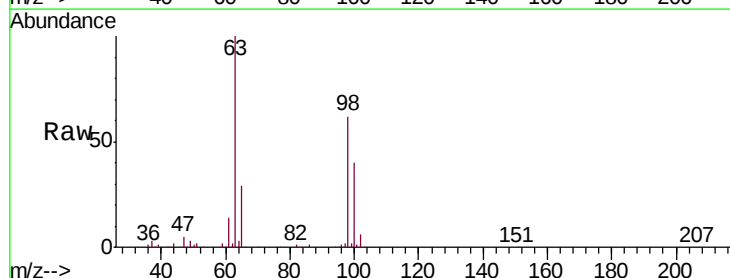
Tgt Ion: 96 Resp: 1572

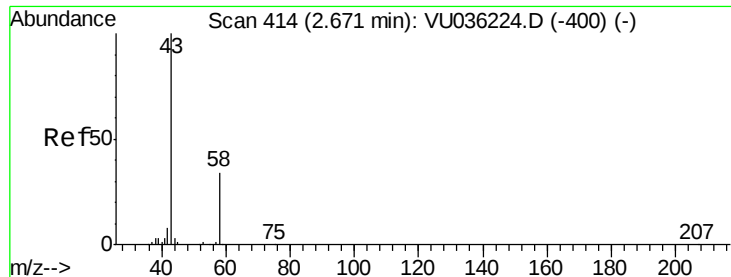
Ion Ratio Lower Upper

96 100

61 1032.4 114.0 211.8#

63 7486.7 63.6 118.0#





#13

Acetone

Concen: 2.289 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.01 min

Lab File: VU036234.D

Acq: 16 Dec 2019 15:17

Instrument :

MSVOA\_U

ClientSampleId :

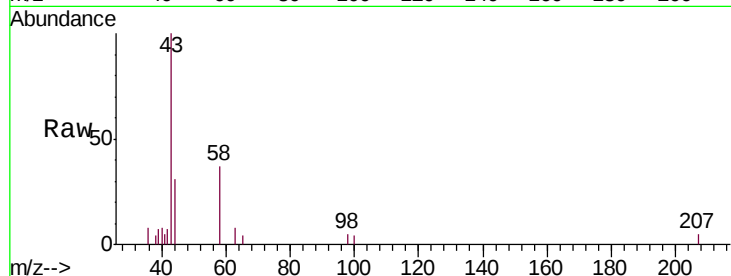
BFDR7DL

Tgt Ion: 43 Resp: 7655

Ion Ratio Lower Upper

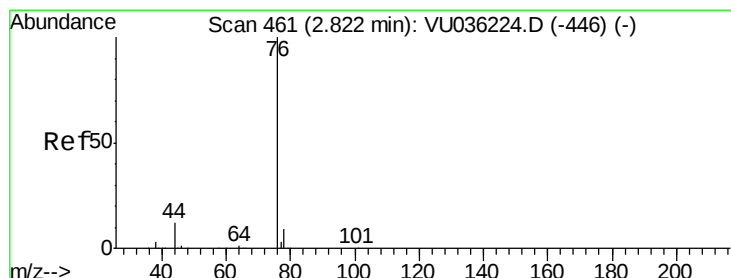
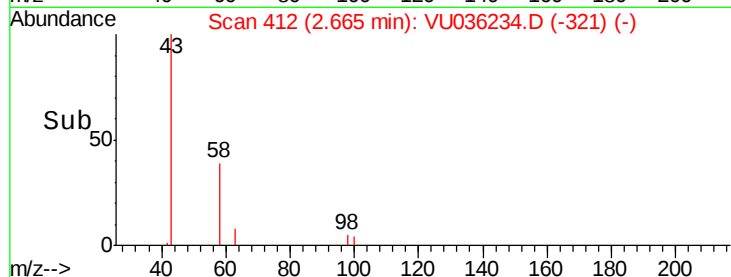
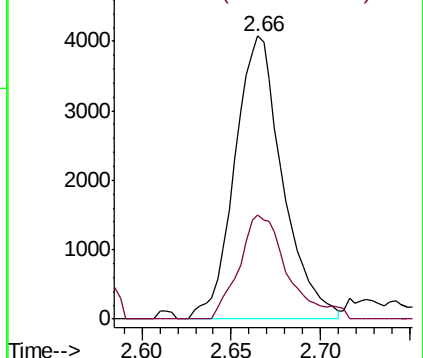
43 100

