

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU041621\  
 Data File : VU043180.D  
 Acq On : 16 Apr 2021 19:42  
 Operator : SY/MD  
 Sample : M2056-02  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VOC-TRIP-B

Quant Time: Apr 17 02:35:48 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U041221W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Apr 12 13:17:29 2021  
 Response via : Initial Calibration

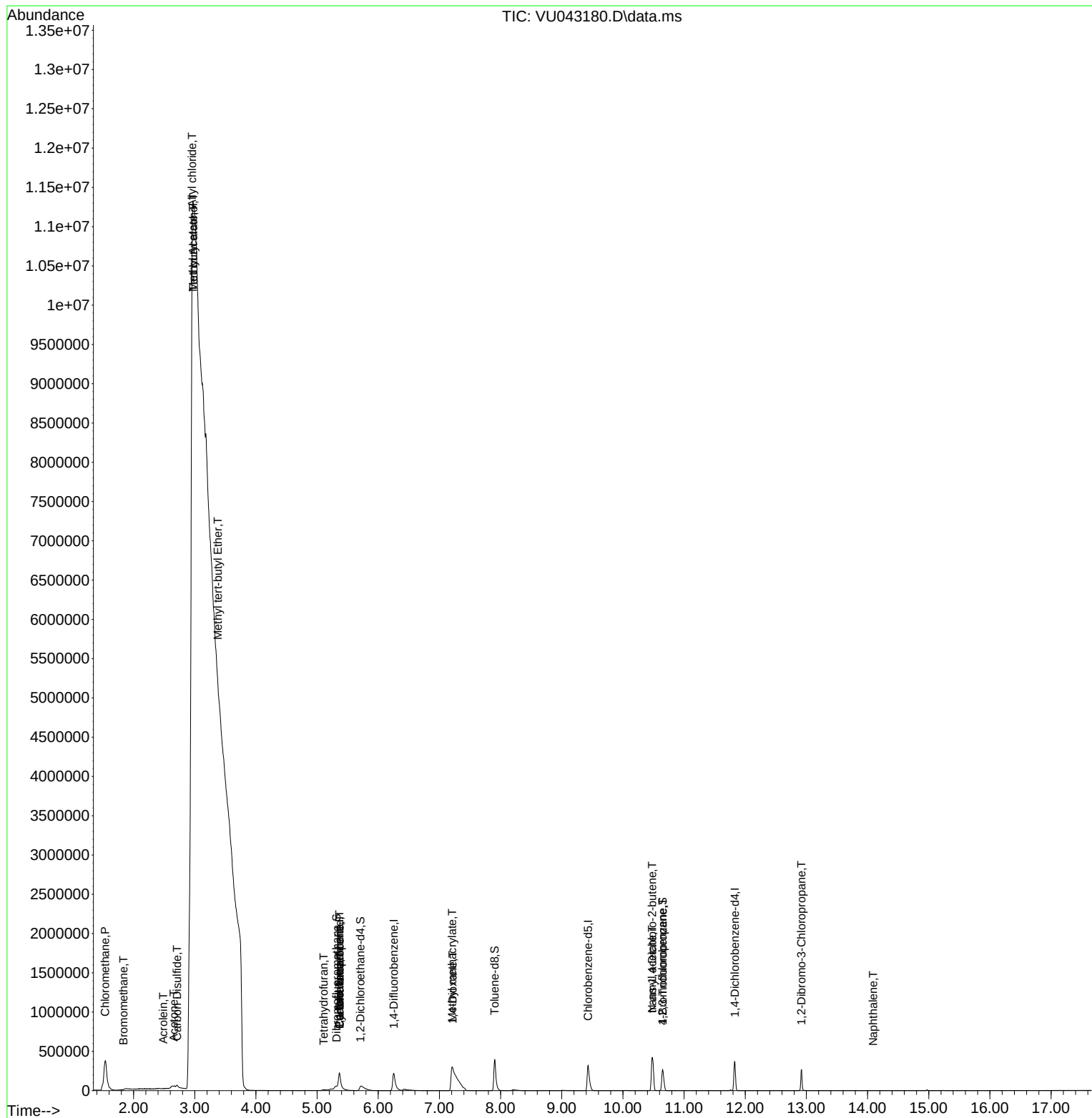
| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| -----                         |        |      |          |          |        |          |
| Internal Standards            |        |      |          |          |        |          |
| 1) Pentafluorobenzene         | 5.366  | 168  | 165916   | 50.00    | ug/l   | -0.02    |
| 34) 1,4-Difluorobenzene       | 6.253  | 114  | 274927   | 50.00    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.430  | 117  | 254633   | 50.00    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.828 | 152  | 106309   | 50.00    | ug/l   | 0.00     |
|                               |        |      |          |          |        |          |
| System Monitoring Compounds   |        |      |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.710  | 65   | 32813    | 11.76    | ug/l   | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =        | 23.52% |          |
| 35) Dibromofluoromethane      | 5.317  | 113  | 79059    | 38.27    | ug/l   | 0.02     |
| Spiked Amount 50.000          |        |      | Recovery | =        | 76.54% |          |
| 50) Toluene-d8                | 7.902  | 98   | 342155   | 46.81    | ug/l   | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =        | 93.62% |          |
| 62) 4-Bromofluorobenzene      | 10.648 | 95   | 121446   | 41.49    | ug/l   | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =        | 82.98% |          |
|                               |        |      |          |          |        |          |
| Target Compounds              |        |      |          |          | Qvalue |          |
| 3) Chloromethane              | 1.536  | 50   | 31709    | 16.58    | ug/l   | 95       |
| 5) Bromomethane               | 1.835  | 94   | 636      | 0.63     | ug/l   | 81       |
| 11) Tert butyl alcohol        | 2.977  | 59   | 1076477  | 1497.48  | ug/l # | 95       |
| 13) Acrolein                  | 2.485  | 56   | 104      | 10.64    | ug/l # | 1        |
| 14) Allyl chloride            | 2.957  | 41   | 8634082  | 2290.72  | ug/l # | 43       |
| 16) Acetone                   | 2.658  | 43   | 5394     | 2.99     | ug/l # | 82       |
| 17) Carbon Disulfide          | 2.710  | 76   | 50619    | 10.60    | ug/l   | 99       |
| 18) Methyl Acetate            | 2.973  | 43   | 59672619 | 17115.61 | ug/l   | 96       |
| 19) Methyl tert-butyl Ether   | 3.378  | 73   | 4282     | 0.70     | ug/l # | 52       |
| 29) Tetrahydrofuran           | 5.108  | 42   | 6104     | 3.83     | ug/l # | 86       |
| 31) Cyclohexane               | 5.369  | 56   | 4695     | 1.36     | ug/l # | 34       |
| 36) 1,1-Dichloropropene       | 5.369  | 75   | 12811    | 4.39     | ug/l # | 45       |
| 38) Carbon Tetrachloride      | 5.366  | 117  | 16755    | 5.36     | ug/l # | 15       |
| 48) Methyl methacrylate       | 7.208  | 41   | 102417   | 28.68    | ug/l # | 31       |
| 49) 1,4-Dioxane               | 7.218  | 88   | 1688     | 23.59    | ug/l # | 12       |
| 74) N-amyl acetate            | 10.478 | 43   | 148121   | 32.31    | ug/l # | 60       |
| 76) 1,2,3-Trichloropropane    | 10.648 | 75   | 69599    | 22.40    | ug/l # | 36       |
| 81) trans-1,4-Dichloro-2-b... | 10.478 | 75   | 13069    | 12.36    | ug/l # | 42       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.918 | 75   | 7276     | 8.27     | ug/l # | 1        |
| 95) Naphthalene               | 14.092 | 128  | 1233     | 2.89     | ug/l # | 71       |
| -----                         |        |      |          |          |        |          |

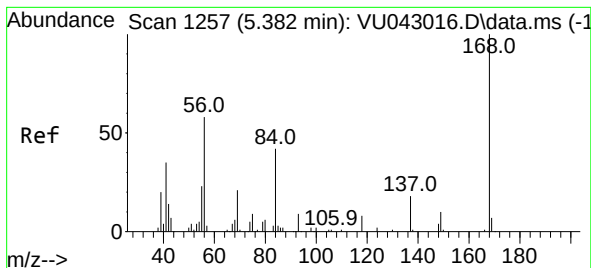
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U041221W.M  
Quant Title : SW846 8260  
QLast Update : Mon Apr 12 13:17:29 2021  
Response via : Initial Calibration

