

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082021\  
 Data File : VX023863.D  
 Acq On : 20 Aug 2021 01:15  
 Operator : JC/MD  
 Sample : M3468-06  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SAMPLE-1-(150.00)

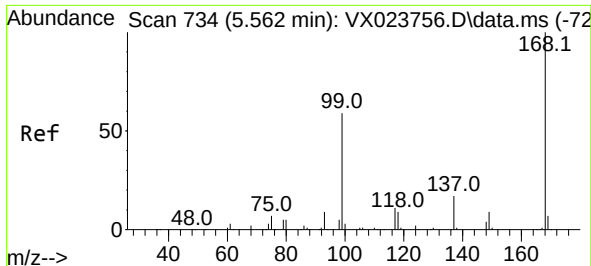
Quant Time: Aug 20 03:17:56 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081721W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 17 11:57:51 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.562  | 168   | 125168   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 216684   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.061 | 117   | 213073   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 81092    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.964  | 65    | 92814    | 53.129   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 106.260% |          |
| 35) Dibromofluoromethane      | 5.397  | 113   | 72505    | 50.555   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 101.120% |          |
| 50) Toluene-d8                | 8.653  | 98    | 279914   | 51.280   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 102.560% |          |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 92586    | 46.075   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 92.160%  |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 5) Bromomethane               | 1.624  | 94    | 362      | 0.407    | ug/l #     | 69       |
| 6) Chloroethane               | 1.715  | 64    | 483      | 2.608    | ug/l #     | 43       |
| 11) Tert butyl alcohol        | 2.953  | 59    | 702      | 1.987    | ug/l #     | 73       |
| 16) Acetone                   | 2.386  | 43    | 18898    | 24.194   | ug/l #     | 88       |
| 18) Methyl Acetate            | 2.709  | 43    | 1005     | 0.515    | ug/l       | 91       |
| 20) Methylene Chloride        | 2.794  | 84    | 11215    | 7.517    | ug/l #     | 86       |
| 25) 2-Butanone                | 4.581  | 43    | 1897     | 1.603    | ug/l       | 94       |
| 29) Tetrahydrofuran           | 5.038  | 42    | 496      | 0.647    | ug/l #     | 31       |
| 31) Cyclohexane               | 5.568  | 56    | 2870     | 1.279    | ug/l #     | 28       |
| 36) 1,1-Dichloropropene       | 5.562  | 75    | 10098    | 5.032    | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 5.562  | 117   | 12885    | 6.158    | ug/l #     | 16       |
| 41) Methacrylonitrile         | 5.026  | 41    | 363      | 0.271    | ug/l #     | 32       |
| 43) Isopropyl Acetate         | 6.355  | 43    | 16770    | 4.347    | ug/l #     | 91       |
| 48) Methyl methacrylate       | 7.604  | 41    | 5287     | 2.809    | ug/l #     | 10       |
| 49) 1,4-Dioxane               | 7.812  | 88    | 41       | 1.031    | ug/l #     | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.555  | 43    | 55869    | 22.401   | ug/l #     | 45       |
| 54) cis-1,3-Dichloropropene   | 8.555  | 75    | 23893    | 9.941    | ug/l #     | 71       |
| 56) Ethyl methacrylate        | 9.257  | 69    | 203      | 0.833    | ug/l #     | 1        |
| 57) 1,3-Dichloropropane       | 9.488  | 76    | 10236    | 3.899    | ug/l #     | 42       |
| 59) 2-Hexanone                | 9.385  | 43    | 8119     | 4.235    | ug/l #     | 19       |
| 60) Dibromochloromethane      | 9.281  | 129   | 23       | 1.701    | ug/l #     | 11       |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 50272    | 26.576   | ug/l #     | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 50272    | 78.173   | ug/l #     | 12       |
| 95) Naphthalene               | 13.780 | 128   | 60       | 1.292    | ug/l #     | 69       |
| -----                         |        |       |          |          |            |          |

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

Quant Time: Aug 20 03:17:56 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081721W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 17 11:57:51 2021  
Response via : Initial Calibration

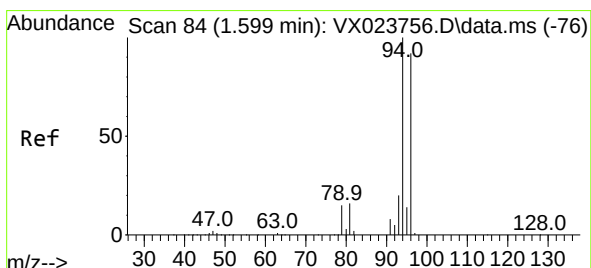
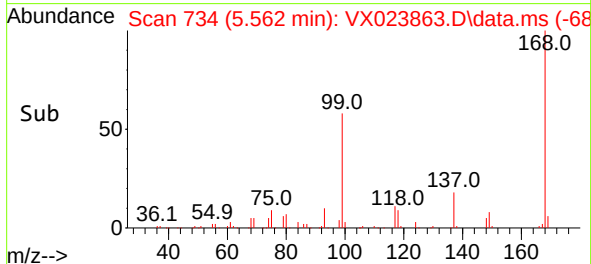
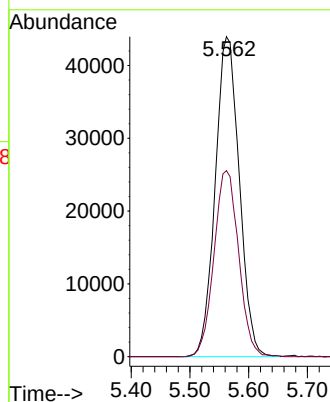
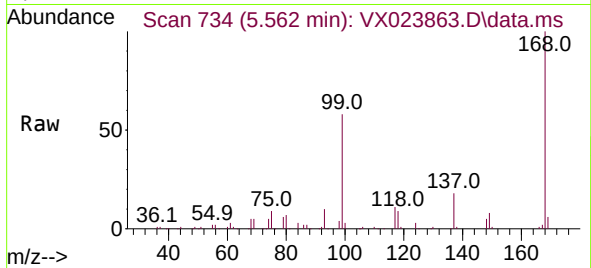




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.000 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

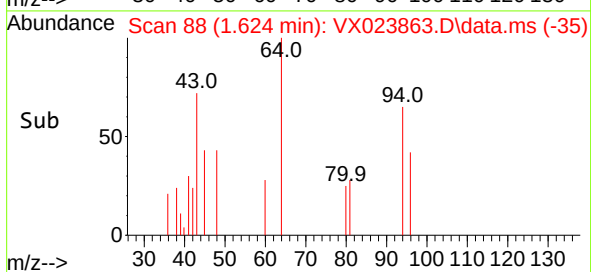
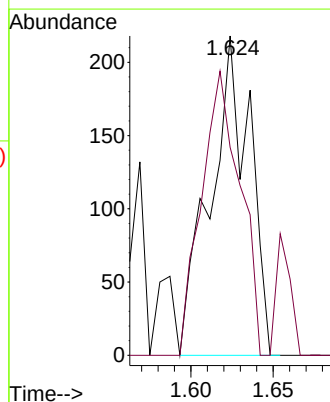
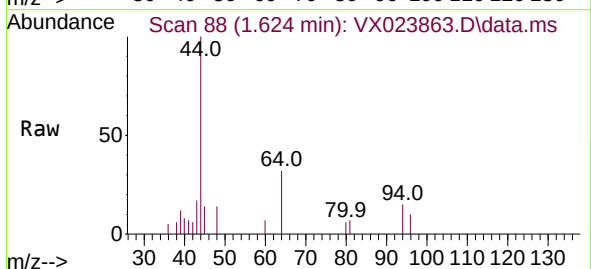
Instrument :  
MSVOA\_X  
ClientSampleId :  
SAMPLE-1-(150.00)

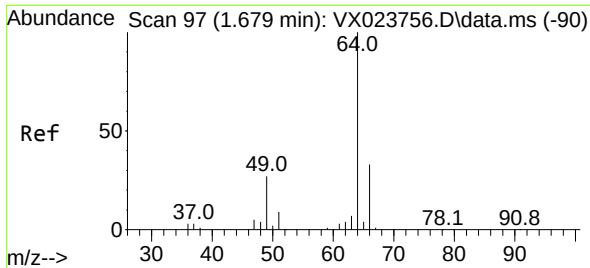
Tgt Ion:168 Resp: 125168  
Ion Ratio Lower Upper  
168 100  
99 58.2 45.8 68.6



#5  
Bromomethane  
Concen: 0.407 ug/l  
RT: 1.624 min Scan# 88  
Delta R.T. 0.025 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

Tgt Ion: 94 Resp: 362  
Ion Ratio Lower Upper  
94 100  
96 65.1 76.4 114.6#

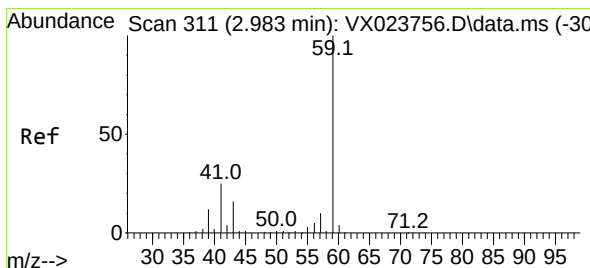
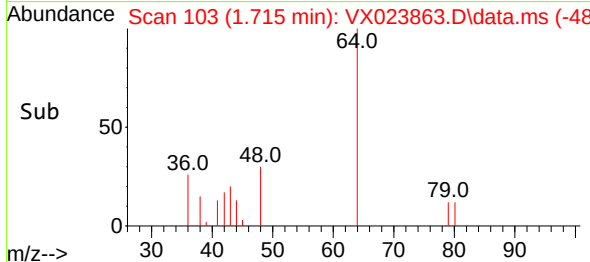
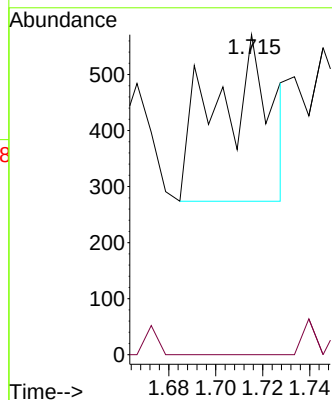
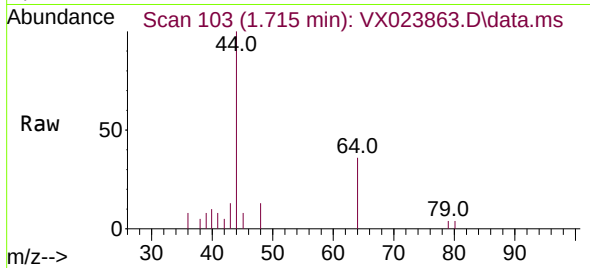




