

Data File : VU034665.D  
Acq On : 19 Sep 2019 22:36  
Operator : JC/SP  
Sample : K4895-11  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDH6

Quant Time: Sep 20 04:08:15 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Sep 20 04:02:05 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 487204   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 462026   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 209596   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 225605   | 45.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 90.46%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 178653   | 46.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 92.68%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 299025   | 35.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 70.80%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 370499   | 96.92    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 96.92%  |
| 24) Chloroform-d               | 4.62    | 84    | 343995   | 47.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.88%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 249309   | 46.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.54%  |
| 32) Benzene-d6                 | 5.32    | 84    | 691786   | 48.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.62%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 245985   | 49.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.28%  |
| 41) Toluene-d8                 | 7.54    | 98    | 654254   | 48.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.04%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 115165   | 48.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.08%  |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 257847   | 102.57   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 102.57% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 329570   | 47.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 94.90%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 224718   | 51.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.26% |

#### Target Compounds

|                             |       |     |        |               | Qvalue |
|-----------------------------|-------|-----|--------|---------------|--------|
| 13) Acetone                 | 2.31  | 43  | 47409  | 10.662 ug/L   | 100    |
| 15) Methyl Acetate          | 2.61  | 43  | 5209   | 0.877 ug/L #  | 82     |
| 16) Methylene chloride      | 2.68  | 84  | 6876   | 1.703 ug/L    | 94     |
| 22) 2-Butanone              | 4.25  | 43  | 10713  | 2.025 ug/L    | 86     |
| 33) Benzene                 | 5.37  | 78  | 39498  | 2.465 ug/L    | 100    |
| 34) Trichloroethene         | 6.17  | 95  | 3723   | 0.941 ug/L    | 95     |
| 35) Methylcyclohexane       | 6.40  | 83  | 9449   | 1.407 ug/L #  | 86     |
| 39) cis-1,3-Dichloropropene | 7.21  | 75  | 8626   | 1.203 ug/L    | 85     |
| 40) 4-Methyl-2-pentanone    | 7.44  | 43  | 40268  | 4.420 ug/L    | 93     |
| 42) Toluene                 | 7.61  | 91  | 125552 | 72.501 ug/L   | 100    |
| 48) 2-Hexanone              | 8.40  | 43  | 106241 | 14.933 ug/L # | 1      |
| 52) Ethylbenzene            | 9.23  | 91  | 181199 | 9.292 ug/L    | 98     |
| 53) m,p-Xylene              | 9.35  | 106 | 253306 | 36.673 ug/L   | 98     |
| 54) o-xylene                | 9.76  | 106 | 189011 | 27.666 ug/L   | 96     |
| 55) Styrene                 | 9.75  | 104 | 11251  | 0.973 ug/L #  | 1      |
| 56) Isopropylbenzene        | 10.14 | 105 | 20540  | 1.115 ug/L    | 100    |
| 65) 1,2-Dichlorobenzene     | 11.86 | 146 | 15885  | 2.166 ug/L #  | 94     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU091919\  
Quantitation Report (Not Reviewed)

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Sep 20 04:02:05 2019  
Response via : Initial Calibration

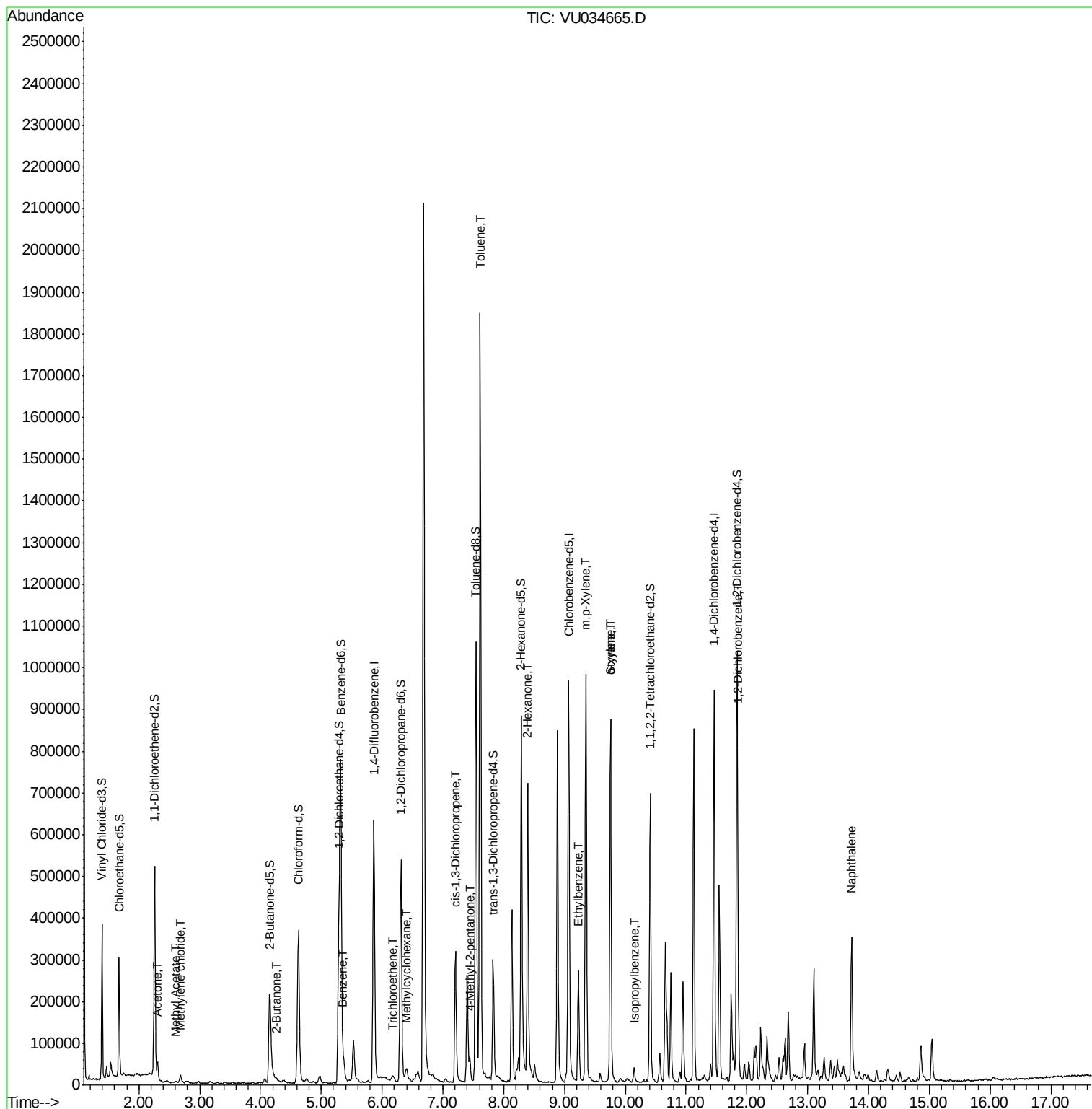
| Internal Standards | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------|-------|------|----------|--------|-------|----------|
| 69) Naphthalene    | 13.72 | 128  | 269533   | 20.358 | ug/L  | 98       |