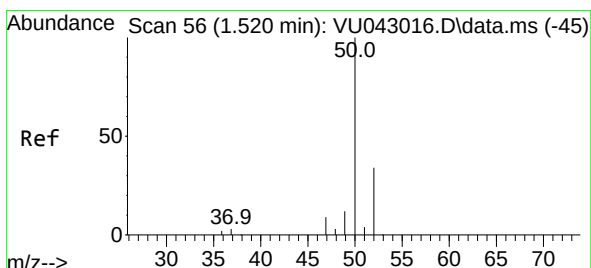
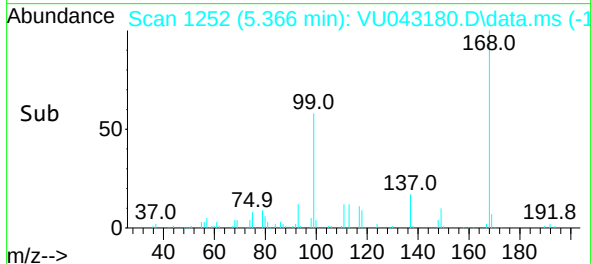
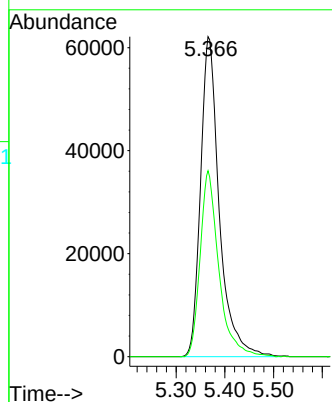
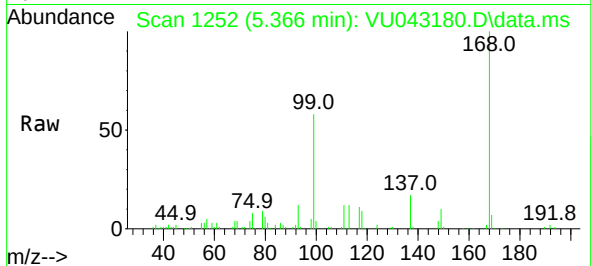




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.366 min Scan# 1252  
Delta R.T. -0.016 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

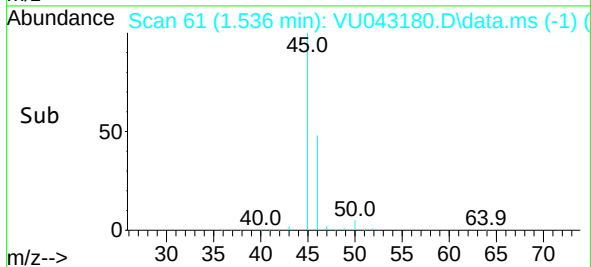
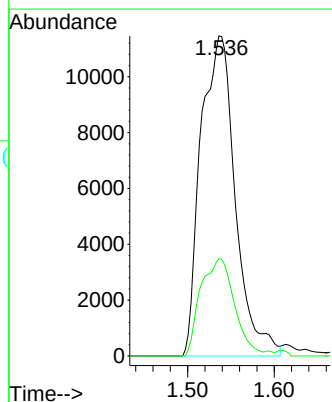
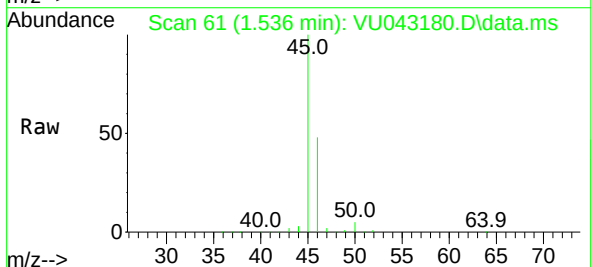
Instrument :  
MSVOA\_U  
ClientSampled :  
VOC-TRIP-B

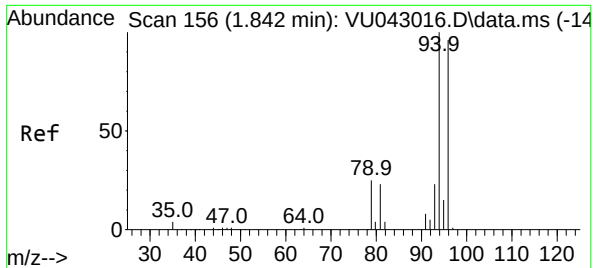
Tgt Ion:168 Resp: 165916  
Ion Ratio Lower Upper  
168 100  
99 58.1 45.0 67.4



#3  
Chloromethane  
Concen: 16.58 ug/l  
RT: 1.536 min Scan# 61  
Delta R.T. 0.016 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

Tgt Ion: 50 Resp: 31709  
Ion Ratio Lower Upper  
50 100  
52 30.4 26.6 40.0

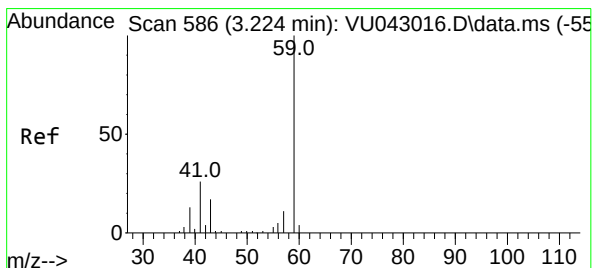
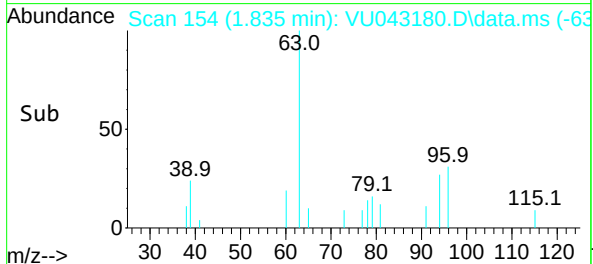
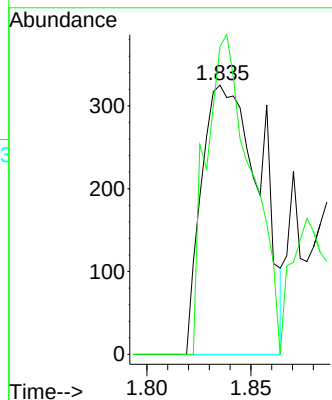
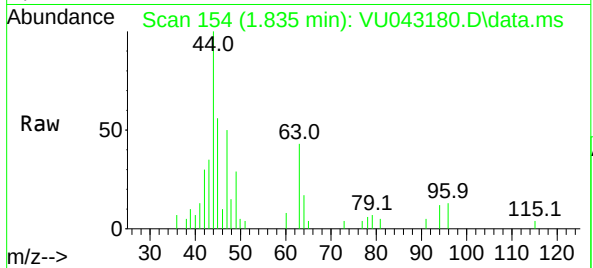




#5  
Bromomethane  
Concen: 0.63 ug/l  
RT: 1.835 min Scan# 154  
Delta R.T. -0.007 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

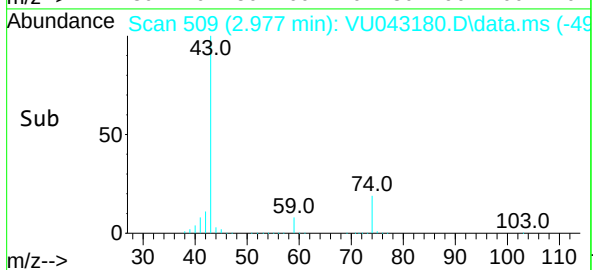
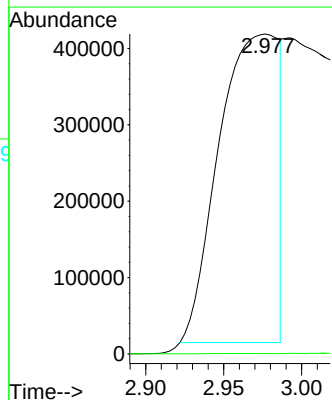
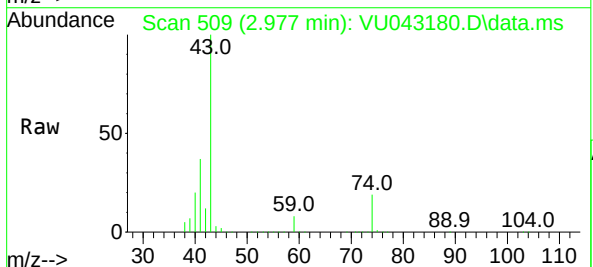
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MSVOA\_U  
ClientSampled :  
VOC-TRIP-B

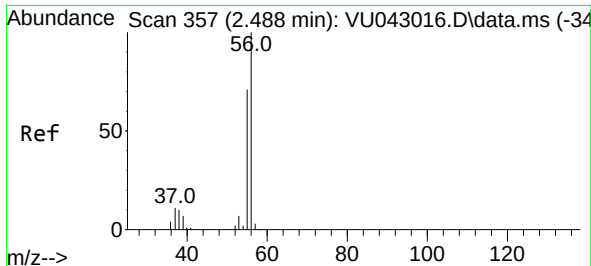
Tgt Ion: 94 Resp: 636  
Ion Ratio Lower Upper  
94 100  
96 114.5 76.6 115.0



#11  
Tert butyl alcohol  
Concen: 1497.48 ug/l  
RT: 2.977 min Scan# 509  
Delta R.T. -0.247 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