58 37.2 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: 0.099 ug/L

RT: 2.83 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU036234.D

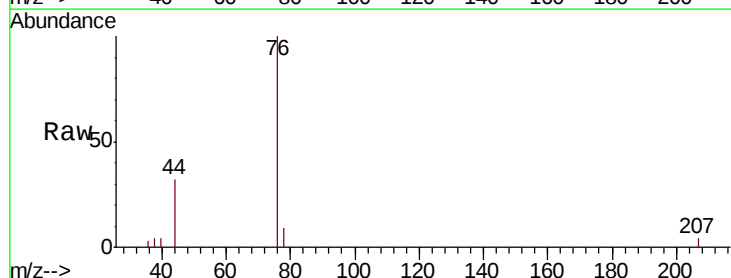
Acq: 16 Dec 2019 15:17

Tgt Ion: 76 Resp: 5710

Ion Ratio Lower Upper

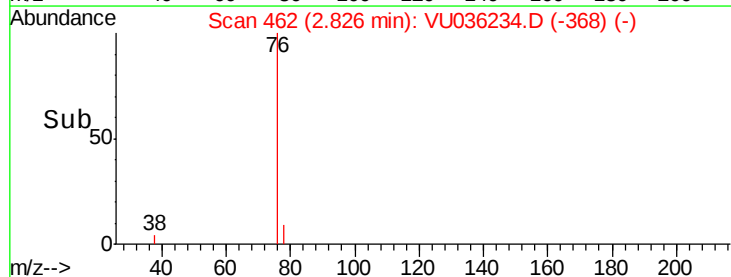
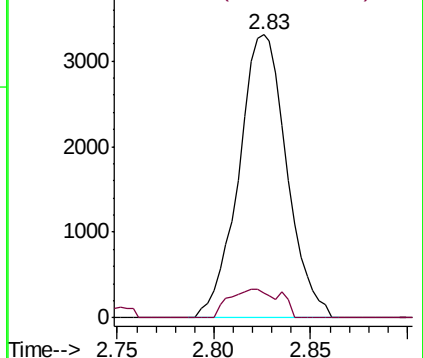
76 100

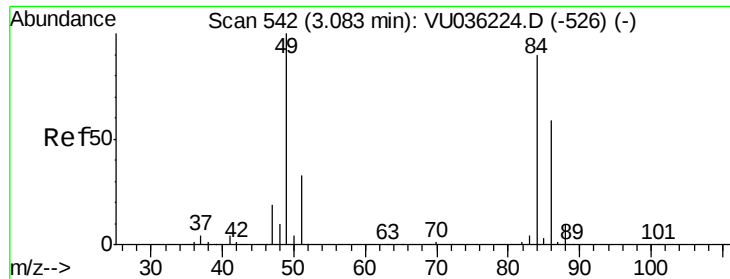
78 8.8 7.1 10.7



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

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

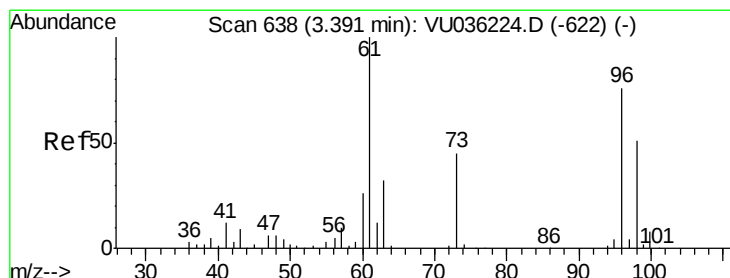
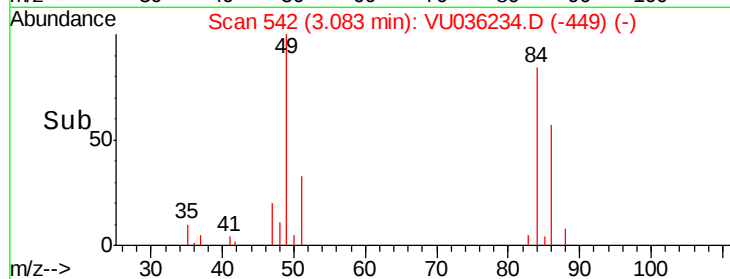
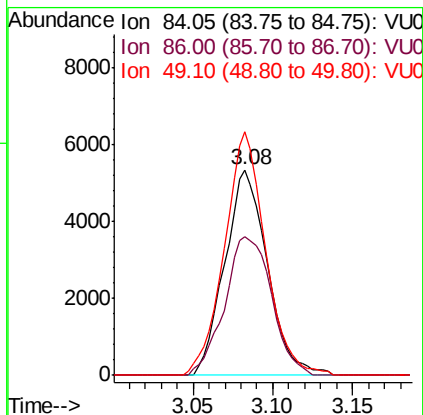
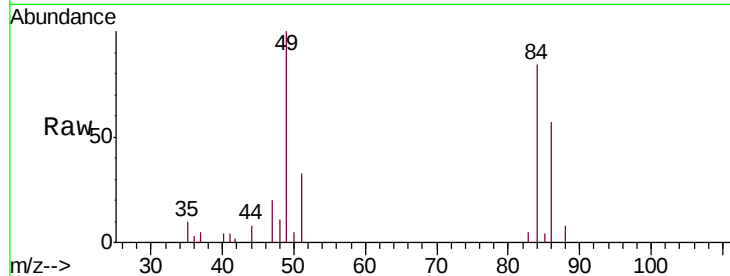