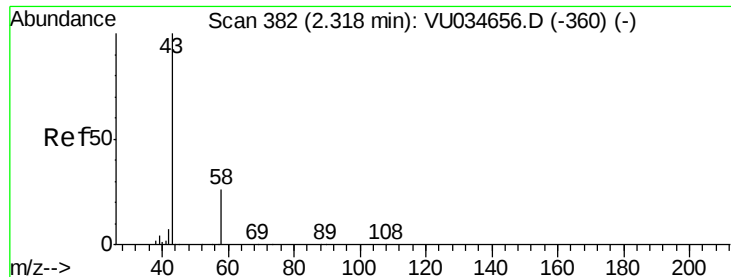
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis  
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Response via : Initial Calibration





#13

Acetone

Concen: 10.662 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VU034665.D

Acq: 19 Sep 2019 22:36

Instrument :

MSVOA\_U

ClientSampleId :

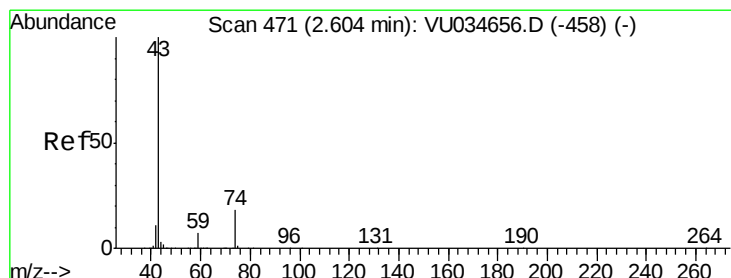
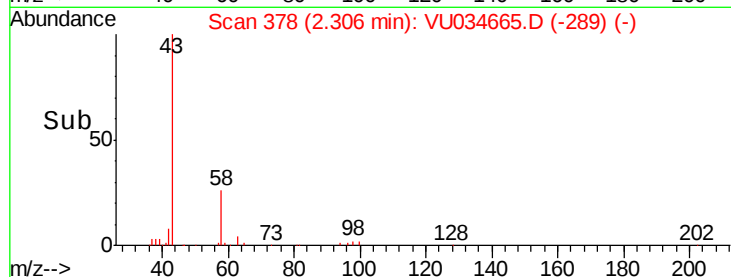
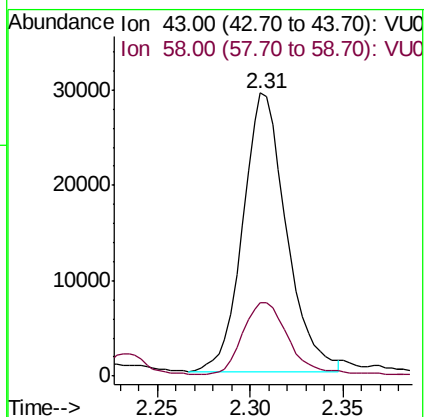
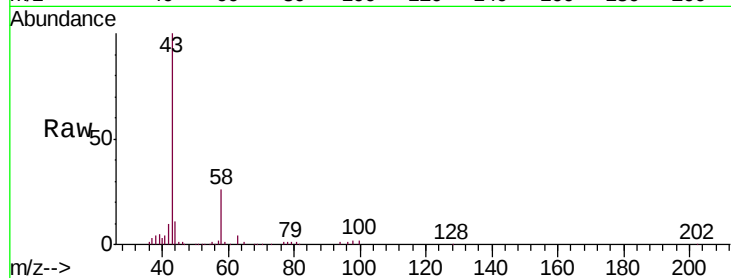
BFDH6

Tgt Ion: 43 Resp: 47409

Ion Ratio Lower Upper

43 100

58 26.7 0.0 53.4



#15

Methyl Acetate

Concen: 0.877 ug/L

RT: 2.61 min Scan# 472

Delta R.T. 0.00 min

Lab File: VU034665.D

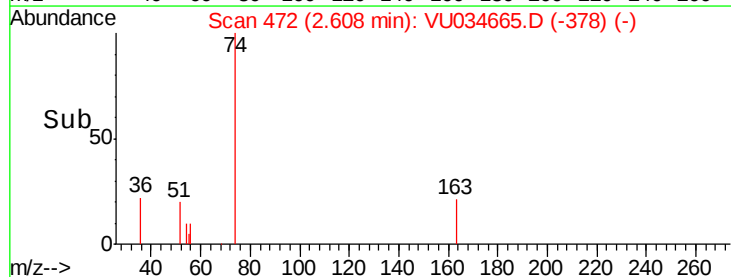
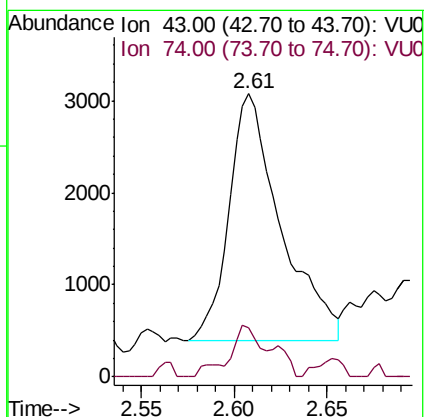
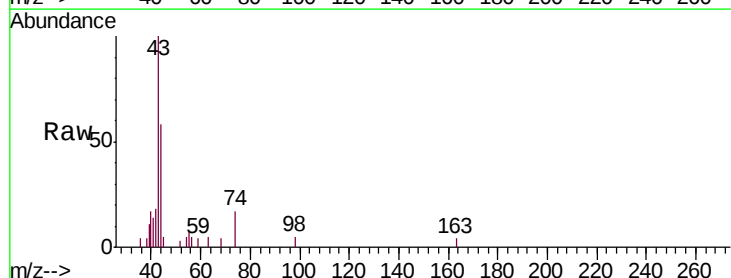
Acq: 19 Sep 2019 22:36

