

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081321\  
 Data File : VX023702.D  
 Acq On : 13 Aug 2021 19:45  
 Operator : JC/MD  
 Sample : PB138358ZHE#19  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Aug 14 05:29:57 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 23 06:05:38 2021  
 Response via : Initial Calibration

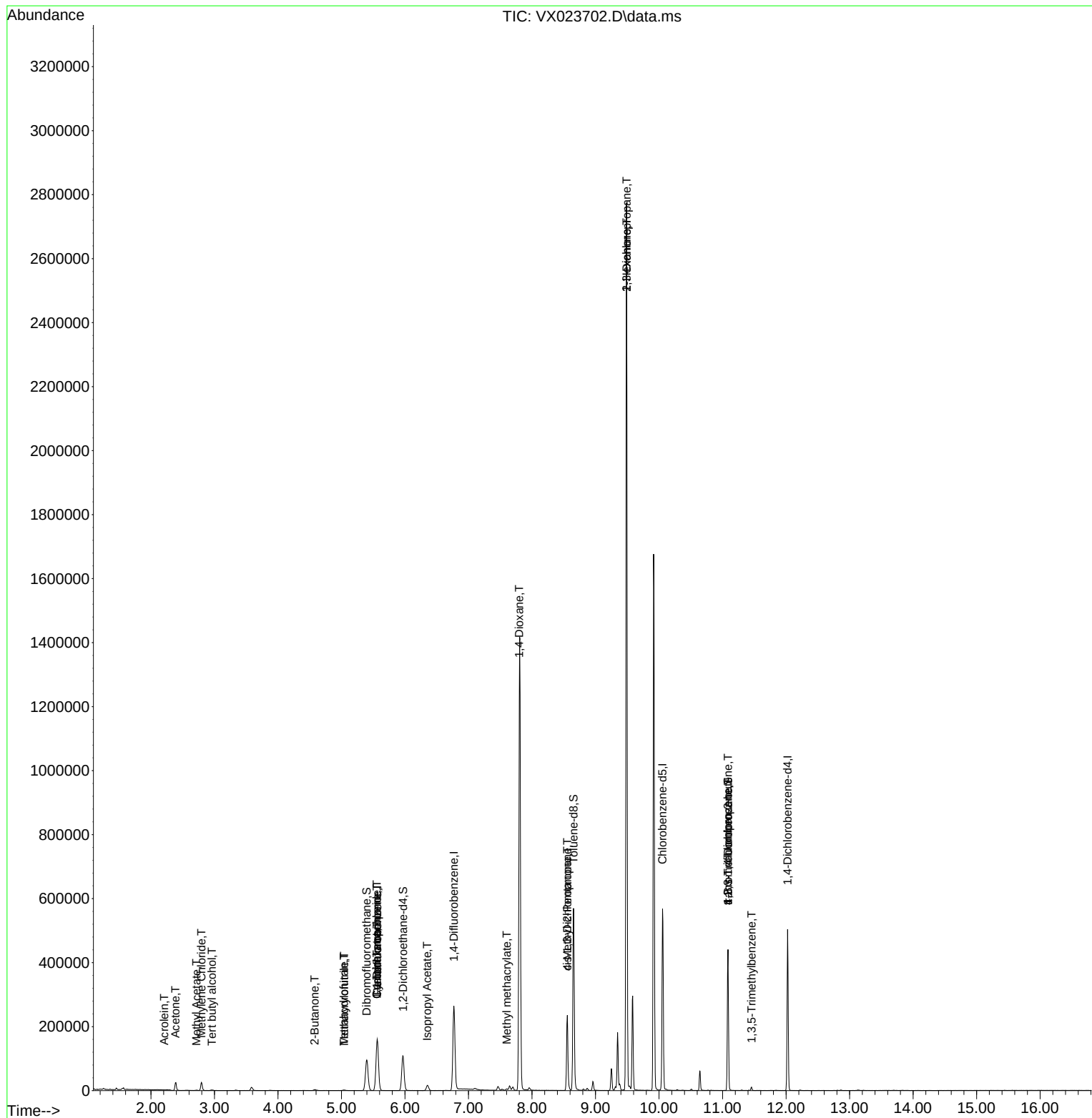
| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) Pentafluorobenzene         | 5.562          | 168  | 150668              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 258864              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 248362              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 99164               | 50.000  | ug/l   | 0.00     |
|                               |                |      |                     |         |        |          |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.970          | 65   | 107171              | 57.023  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 114.040% |         |        |          |
| 35) Dibromofluoromethane      | 5.397          | 113  | 83330               | 51.485  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 102.960% |         |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 324162              | 54.513  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 109.020% |         |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 109559              | 54.182  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 108.360% |         |        |          |
|                               |                |      |                     |         |        |          |
| Target Compounds              |                |      |                     |         | Qvalue |          |
| 11) Tert butyl alcohol        | 2.959          | 59   | 965                 | 2.248   | ug/l # | 73       |
| 13) Acrolein                  | 2.209          | 56   | 48                  | 1.582   | ug/l   | 87       |
| 16) Acetone                   | 2.386          | 43   | 27414               | 29.735  | ug/l   | 88       |
| 18) Methyl Acetate            | 2.715          | 43   | 2025                | 0.924   | ug/l # | 79       |
| 20) Methylene Chloride        | 2.794          | 84   | 10728               | 5.982   | ug/l   | 89       |
| 25) 2-Butanone                | 4.574          | 43   | 4413                | 3.083   | ug/l   | 93       |
| 29) Tetrahydrofuran           | 5.038          | 42   | 1783                | 1.900   | ug/l # | 71       |
| 31) Cyclohexane               | 5.556          | 56   | 3487                | 1.252   | ug/l # | 27       |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 11672               | 4.984   | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 15546               | 6.528   | ug/l # | 17       |
| 41) Methacrylonitrile         | 5.044          | 41   | 795                 | 0.510   | ug/l # | 13       |
| 43) Isopropyl Acetate         | 6.348          | 43   | 22810               | 4.986   | ug/l # | 90       |
| 48) Methyl methacrylate       | 7.604          | 41   | 5803                | 2.739   | ug/l # | 10       |
| 49) 1,4-Dioxane               | 7.799          | 88   | 65                  | 1.441   | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.555          | 43   | 82999               | 29.660  | ug/l # | 45       |
| 54) cis-1,3-Dichloropropene   | 8.555          | 75   | 34600               | 12.362  | ug/l # | 71       |
| 57) 1,3-Dichloropropane       | 9.488          | 76   | 22095               | 7.465   | ug/l # | 42       |
| 59) 2-Hexanone                | 9.488          | 43   | 326578              | 153.684 | ug/l # | 43       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 59838               | 27.421  | ug/l # | 39       |
| 80) 1,3,5-Trimethylbenzene    | 11.457         | 105  | 4831                | 0.793   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 59838               | 73.732  | ug/l # | 12       |
| -----                         |                |      |                     |         |        |          |