#16  
Methylene chloride  
Concen: 0.384 ug/L  
RT: 3.08 min Scan# 542  
Delta R.T. 0.00 min  
Lab File: VU036234.D  
Acq: 16 Dec 2019 15:17

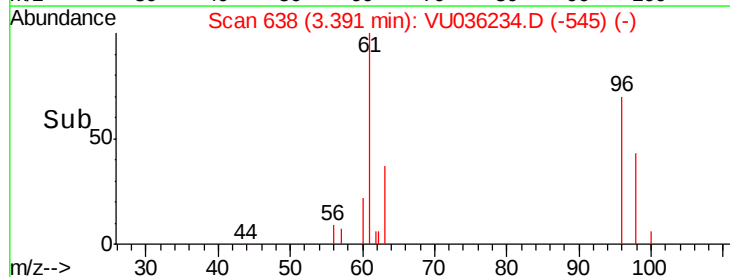
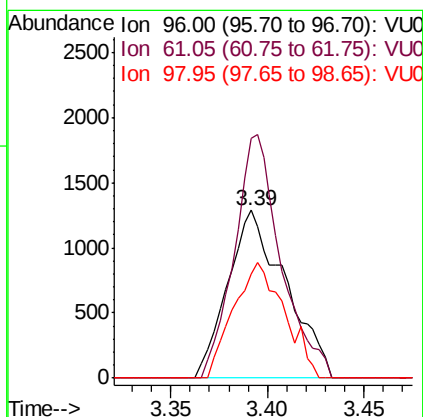
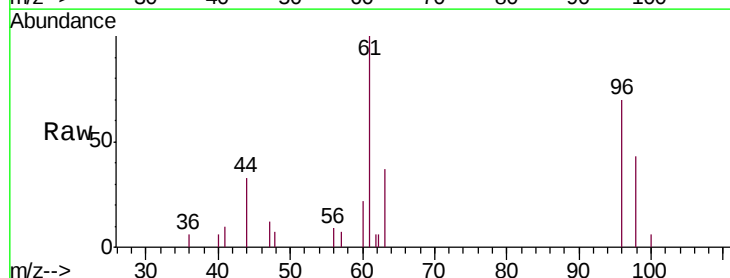
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDR7DL

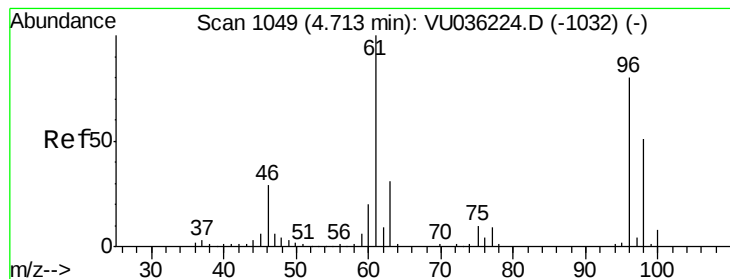
Tgt Ion: 84 Resp: 9736  
Ion Ratio Lower Upper  
84 100  
86 67.4 43.0 79.8  
49 118.7 77.3 143.5



#18  
trans-1,2-Dichloroethene  
Concen: 0.148 ug/L  
RT: 3.39 min Scan# 638  
Delta R.T. 0.00 min  
Lab File: VU036234.D  
Acq: 16 Dec 2019 15:17