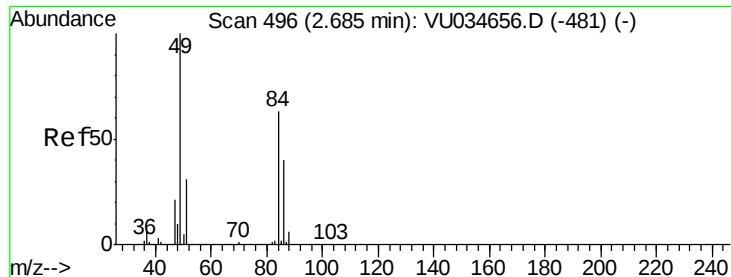
Tgt Ion: 43 Resp: 5209

Ion Ratio Lower Upper

43 100

74 10.0 14.4 21.6#

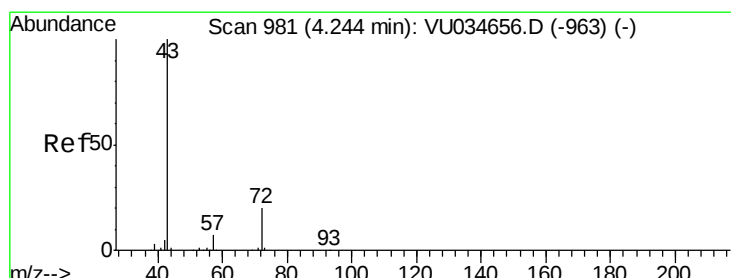
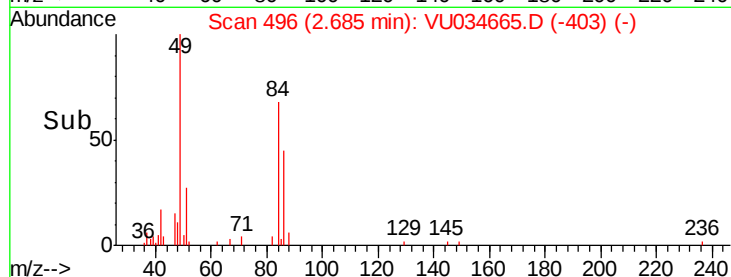
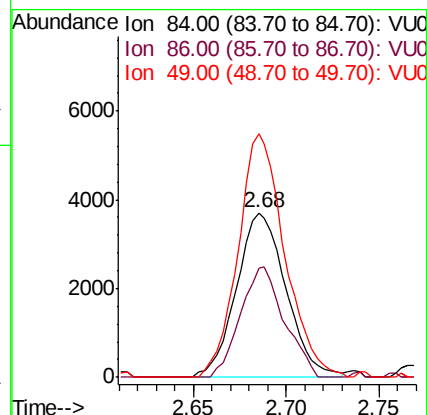
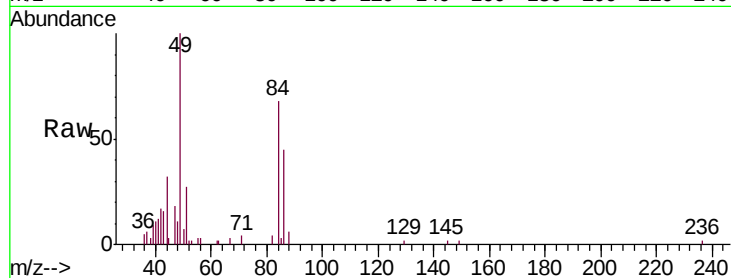




#16  
Methylene chloride  
Concen: 1.703 ug/L  
RT: 2.68 min Scan# 496  
Delta R.T. 0.00 min  
Lab File: VU034665.D  
Acq: 19 Sep 2019 22:36

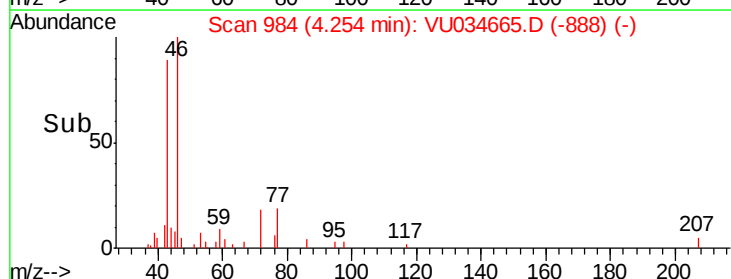
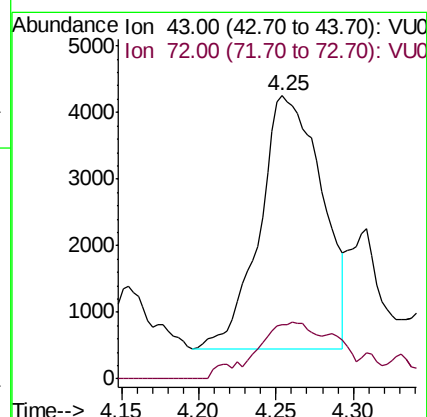
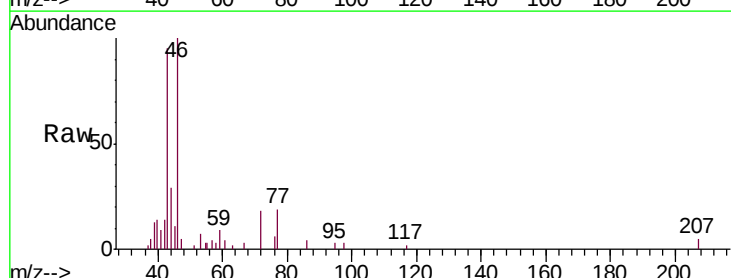
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDH6

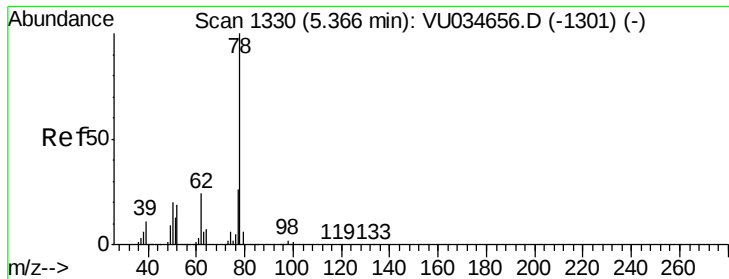
Tgt Ion: 84 Resp: 6876  
Ion Ratio Lower Upper  
84 100  
86 66.2 43.0 80.0  
49 148.1 109.7 203.7



#22  
2-Butanone  
Concen: 2.025 ug/L  
RT: 4.25 min Scan# 984  
Delta R.T. 0.01 min  
Lab File: VU034665.D  
Acq: 19 Sep 2019 22:36

Tgt Ion: 43 Resp: 10713  
Ion Ratio Lower Upper  
43 100  
72 13.8 10.2 30.6





#33

Benzene

Concen: 2.465 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VU034665.D

Acq: 19 Sep 2019 22:36

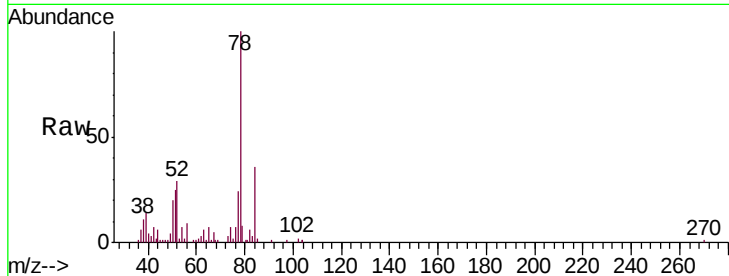
Instrument :

MSVOA\_U

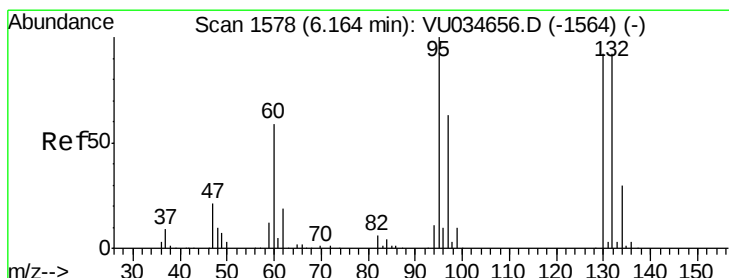
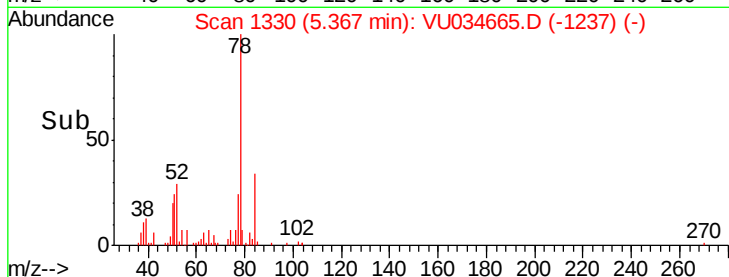
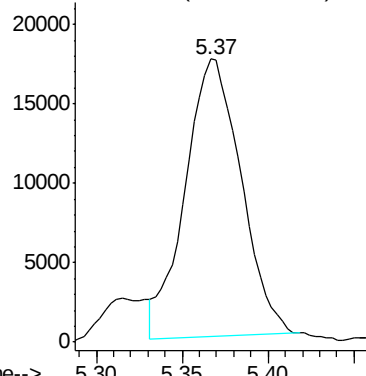
ClientSampleId :