#6  
Chloroethane  
Concen: 2.608 ug/l  
RT: 1.715 min Scan# 103  
Delta R.T. 0.036 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

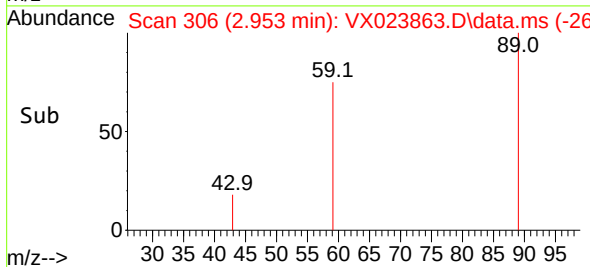
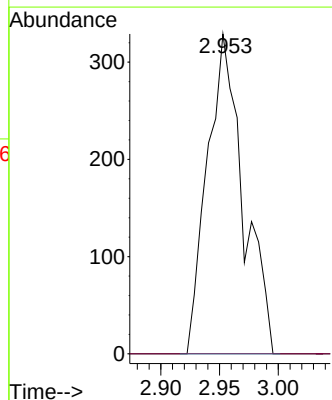
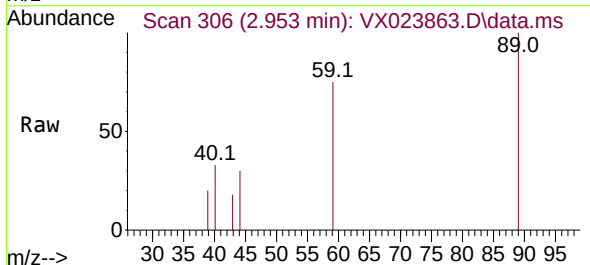
Instrument :  
MSVOA\_X  
ClientSampleId :  
SAMPLE-1-(150.00)

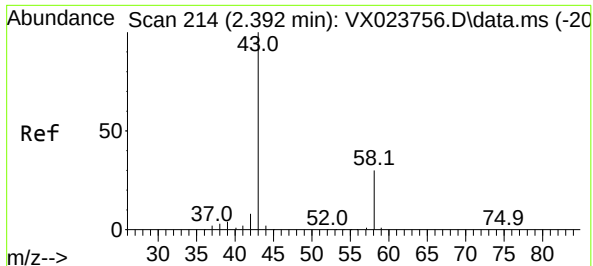
Tgt Ion: 64 Resp: 483  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.0#



#11  
Tert butyl alcohol  
Concen: 1.987 ug/l  
RT: 2.953 min Scan# 306  
Delta R.T. -0.030 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

Tgt Ion: 59 Resp: 702  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

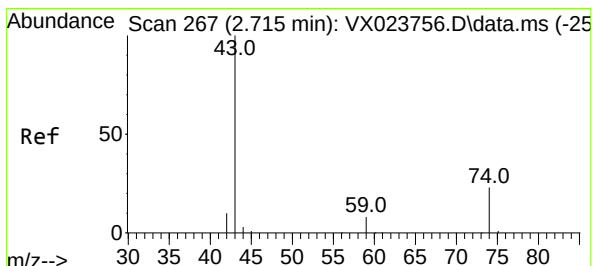
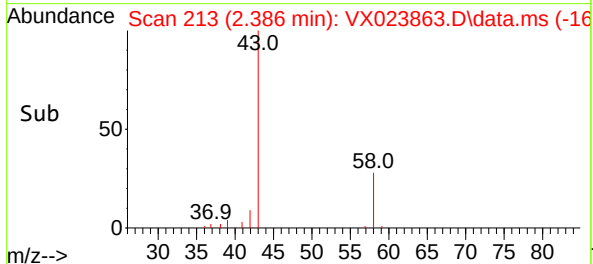
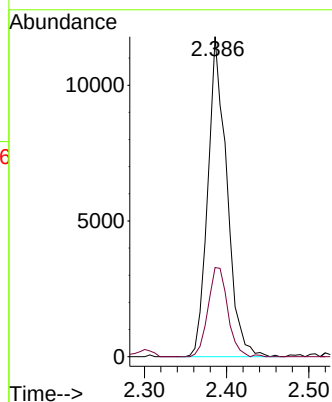
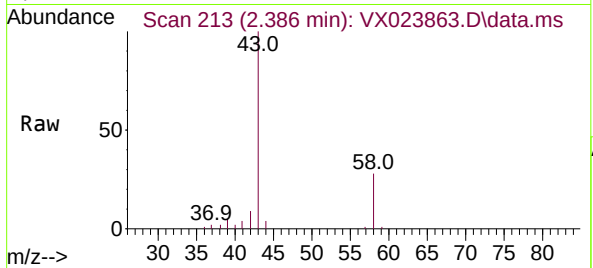




#16  
Acetone  
Concen: 24.194 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

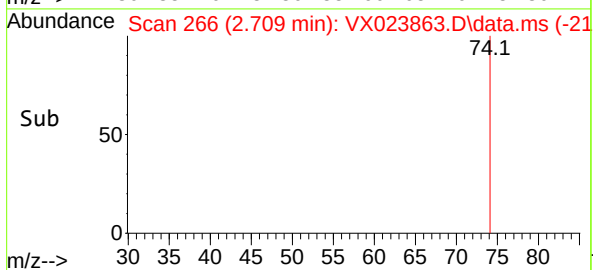
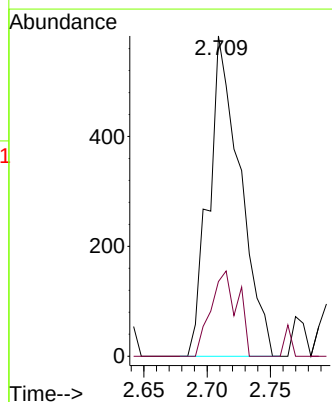
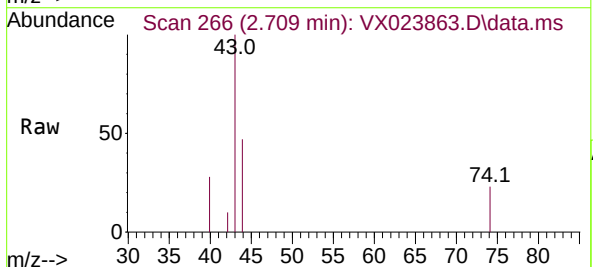
Instrument :  
MSVOA\_X  
ClientSampleId :  
SAMPLE-1-(150.00)

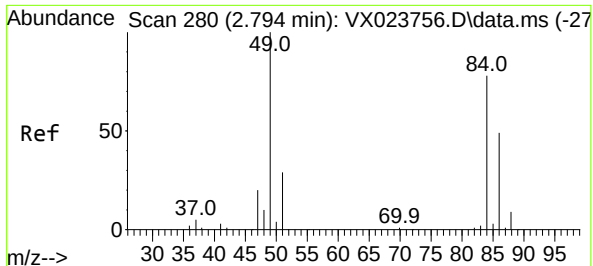
Tgt Ion: 43 Resp: 18898  
Ion Ratio Lower Upper  
43 100  
58 27.8 27.8 41.8#



#18  
Methyl Acetate  
Concen: 0.515 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. -0.006 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

Tgt Ion: 43 Resp: 1005  
Ion Ratio Lower Upper  
43 100  
74 22.8 21.9 32.9





#20

Methylene Chloride

Concen: 7.517 ug/l

RT: 2.794 min Scan# 280

Delta R.T. 0.000 min

Lab File: VX023863.D

Acq: 20 Aug 2021 01:15

Tgt Ion: 84 Resp: 11215

Ion Ratio Lower Upper

84 100

49 127.3 88.6 132.8

51 44.1 27.0 40.6#

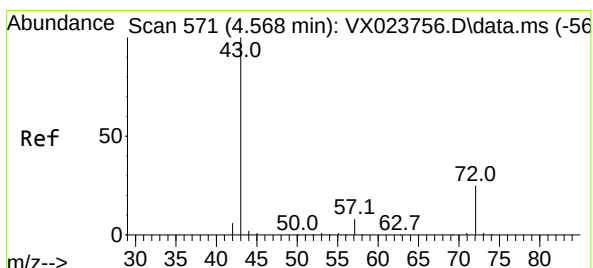
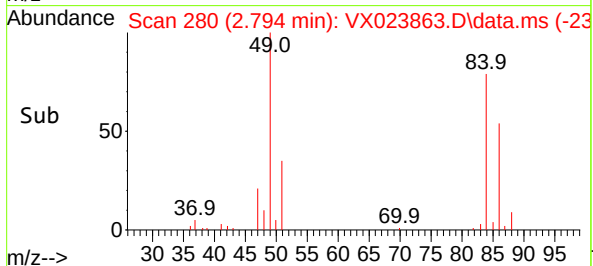
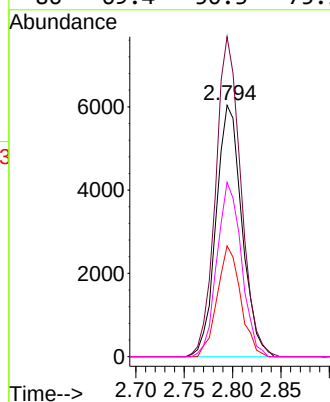
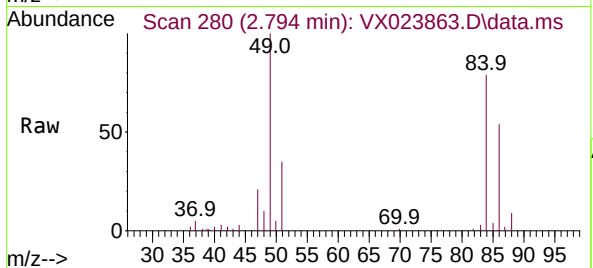
86 69.4 50.3 75.5