Tgt Ion: 96 Resp: 2666  
Ion Ratio Lower Upper  
96 100  
61 142.7 94.8 176.2  
98 61.9 46.8 86.8





#22

cis-1,2-Dichloroethene

Concen: 0.878 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.01 min

Lab File: VU036234.D

Acq: 16 Dec 2019 15:17

Instrument :

MSVOA\_U

ClientSampleId :

BFDR7DL

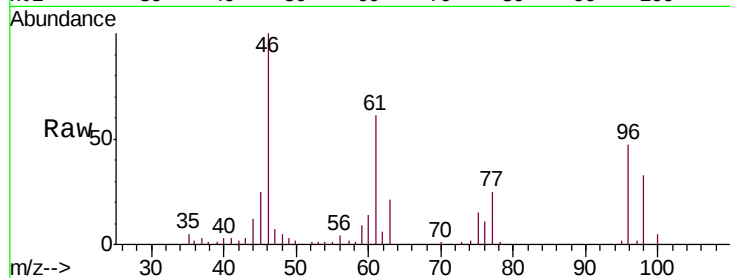
Tgt Ion: 96 Resp: 17011

Ion Ratio Lower Upper

96 100

61 128.6 86.7 161.1

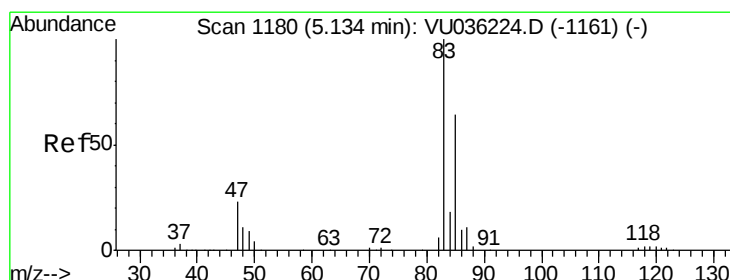
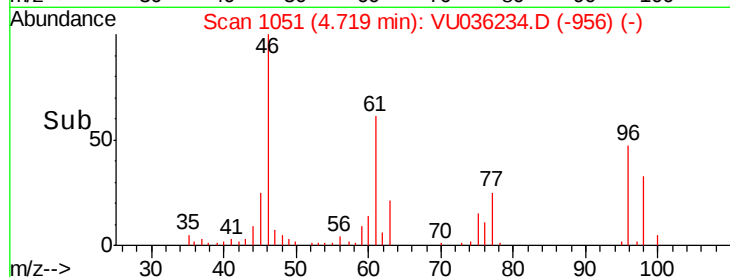
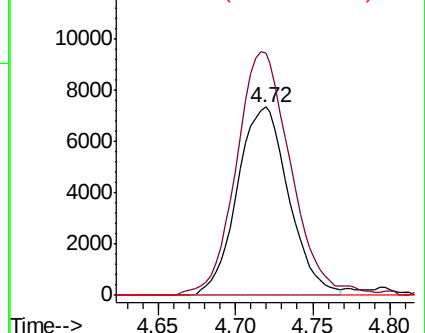
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036224.D (-1032) (-)

Ion 61.05 (60.75 to 61.75): VU036224.D (-1032) (-)

Ion 68.15 (67.85 to 68.85): VU036224.D (-1032) (-)