BFDH6

Tgt Ion: 78 Resp: 39498



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 0.941 ug/L

RT: 6.17 min Scan# 1580

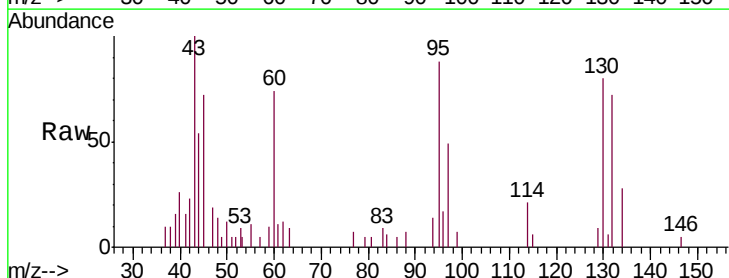
Delta R.T. 0.01 min

Lab File: VU034665.D

Acq: 19 Sep 2019 22:36

Tgt Ion: 95 Resp: 3723

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 56.1  | 43.7  | 81.1  |
| 132 | 82.7  | 61.0  | 113.2 |
| 130 | 91.2  | 65.7  | 121.9 |

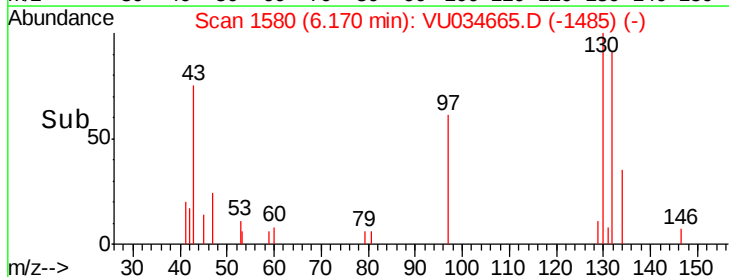
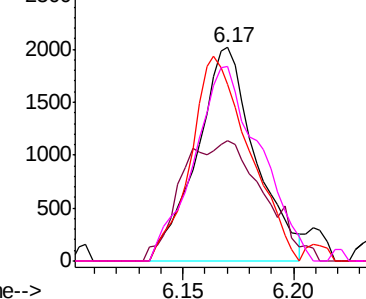


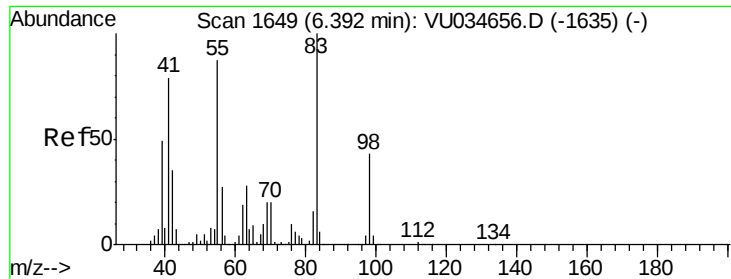
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

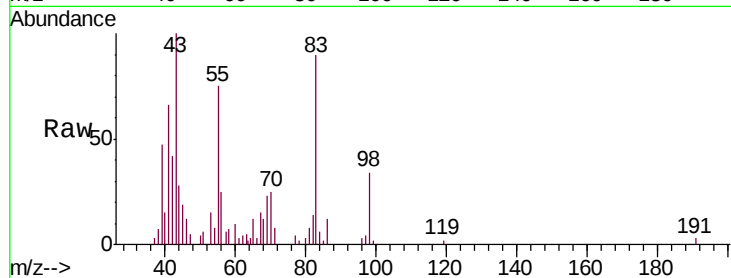




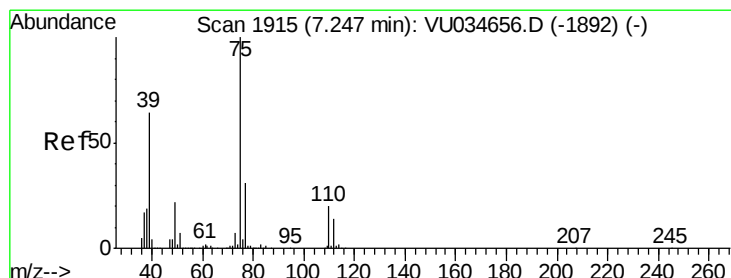
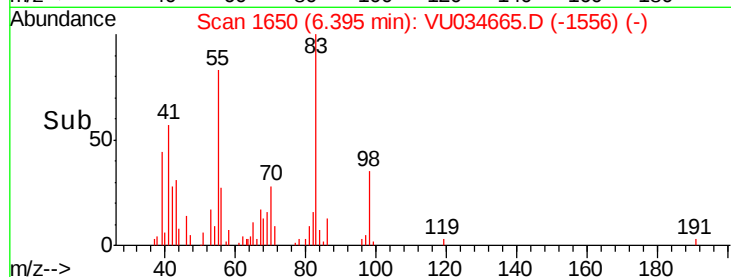
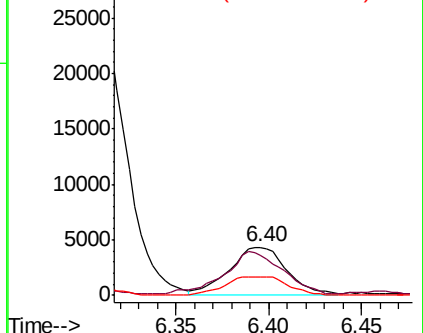
#35  
Methylcyclohexane  
Concen: 1.407 ug/L  
RT: 6.40 min Scan# 1650  
Delta R.T. 0.00 min  
Lab File: VU034665.D  
Acq: 19 Sep 2019 22:36

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDH6

Tgt Ion: 83 Resp: 9449  
Ion Ratio Lower Upper  
83 100  
55 88.9 71.6 107.4  
98 17.8 35.7 53.5#

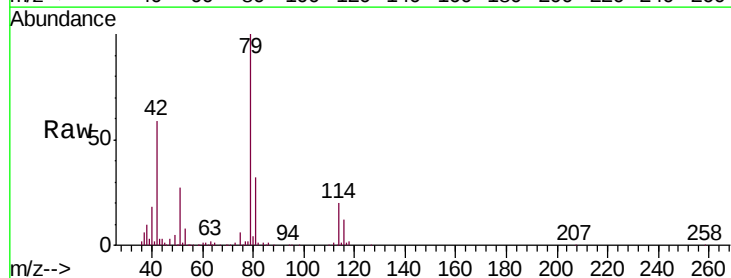


Abundance Ion 83.00 (82.70 to 83.70): VU0  
Ion 55.00 (54.70 to 55.70): VU0  
Ion 98.00 (97.70 to 98.70): VU0

