

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU061021\  
 Data File : VU044161.D  
 Acq On : 10 Jun 2021 17:21  
 Operator : SY/MD  
 Sample : M2651-09  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jun 11 01:21:20 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U060921W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 10 05:11:37 2021  
 Response via : Initial Calibration

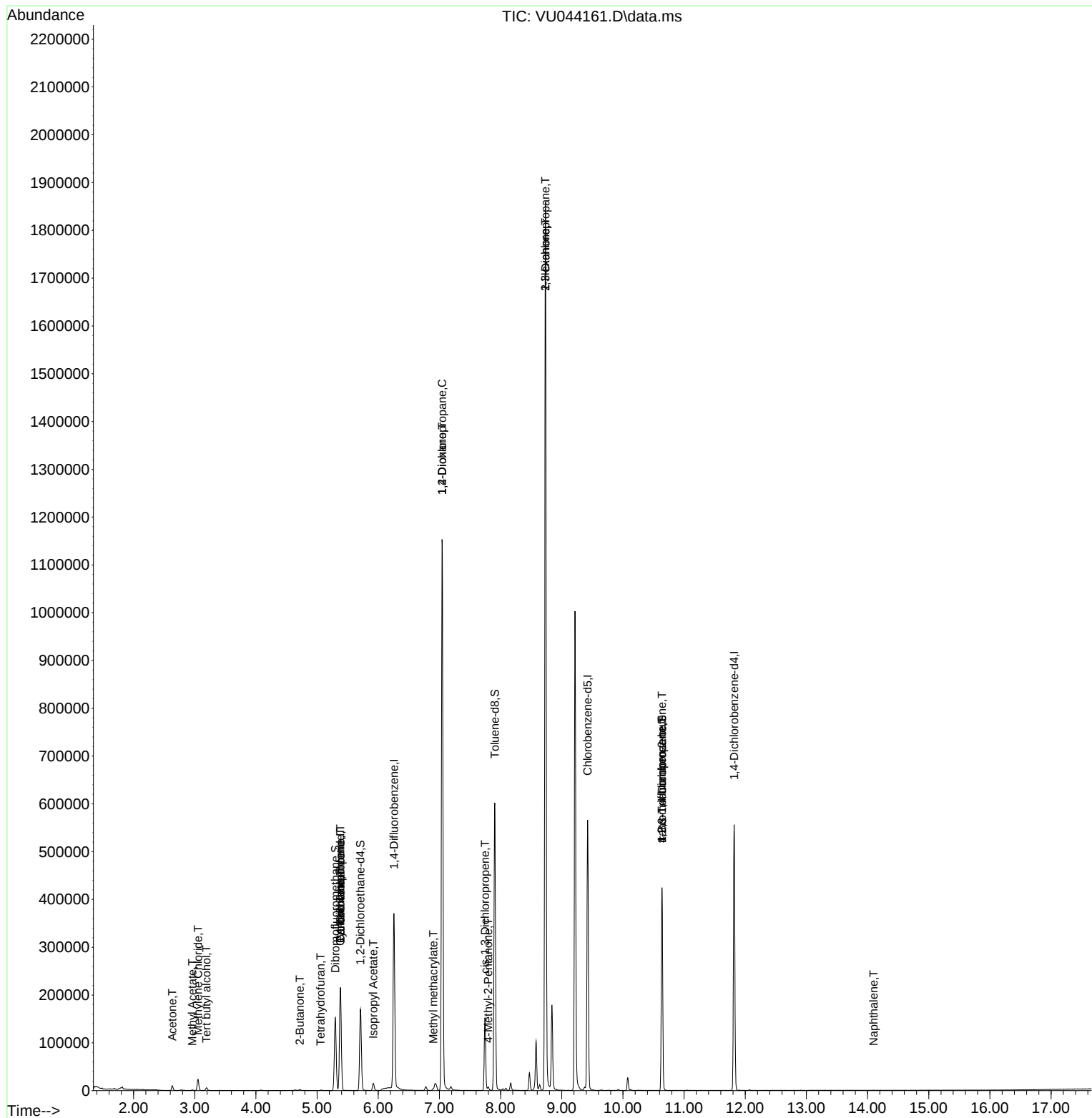
| Compound                      | R.T.   | QIon | Response | Conc      | Units    | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|----------|----------|
| Internal Standards            |        |      |          |           |          |          |
| 1) Pentafluorobenzene         | 5.382  | 168  | 141291   | 50.000    | ug/l     | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.256  | 114  | 284430   | 50.000    | ug/l     | 0.00     |
| 63) Chlorobenzene-d5          | 9.423  | 117  | 300744   | 50.000    | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.819 | 152  | 140758   | 50.000    | ug/l     | 0.00     |
| System Monitoring Compounds   |        |      |          |           |          |          |
| 33) 1,2-Dichloroethane-d4     | 5.710  | 65   | 124872   | 55.576    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =         | 111.160% |          |
| 35) Dibromofluoromethane      | 5.298  | 113  | 99277    | 50.176    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =         | 100.360% |          |
| 50) Toluene-d8                | 7.906  | 98   | 391608   | 51.536    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =         | 103.080% |          |
| 62) 4-Bromofluorobenzene      | 10.639 | 95   | 144842   | 47.565    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =         | 95.120%  |          |
| Target Compounds              |        |      |          |           |          |          |
|                               |        |      |          |           | Qvalue   |          |
| 3) Chloromethane              | 1.523  | 50   | 450      | Below Cal | 100      |          |
| 6) Chloroethane               | 1.919  | 64   | 103      | Below Cal | #        | 42       |
| 11) Tert butyl alcohol        | 3.192  | 59   | 3865     | 6.394     | ug/l #   | 73       |
| 16) Acetone                   | 2.633  | 43   | 11683    | 7.997     | ug/l     | 96       |
| 18) Methyl Acetate            | 2.960  | 43   | 1977     | 0.684     | ug/l #   | 82       |
| 20) Methylene Chloride        | 3.054  | 84   | 11492    | 4.587     | ug/l     | 97       |
| 25) 2-Butanone                | 4.719  | 43   | 3473     | 1.852     | ug/l #   | 82       |
| 29) Tetrahydrofuran           | 5.057  | 42   | 745      | 0.731     | ug/l #   | 56       |
| 31) Cyclohexane               | 5.378  | 56   | 3182     | 1.003     | ug/l #   | 1        |
| 36) 1,1-Dichloropropene       | 5.382  | 75   | 12381    | 3.913     | ug/l #   | 50       |
| 38) Carbon Tetrachloride      | 5.382  | 117  | 14890    | 5.212     | ug/l #   | 17       |
| 43) Isopropyl Acetate         | 5.919  | 43   | 16093    | 2.993     | ug/l     | 99       |
| 45) 1,2-Dichloropropane       | 7.044  | 63   | 1370     | 0.538     | ug/l #   | 43       |
| 48) Methyl methacrylate       | 6.899  | 41   | 5910     | 2.259     | ug/l #   | 11       |
| 49) 1,4-Dioxane               | 7.044  | 88   | 40       | 0.585     | ug/l #   | 1        |
| 51) 4-Methyl-2-Pentanone      | 7.796  | 43   | 4418     | 1.135     | ug/l     | 92       |
| 54) cis-1,3-Dichloropropene   | 7.745  | 75   | 27791    | 7.287     | ug/l #   | 64       |
| 57) 1,3-Dichloropropane       | 8.732  | 76   | 18696    | 4.514     | ug/l #   | 42       |
| 59) 2-Hexanone                | 8.732  | 43   | 238924   | 76.935    | ug/l #   | 49       |
| 76) 1,2,3-Trichloropropane    | 10.639 | 75   | 74122    | 15.706    | ug/l #   | 47       |
| 81) trans-1,4-Dichloro-2-b... | 10.639 | 75   | 74122    | 56.934    | ug/l #   | 13       |
| 95) Naphthalene               | 14.098 | 128  | 319      | 2.866     | ug/l #   | 69       |

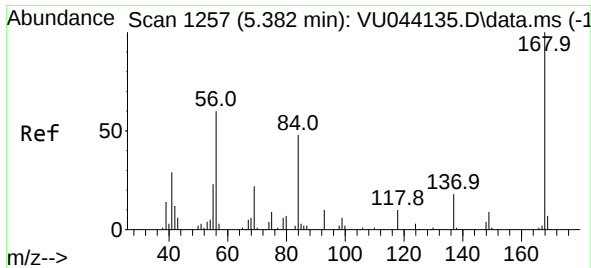
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU061021\  
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Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Jun 11 01:21:20 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U060921W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 10 05:11:37 2021  
Response via : Initial Calibration

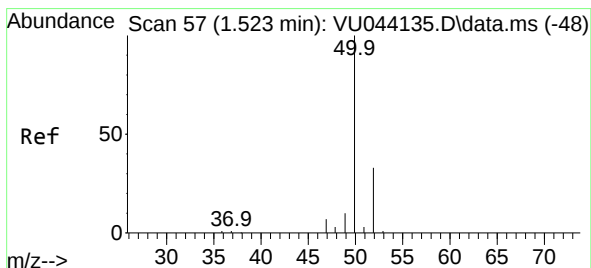
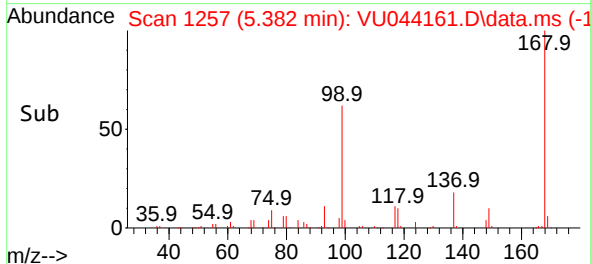
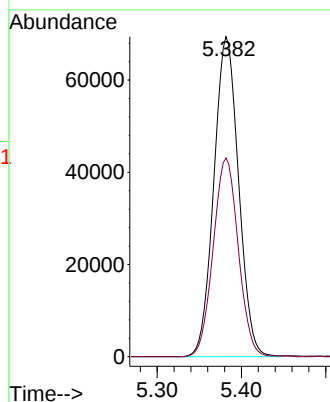
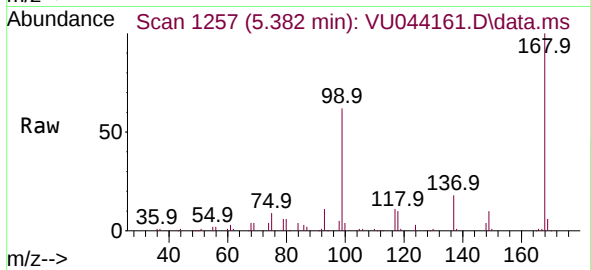