#25

Chloroform

Concen: 0.652 ug/L

RT: 5.14 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VU036234.D

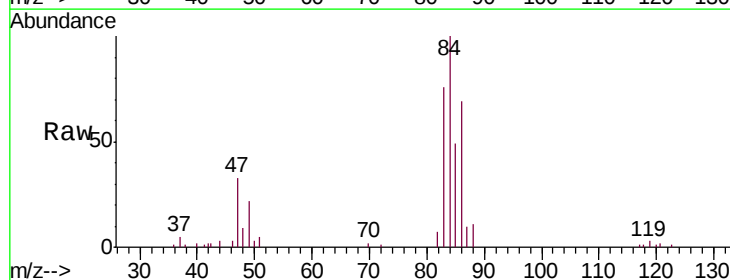
Acq: 16 Dec 2019 15:17

Tgt Ion: 83 Resp: 23529

Ion Ratio Lower Upper

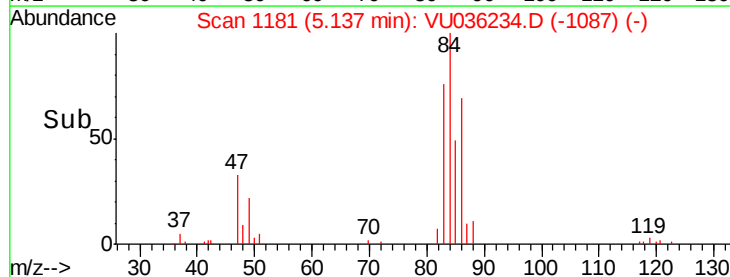
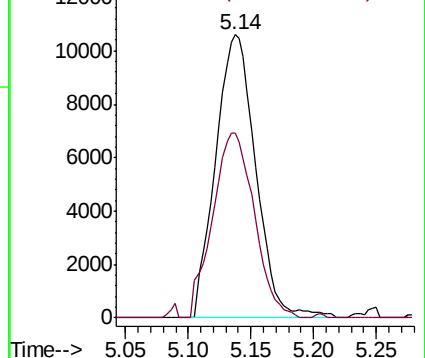
83 100

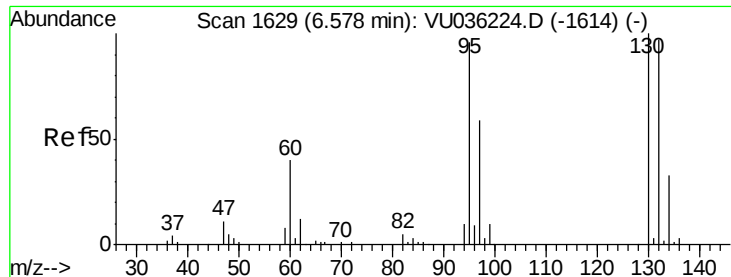
85 65.4 47.5 88.1



Abundance Ion 83.05 (82.75 to 83.75): VU036224.D (-1161) (-)

Ion 85.00 (84.70 to 85.70): VU036224.D (-1161) (-)

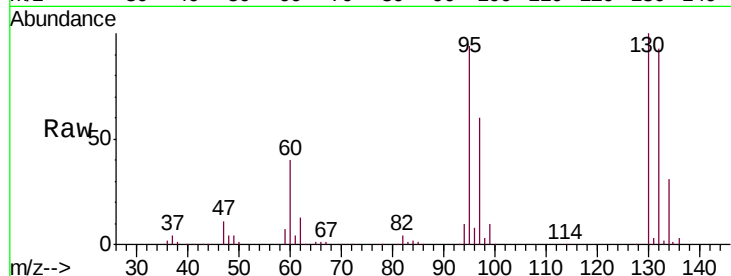




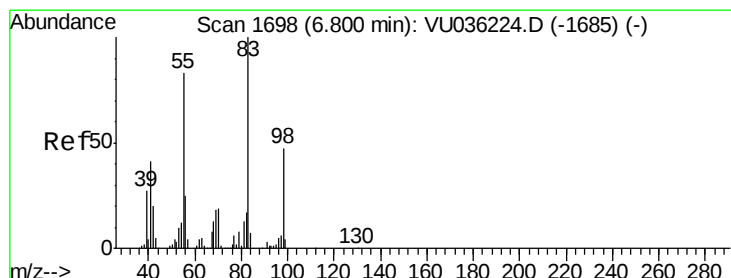
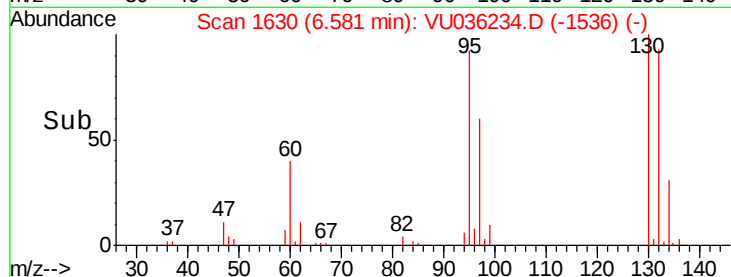
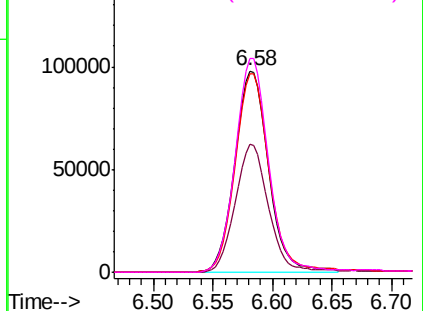
#34  
 Trichloroethene  
 Concen: 9.467 ug/L  
 RT: 6.58 min Scan# 1630  
 Delta R.T. 0.00 min  
 Lab File: VU036234.D  
 Acq: 16 Dec 2019 15:17