Instrument :

MSVOA\_X

ClientSampleId :

SAMPLE-1-(150.00)



#25

2-Butanone

Concen: 1.603 ug/l

RT: 4.581 min Scan# 573

Delta R.T. 0.013 min

Lab File: VX023863.D

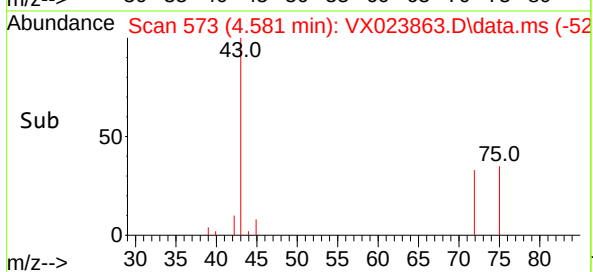
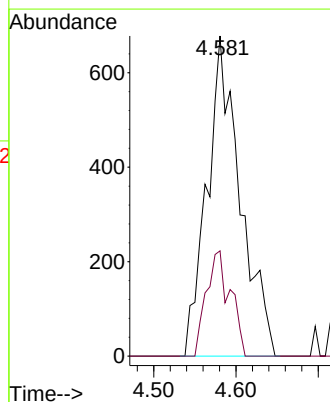
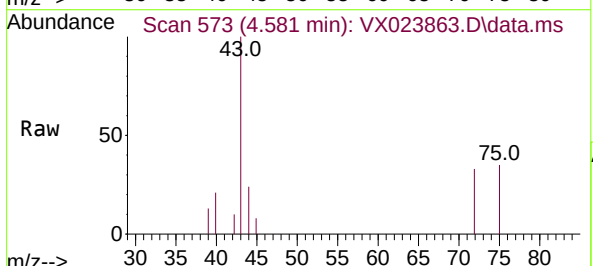
Acq: 20 Aug 2021 01:15

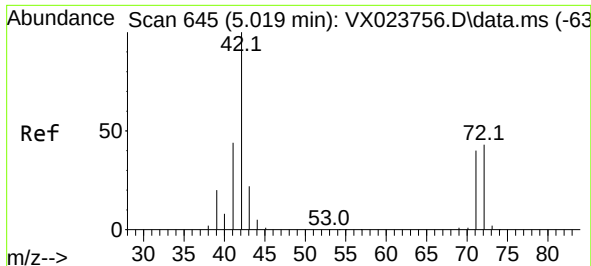
Tgt Ion: 43 Resp: 1897

Ion Ratio Lower Upper

43 100

72 32.9 23.7 35.5





#29

Tetrahydrofuran

Concen: 0.647 ug/l

RT: 5.038 min Scan# 648

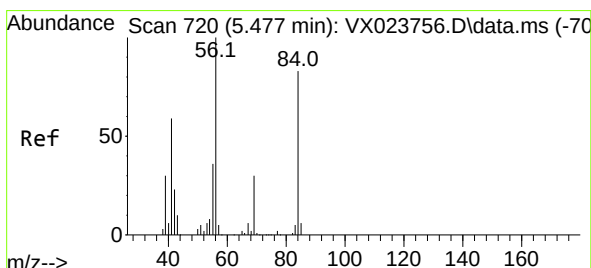
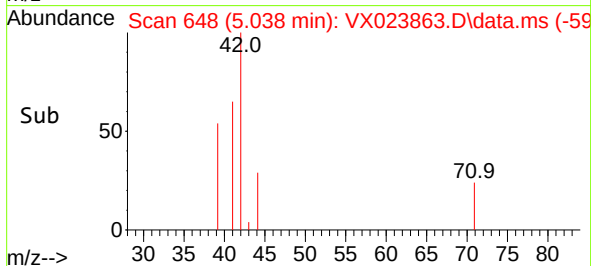
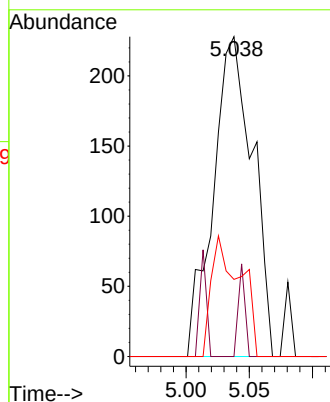
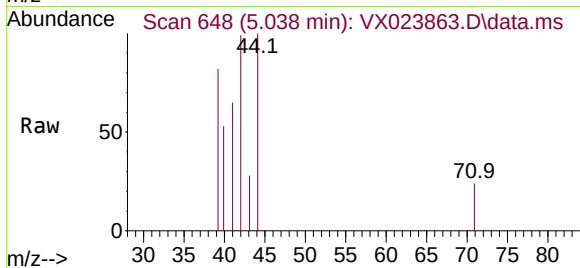
Delta R.T. 0.019 min

Lab File: VX023863.D

Acq: 20 Aug 2021 01:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 496   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 4.8   | 41.7  | 62.5# |
| 71       | 0.0   | 38.4  | 57.6# |

Instrument :  
MSVOA\_X  
ClientSampleId :  
SAMPLE-1-(150.00)



#31

Cyclohexane

Concen: 1.279 ug/l

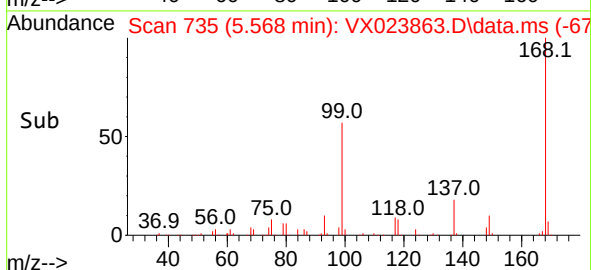
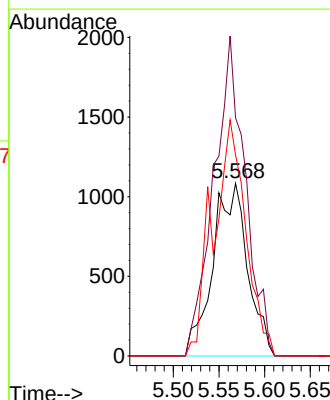
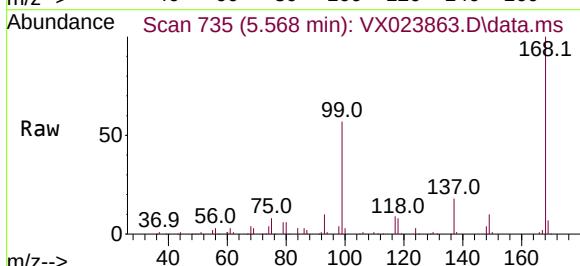
RT: 5.568 min Scan# 735

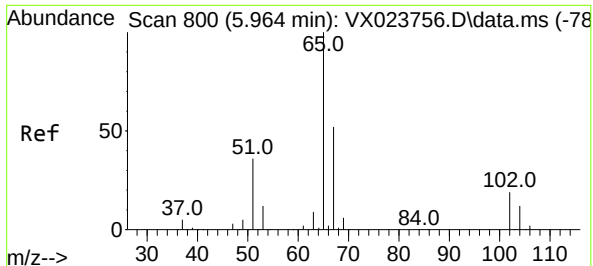
Delta R.T. 0.091 min

Lab File: VX023863.D

Acq: 20 Aug 2021 01:15

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 2870   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 137.9 | 25.3  | 37.9#  |
| 84       | 116.3 | 71.4  | 107.0# |



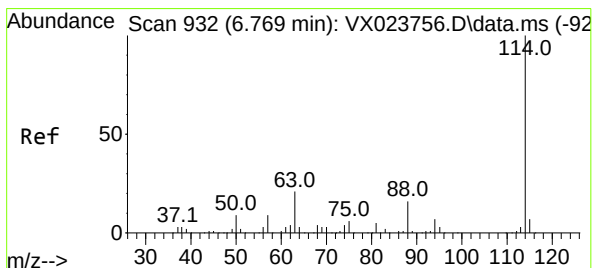
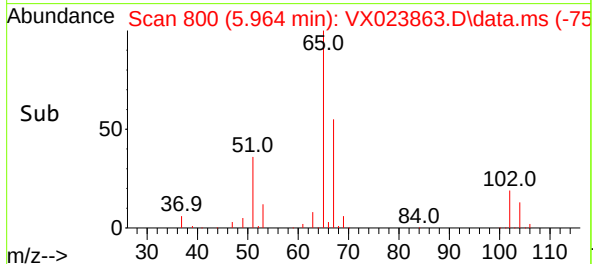
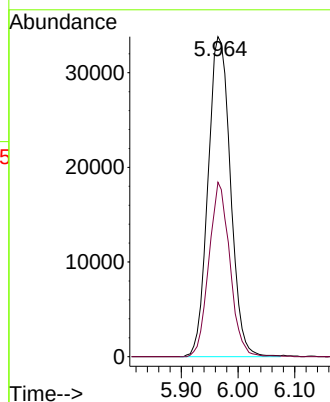
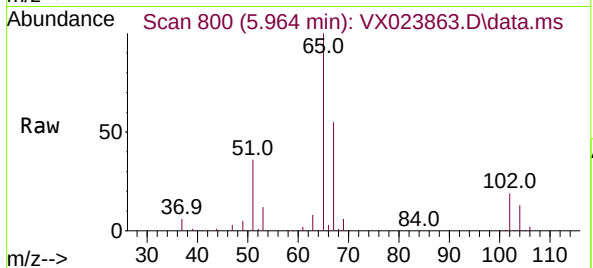