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.382 min Scan# 1257  
Delta R.T. -0.000 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

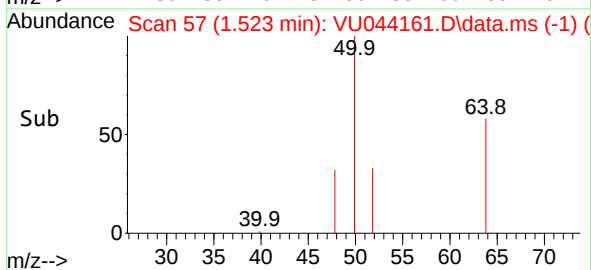
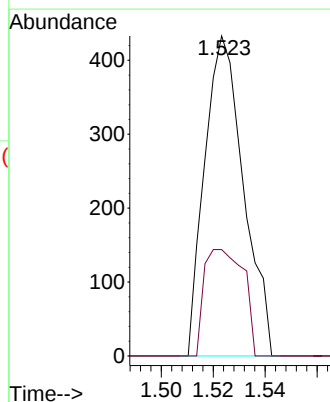
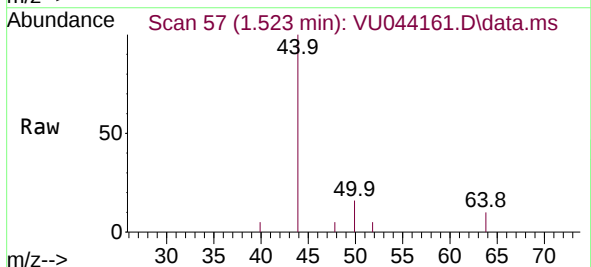
Instrument :  
MSVOA\_U  
ClientSampled :

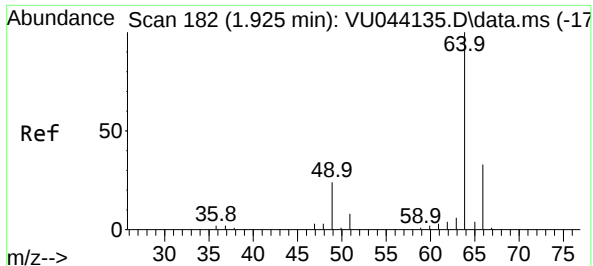
Tgt Ion:168 Resp: 141291  
Ion Ratio Lower Upper  
168 100  
99 62.1 51.3 76.9



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.523 min Scan# 57  
Delta R.T. 0.000 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

Tgt Ion: 50 Resp: 450  
Ion Ratio Lower Upper  
50 100  
52 33.3 26.6 39.8

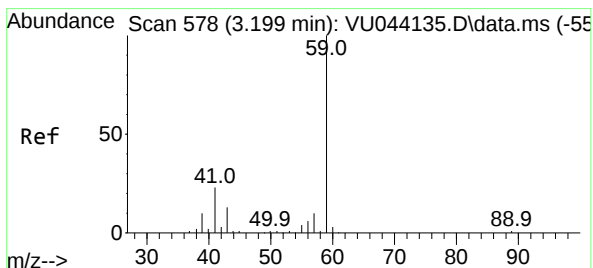
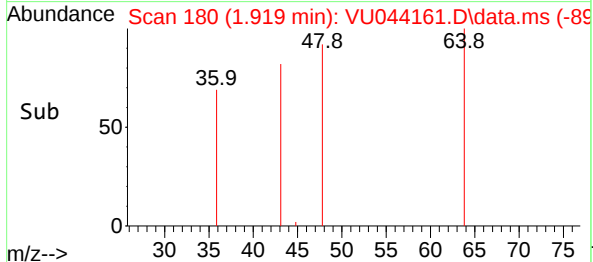
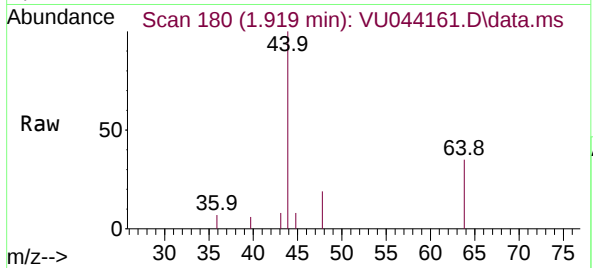




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.919 min Scan# 180  
Delta R.T. -0.006 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

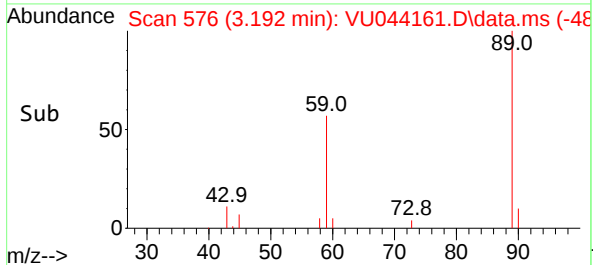
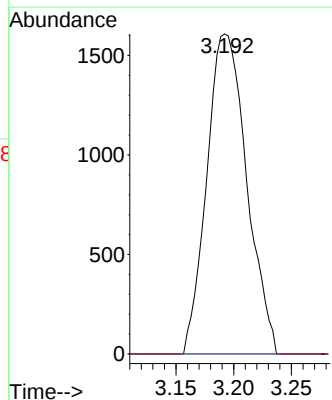
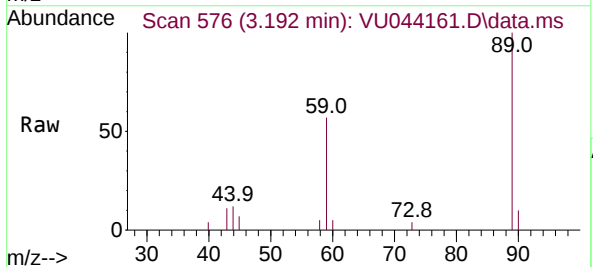
Instrument :  
MSVOA\_U  
ClientSampled :

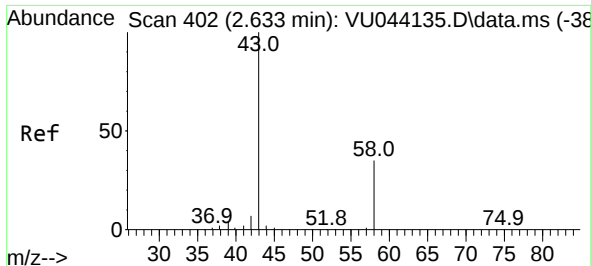
Tgt Ion: 64 Resp: 103  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.1 39.1#



#11  
Tert butyl alcohol  
Concen: 6.394 ug/l  
RT: 3.192 min Scan# 576  
Delta R.T. -0.007 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

Tgt Ion: 59 Resp: 3865  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.0 12.0#

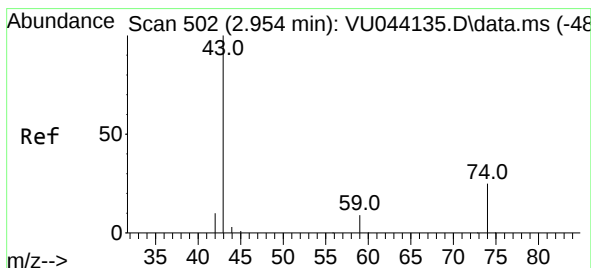
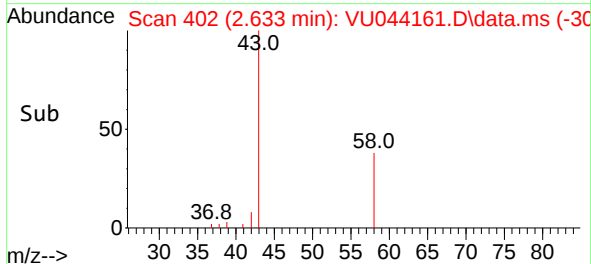
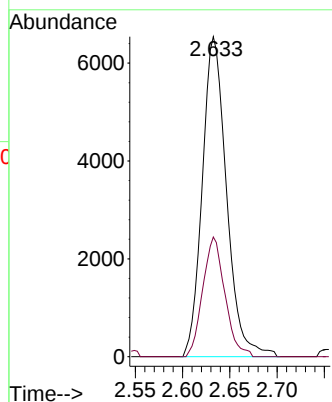
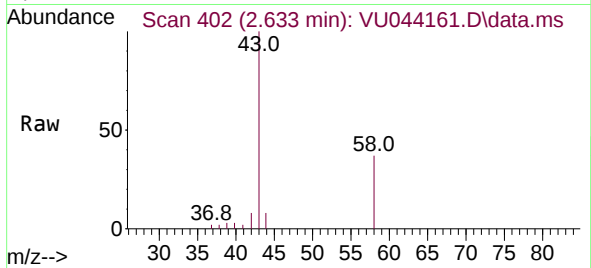




#16  
Acetone  
Concen: 7.997 ug/l  
RT: 2.633 min Scan# 402  
Delta R.T. -0.000 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