Tgt Ion: 59 Resp: 1076477  
Ion Ratio Lower Upper  
59 100  
57 0.1 1.6 2.4#

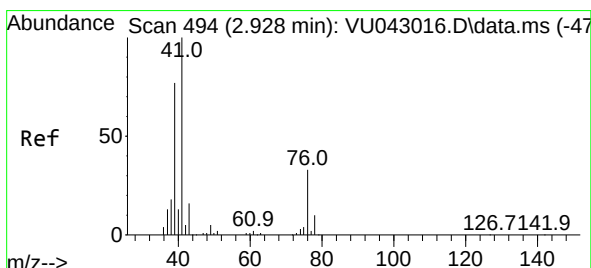
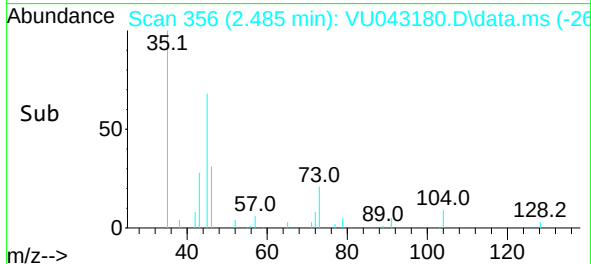
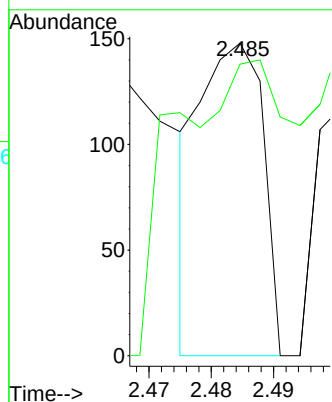
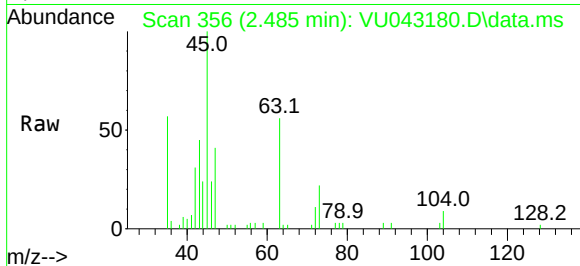




#13  
Acrolein  
Concen: 10.64 ug/l  
RT: 2.485 min Scan# 356  
Delta R.T. -0.003 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

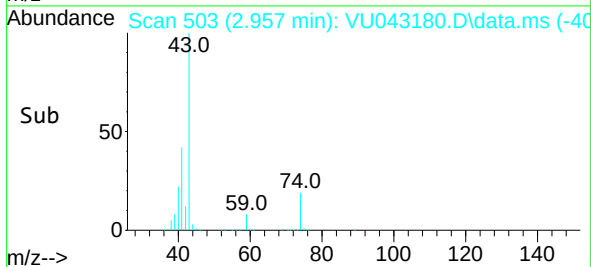
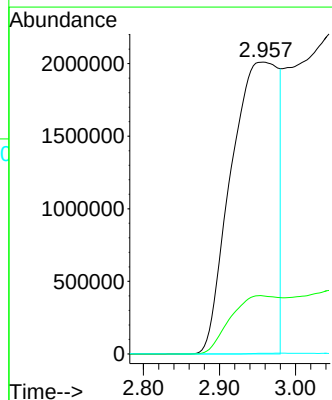
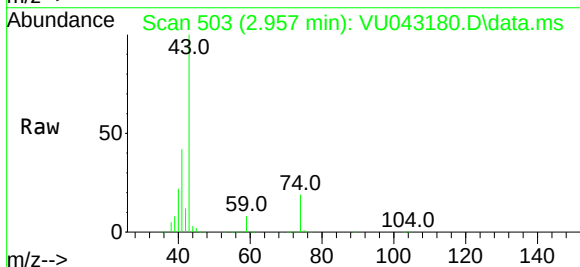
Instrument :  
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ClientSampleId :  
VOC-TRIP-B

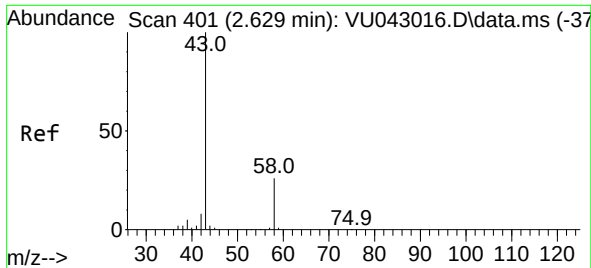
Tgt Ion: 56 Resp: 104  
Ion Ratio Lower Upper  
56 100  
55 176.9 57.3 85.9#



#14  
Allyl chloride  
Concen: 2290.72 ug/l  
RT: 2.957 min Scan# 503  
Delta R.T. 0.029 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

Tgt Ion: 41 Resp: 8634082  
Ion Ratio Lower Upper  
41 100  
39 20.8 54.9 82.3#  
76 0.0 22.5 33.7#

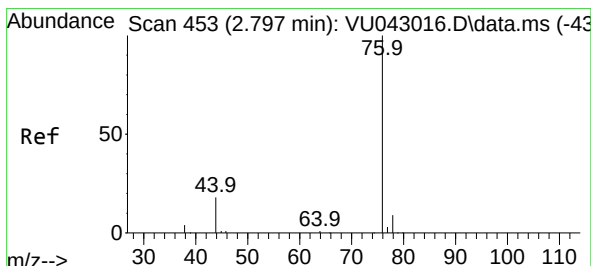
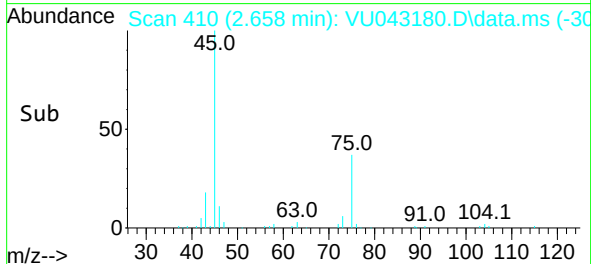
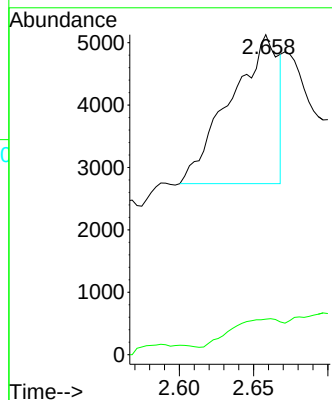
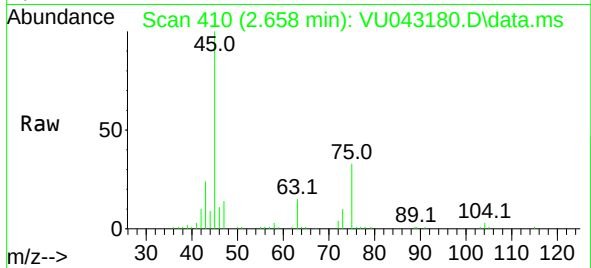




#16  
Acetone  
Concen: 2.99 ug/l  
RT: 2.658 min Scan# 410  
Delta R.T. 0.029 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

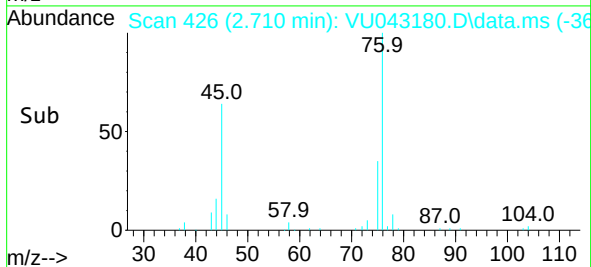
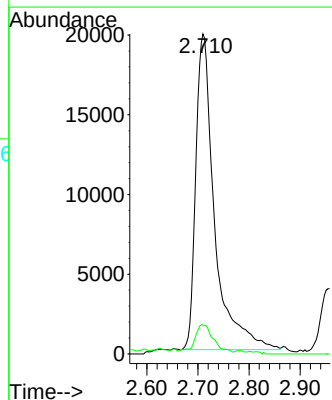
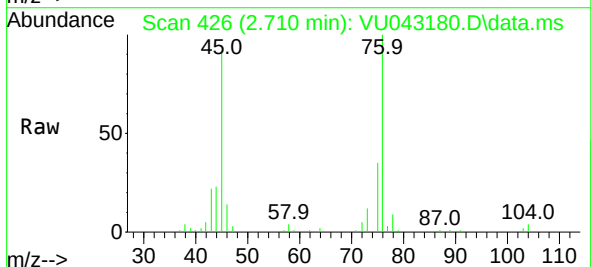
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ClientSampleId :  
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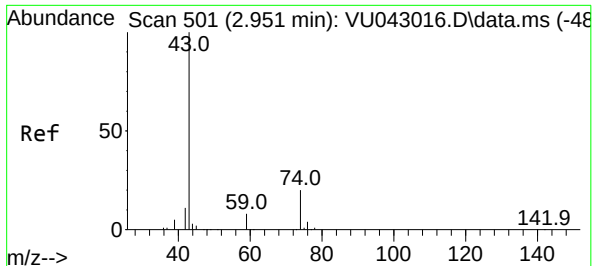
Tgt Ion: 43 Resp: 5394  
Ion Ratio Lower Upper  
43 100  
58 17.4 21.5 32.3#



#17  
Carbon Disulfide  
Concen: 10.60 ug/l  
RT: 2.710 min Scan# 426  
Delta R.T. -0.087 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