#33

1,2-Dichloroethane-d4  
Concen: 53.129 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.000 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

Instrument :  
MSVOA\_X  
ClientSampleId :  
SAMPLE-1-(150.00)

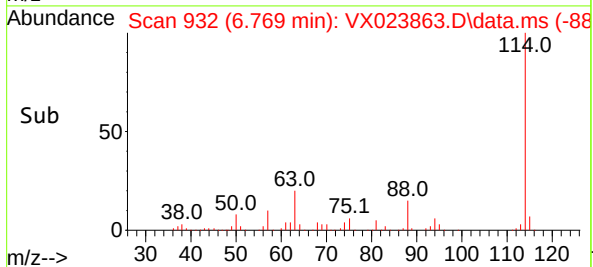
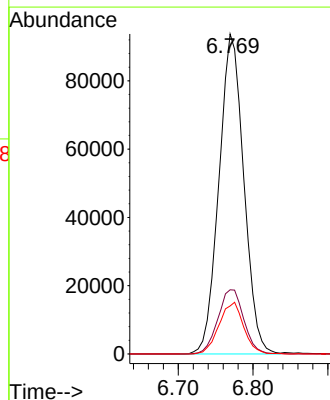
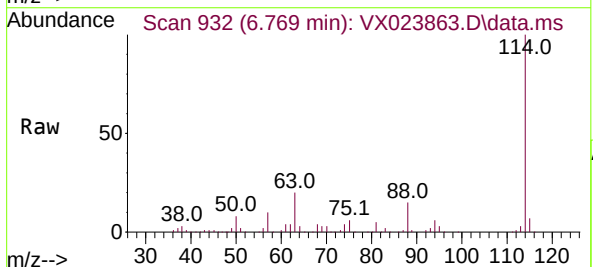
Tgt Ion: 65 Resp: 92814  
Ion Ratio Lower Upper  
65 100  
67 50.8 0.0 105.4



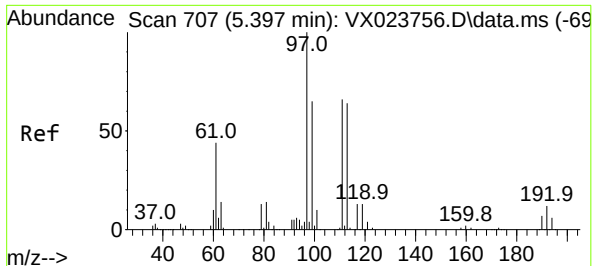
#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. 0.000 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

Tgt Ion: 114 Resp: 216684  
Ion Ratio Lower Upper  
114 100  
63 20.1 0.0 40.8  
88 15.0 0.0 32.8



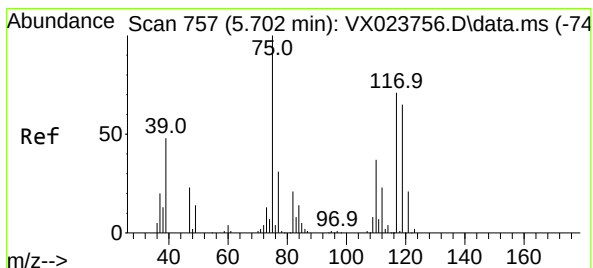
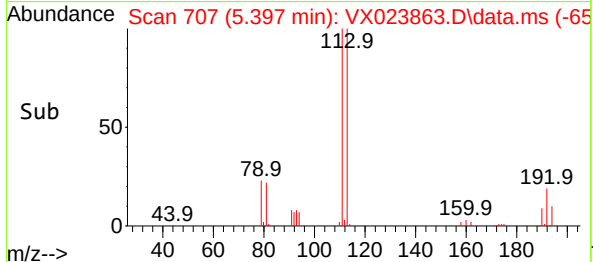
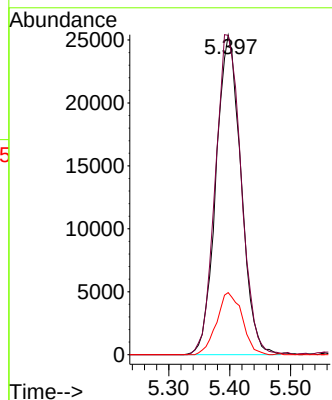
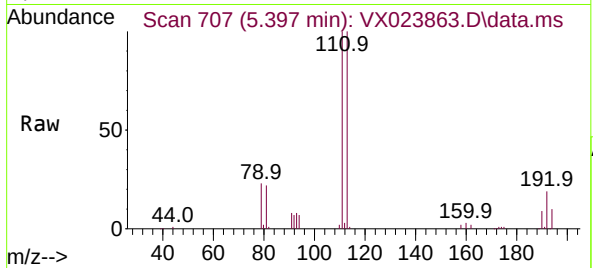




#35  
Dibromofluoromethane  
Concen: 50.555 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

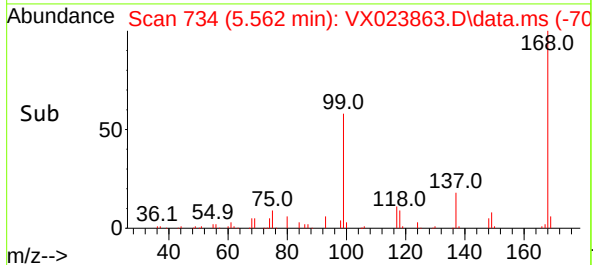
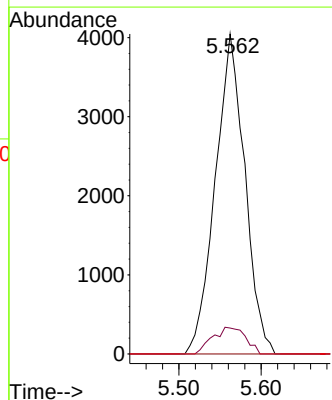
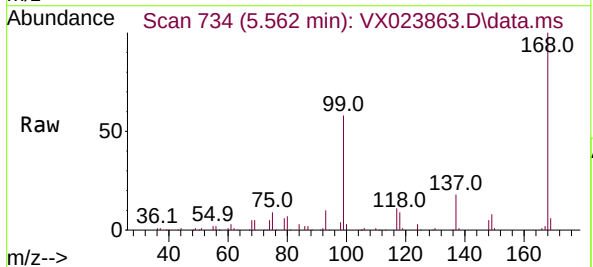
Instrument :  
MSVOA\_X  
ClientSampleId :  
SAMPLE-1-(150.00)

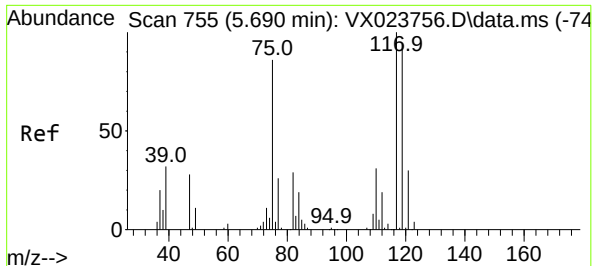
Tgt Ion:113 Resp: 72505  
Ion Ratio Lower Upper  
113 100  
111 103.5 81.9 122.9  
192 19.8 16.7 25.1



#36  
1,1-Dichloropropene  
Concen: 5.032 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.140 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

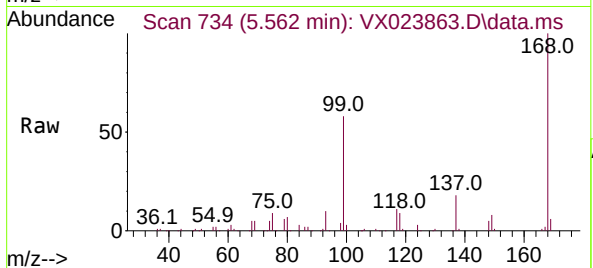
Tgt Ion: 75 Resp: 10098  
Ion Ratio Lower Upper  
75 100  
110 9.3 18.1 54.4#  
77 0.0 25.3 37.9#



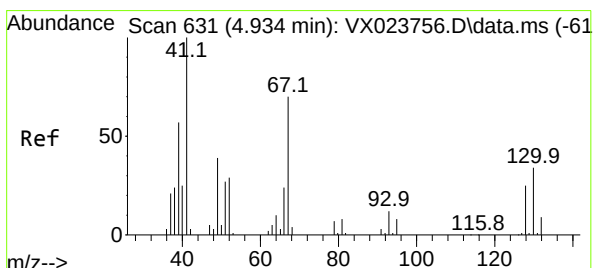
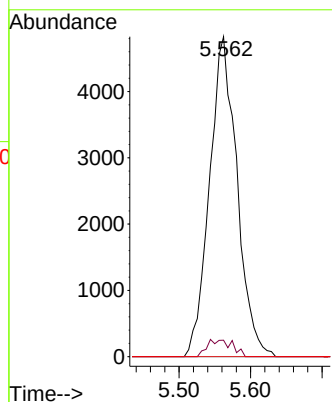
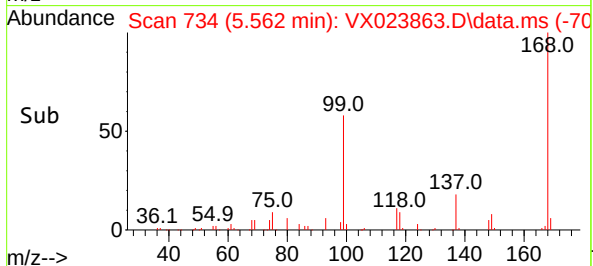