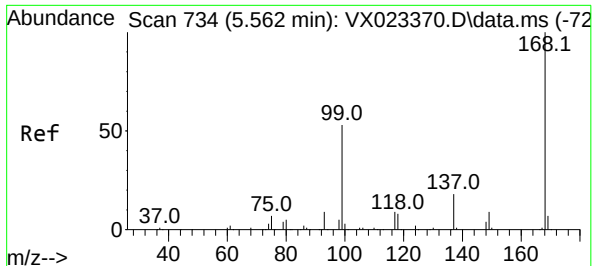
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081321\  
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Sample : PB138358ZHE#19  
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ALS Vial : 26 Sample Multiplier: 1

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ClientSampleId :

Quant Time: Aug 14 05:29:57 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072221W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 23 06:05:38 2021  
Response via : Initial Calibration

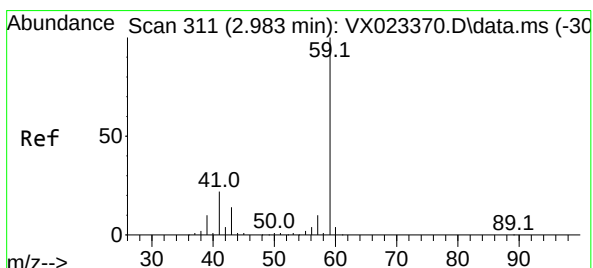
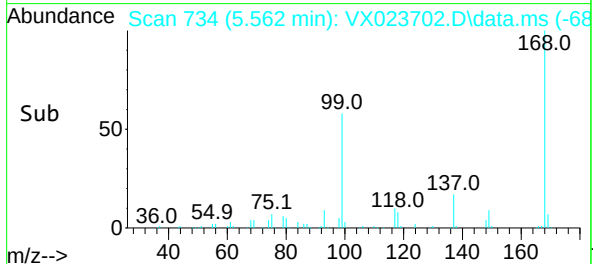
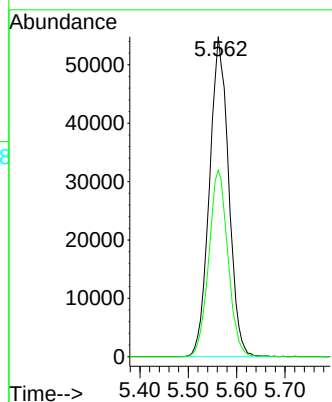
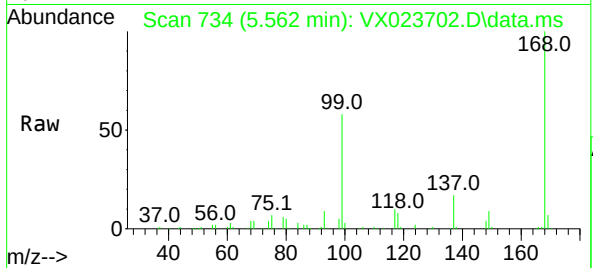




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.000 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

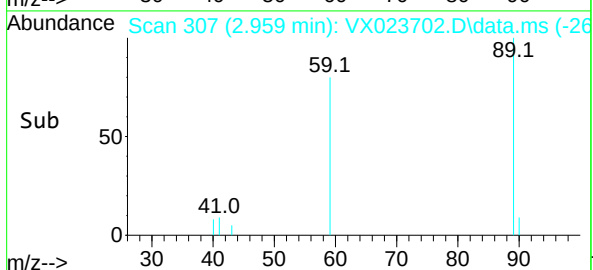
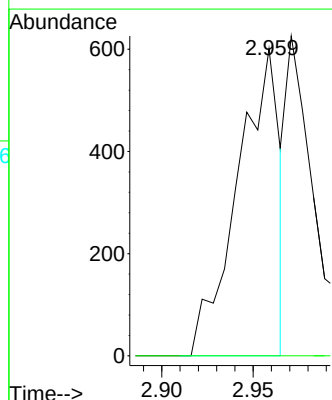
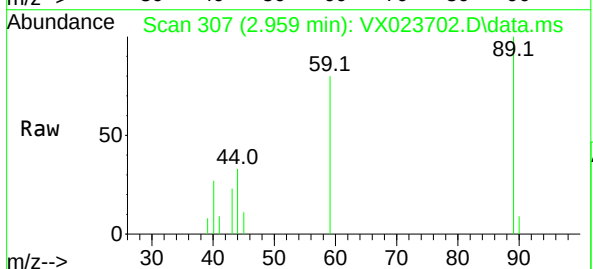
Instrument :  
MSVOA\_X  
ClientSampled :

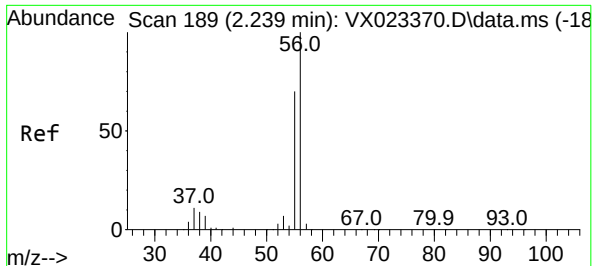
Tgt Ion:168 Resp: 150668  
Ion Ratio Lower Upper  
168 100  
99 58.2 45.8 68.6



#11  
Tert butyl alcohol  
Concen: 2.248 ug/l  
RT: 2.959 min Scan# 307  
Delta R.T. -0.024 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