Tgt Ion: 76 Resp: 50619  
Ion Ratio Lower Upper  
76 100  
78 9.2 7.5 11.3

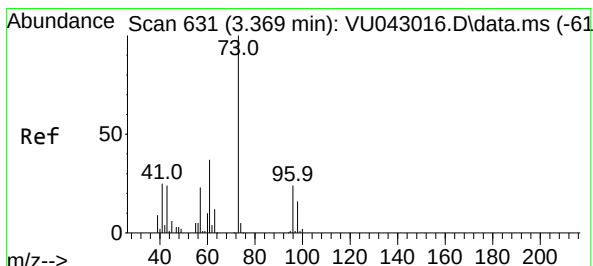
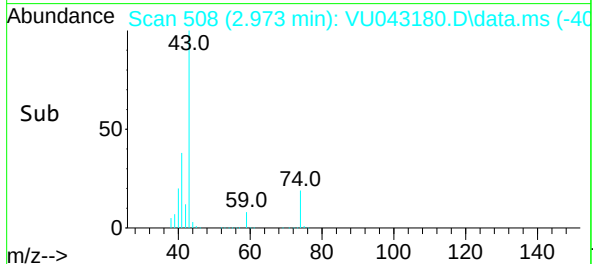
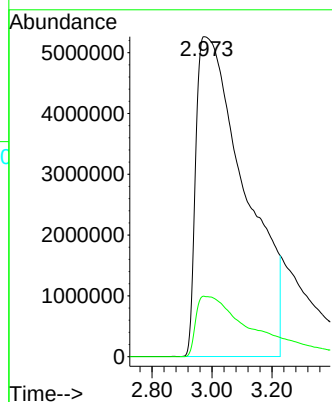
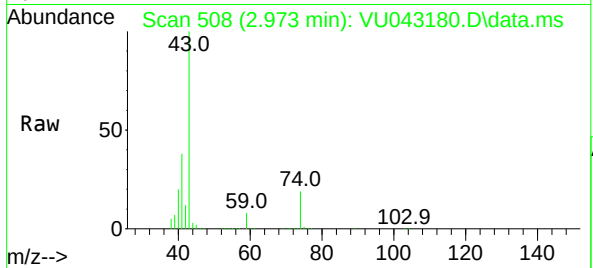




#18  
Methyl Acetate  
Concen: 17115.61 ug/l  
RT: 2.973 min Scan# 508  
Delta R.T. 0.022 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

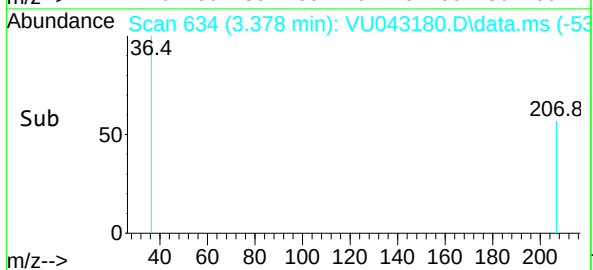
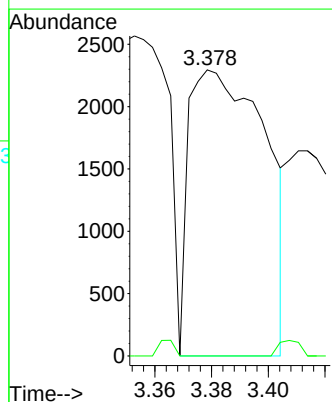
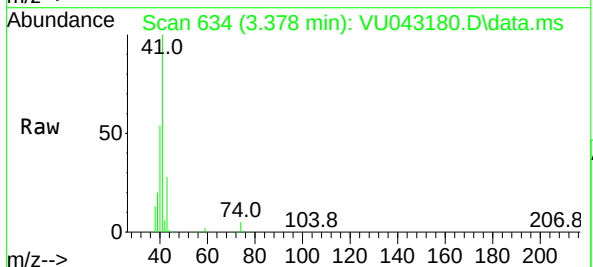
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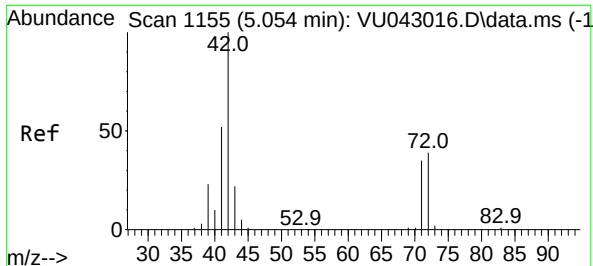
Tgt Ion: 43 Resp: 59672619  
Ion Ratio Lower Upper  
43 100  
74 18.9 16.6 25.0



#19  
Methyl tert-butyl Ether  
Concen: 0.70 ug/l  
RT: 3.378 min Scan# 634  
Delta R.T. 0.009 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

Tgt Ion: 73 Resp: 4282  
Ion Ratio Lower Upper  
73 100  
57 0.0 18.8 28.2#





#29

Tetrahydrofuran

Concen: 3.83 ug/l

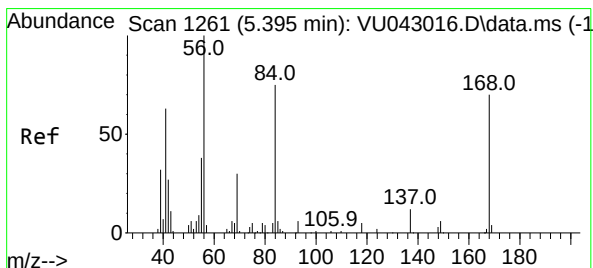
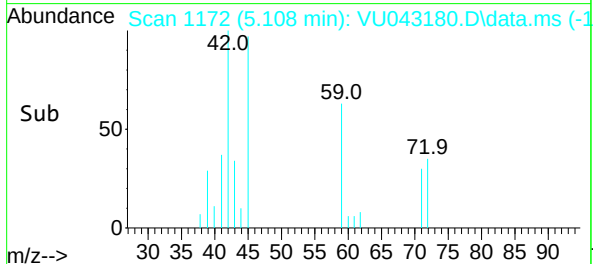
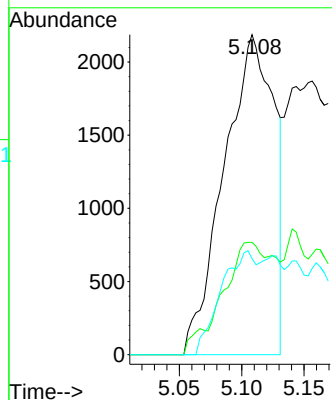
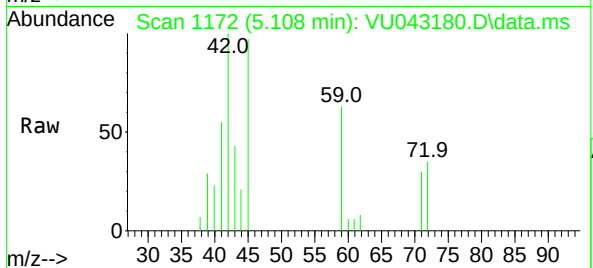
RT: 5.108 min Scan# 1172

Delta R.T. 0.054 min

Lab File: VU043180.D

Acq: 16 Apr 2021 19:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 6104  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 36.8  | 31.5  | 47.3  |
| 71       | 22.3  | 29.5  | 44.3# |



#31

Cyclohexane

Concen: 1.36 ug/l

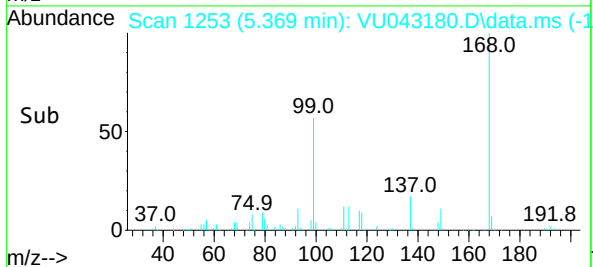
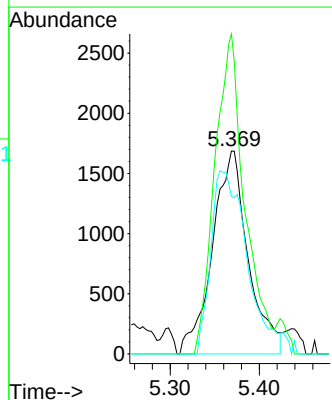
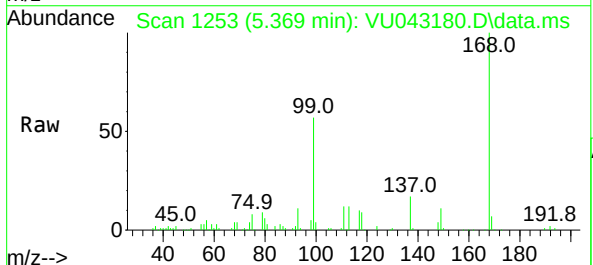
RT: 5.369 min Scan# 1253

Delta R.T. -0.026 min

Lab File: VU043180.D

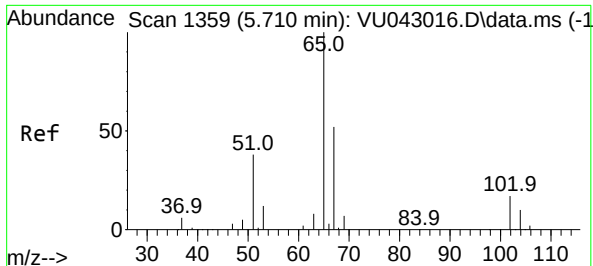
Acq: 16 Apr 2021 19:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 4695  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 157.7 | 24.9  | 37.3# |
| 84       | 77.6  | 63.7  | 95.5  |