#38  
Carbon Tetrachloride  
Concen: 6.158 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.128 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

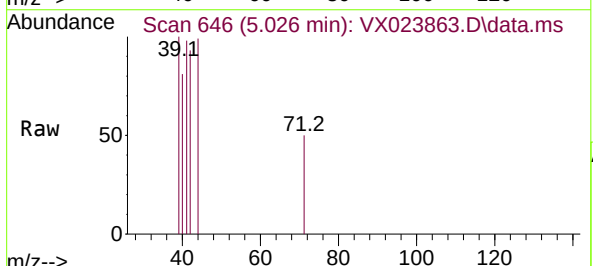
Instrument :  
MSVOA\_X  
ClientSampleId :  
SAMPLE-1-(150.00)



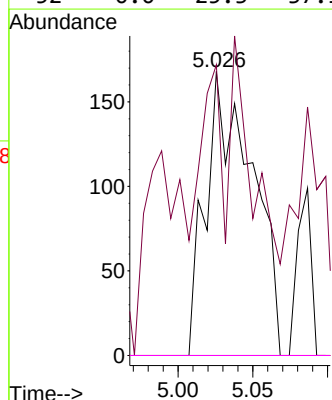
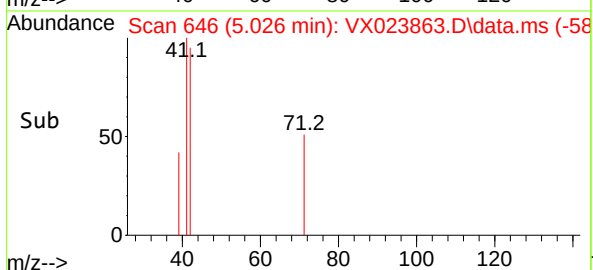
Tgt Ion:117 Resp: 12885  
Ion Ratio Lower Upper  
117 100  
119 5.2 76.2 114.2#  
121 0.0 24.8 37.2#

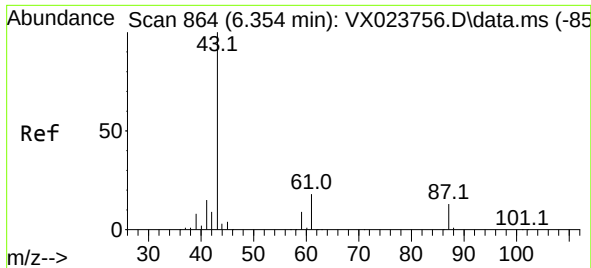


#41  
Methacrylonitrile  
Concen: 0.271 ug/l  
RT: 5.026 min Scan# 646  
Delta R.T. 0.092 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15



Tgt Ion: 41 Resp: 363  
Ion Ratio Lower Upper  
41 100  
39 24.8 42.5 63.7#  
67 0.0 65.0 97.6#  
52 0.0 25.3 37.9#

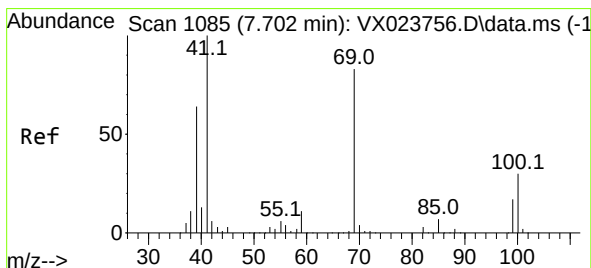
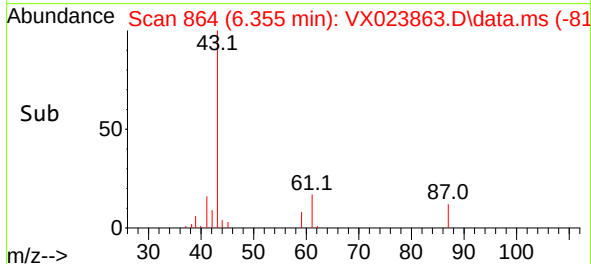
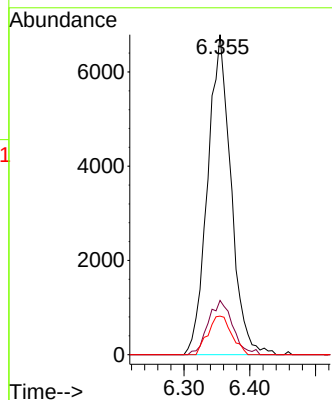
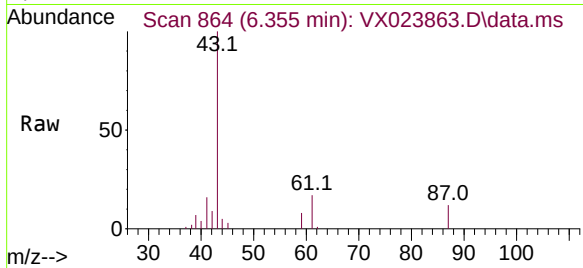




#43  
Isopropyl Acetate  
Concen: 4.347 ug/l  
RT: 6.355 min Scan# 864  
Delta R.T. 0.001 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

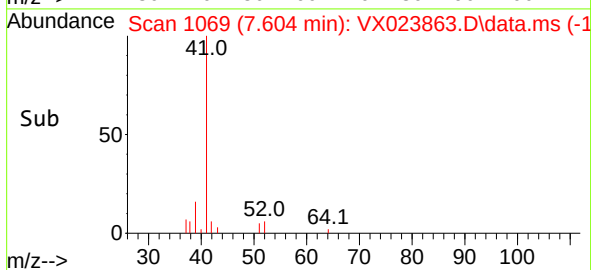
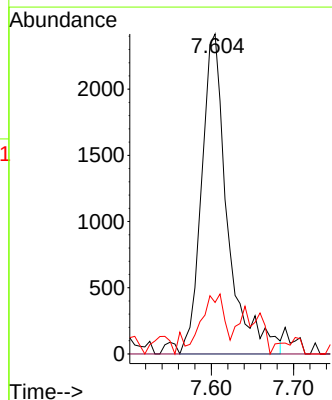
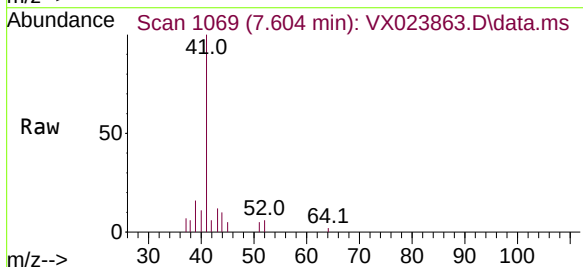
Instrument :  
MSVOA\_X  
ClientSampleId :  
SAMPLE-1-(150.00)

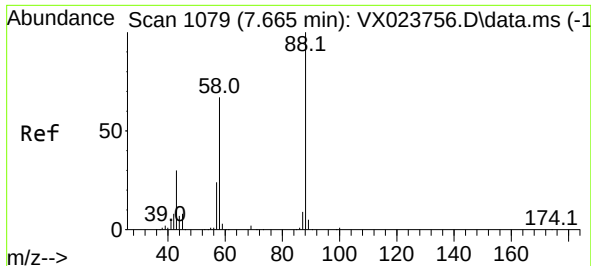
Tgt Ion: 43 Resp: 16770  
Ion Ratio Lower Upper  
43 100  
61 17.8 18.2 27.4#  
87 12.2 12.5 18.7#



#48  
Methyl methacrylate  
Concen: 2.809 ug/l  
RT: 7.604 min Scan# 1069  
Delta R.T. -0.098 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

Tgt Ion: 41 Resp: 5287  
Ion Ratio Lower Upper  
41 100  
69 0.0 76.0 114.0#  
39 0.0 44.6 67.0#





#49

1,4-Dioxane

Concen: 1.031 ug/l

RT: 7.812 min Scan# 1103

Delta R.T. 0.147 min

Lab File: VX023863.D

Acq: 20 Aug 2021 01:15

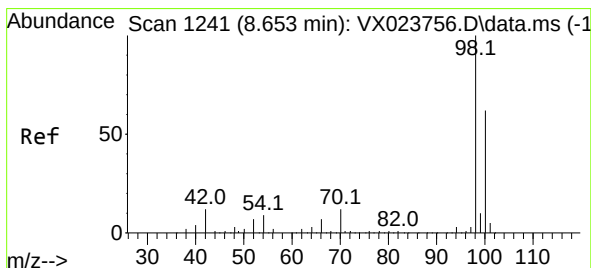
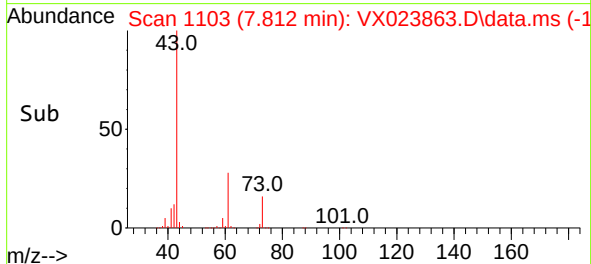
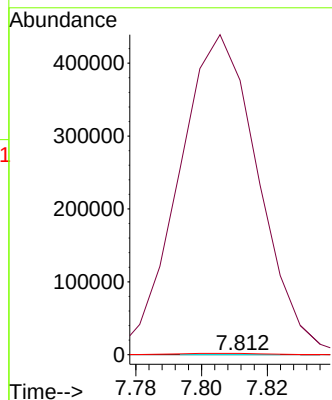
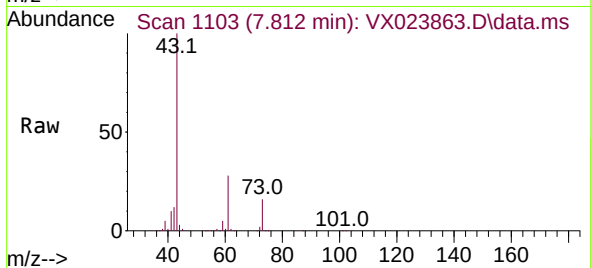
Tgt Ion: 88 Resp: 41