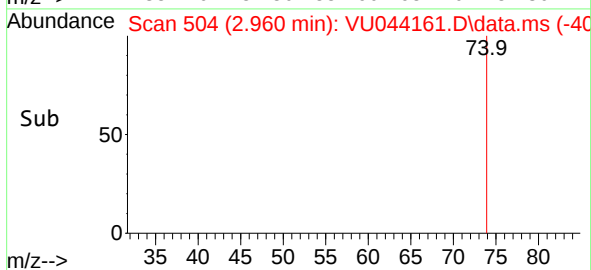
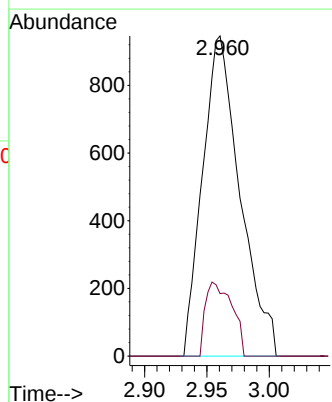
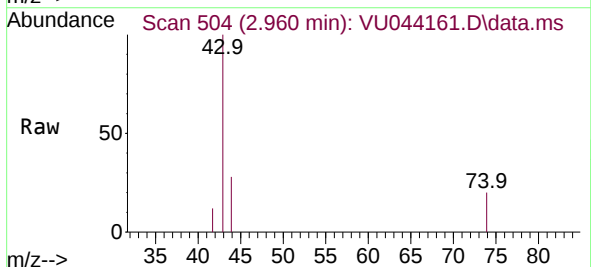
Instrument :  
MSVOA\_U  
ClientSampleId :

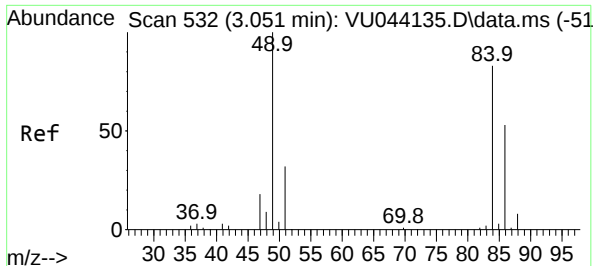
Tgt Ion: 43 Resp: 11683  
Ion Ratio Lower Upper  
43 100  
58 37.4 28.0 42.0



#18  
Methyl Acetate  
Concen: 0.684 ug/l  
RT: 2.960 min Scan# 504  
Delta R.T. 0.006 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

Tgt Ion: 43 Resp: 1977  
Ion Ratio Lower Upper  
43 100  
74 16.4 20.3 30.5#





#20

Methylene Chloride

Concen: 4.587 ug/l

RT: 3.054 min Scan# 533

Delta R.T. 0.003 min

Lab File: VU044161.D

Acq: 10 Jun 2021 17:21

Instrument :  
MSVOA\_U  
ClientSampled :

Tgt Ion: 84 Resp: 11492

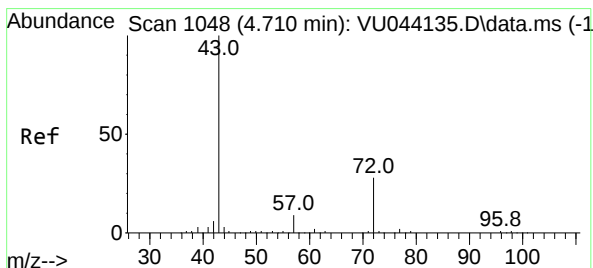
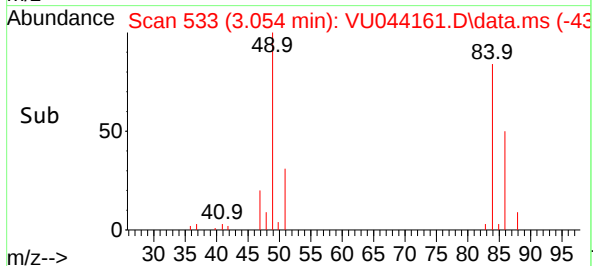
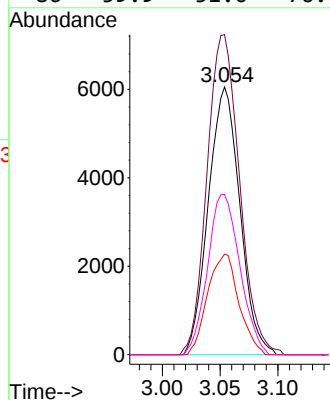
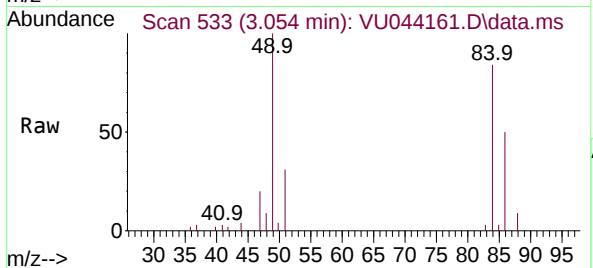
Ion Ratio Lower Upper

84 100

49 119.6 96.9 145.3

51 37.6 31.0 46.6

86 59.9 51.0 76.6



#25

2-Butanone

Concen: 1.852 ug/l

RT: 4.719 min Scan# 1051

Delta R.T. 0.009 min

Lab File: VU044161.D

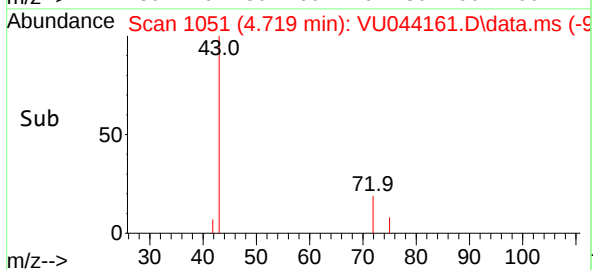
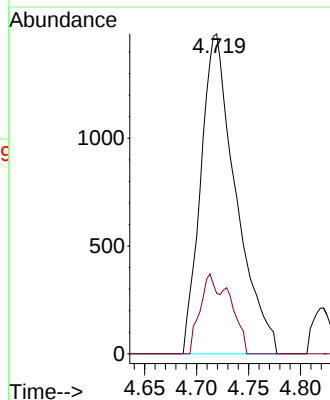
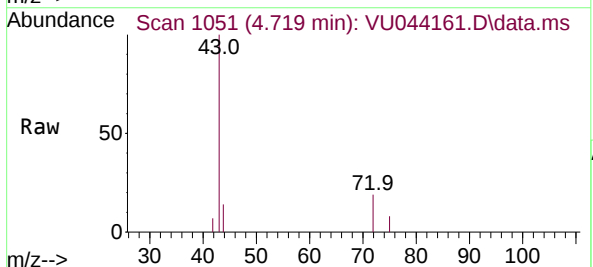
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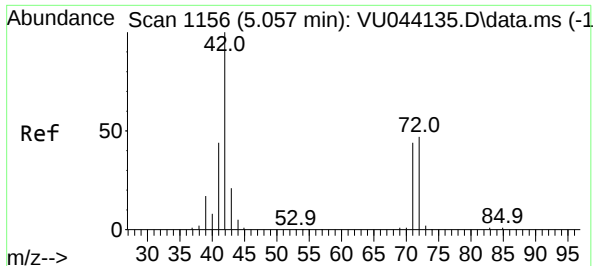
Tgt Ion: 43 Resp: 3473

Ion Ratio Lower Upper

43 100

72 18.9 22.6 33.8#





#29

Tetrahydrofuran

Concen: 0.731 ug/l

RT: 5.057 min Scan# 1156

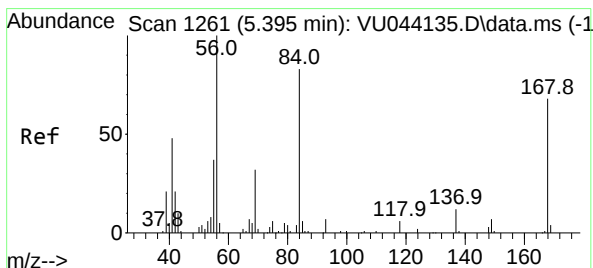
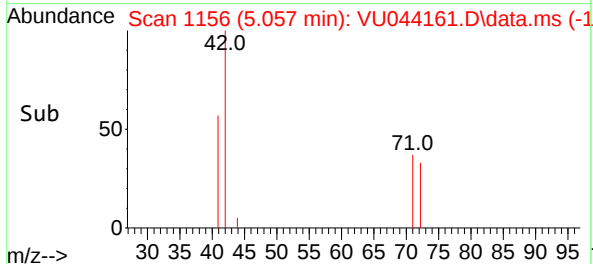
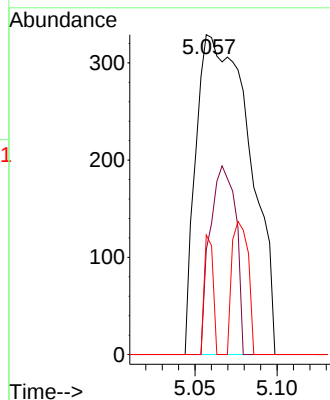
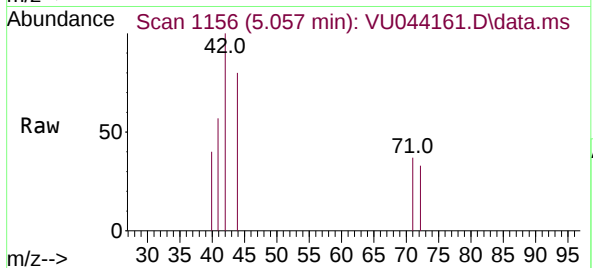
Delta R.T. -0.000 min