Tgt Ion: 59 Resp: 965  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

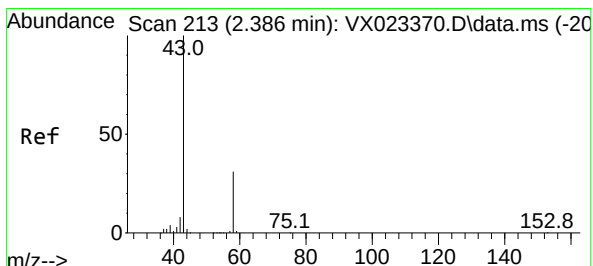
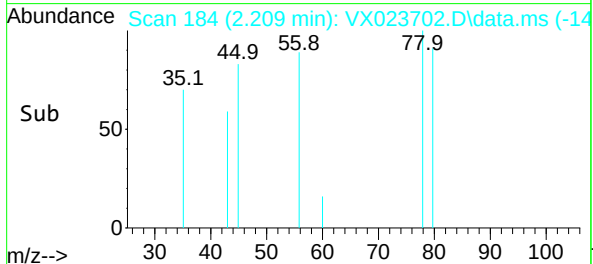
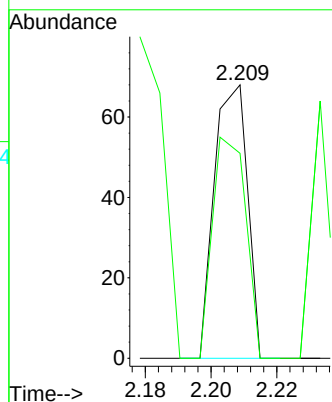
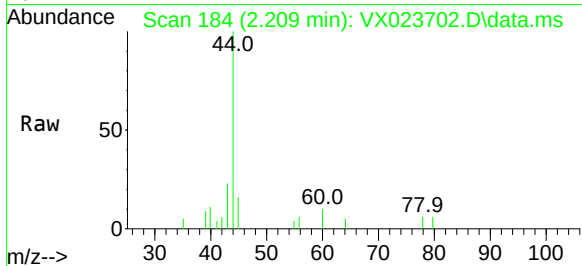




#13  
Acrolein  
Concen: 1.582 ug/l  
RT: 2.209 min Scan# 184  
Delta R.T. -0.030 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

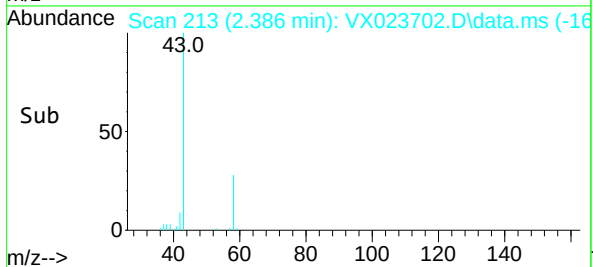
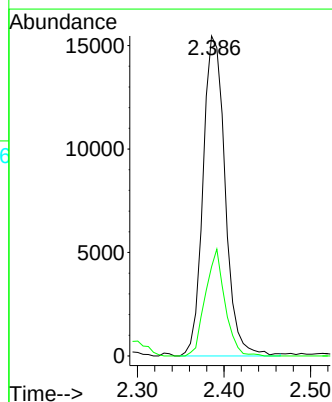
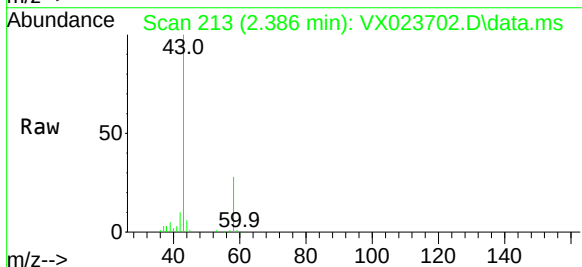
Instrument :  
MSVOA\_X  
ClientSampled :

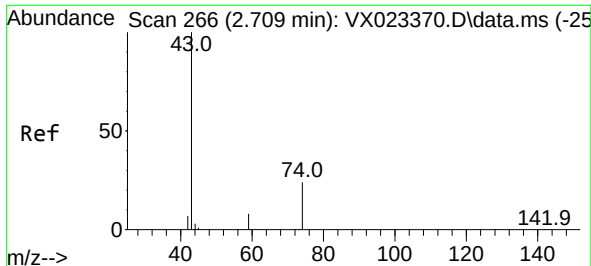
Tgt Ion: 56 Resp: 48  
Ion Ratio Lower Upper  
56 100  
55 81.3 56.4 84.6



#16  
Acetone  
Concen: 29.735 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.000 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

Tgt Ion: 43 Resp: 27414  
Ion Ratio Lower Upper  
43 100  
58 27.9 27.8 41.8

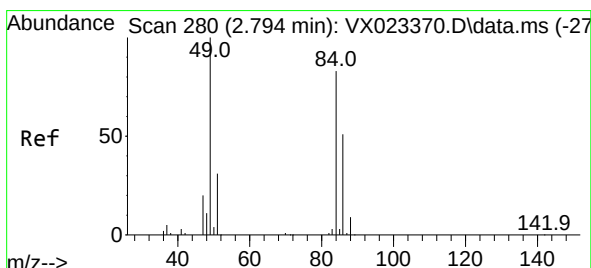
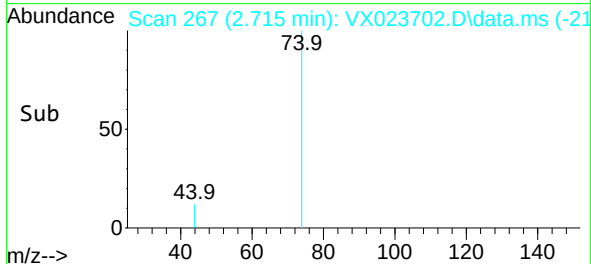
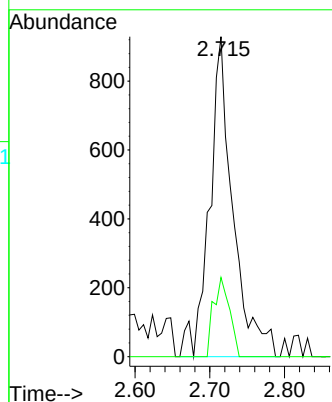
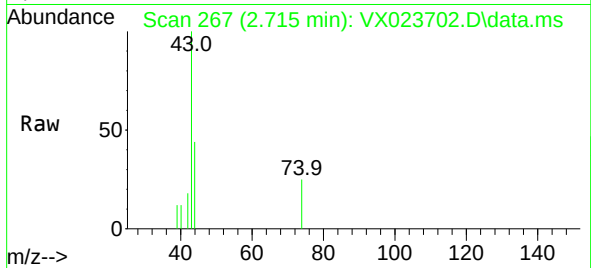