Ion Ratio Lower Upper

88 100

43 1827658.5 23.2 34.8#

58 8622.0 55.0 82.4#



#50

Toluene-d8

Concen: 51.280 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX023863.D

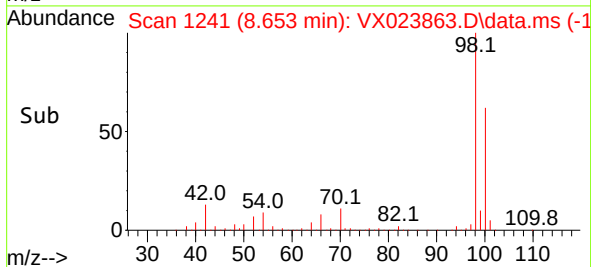
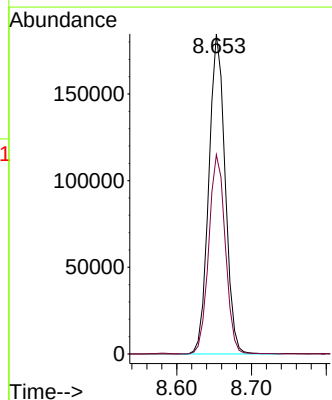
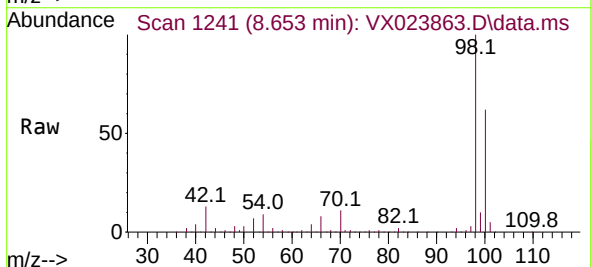
Acq: 20 Aug 2021 01:15

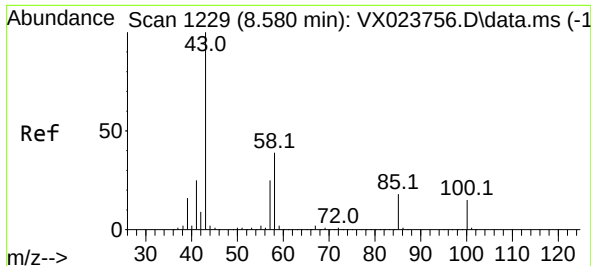
Tgt Ion: 98 Resp: 279914

Ion Ratio Lower Upper

98 100

100 63.2 51.9 77.9

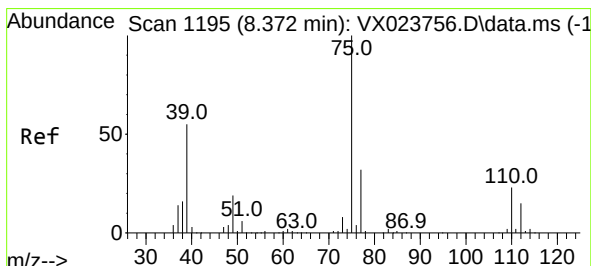
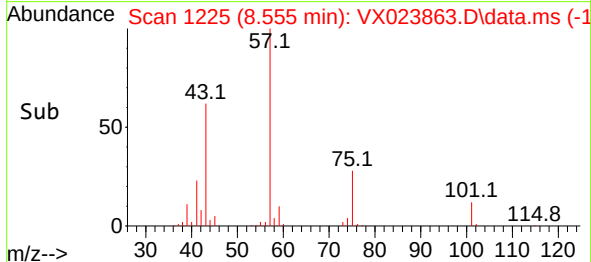
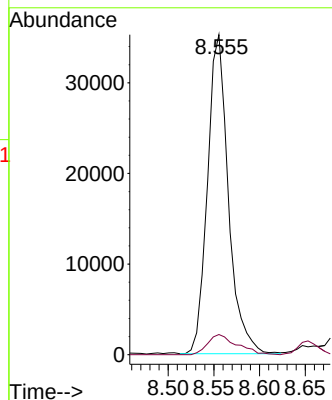
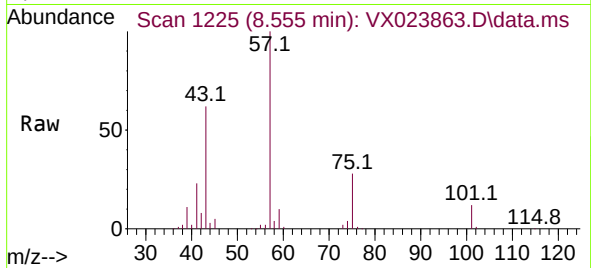




#51  
4-Methyl-2-Pentanone  
Concen: 22.401 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. -0.025 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

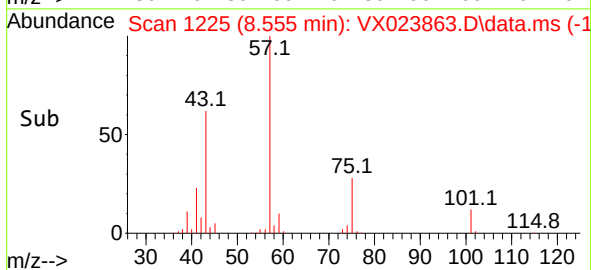
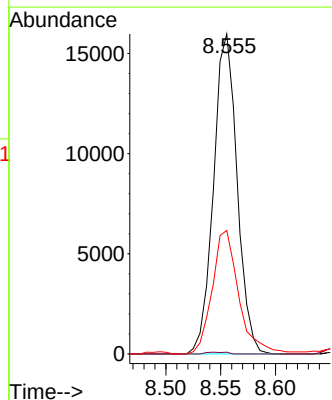
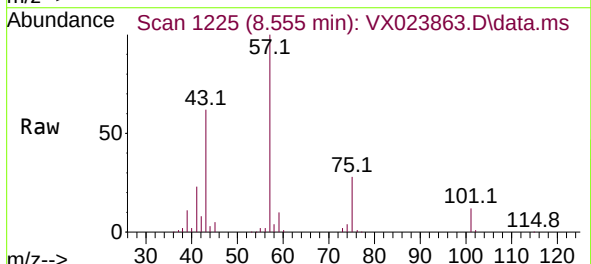
Instrument :  
MSVOA\_X  
ClientSampleId :  
SAMPLE-1-(150.00)

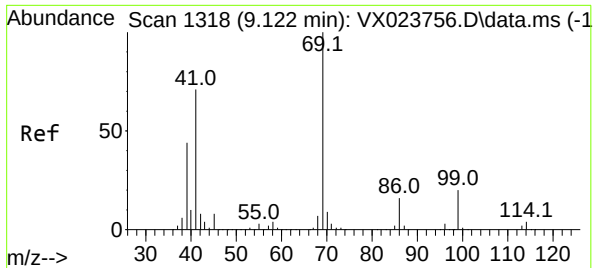
Tgt Ion: 43 Resp: 55869  
Ion Ratio Lower Upper  
43 100  
58 8.9 35.4 53.0#



#54  
cis-1,3-Dichloropropene  
Concen: 9.941 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. 0.183 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

Tgt Ion: 75 Resp: 23893  
Ion Ratio Lower Upper  
75 100  
77 0.6 25.7 38.5#  
39 38.6 35.1 52.7

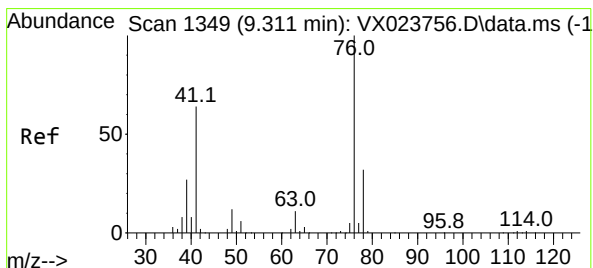
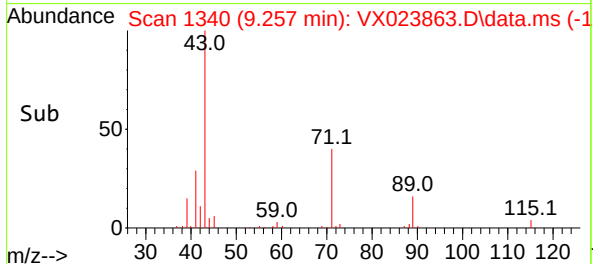
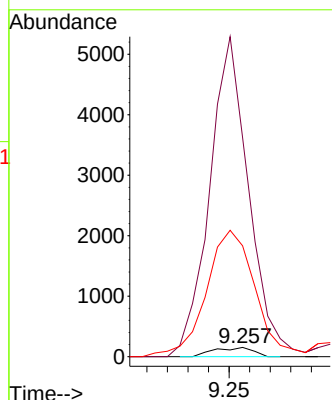
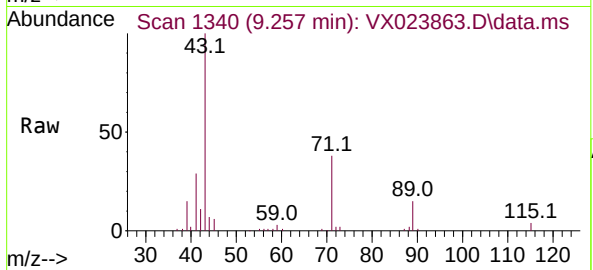