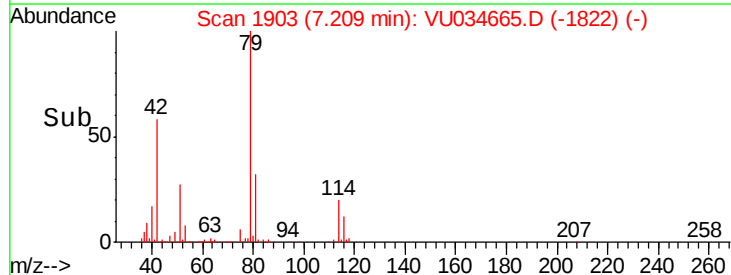
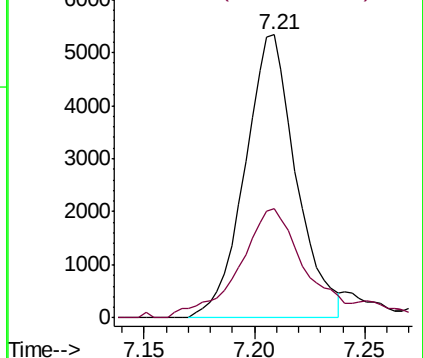


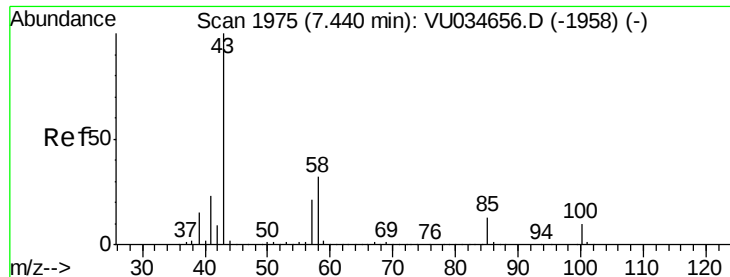
#39  
cis-1,3-Dichloropropene  
Concen: 1.203 ug/L  
RT: 7.21 min Scan# 1903  
Delta R.T. -0.04 min  
Lab File: VU034665.D  
Acq: 19 Sep 2019 22:36

Tgt Ion: 75 Resp: 8626  
Ion Ratio Lower Upper  
75 100  
77 38.7 21.4 39.8



Abundance Ion 75.00 (74.70 to 75.70): VU0  
Ion 77.00 (76.70 to 77.70): VU0

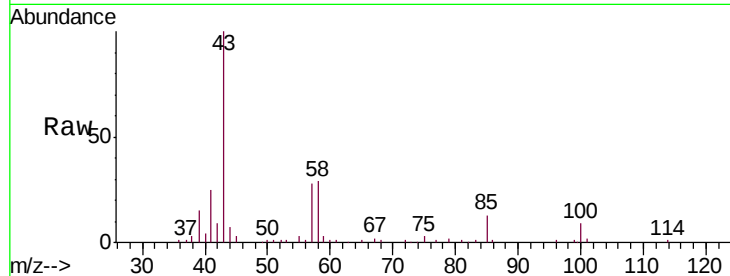




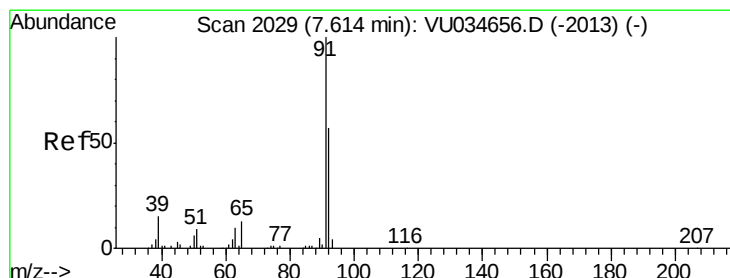
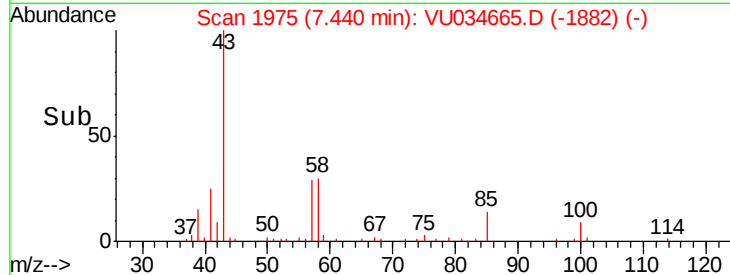
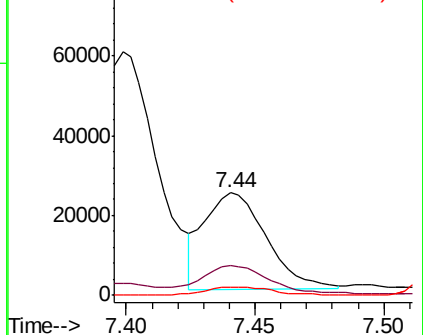
#40  
4-Methyl-2-pentanone  
Concen: 4.420 ug/L  
RT: 7.44 min Scan# 1975  
Delta R.T. 0.00 min  
Lab File: VU034665.D  
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Tgt Ion: 43 Resp: 40268  
Ion Ratio Lower Upper  
43 100  
58 36.1 25.2 37.8  
100 9.2 7.7 11.5

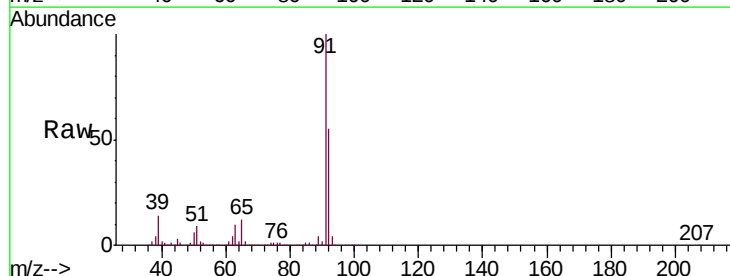


Abundance Ion 43.00 (42.70 to 43.70): VU0  
Ion 58.00 (57.70 to 58.70): VU0  
Ion 100.00 (99.70 to 100.70): VU0

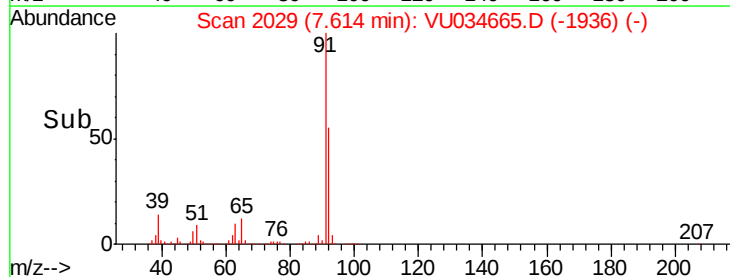
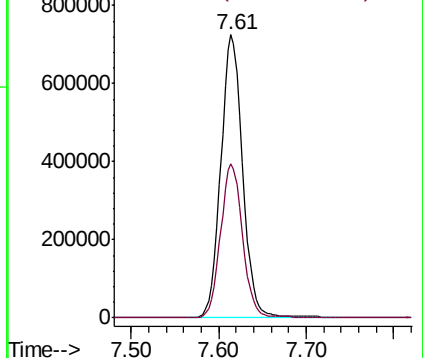


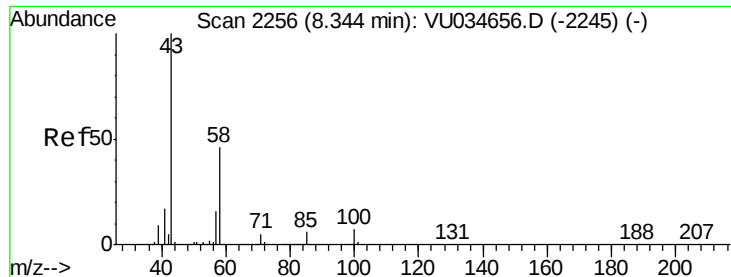
#42  
Toluene  
Concen: 72.501 ug/L  
RT: 7.61 min Scan# 2029  
Delta R.T. 0.00 min  
Lab File: VU034665.D  
Acq: 19 Sep 2019 22:36