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFDR7DL

Tgt Ion: 95 Resp: 192489  
 Ion Ratio Lower Upper  
 95 100  
 97 63.5 43.6 81.0  
 132 98.6 69.6 129.2  
 130 106.1 70.3 130.7

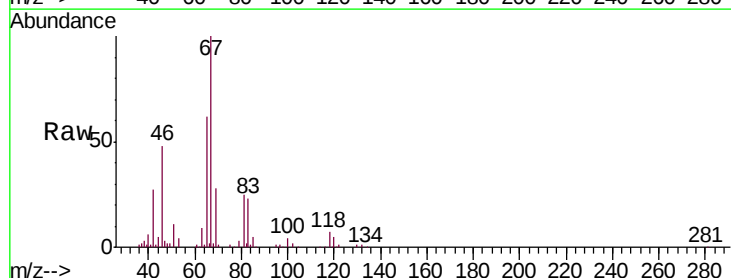


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 96.95 (96.65 to 97.65): VU0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

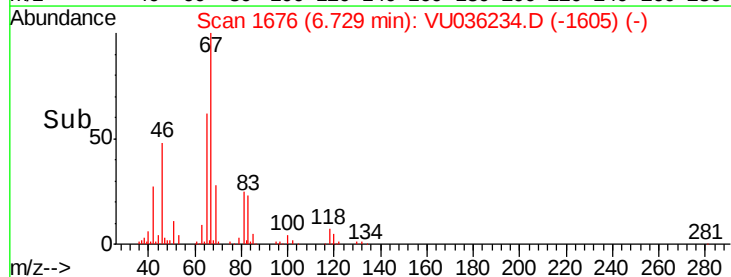
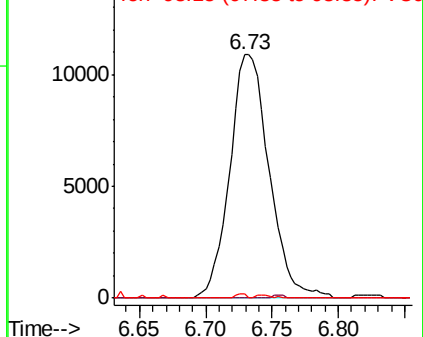


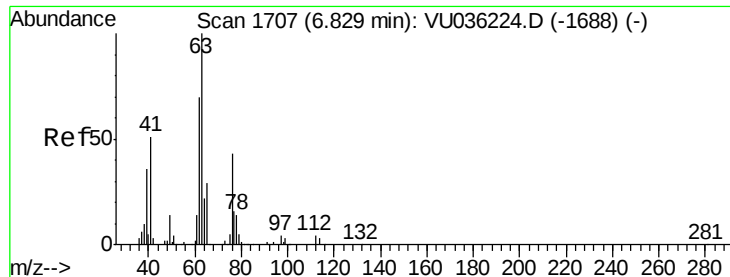
#35  
 Methylcyclohexane  
 Concen: 0.778 ug/L  
 RT: 6.73 min Scan# 1676  
 Delta R.T. -0.07 min  
 Lab File: VU036234.D  
 Acq: 16 Dec 2019 15:17

Tgt Ion: 83 Resp: 22483  
 Ion Ratio Lower Upper  
 83 100  
 55 0.3 62.6 94.0#  
 98 0.0 36.2 54.2#