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MSVOA\_U  
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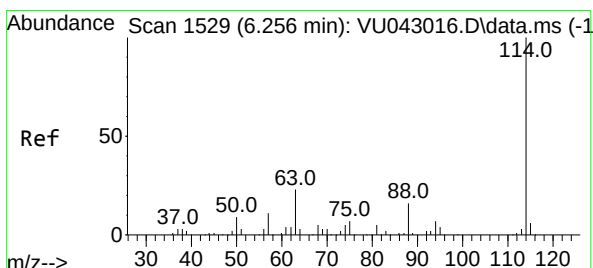
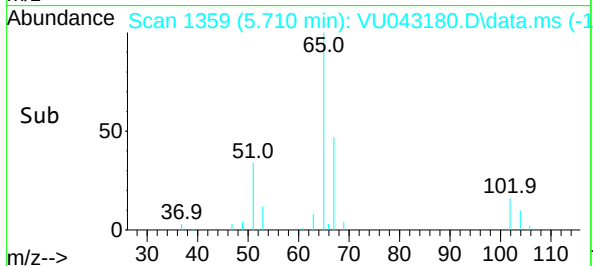
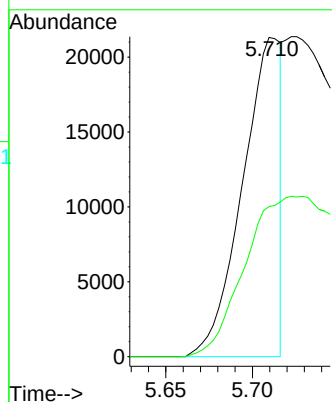
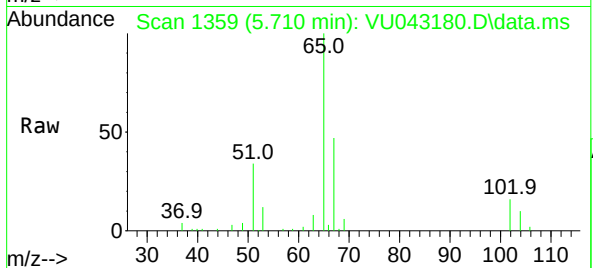




#33  
1,2-Dichloroethane-d4  
Concen: 11.76 ug/l  
RT: 5.710 min Scan# 1359  
Delta R.T. -0.000 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

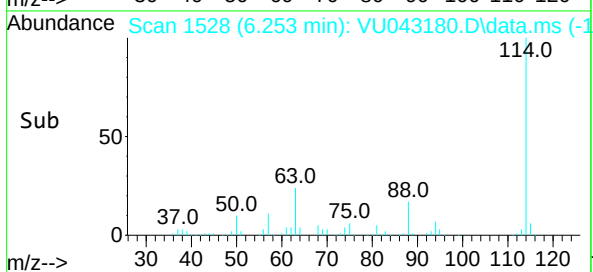
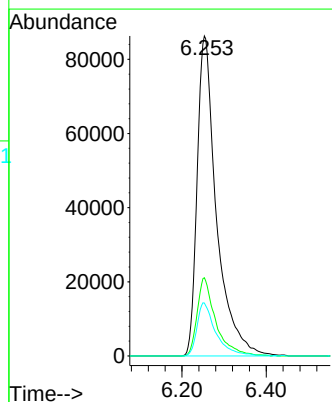
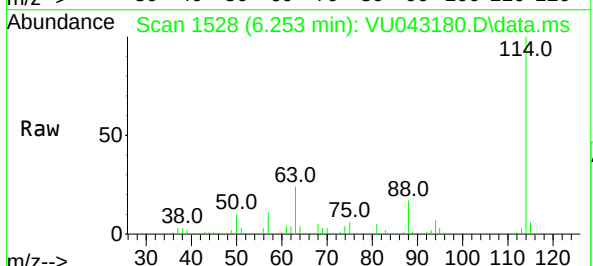
Instrument :  
MSVOA\_U  
ClientSampled :  
VOC-TRIP-B

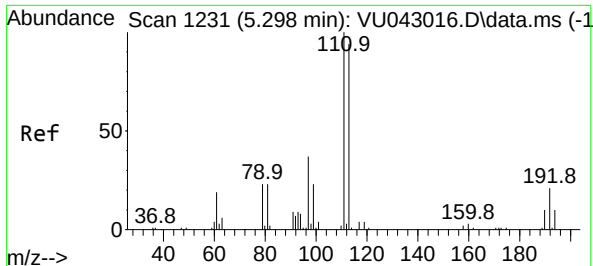
Tgt Ion: 65 Resp: 32813  
Ion Ratio Lower Upper  
65 100  
67 193.2 0.0 99.8#



#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.253 min Scan# 1528  
Delta R.T. -0.003 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

Tgt Ion: 114 Resp: 274927  
Ion Ratio Lower Upper  
114 100  
63 24.4 0.0 44.2  
88 16.6 0.0 33.4

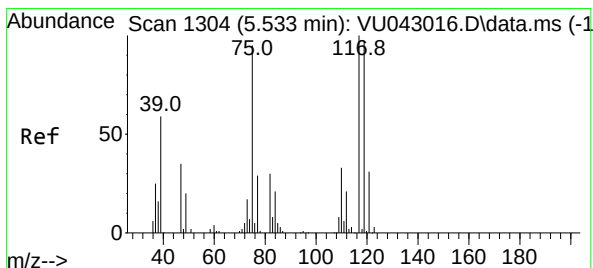
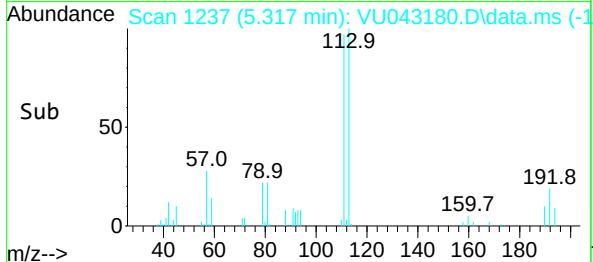
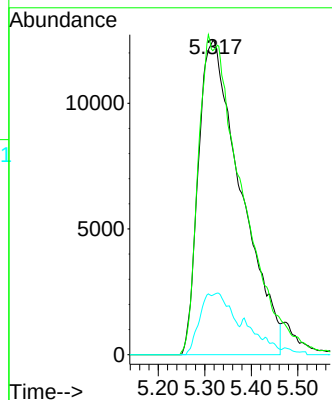
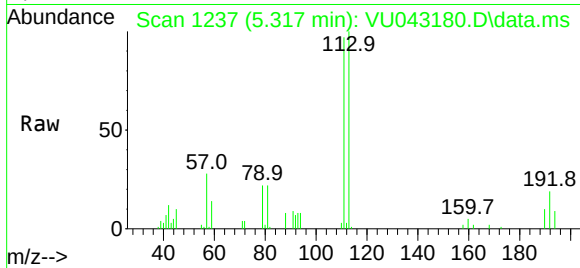




#35  
Dibromofluoromethane  
Concen: 38.27 ug/l  
RT: 5.317 min Scan# 1237  
Delta R.T. 0.019 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

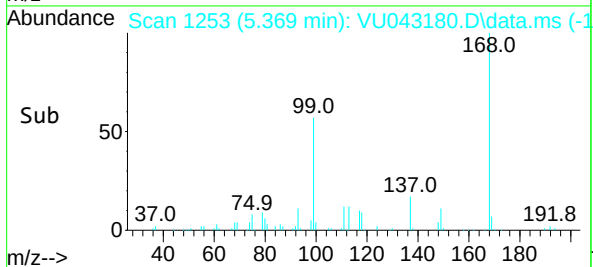
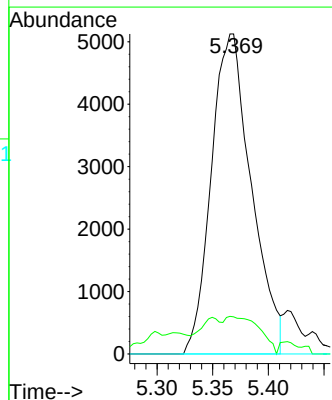
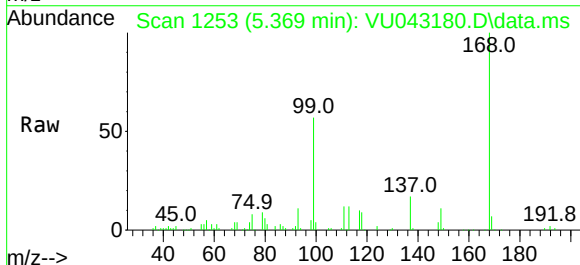
Instrument :  
MSVOA\_U  
ClientSampleId :  
VOC-TRIP-B

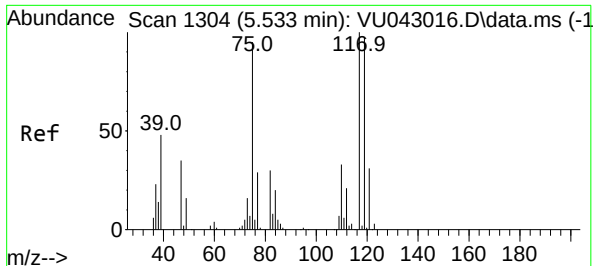
Tgt Ion:113 Resp: 79059  
Ion Ratio Lower Upper  
113 100  
111 35.2 81.8 122.8#  
192 5.7 17.2 25.8#