#18  
Methyl Acetate  
Concen: 0.924 ug/l  
RT: 2.715 min Scan# 267  
Delta R.T. 0.006 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

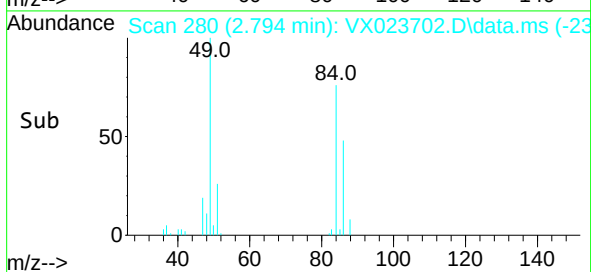
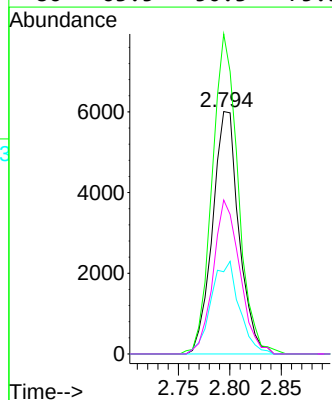
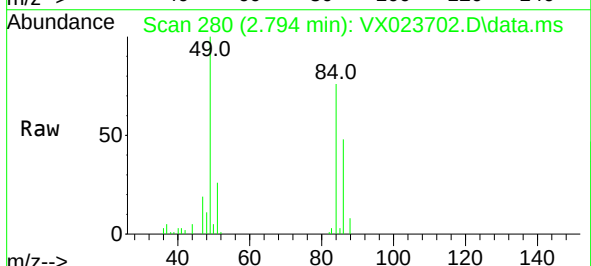
Instrument :  
MSVOA\_X  
ClientSampled :

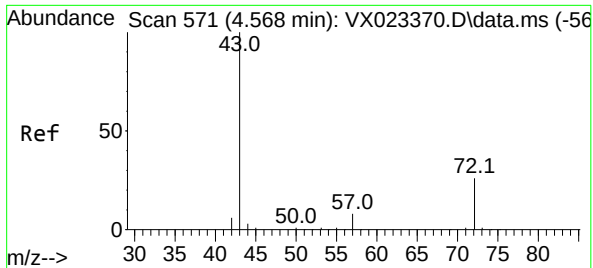
Tgt Ion: 43 Resp: 2025  
Ion Ratio Lower Upper  
43 100  
74 16.7 21.9 32.9#



#20  
Methylene Chloride  
Concen: 5.982 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.000 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

Tgt Ion: 84 Resp: 10728  
Ion Ratio Lower Upper  
84 100  
49 132.0 88.6 132.8  
51 33.9 27.0 40.6  
86 63.5 50.3 75.5

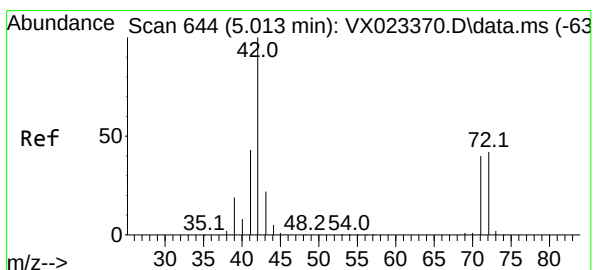
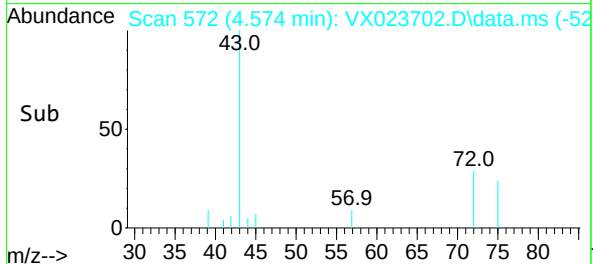
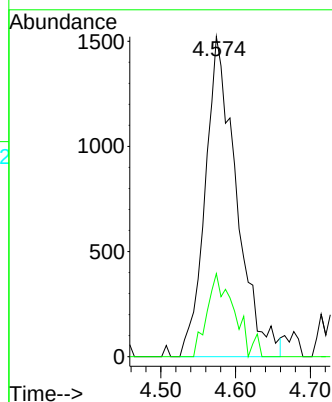
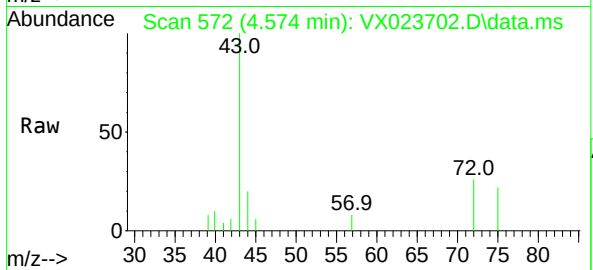




#25  
2-Butanone  
Concen: 3.083 ug/l  
RT: 4.574 min Scan# 572  
Delta R.T. 0.006 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

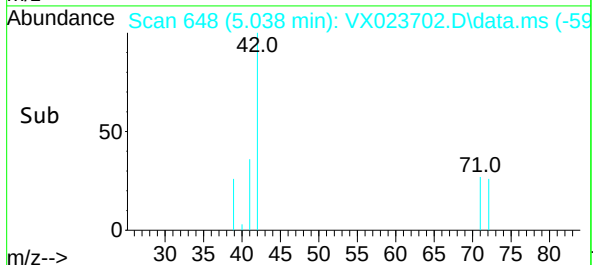
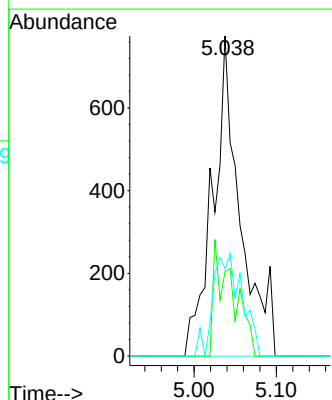
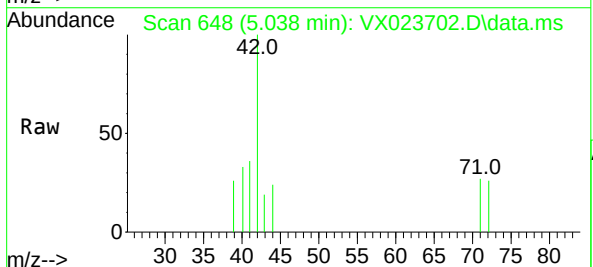
Instrument :  
MSVOA\_X  
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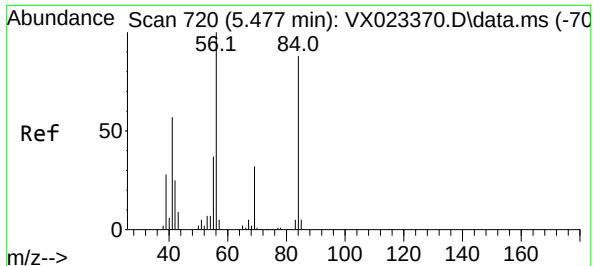
Tgt Ion: 43 Resp: 4413  
Ion Ratio Lower Upper  
43 100  
72 26.0 23.7 35.5