Lab File: VU044161.D

Acq: 10 Jun 2021 17:21

Instrument :  
MSVOA\_U  
ClientSampled :

|             |                 |
|-------------|-----------------|
| Tgt Ion: 42 | Resp: 745       |
| Ion Ratio   | Lower Upper     |
| 42          | 100             |
| 72          | 28.3 38.6 57.8# |
| 71          | 6.0 35.5 53.3#  |



#31

Cyclohexane

Concen: 1.003 ug/l

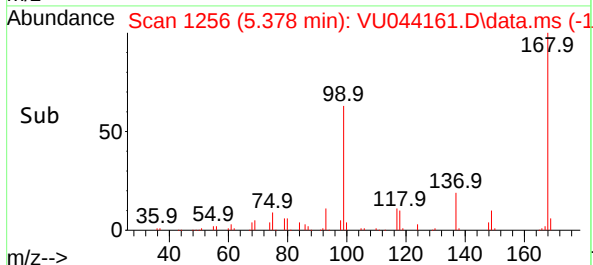
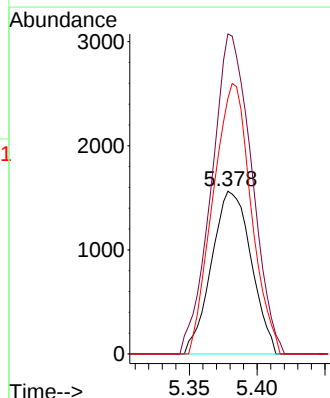
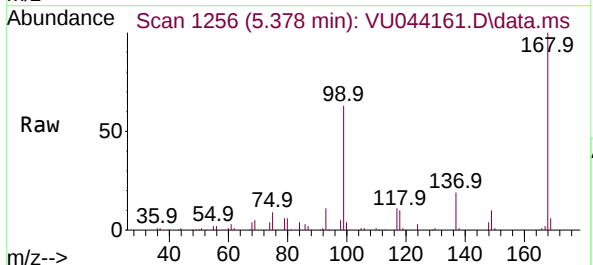
RT: 5.378 min Scan# 1256

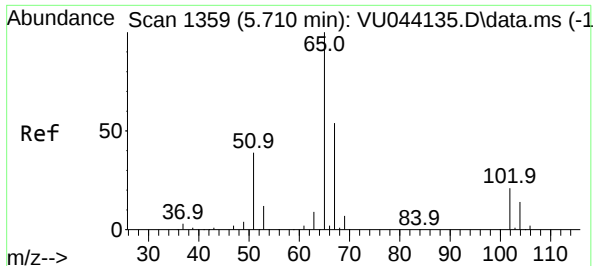
Delta R.T. -0.017 min

Lab File: VU044161.D

Acq: 10 Jun 2021 17:21

|             |                  |
|-------------|------------------|
| Tgt Ion: 56 | Resp: 3182       |
| Ion Ratio   | Lower Upper      |
| 56          | 100              |
| 69          | 196.5 25.5 38.3# |
| 84          | 156.9 66.3 99.5# |



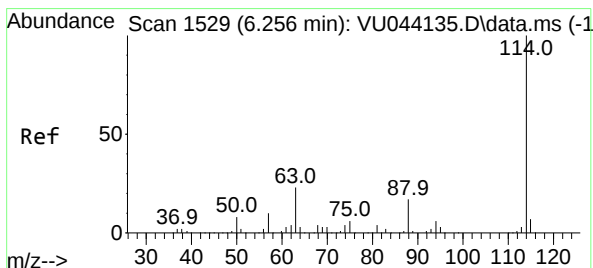
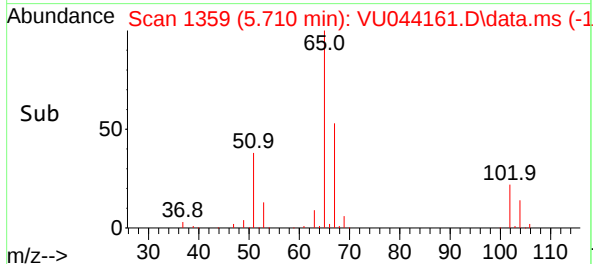
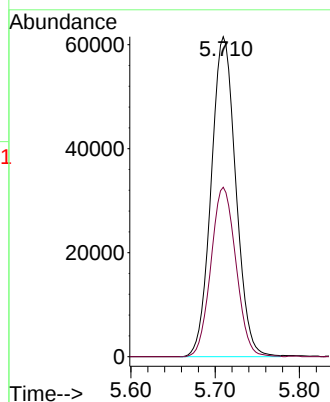
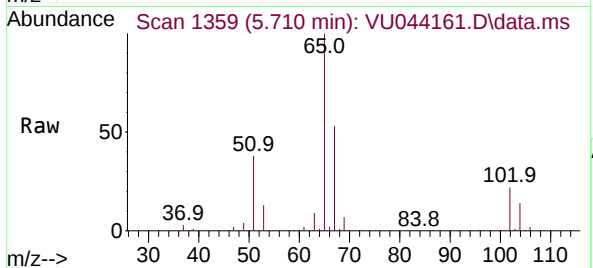


#33

1,2-Dichloroethane-d4  
Concen: 55.576 ug/l  
RT: 5.710 min Scan# 1359  
Delta R.T. -0.000 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

Instrument :  
MSVOA\_U  
ClientSampleId :

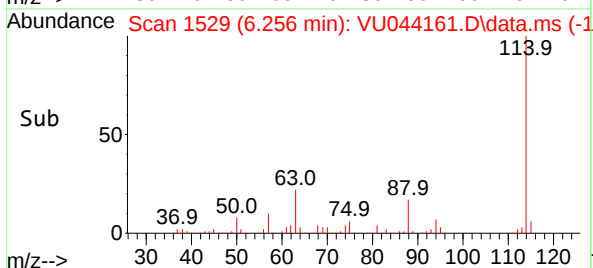
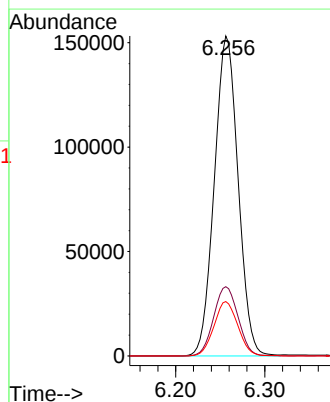
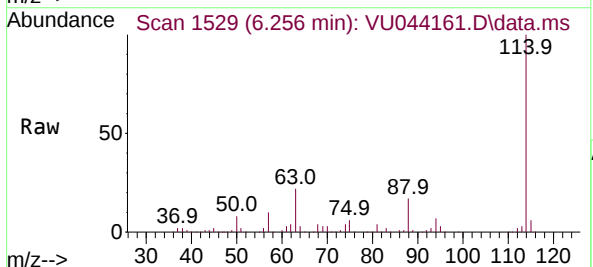
Tgt Ion: 65 Resp: 124872  
Ion Ratio Lower Upper  
65 100  
67 53.6 0.0 106.6

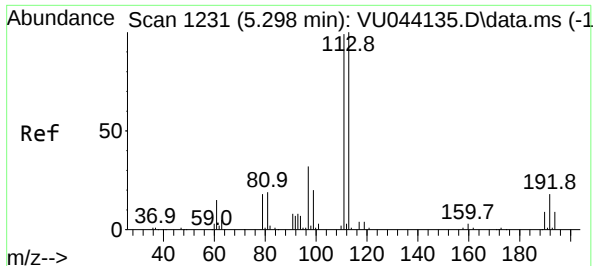


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.256 min Scan# 1529  
Delta R.T. 0.000 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

Tgt Ion: 114 Resp: 284430  
Ion Ratio Lower Upper  
114 100  
63 21.6 0.0 45.8  
88 17.0 0.0 34.0

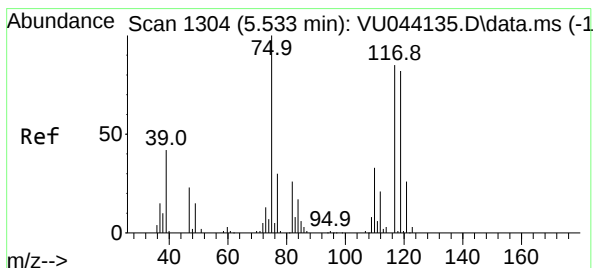
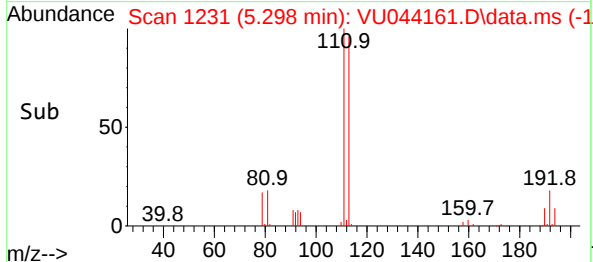
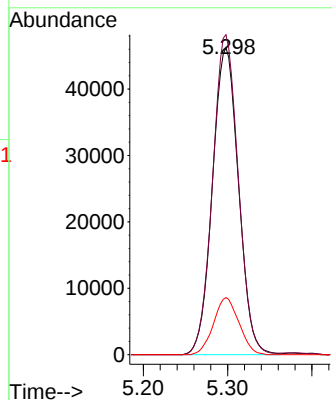
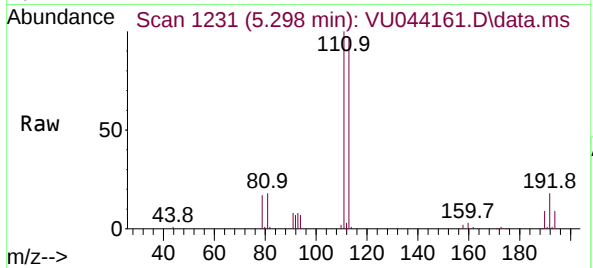