Tgt Ion: 91 Resp: 1255552  
Ion Ratio Lower Upper  
91 100  
92 54.7 38.2 71.0



Abundance Ion 91.00 (90.70 to 91.70): VU0  
Ion 92.00 (91.70 to 92.70): VU0

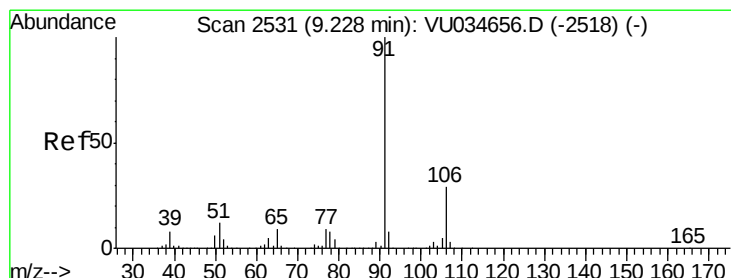
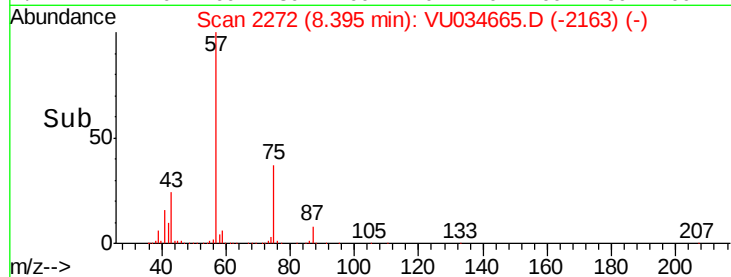
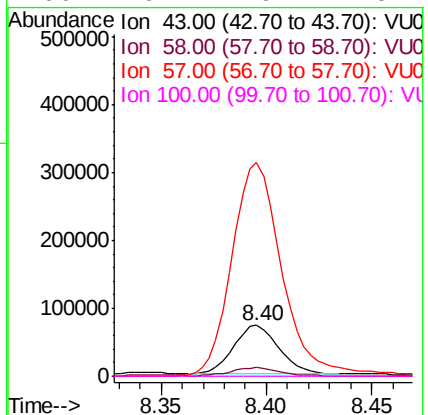
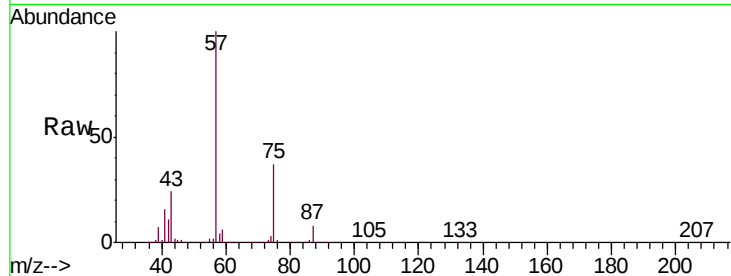




#48  
2-Hexanone  
Concen: 14.933 ug/L  
RT: 8.40 min Scan# 2272  
Delta R.T. 0.05 min  
Lab File: VU034665.D  
Acq: 19 Sep 2019 22:36

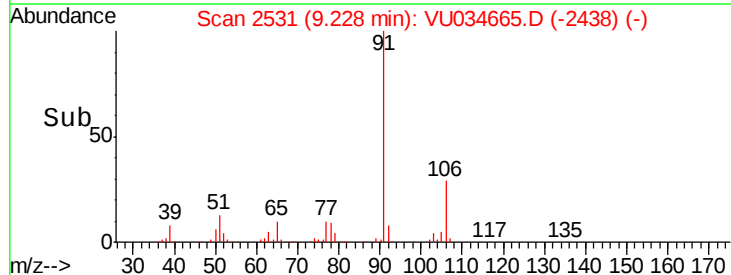
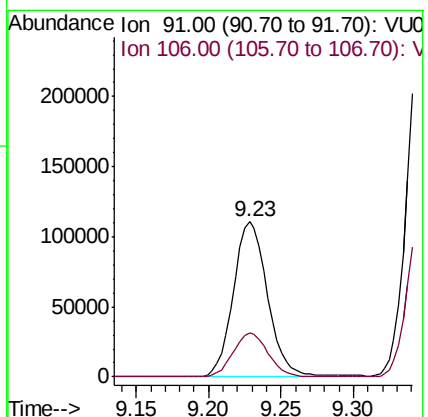
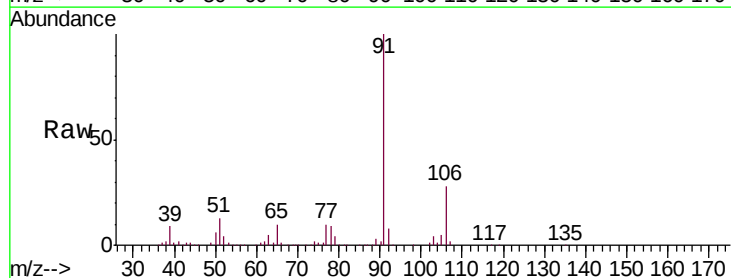
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDH6

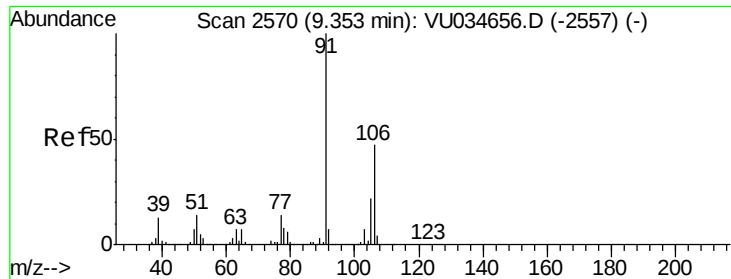
Tgt Ion: 43 Resp: 106241  
Ion Ratio Lower Upper  
43 100  
58 18.2 35.3 52.9#  
57 491.6 12.1 18.1#  
100 0.1 6.2 9.4#



#52  
Ethylbenzene  
Concen: 9.292 ug/L  
RT: 9.23 min Scan# 2531  
Delta R.T. 0.00 min  
Lab File: VU034665.D  
Acq: 19 Sep 2019 22:36