#29  
Tetrahydrofuran  
Concen: 1.900 ug/l  
RT: 5.038 min Scan# 648  
Delta R.T. 0.025 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

Tgt Ion: 42 Resp: 1783  
Ion Ratio Lower Upper  
42 100  
72 25.7 41.7 62.5#  
71 34.0 38.4 57.6#

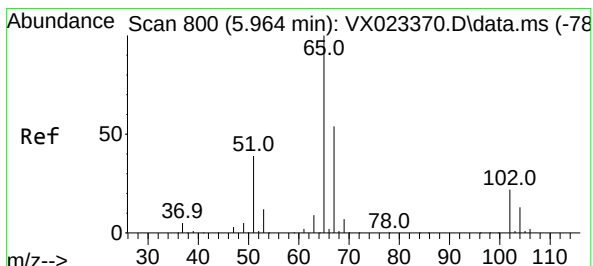
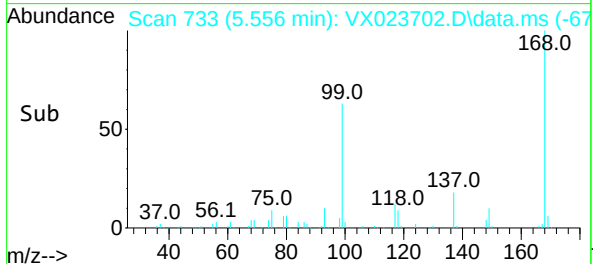
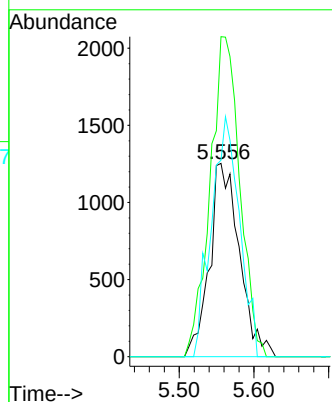
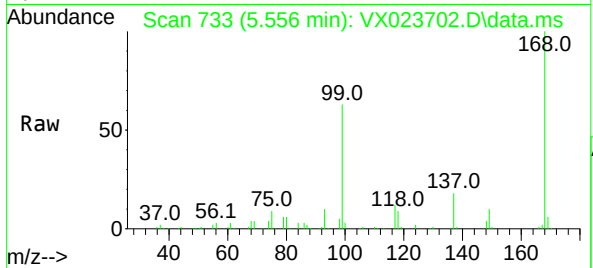




#31  
Cyclohexane  
Concen: 1.252 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. 0.079 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

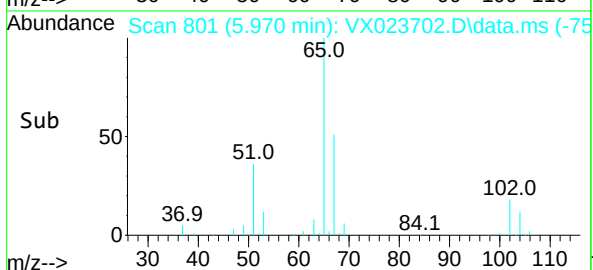
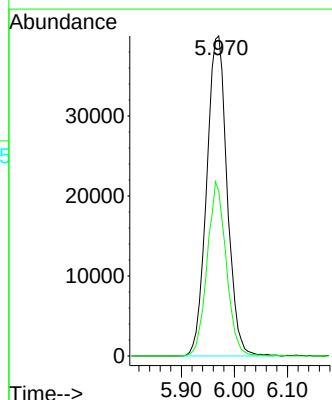
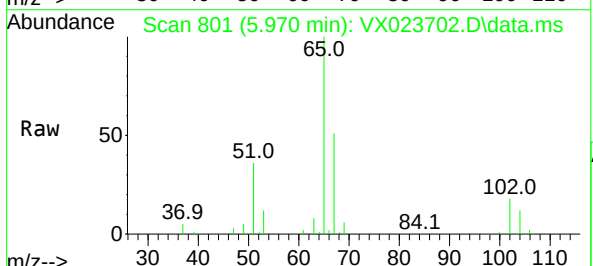
Instrument :  
MSVOA\_X  
ClientSampled :

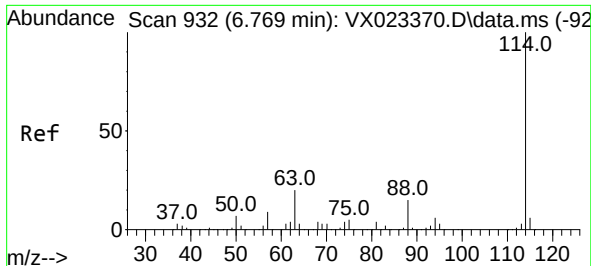
Tgt Ion: 56 Resp: 3487  
Ion Ratio Lower Upper  
56 100  
69 165.6 25.3 37.9#  
84 101.7 71.4 107.0



#33  
1,2-Dichloroethane-d4  
Concen: 57.023 ug/l  
RT: 5.970 min Scan# 801  
Delta R.T. 0.006 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