#35  
Dibromofluoromethane  
Concen: 50.176 ug/l  
RT: 5.298 min Scan# 1231  
Delta R.T. 0.000 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

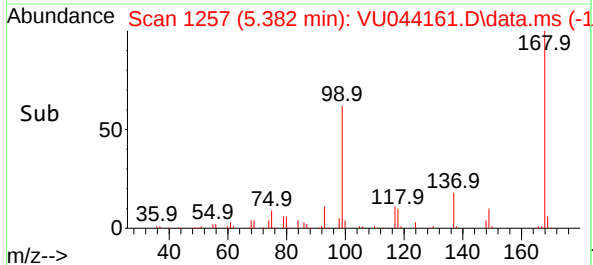
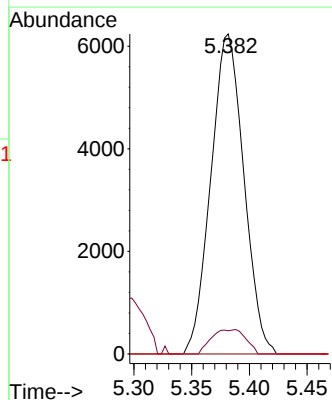
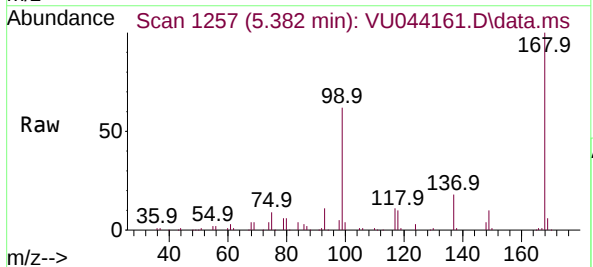
Instrument :  
MSVOA\_U  
ClientSampleId :

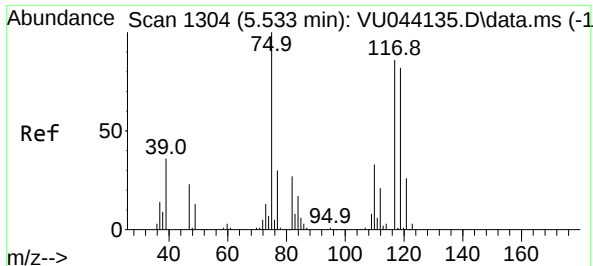
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 99277 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 102.7 | 81.0  | 121.4 |
| 192      | 18.1  | 14.3  | 21.5  |



#36  
1,1-Dichloropropene  
Concen: 3.913 ug/l  
RT: 5.382 min Scan# 1257  
Delta R.T. -0.151 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

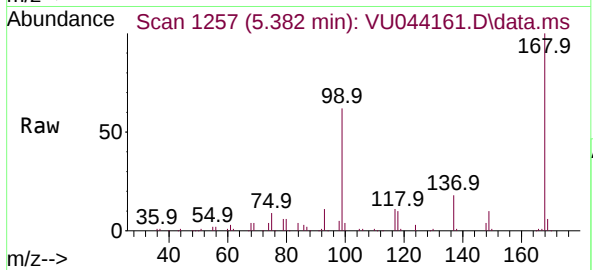
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 12381 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 7.9   | 16.4  | 49.4# |
| 77       | 0.0   | 24.7  | 37.1# |



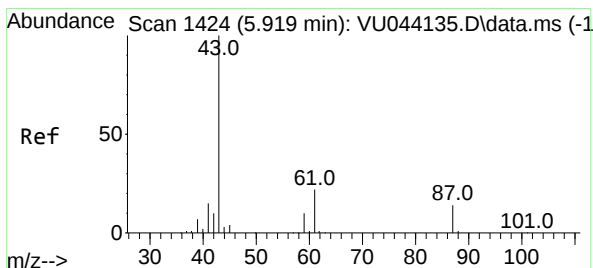
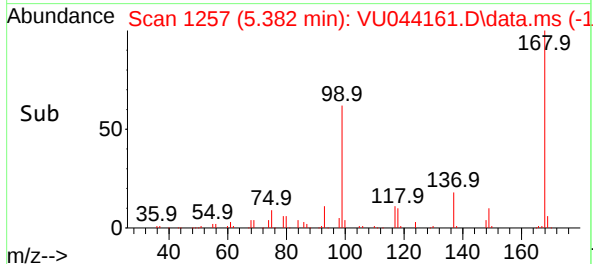
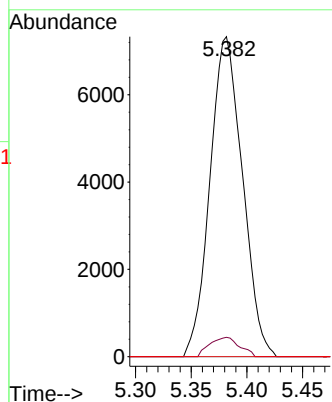


#38  
Carbon Tetrachloride  
Concen: 5.212 ug/l  
RT: 5.382 min Scan# 1257  
Delta R.T. -0.151 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

Instrument :  
MSVOA\_U  
ClientSampled :

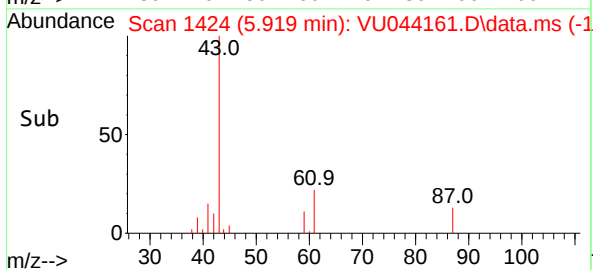
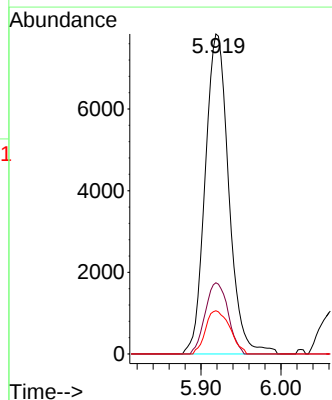
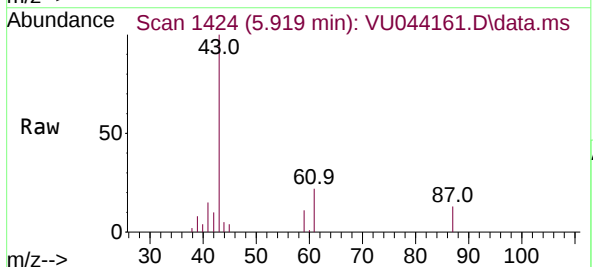


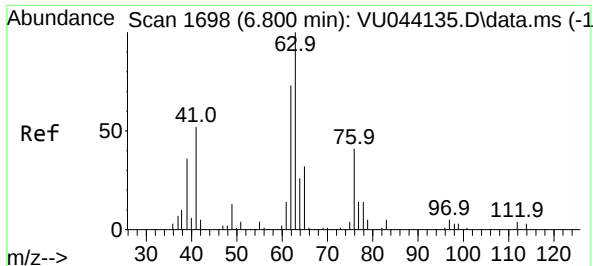
Tgt Ion:117 Resp: 14890  
Ion Ratio Lower Upper  
117 100  
119 6.0 76.6 114.8#  
121 0.0 24.6 36.8#



#43  
Isopropyl Acetate  
Concen: 2.993 ug/l  
RT: 5.919 min Scan# 1424  
Delta R.T. -0.000 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

Tgt Ion: 43 Resp: 16093  
Ion Ratio Lower Upper  
43 100  
61 21.5 17.8 26.8  
87 13.9 11.1 16.7



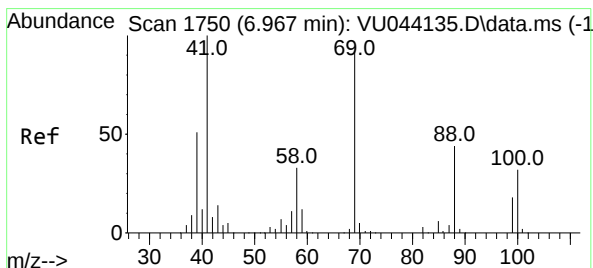
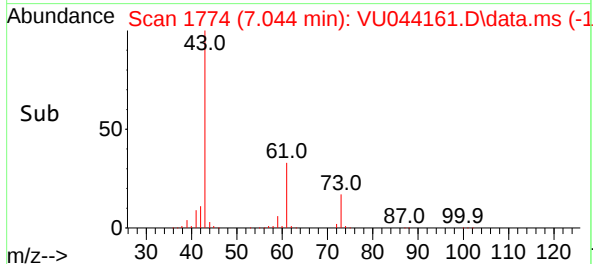
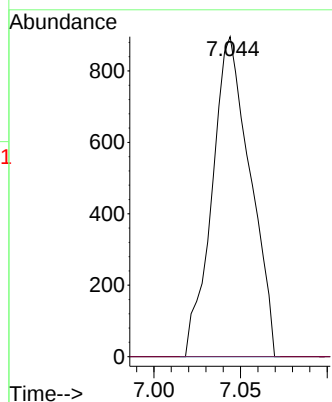
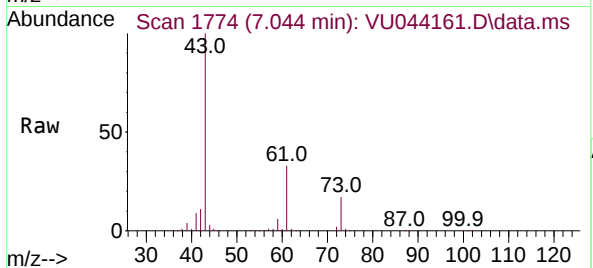


#45

1,2-Dichloropropane  
Concen: 0.538 ug/l  
RT: 7.044 min Scan# 1774  
Delta R.T. 0.244 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