Tgt Ion: 91 Resp: 181199  
Ion Ratio Lower Upper  
91 100  
106 28.5 20.6 38.4

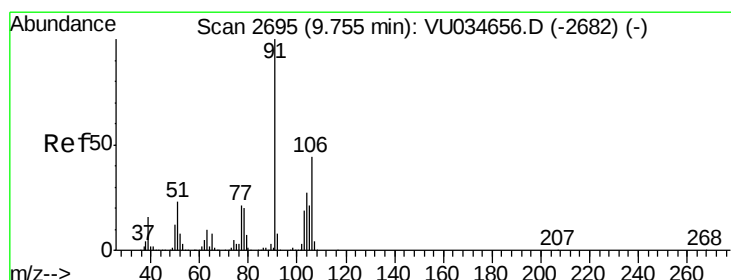
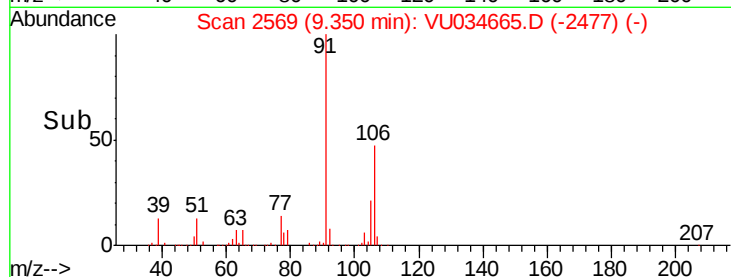
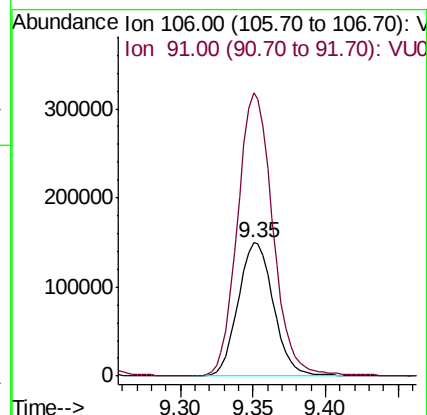
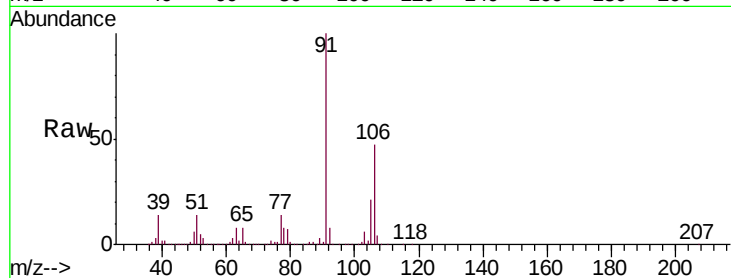




#53  
m,p-Xylene  
Concen: 36.673 ug/L  
RT: 9.35 min Scan# 2569  
Delta R.T. -0.00 min  
Lab File: VU034665.D  
Acq: 19 Sep 2019 22:36

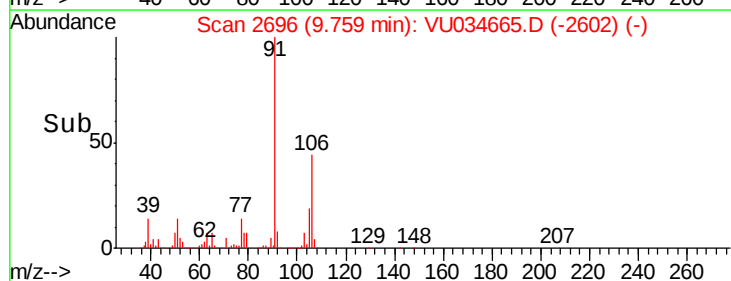
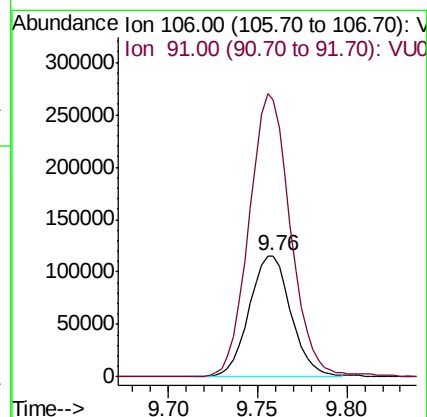
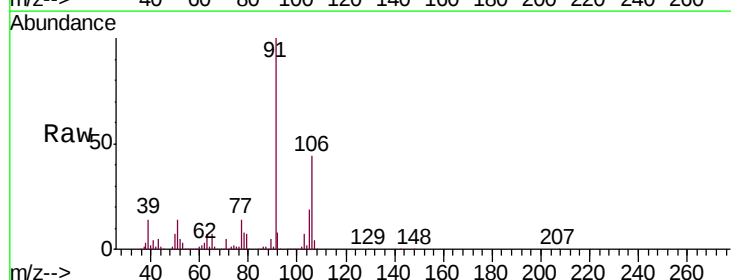
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDH6

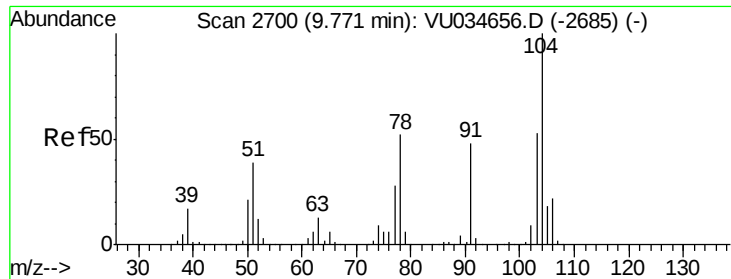
Tgt Ion:106 Resp: 253306  
Ion Ratio Lower Upper  
106 100  
91 212.3 146.9 272.7



#54  
o-xylene  
Concen: 27.666 ug/L  
RT: 9.76 min Scan# 2696  
Delta R.T. 0.00 min  
Lab File: VU034665.D  
Acq: 19 Sep 2019 22:36

Tgt Ion:106 Resp: 189011  
Ion Ratio Lower Upper  
106 100  
91 229.1 155.6 289.0





#55

Styrene

Concen: 0.973 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.02 min

Lab File: VU034665.D

Acq: 19 Sep 2019 22:36

Instrument :

MSVOA\_U

ClientSampleId :

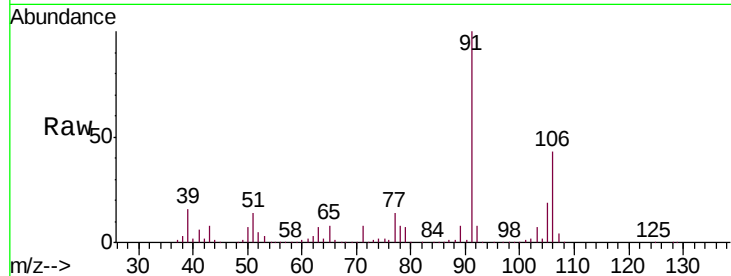
BFDH6

Tgt Ion:104 Resp: 11251

Ion Ratio Lower Upper

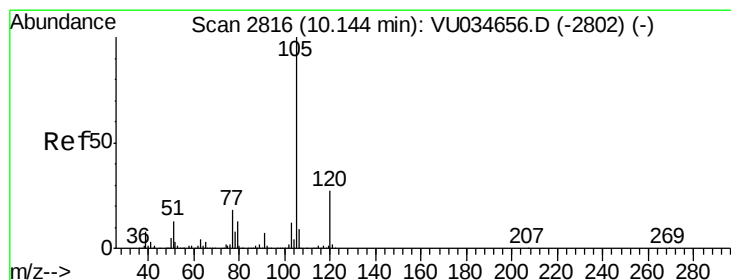
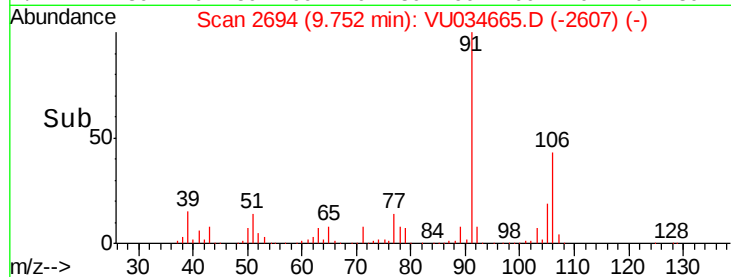
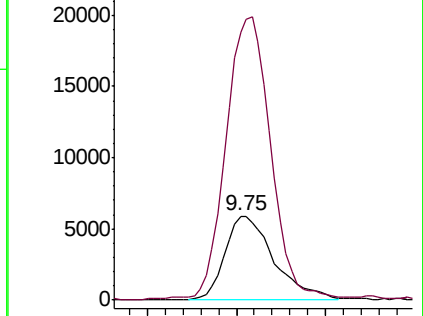
104 100