Tgt Ion: 65 Resp: 107171  
Ion Ratio Lower Upper  
65 100  
67 50.6 0.0 105.4

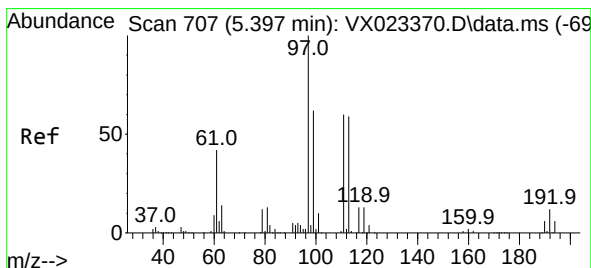
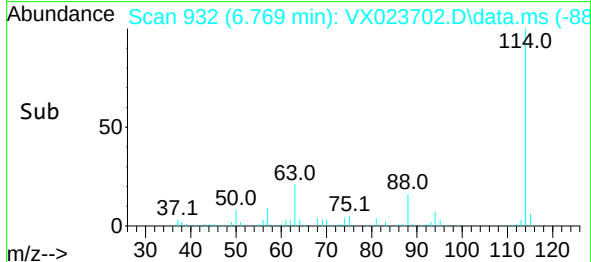
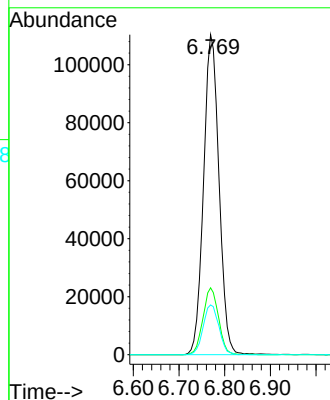
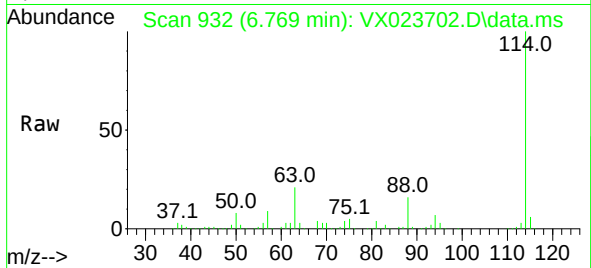




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. -0.000 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

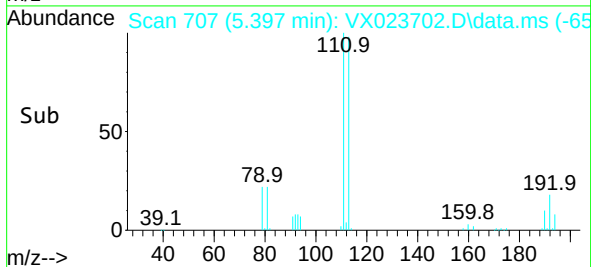
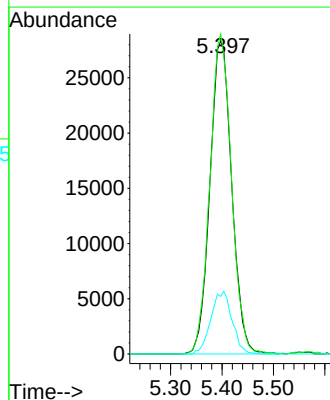
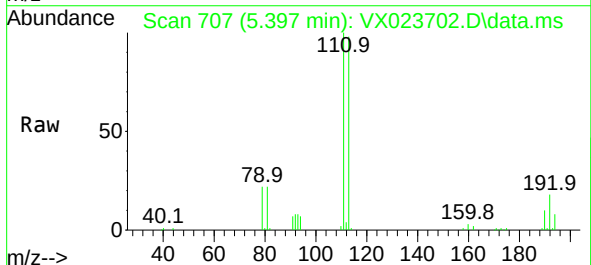
Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion:114 Resp: 258864  
Ion Ratio Lower Upper  
114 100  
63 20.9 0.0 40.8  
88 15.5 0.0 32.8

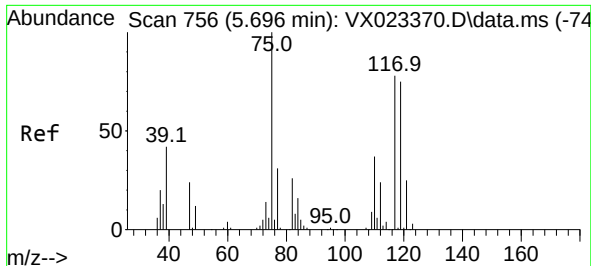


#35  
Dibromofluoromethane  
Concen: 51.485 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

Tgt Ion:113 Resp: 83330  
Ion Ratio Lower Upper  
113 100  
111 101.5 81.9 122.9  
192 19.5 16.7 25.1







#36

1,1-Dichloropropene

Concen: 4.984 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX023702.D

Acq: 13 Aug 2021 19:45

Tgt Ion: 75 Resp: 11672

Ion Ratio Lower Upper

75 100

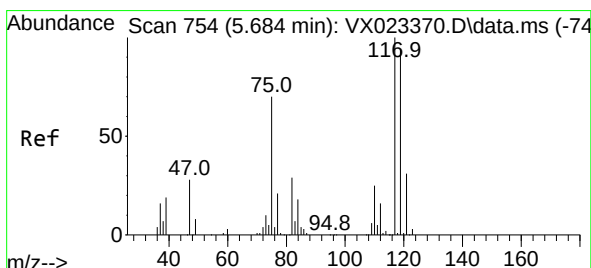
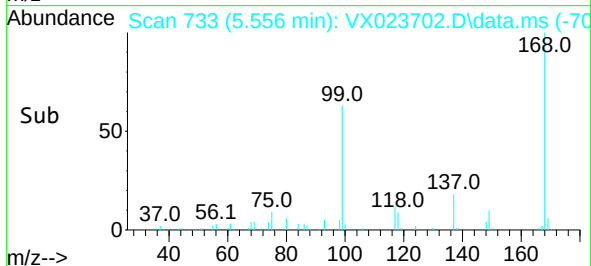
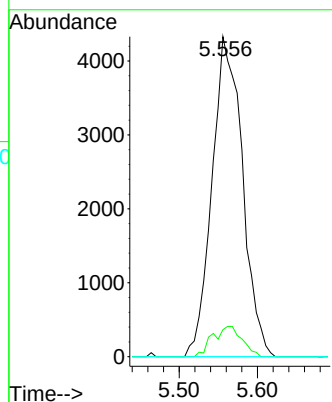
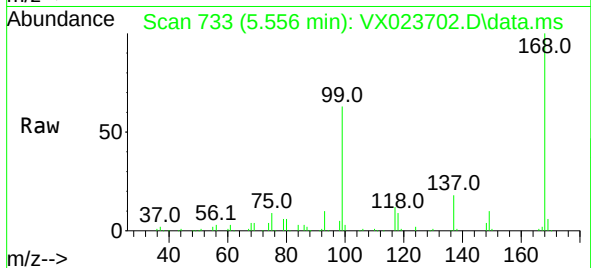
110 9.2 18.1 54.4#