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

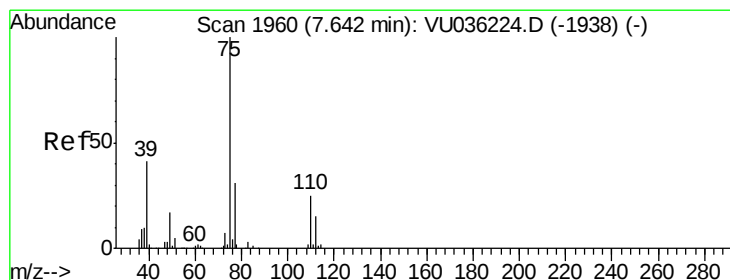
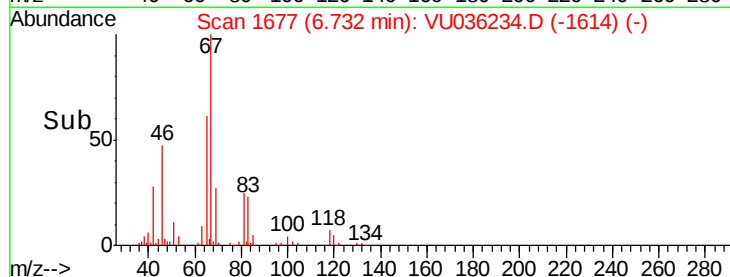
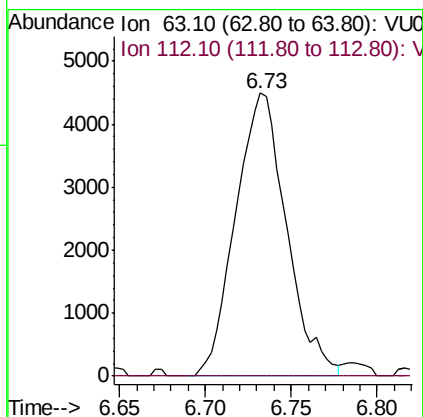
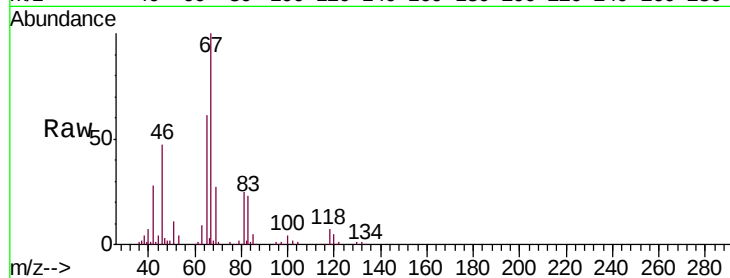




#37  
 1,2-Dichloropropane  
 Concen: 0.459 ug/L  
 RT: 6.73 min Scan# 1677  
 Delta R.T. -0.10 min  
 Lab File: VU036234.D  
 Acq: 16 Dec 2019 15:17

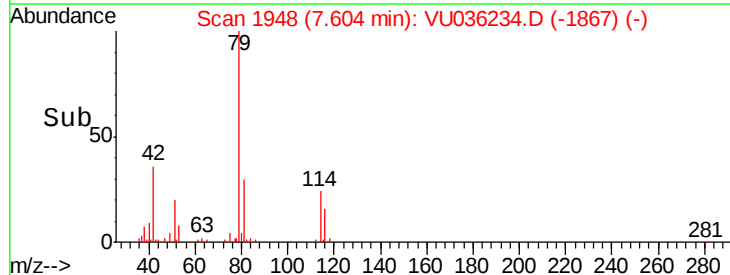
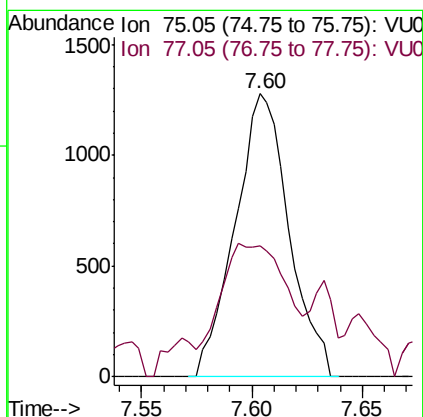
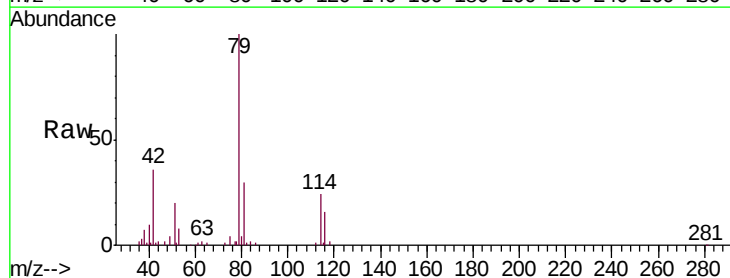
Instrument :  
 MSVOA\_U  
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 BFDR7DL