Instrument :  
MSVOA\_U  
ClientSampled :

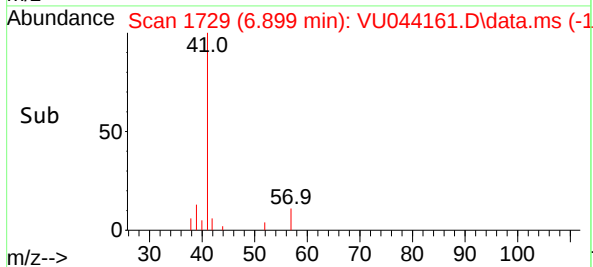
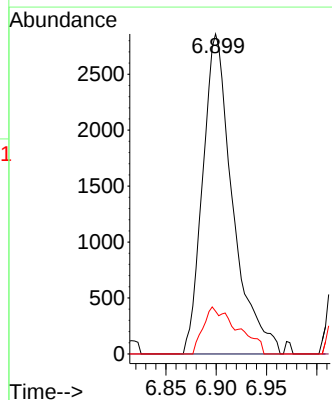
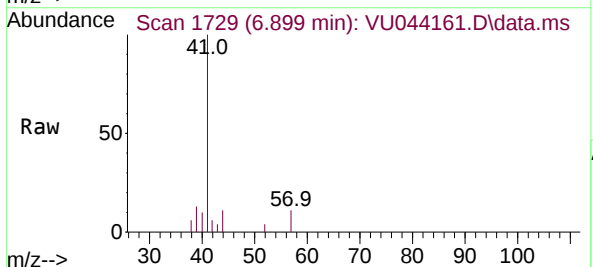
Tgt Ion: 63 Resp: 1370  
Ion Ratio Lower Upper  
63 100  
65 0.0 25.7 38.5#

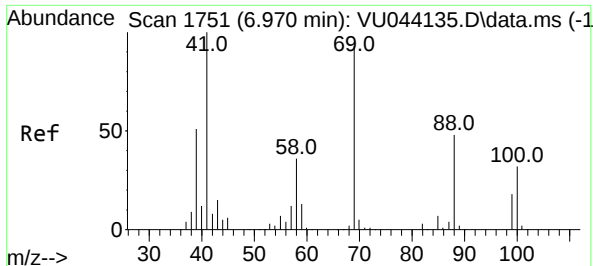


#48

Methyl methacrylate  
Concen: 2.259 ug/l  
RT: 6.899 min Scan# 1729  
Delta R.T. -0.068 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

Tgt Ion: 41 Resp: 5910  
Ion Ratio Lower Upper  
41 100  
69 0.0 74.0 111.0#  
39 0.0 41.5 62.3#





#49

1,4-Dioxane

Concen: 0.585 ug/l

RT: 7.044 min Scan# 1774

Delta R.T. 0.074 min

Lab File: VU044161.D

Acq: 10 Jun 2021 17:21

Tgt Ion: 88 Resp: 40

Ion Ratio Lower Upper

88 100

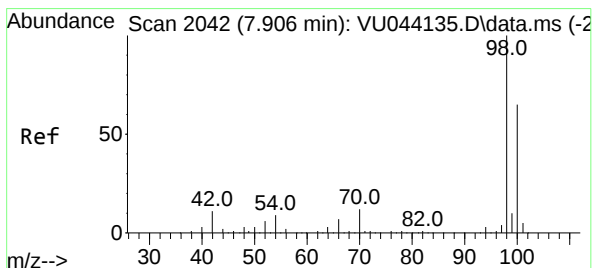
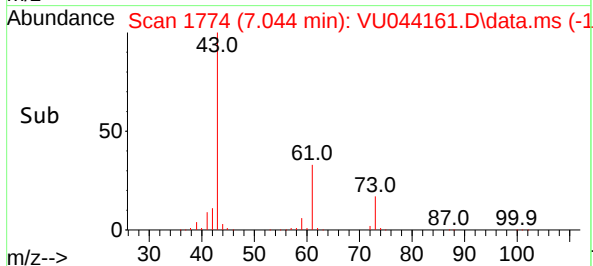
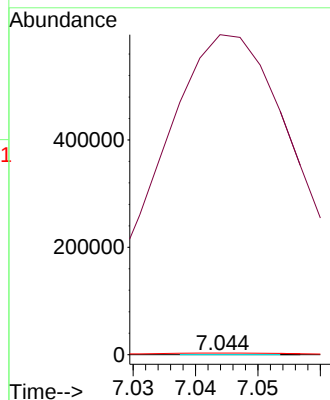
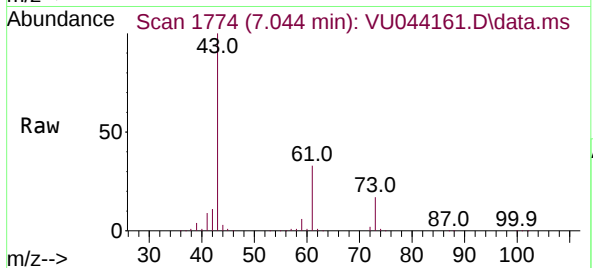
43 2556415.0 23.4 35.0#

58 14027.5 58.1 87.1#

Instrument :

MSVOA\_U

ClientSampled :



#50

Toluene-d8

Concen: 51.536 ug/l

RT: 7.906 min Scan# 2042

Delta R.T. -0.000 min

Lab File: VU044161.D

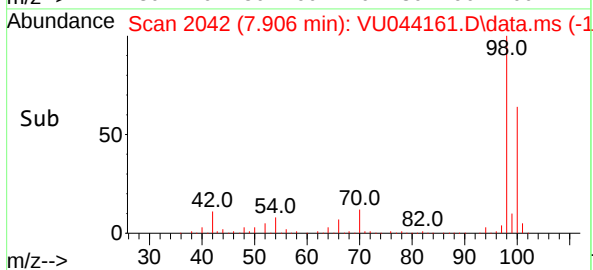
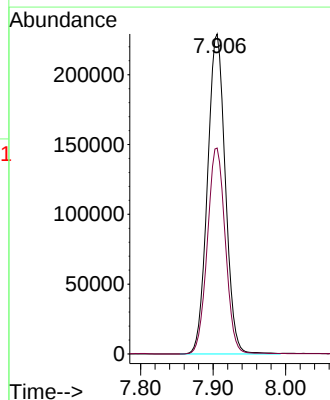
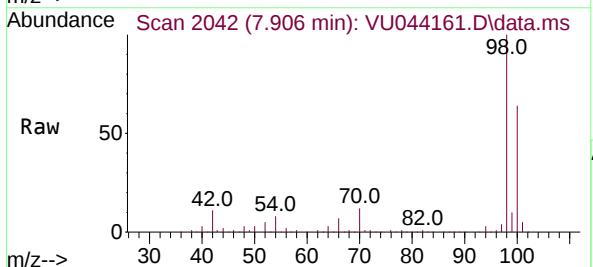
Acq: 10 Jun 2021 17:21

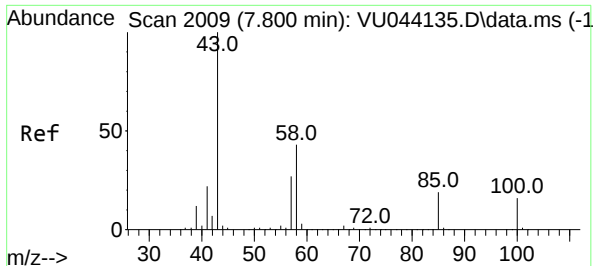
Tgt Ion: 98 Resp: 391608

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.4

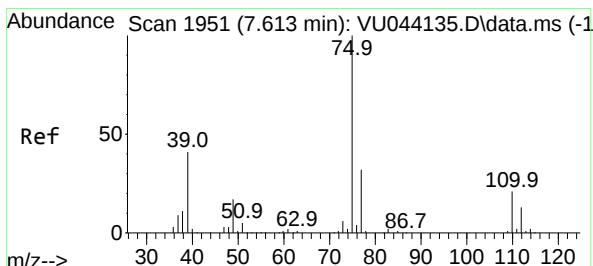
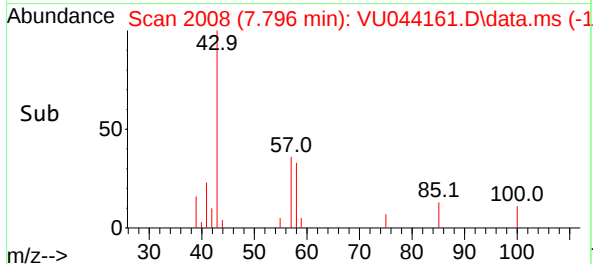
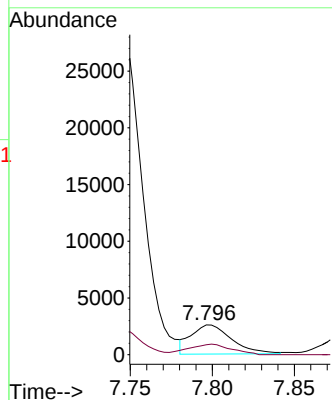
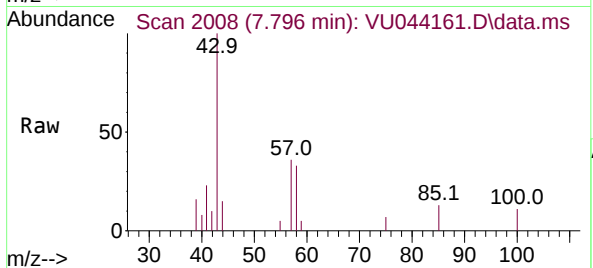




#51  
4-Methyl-2-Pentanone  
Concen: 1.135 ug/l  
RT: 7.796 min Scan# 2008  
Delta R.T. -0.004 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