77 0.0 25.3 37.9#

Instrument :

MSVOA\_X

ClientSampled :



#38

Carbon Tetrachloride

Concen: 6.528 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.128 min

Lab File: VX023702.D

Acq: 13 Aug 2021 19:45

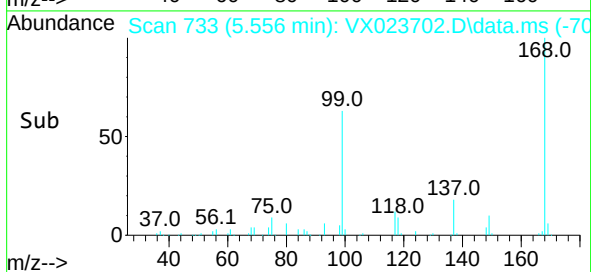
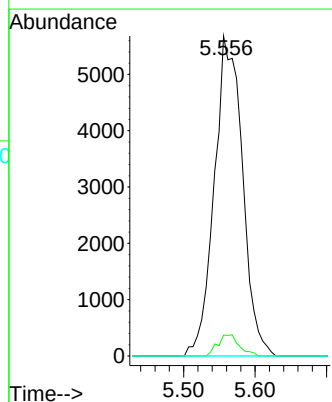
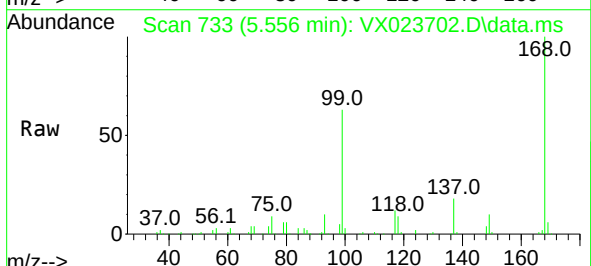
Tgt Ion: 117 Resp: 15546

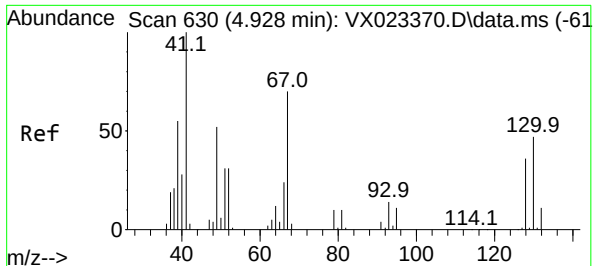
Ion Ratio Lower Upper

117 100

119 6.5 76.2 114.2#

121 0.0 24.8 37.2#

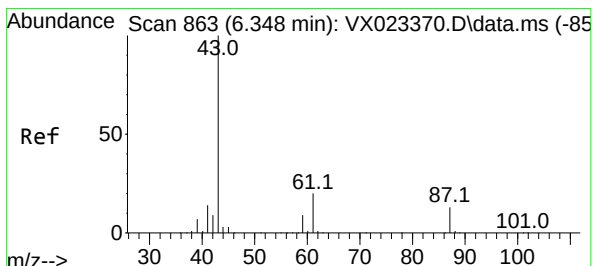
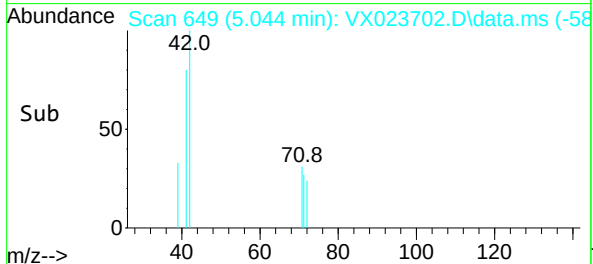
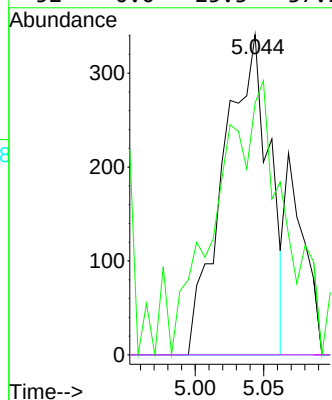
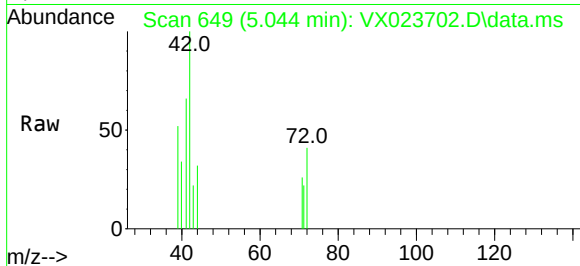




#41  
Methacrylonitrile  
Concen: 0.510 ug/l  
RT: 5.044 min Scan# 649  
Delta R.T. 0.116 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

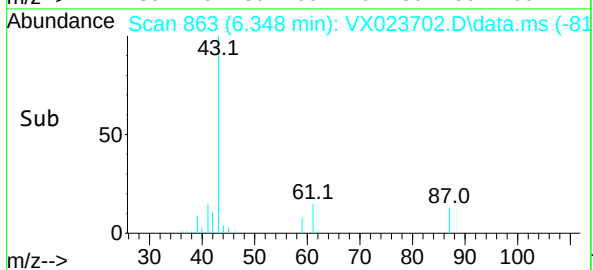
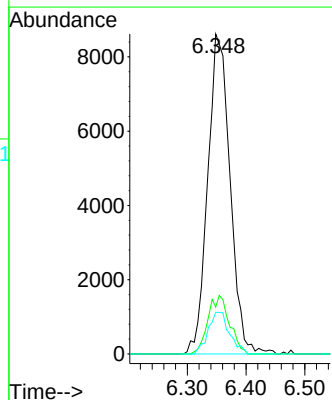
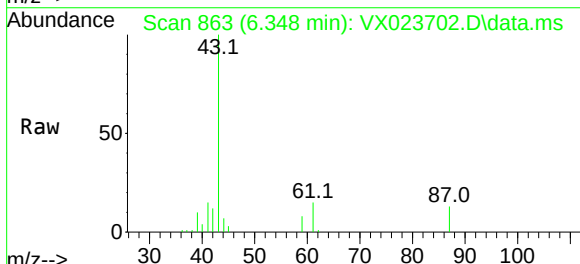
Instrument :  
MSVOA\_X  
ClientSampled :