78 319.2 35.1 65.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



#56

Isopropylbenzene

Concen: 1.115 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034665.D

Acq: 19 Sep 2019 22:36

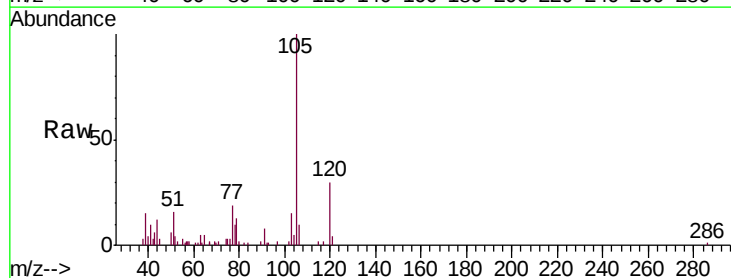
Tgt Ion:105 Resp: 20540

Ion Ratio Lower Upper

105 100

120 25.7 20.4 30.6

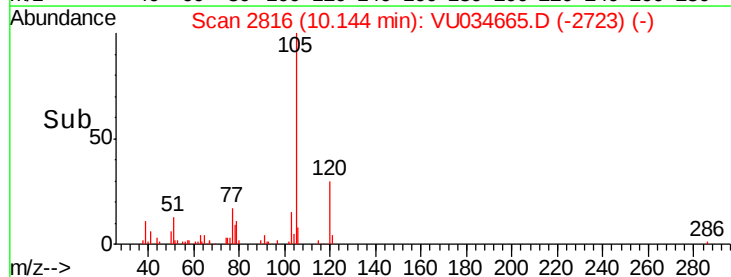
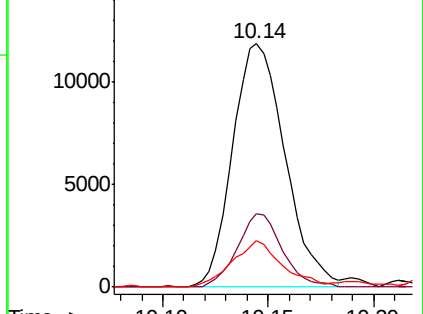
77 18.0 14.2 21.4

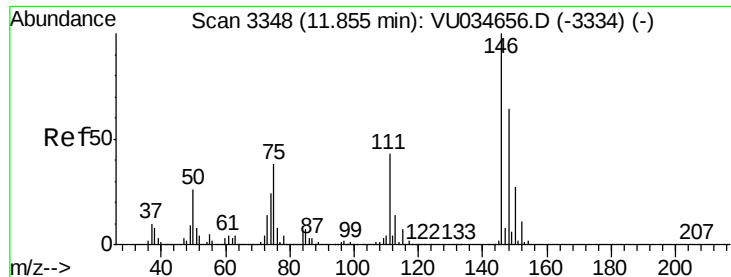


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0





#65

1,2-Dichlorobenzene

Concen: 2.166 ug/L

RT: 11.86 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034665.D

Acq: 19 Sep 2019 22:36

Instrument :

MSVOA\_U

ClientSampleId :

BFDH6

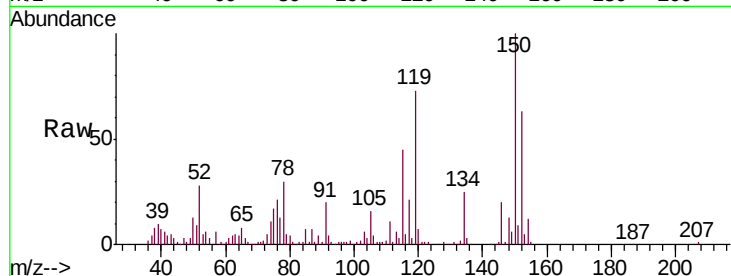
Tgt Ion:146 Resp: 15885

Ion Ratio Lower Upper

146 100

111 53.5 35.2 52.8#

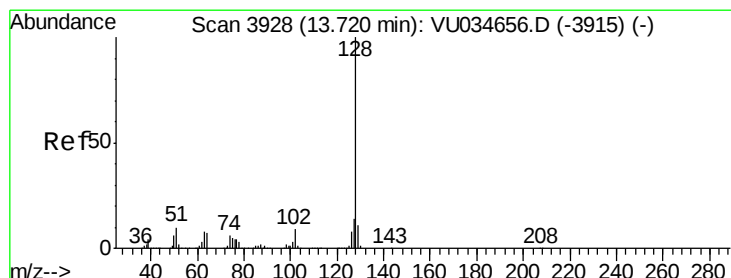
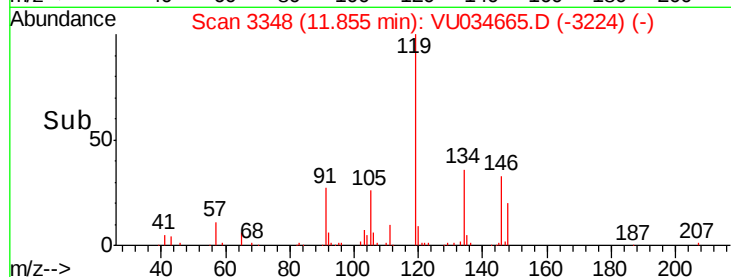
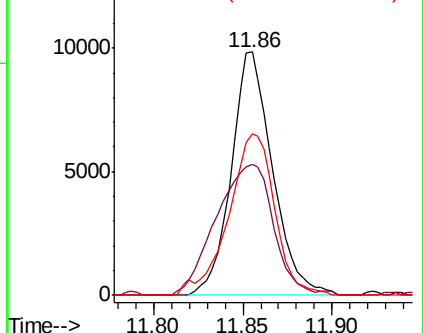
148 66.5 53.0 79.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#69

Naphthalene

Concen: 20.358 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. 0.00 min

Lab File: VU034665.D

Acq: 19 Sep 2019 22:36

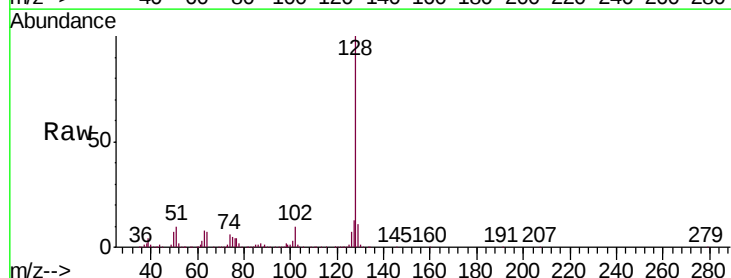
Tgt Ion:128 Resp: 269533

Ion Ratio Lower Upper

128 100

127 12.6 10.8 16.2

129 11.1 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