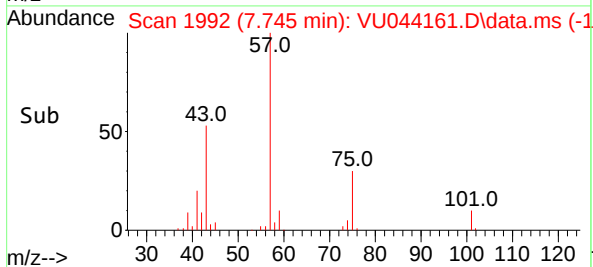
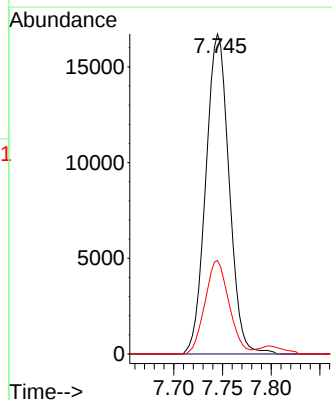
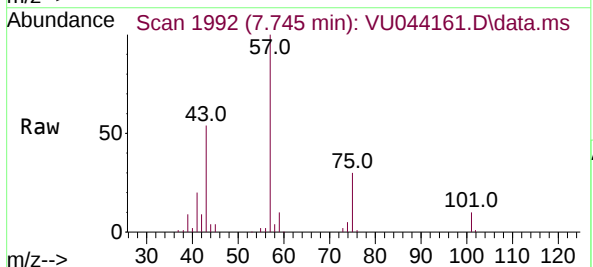
Instrument :  
MSVOA\_U  
ClientSampled :

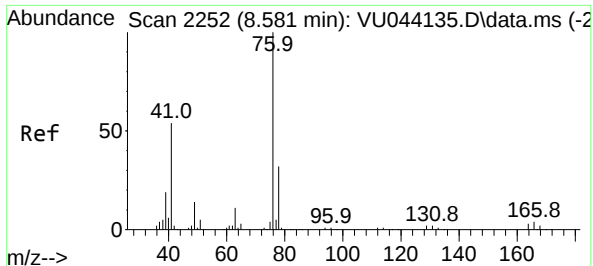
Tgt Ion: 43 Resp: 4418  
Ion Ratio Lower Upper  
43 100  
58 37.8 34.5 51.7



#54  
cis-1,3-Dichloropropene  
Concen: 7.287 ug/l  
RT: 7.745 min Scan# 1992  
Delta R.T. 0.132 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

Tgt Ion: 75 Resp: 27791  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.9 38.9#  
39 29.2 33.2 49.8#



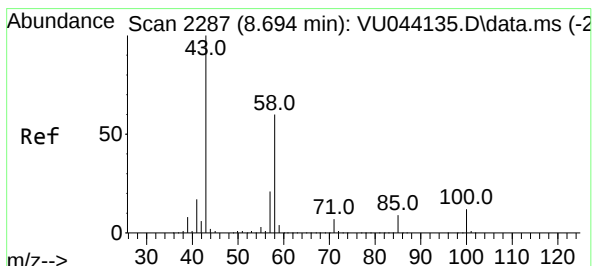
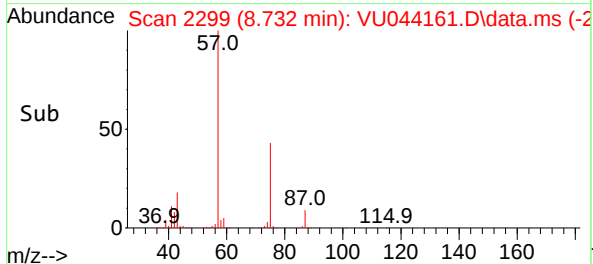
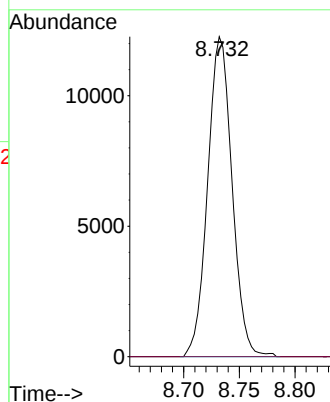
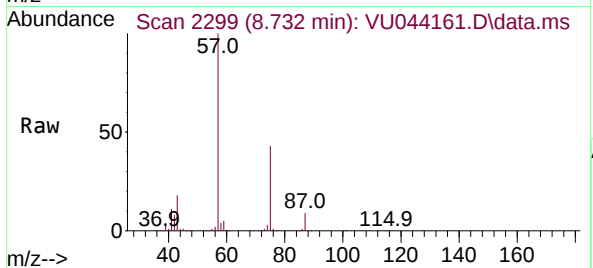


#57

1,3-Dichloropropane  
Concen: 4.514 ug/l  
RT: 8.732 min Scan# 2299  
Delta R.T. 0.151 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

Instrument :  
MSVOA\_U  
ClientSampled :

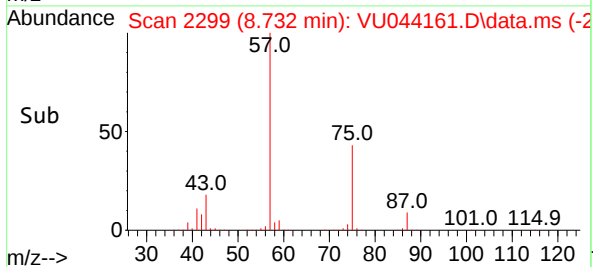
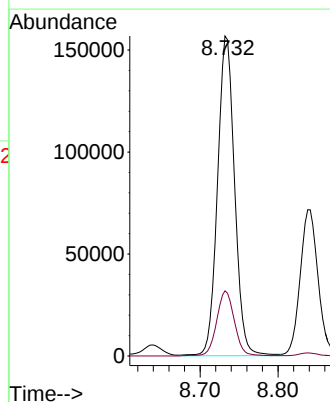
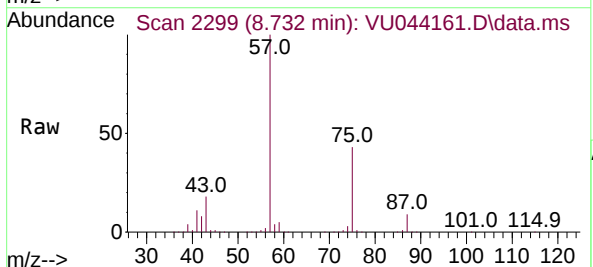
Tgt Ion: 76 Resp: 18696  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.9 38.9#

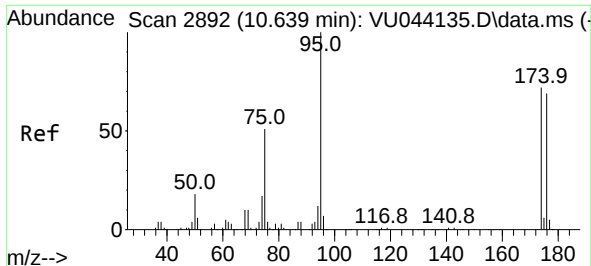


#59

2-Hexanone  
Concen: 76.935 ug/l  
RT: 8.732 min Scan# 2299  
Delta R.T. 0.038 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

Tgt Ion: 43 Resp: 238924  
Ion Ratio Lower Upper  
43 100  
58 21.1 30.0 90.1#

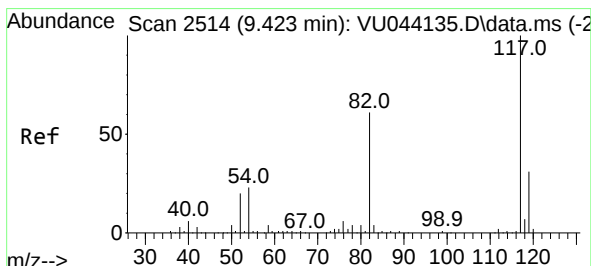
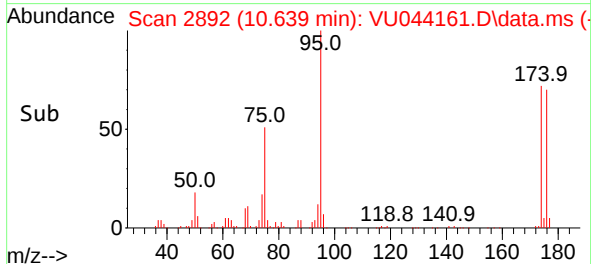
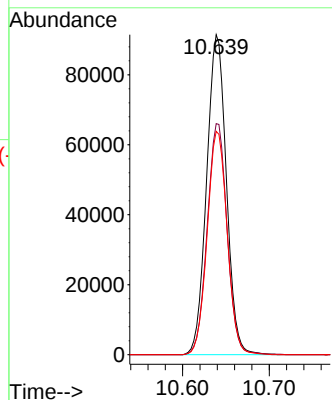
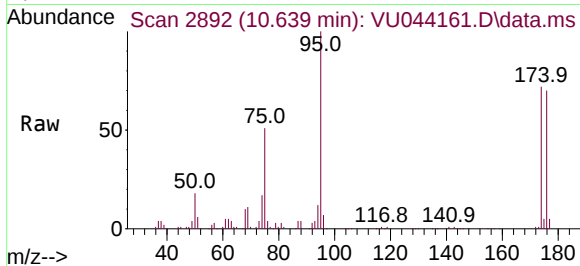




#62  
4-Bromofluorobenzene  
Concen: 47.565 ug/l  
RT: 10.639 min Scan# 2892  
Delta R.T. -0.000 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