#36  
1,1-Dichloropropene  
Concen: 4.39 ug/l  
RT: 5.369 min Scan# 1253  
Delta R.T. -0.164 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

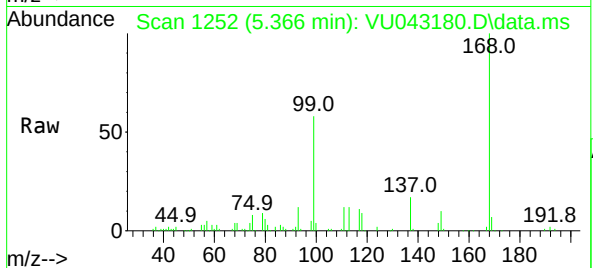
Tgt Ion: 75 Resp: 12811  
Ion Ratio Lower Upper  
75 100  
110 2.5 16.8 50.3#  
77 0.0 24.8 37.2#



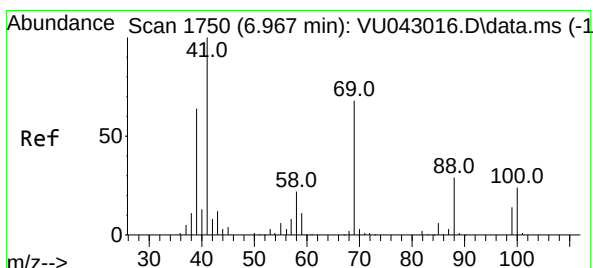
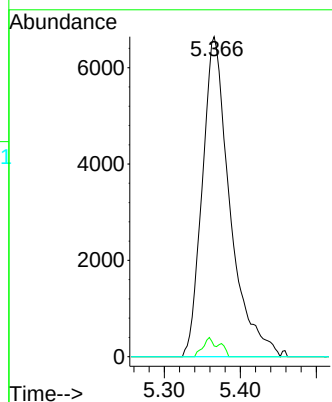
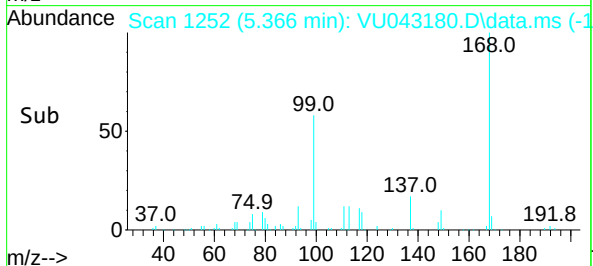


#38  
Carbon Tetrachloride  
Concen: 5.36 ug/l  
RT: 5.366 min Scan# 1252  
Delta R.T. -0.167 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

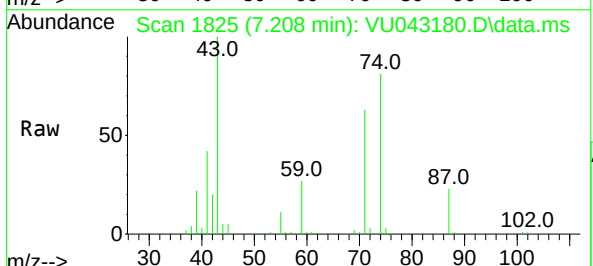
Instrument :  
MSVOA\_U  
ClientSampleId :  
VOC-TRIP-B



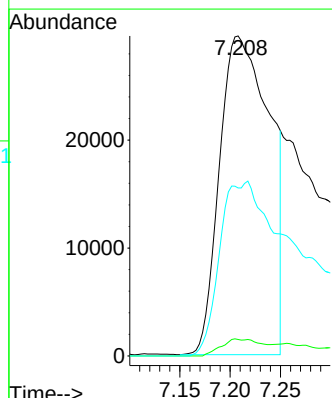
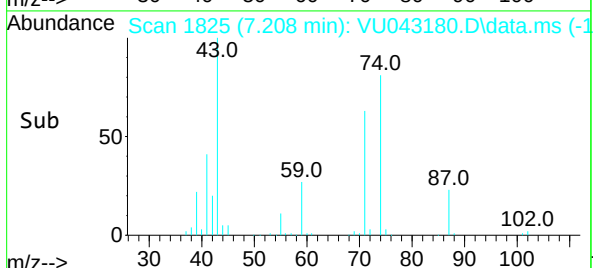
Tgt Ion:117 Resp: 16755  
Ion Ratio Lower Upper  
117 100  
119 3.4 75.5 113.3#  
121 0.0 24.7 37.1#

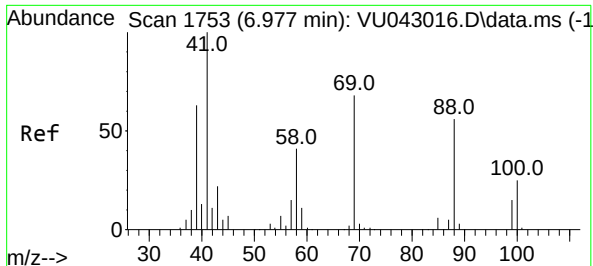


#48  
Methyl methacrylate  
Concen: 28.68 ug/l  
RT: 7.208 min Scan# 1825  
Delta R.T. 0.241 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42



Tgt Ion: 41 Resp: 102417  
Ion Ratio Lower Upper  
41 100  
69 2.2 57.0 85.6#  
39 21.7 48.4 72.6#





#49

1,4-Dioxane

Concen: 23.59 ug/l

RT: 7.218 min Scan# 1828

Delta R.T. 0.241 min

Lab File: VU043180.D

Acq: 16 Apr 2021 19:42

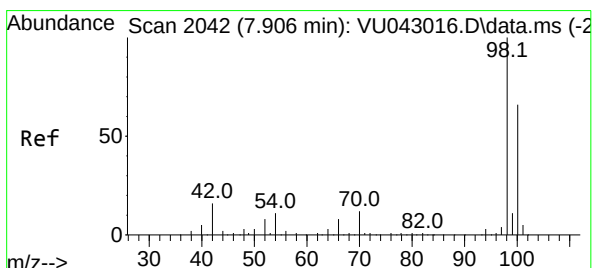
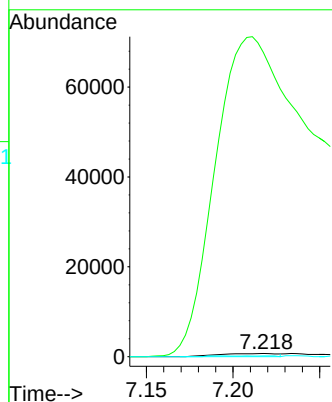
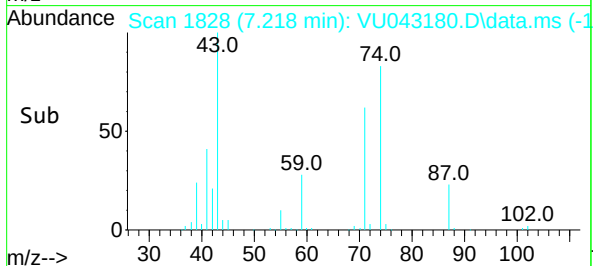
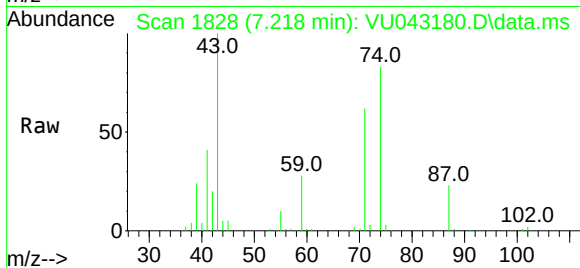
Tgt Ion: 88 Resp: 1688

Ion Ratio Lower Upper

88 100

43 16067.4 0.0 0.0#

58 0.0 60.4 90.6#



#50

Toluene-d8

Concen: 46.81 ug/l

RT: 7.902 min Scan# 2041

Delta R.T. -0.004 min

Lab File: VU043180.D

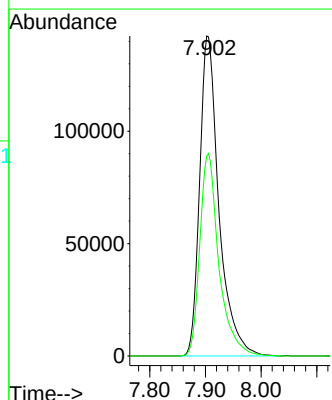
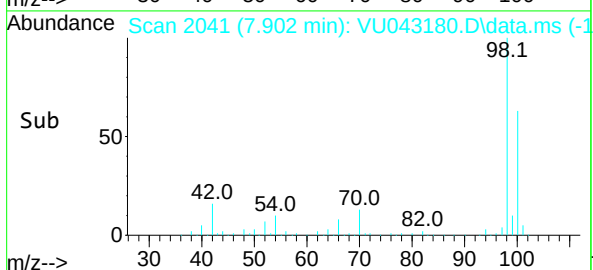
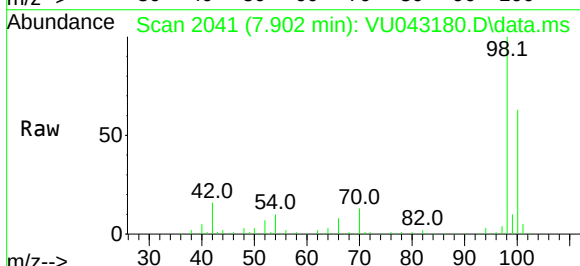
Acq: 16 Apr 2021 19:42