#56  
Ethyl methacrylate  
Concen: 0.833 ug/l  
RT: 9.257 min Scan# 1340  
Delta R.T. 0.135 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

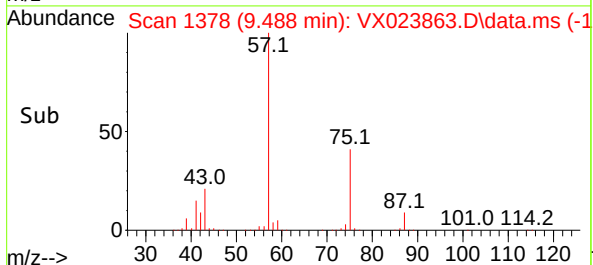
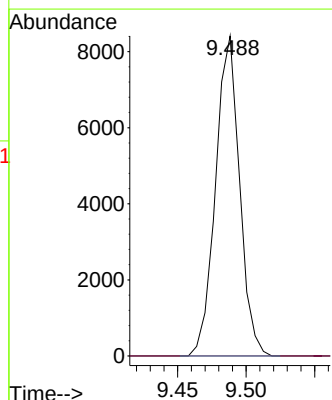
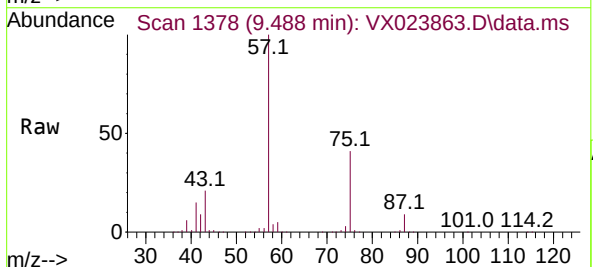
Instrument :  
MSVOA\_X  
ClientSampleId :  
SAMPLE-1-(150.00)

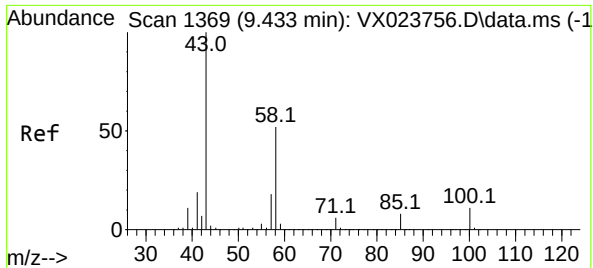
Tgt Ion: 69 Resp: 203  
Ion Ratio Lower Upper  
69 100  
41 3449.8 46.8 70.2#  
39 1695.1 24.7 37.1#



#57  
1,3-Dichloropropane  
Concen: 3.899 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.177 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

Tgt Ion: 76 Resp: 10236  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.2 39.2#

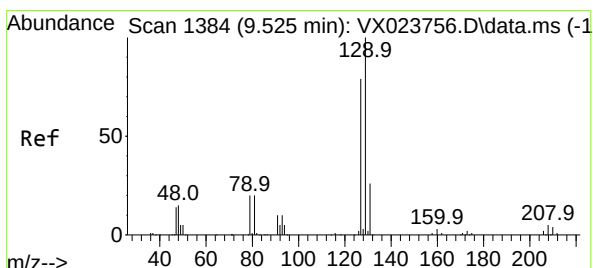
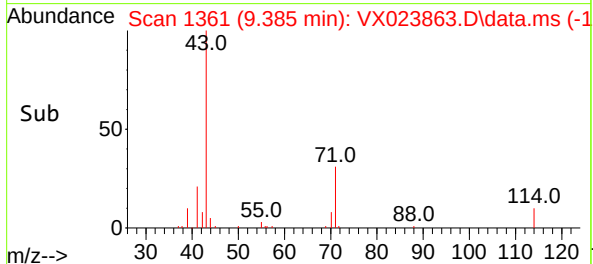
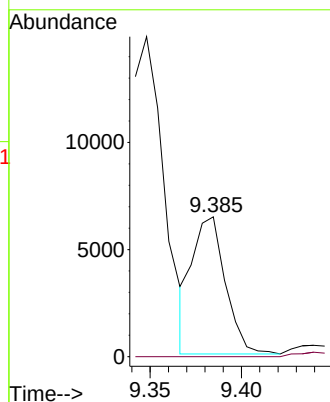
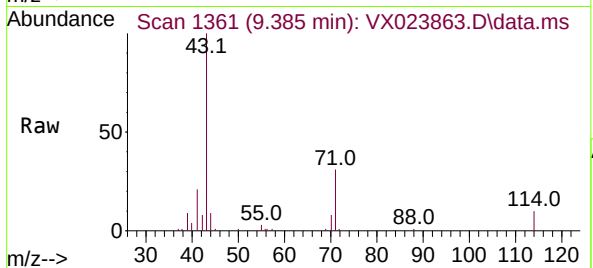




#59  
2-Hexanone  
Concen: 4.235 ug/l  
RT: 9.385 min Scan# 1361  
Delta R.T. -0.048 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

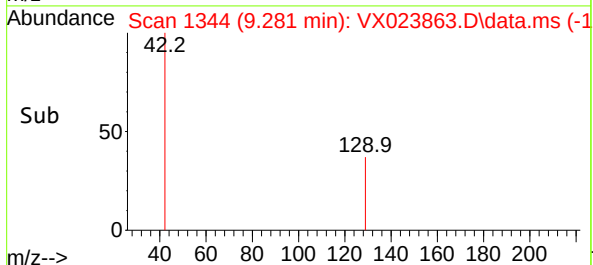
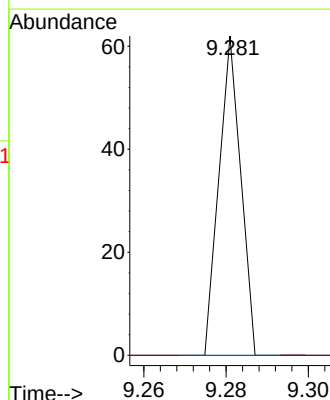
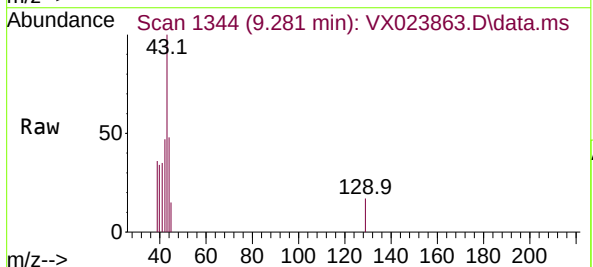
Instrument :  
MSVOA\_X  
ClientSampleId :  
SAMPLE-1-(150.00)

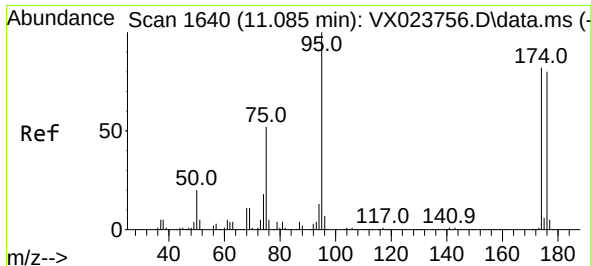
Tgt Ion: 43 Resp: 8119  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.9 92.8#



#60  
Dibromochloromethane  
Concen: 1.701 ug/l  
RT: 9.281 min Scan# 1344  
Delta R.T. -0.244 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

Tgt Ion:129 Resp: 23  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#

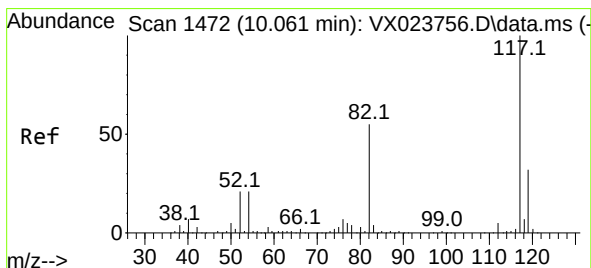
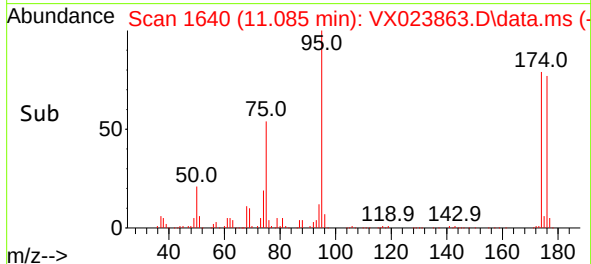
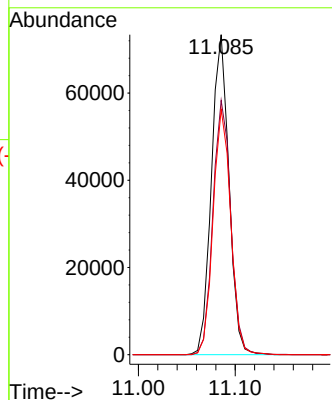
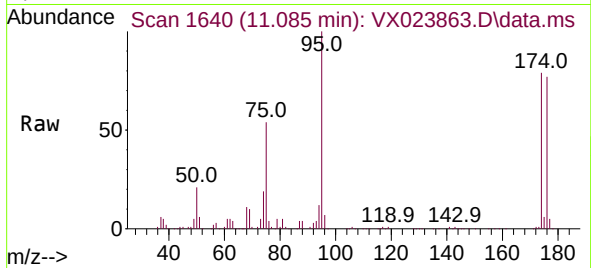