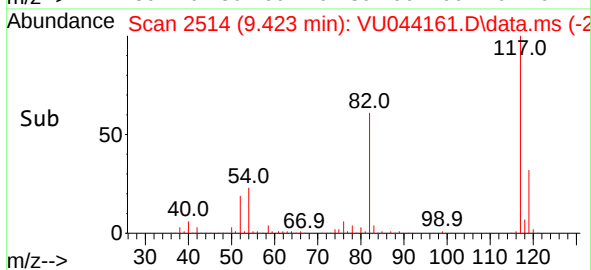
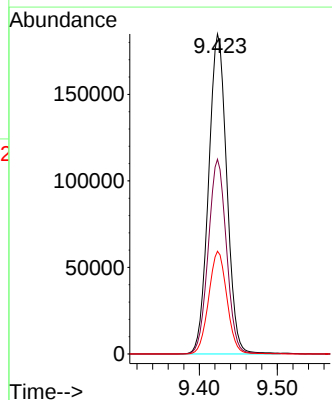
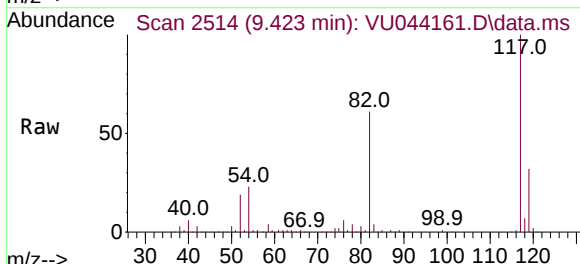
Instrument :  
MSVOA\_U  
ClientSampleId :

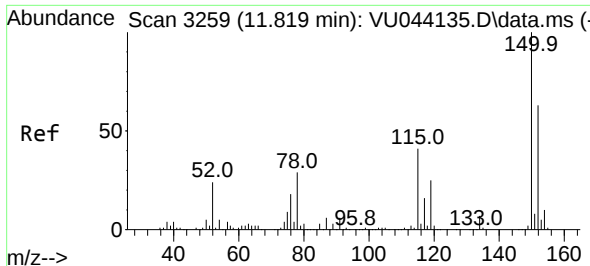
Tgt Ion: 95 Resp: 144842  
Ion Ratio Lower Upper  
95 100  
174 72.8 0.0 144.4  
176 70.6 0.0 138.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.423 min Scan# 2514  
Delta R.T. -0.000 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

Tgt Ion: 117 Resp: 300744  
Ion Ratio Lower Upper  
117 100  
82 60.8 48.8 73.2  
119 32.1 25.0 37.6

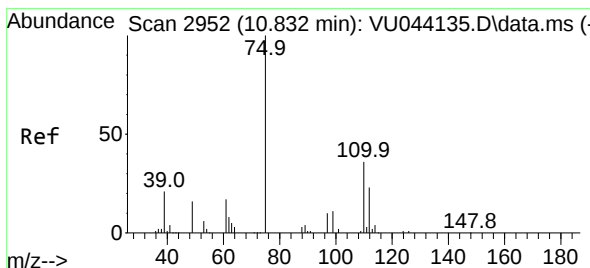
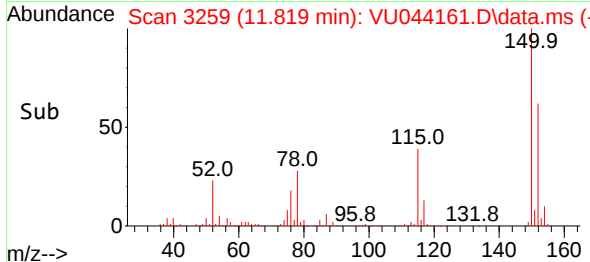
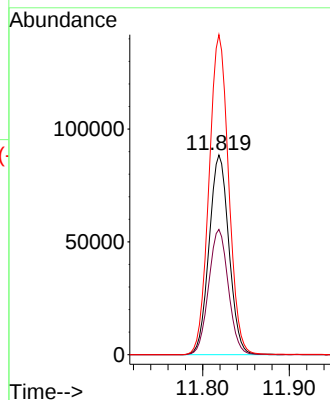
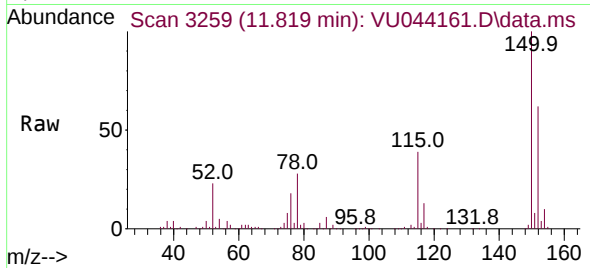




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 11.819 min Scan# 3259  
 Delta R.T. -0.000 min  
 Lab File: VU044161.D  
 Acq: 10 Jun 2021 17:21

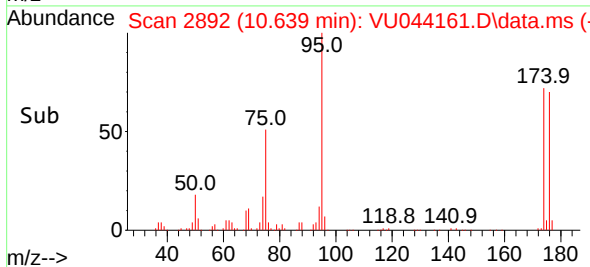
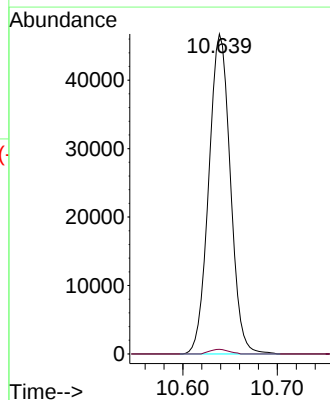
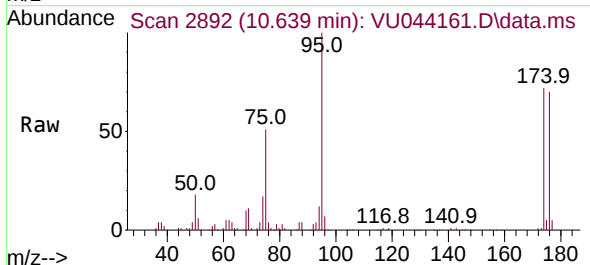
Instrument :  
 MSVOA\_U  
 ClientSampled :

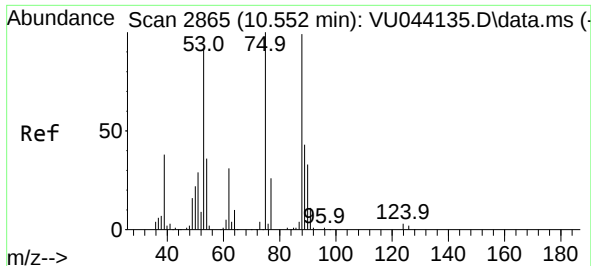
Tgt Ion:152 Resp: 140758  
 Ion Ratio Lower Upper  
 152 100  
 115 62.3 43.8 131.3  
 150 158.7 0.0 350.6



#76  
 1,2,3-Trichloropropane  
 Concen: 15.706 ug/l  
 RT: 10.639 min Scan# 2892  
 Delta R.T. -0.193 min  
 Lab File: VU044161.D  
 Acq: 10 Jun 2021 17:21

Tgt Ion: 75 Resp: 74122  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 14.9 44.5#

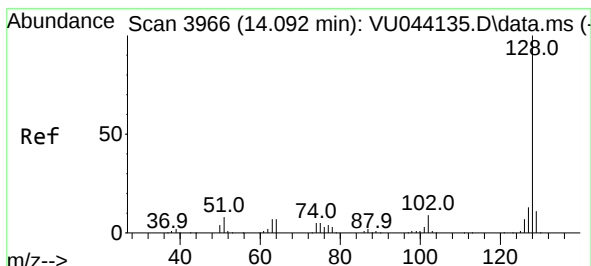
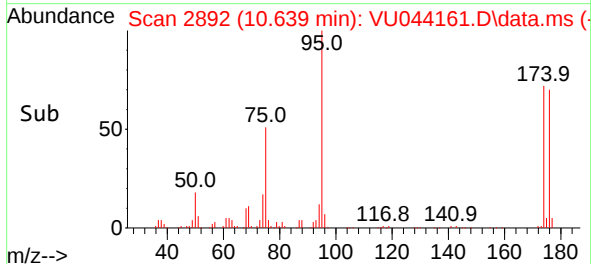
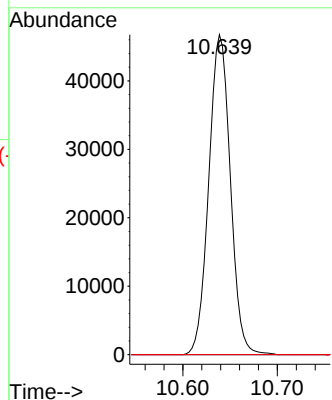
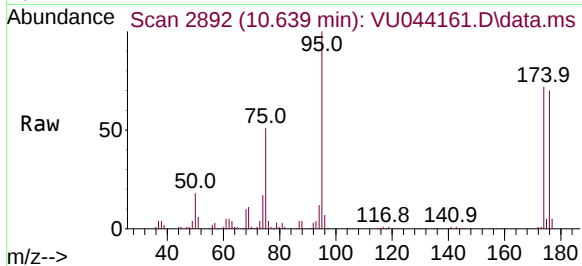




#81  
trans-1,4-Dichloro-2-butene  
Concen: 56.934 ug/l  
RT: 10.639 min Scan# 2892  
Delta R.T. 0.087 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 75 Resp: 74122  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.2 111.2#  
89 0.0 35.0 52.6#



#95  
Naphthalene  
Concen: 2.866 ug/l  
RT: 14.098 min Scan# 3968  
Delta R.T. 0.006 min  
Lab File: VU044161.D  
Acq: 10 Jun 2021 17:21

Tgt Ion:128 Resp: 319  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.2 15.2#  
129 0.0 8.6 13.0#