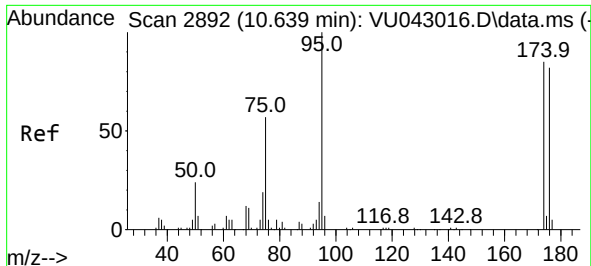
Tgt Ion: 98 Resp: 342155

Ion Ratio Lower Upper

98 100

100 62.7 50.2 75.2

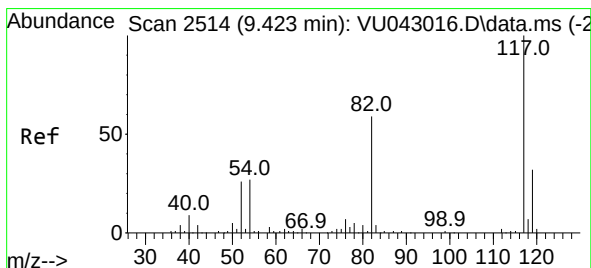
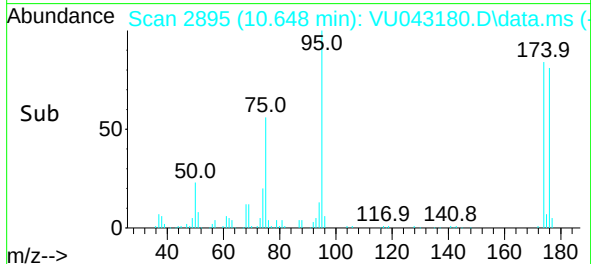
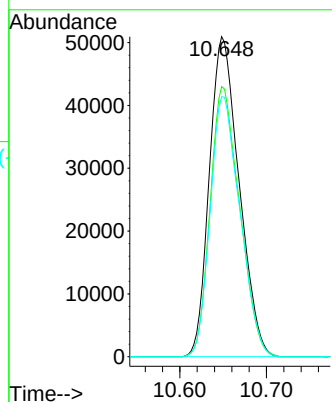
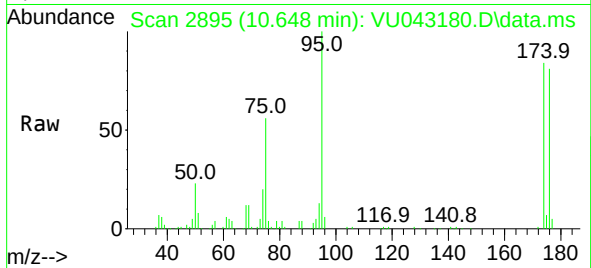




#62  
4-Bromofluorobenzene  
Concen: 41.49 ug/l  
RT: 10.648 min Scan# 2895  
Delta R.T. 0.009 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

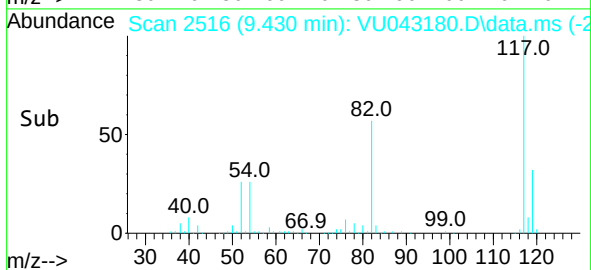
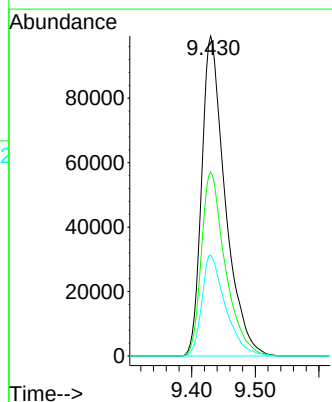
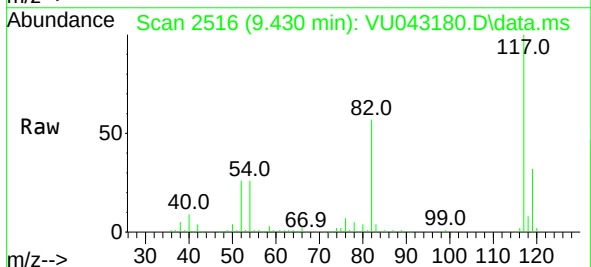
Instrument :  
MSVOA\_U  
ClientSampleId :  
VOC-TRIP-B

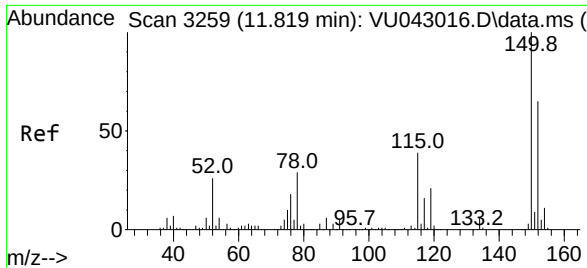
Tgt Ion: 95 Resp: 121446  
Ion Ratio Lower Upper  
95 100  
174 83.8 0.0 172.2  
176 81.3 0.0 168.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.430 min Scan# 2516  
Delta R.T. 0.007 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

Tgt Ion: 117 Resp: 254633  
Ion Ratio Lower Upper  
117 100  
82 57.4 45.8 68.6  
119 31.6 25.8 38.8

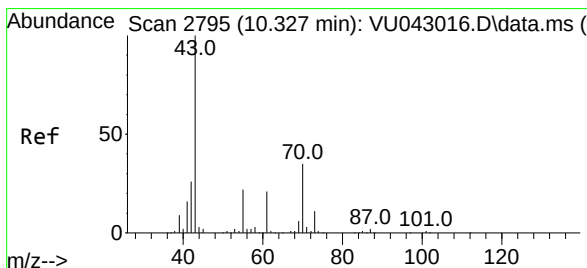
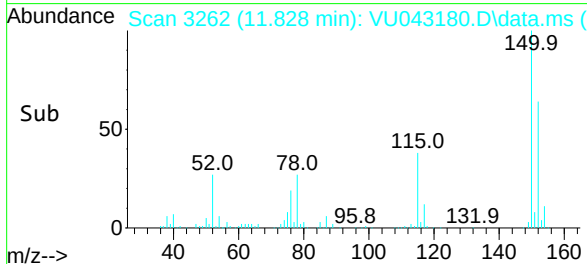
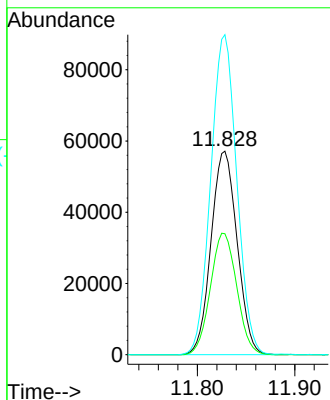
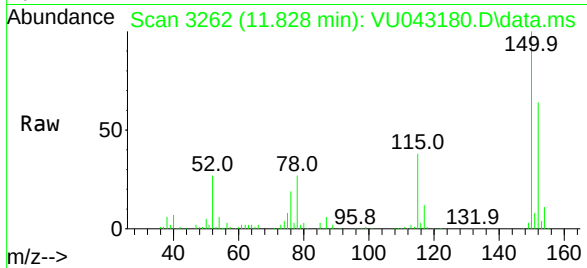




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 11.828 min Scan# 3262  
 Delta R.T. 0.009 min  
 Lab File: VU043180.D  
 Acq: 16 Apr 2021 19:42

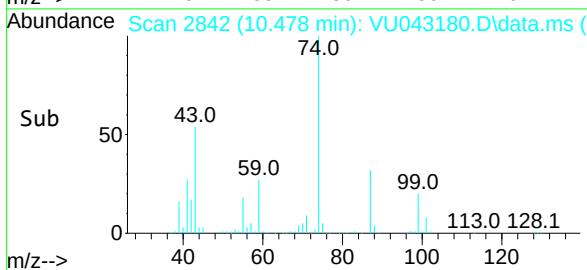
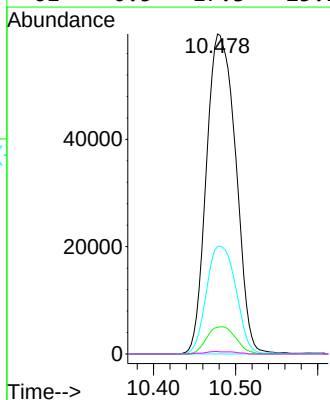
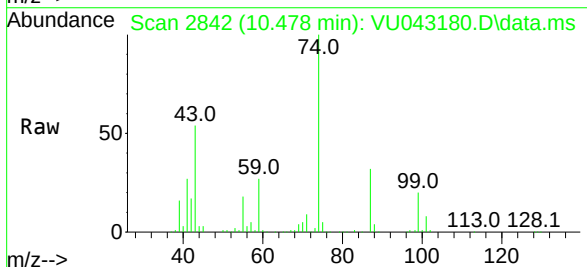
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VOC-TRIP-B