#62  
4-Bromofluorobenzene  
Concen: 46.075 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

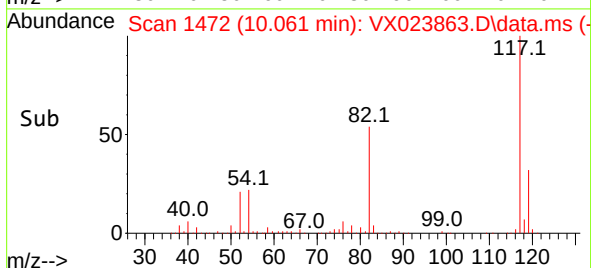
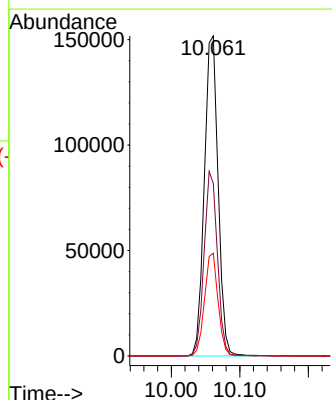
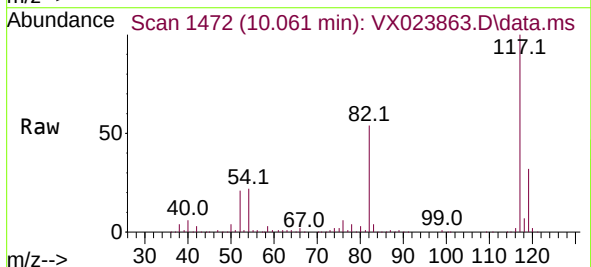
Instrument :  
MSVOA\_X  
ClientSampleId :  
SAMPLE-1-(150.00)

Tgt Ion: 95 Resp: 92586  
Ion Ratio Lower Upper  
95 100  
174 80.7 0.0 154.6  
176 77.2 0.0 155.8

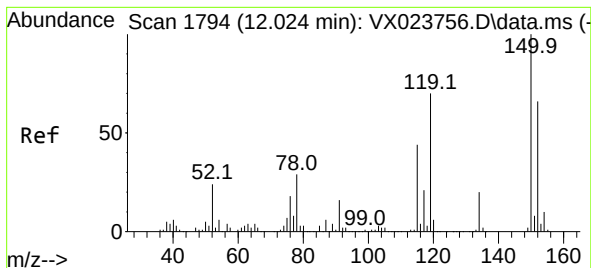


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.061 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

Tgt Ion: 117 Resp: 213073  
Ion Ratio Lower Upper  
117 100  
82 53.9 47.4 71.2  
119 32.1 26.6 39.8



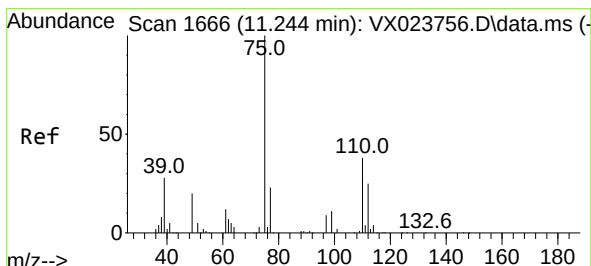
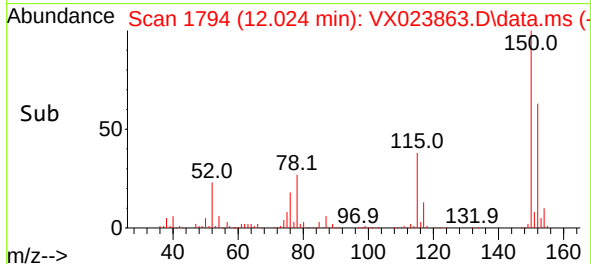
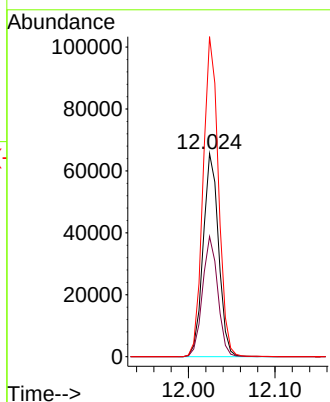
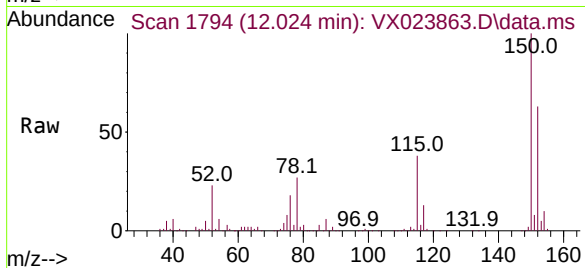




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

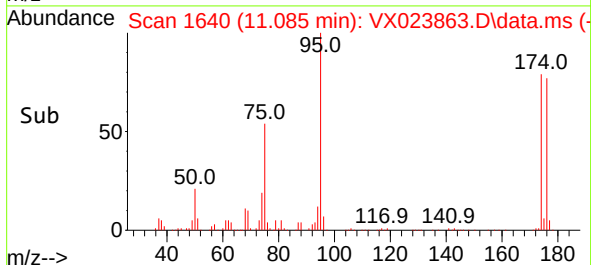
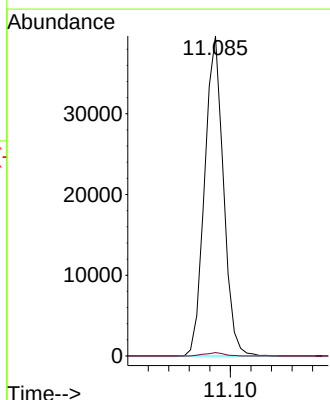
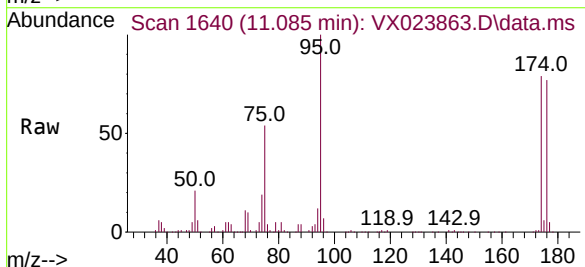
Instrument :  
MSVOA\_X  
ClientSampleId :  
SAMPLE-1-(150.00)

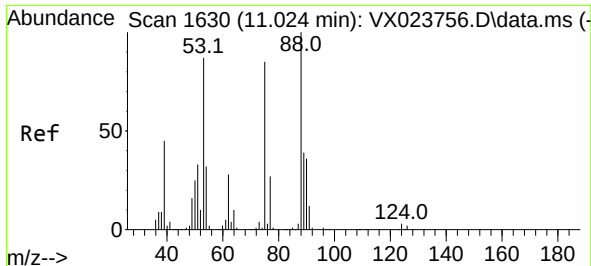
Tgt Ion:152 Resp: 81092  
Ion Ratio Lower Upper  
152 100  
115 58.4 41.1 123.3  
150 156.9 0.0 349.0



#76  
1,2,3-Trichloropropane  
Concen: 26.576 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

Tgt Ion: 75 Resp: 50272  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.1 57.5#

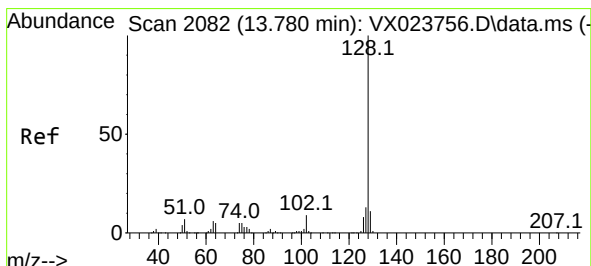
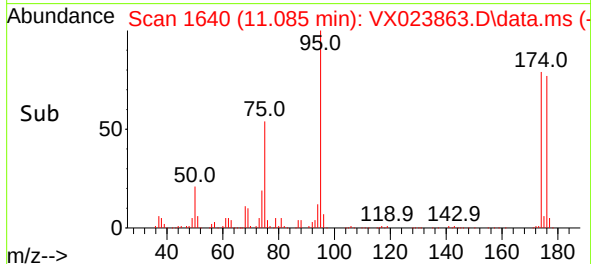
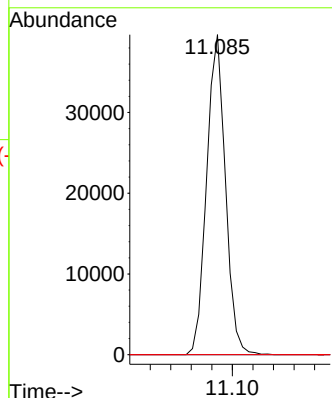
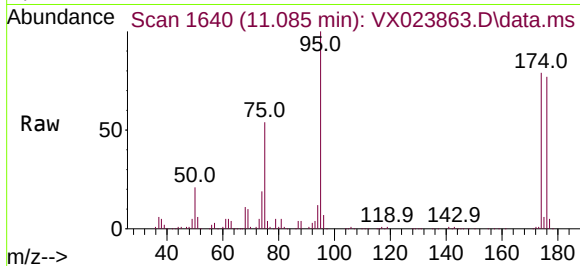




#81  
trans-1,4-Dichloro-2-butene  
Concen: 78.173 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

Instrument :  
MSVOA\_X  
ClientSampleId :  
SAMPLE-1-(150.00)

Tgt Ion: 75 Resp: 50272  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#



#95  
Naphthalene  
Concen: 1.292 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. 0.000 min  
Lab File: VX023863.D  
Acq: 20 Aug 2021 01:15

Tgt Ion: 128 Resp: 60  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.8 13.2#