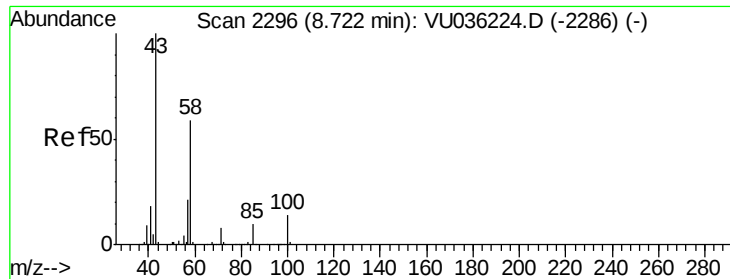
Tgt Ion: 63 Resp: 9244  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.8 5.8#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.079 ug/L  
 RT: 7.60 min Scan# 1948  
 Delta R.T. -0.04 min  
 Lab File: VU036234.D  
 Acq: 16 Dec 2019 15:17

Tgt Ion: 75 Resp: 2167  
 Ion Ratio Lower Upper  
 75 100  
 77 46.4 22.7 42.1#

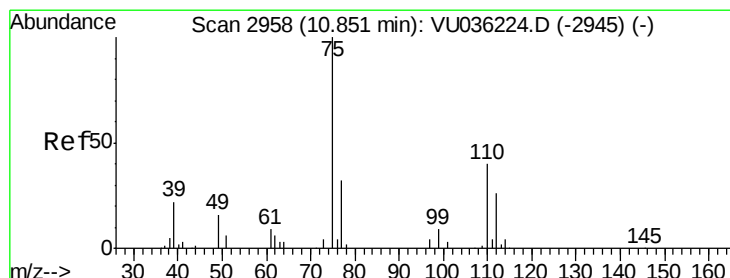
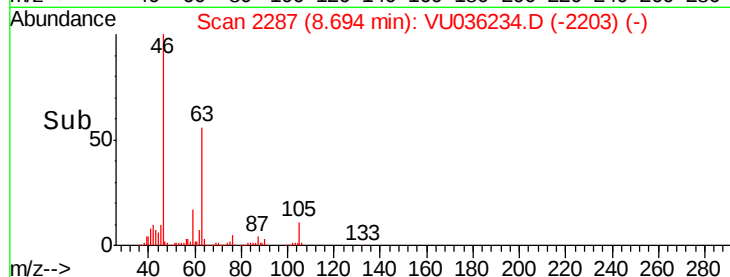
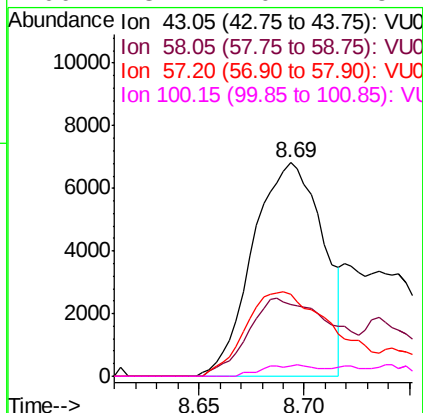
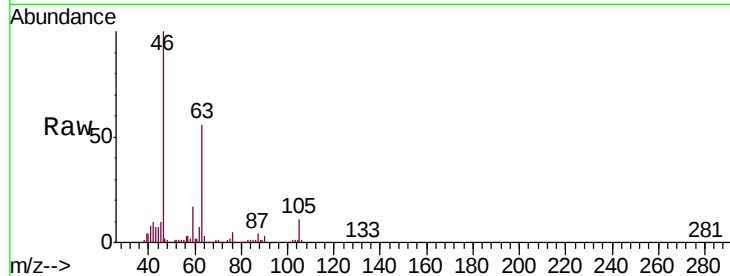




#48  
 2-Hexanone  
 Concen: 2.011 ug/L  
 RT: 8.69 min Scan# 2287  
 Delta R.T. -0.03 min  
 Lab File: VU036234.D  
 Acq: 16 Dec 2019 15:17

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 BFDR7DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 15793 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 44.3  | 46.2  | 69.2# |
| 57       | 49.7  | 16.2  | 24.4# |
| 100      | 3.7   | 10.2  | 15.4# |



#59  
 1,2,3-Trichloropropane  
 Concen: 0.646 ug/L  
 RT: 11.84 min Scan# 3266  
 Delta R.T. 0.99 min  
 Lab File: VU036234.D  
 Acq: 16 Dec 2019 15:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 8633  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 37.4  | 27.2  | 40.8  |