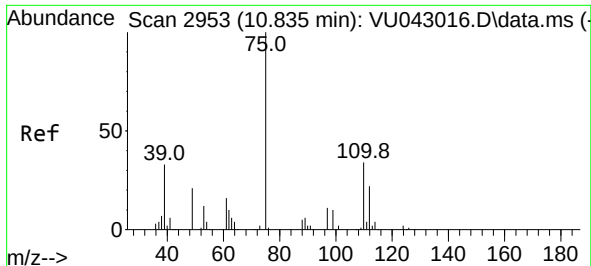
Tgt Ion:152 Resp: 106309  
 Ion Ratio Lower Upper  
 152 100  
 115 60.2 41.5 124.6  
 150 156.9 0.0 342.4



#74  
 N-ethyl acetate  
 Concen: 32.31 ug/l  
 RT: 10.478 min Scan# 2842  
 Delta R.T. 0.151 min  
 Lab File: VU043180.D  
 Acq: 16 Apr 2021 19:42

Tgt Ion: 43 Resp: 148121  
 Ion Ratio Lower Upper  
 43 100  
 70 8.4 28.3 42.5#  
 55 33.9 17.2 25.8#  
 61 0.5 17.3 25.9#

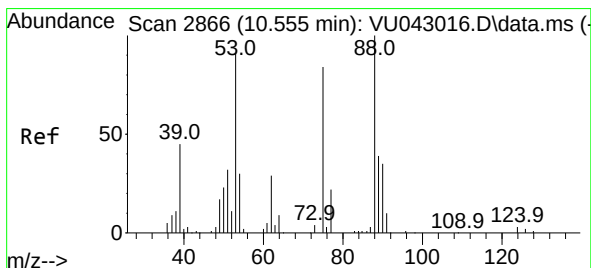
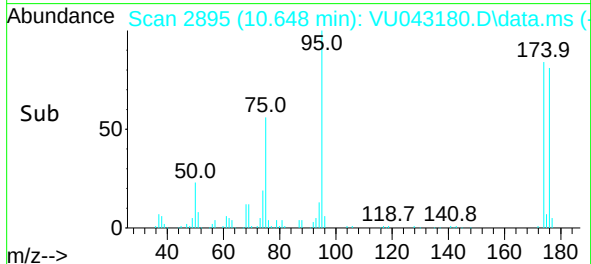
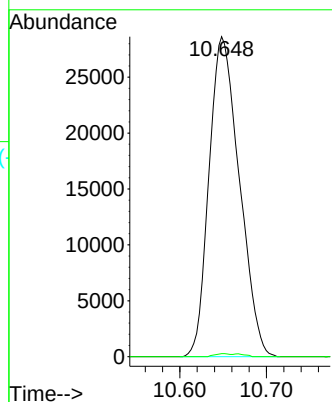
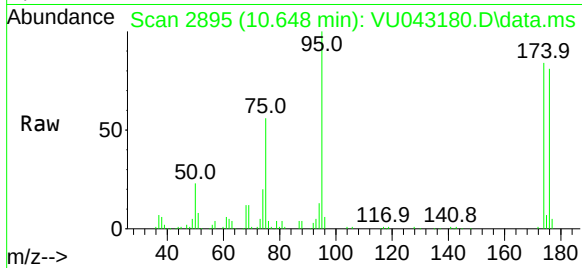




#76  
1,2,3-Trichloropropane  
Concen: 22.40 ug/l  
RT: 10.648 min Scan# 2895  
Delta R.T. -0.187 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

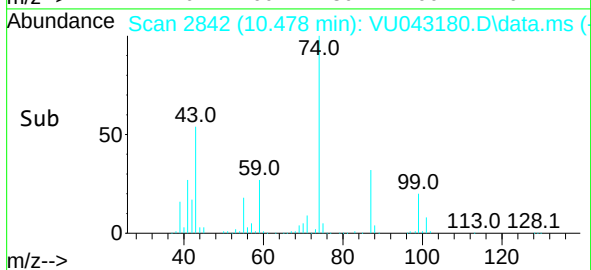
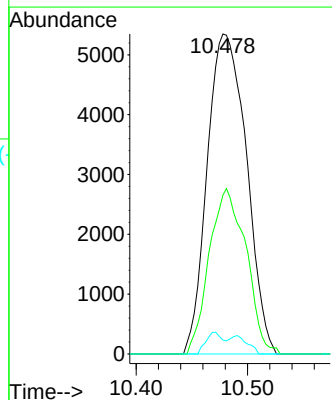
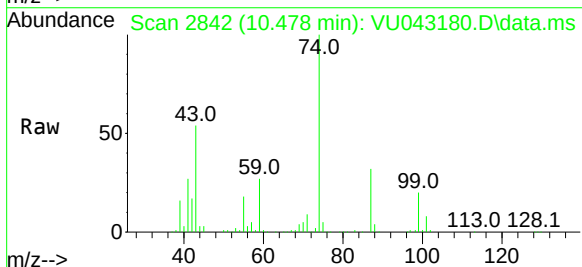
Instrument :  
MSVOA\_U  
ClientSampled :  
VOC-TRIP-B

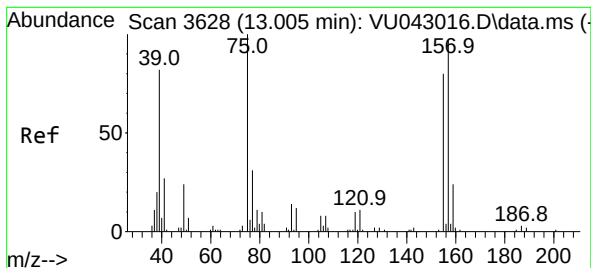
Tgt Ion: 75 Resp: 69599  
Ion Ratio Lower Upper  
75 100  
77 0.5 20.2 60.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 12.36 ug/l  
RT: 10.478 min Scan# 2842  
Delta R.T. -0.077 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

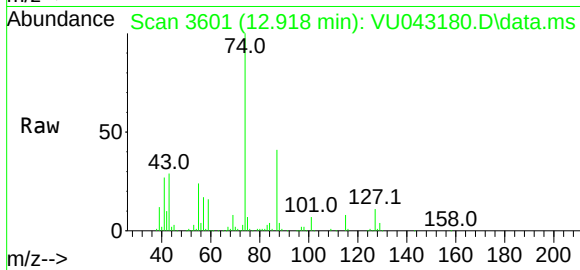
Tgt Ion: 75 Resp: 13069  
Ion Ratio Lower Upper  
75 100  
53 48.5 85.6 128.4#  
89 3.0 35.7 53.5#



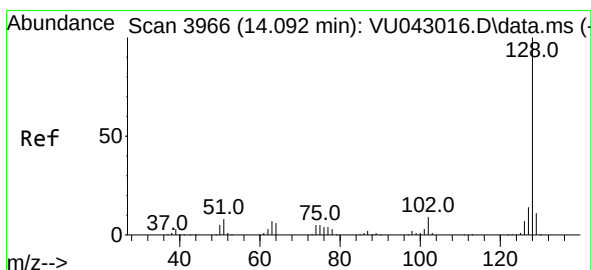
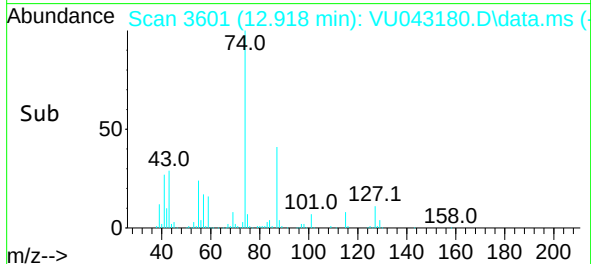
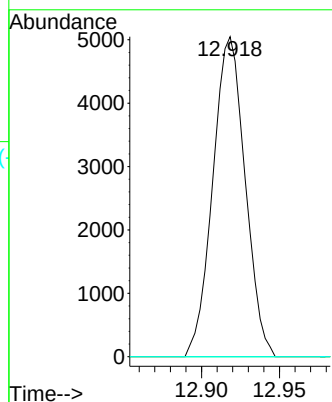


#92  
1,2-Dibromo-3-Chloropropane  
Concen: 8.27 ug/l  
RT: 12.918 min Scan# 3601  
Delta R.T. -0.087 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

Instrument :  
MSVOA\_U  
ClientSampleId :  
VOC-TRIP-B



Tgt Ion: 75 Resp: 7276  
Ion Ratio Lower Upper  
75 100  
155 0.0 41.7 125.1#  
157 0.0 53.9 161.7#



#95  
Naphthalene  
Concen: 2.89 ug/l  
RT: 14.092 min Scan# 3966  
Delta R.T. -0.000 min  
Lab File: VU043180.D  
Acq: 16 Apr 2021 19:42

Tgt Ion: 128 Resp: 1233  
Ion Ratio Lower Upper  
128 100  
127 1.7 10.8 16.2#  
129 0.0 8.6 13.0#