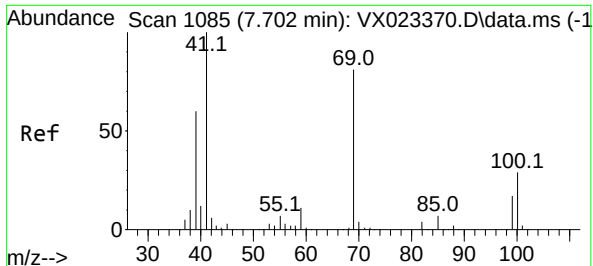
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 795   |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 123.9 | 42.5  | 63.7# |
| 67       | 0.0   | 65.0  | 97.6# |
| 52       | 0.0   | 25.3  | 37.9# |



#43  
Isopropyl Acetate  
Concen: 4.986 ug/l  
RT: 6.348 min Scan# 863  
Delta R.T. 0.000 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 22810 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 17.6  | 18.2  | 27.4# |
| 87       | 12.4  | 12.5  | 18.7# |

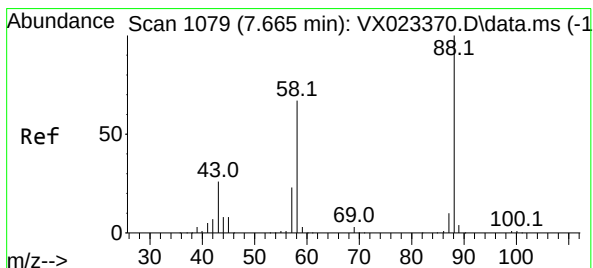
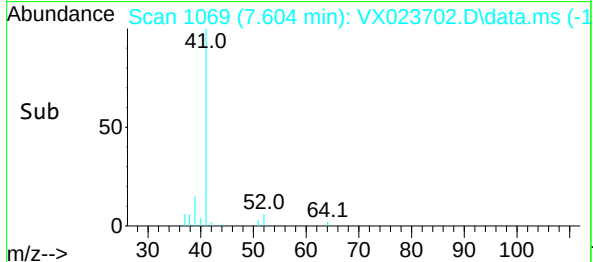
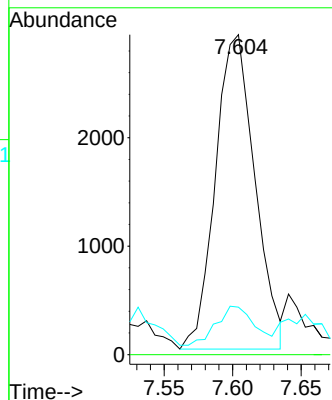
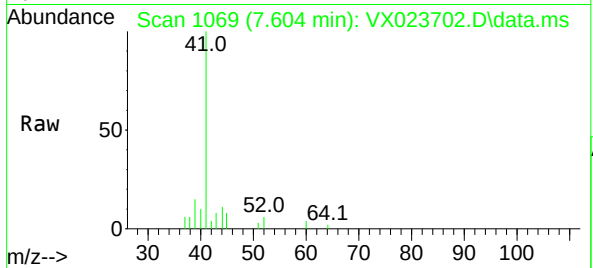




#48  
Methyl methacrylate  
Concen: 2.739 ug/l  
RT: 7.604 min Scan# 1069  
Delta R.T. -0.098 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

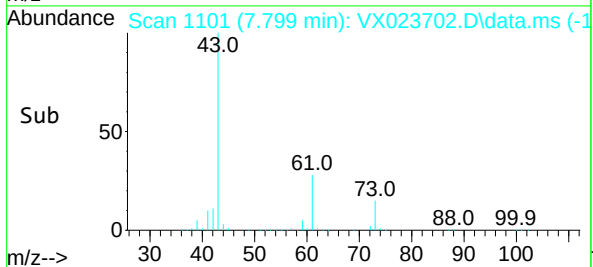
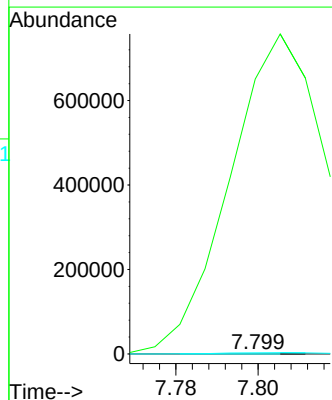
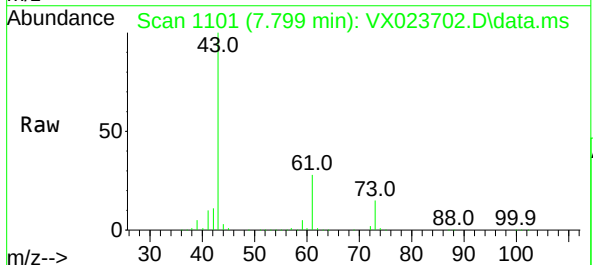
Instrument :  
MSVOA\_X  
ClientSampled :

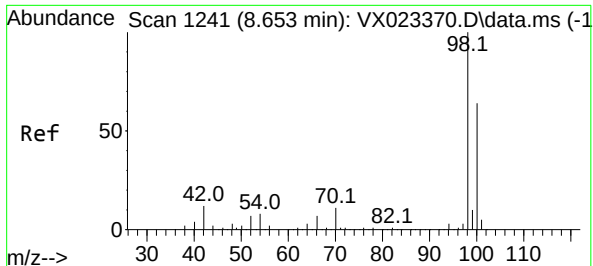
Tgt Ion: 41 Resp: 5803  
Ion Ratio Lower Upper  
41 100  
69 0.0 76.0 114.0#  
39 0.0 44.6 67.0#



#49  
1,4-Dioxane  
Concen: 1.441 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.134 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

Tgt Ion: 88 Resp: 65  
Ion Ratio Lower Upper  
88 100  
43 1975112.3 23.2 34.8#  
58 8726.2 55.0 82.4#





#50

Toluene-d8

Concen: 54.513 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX023702.D

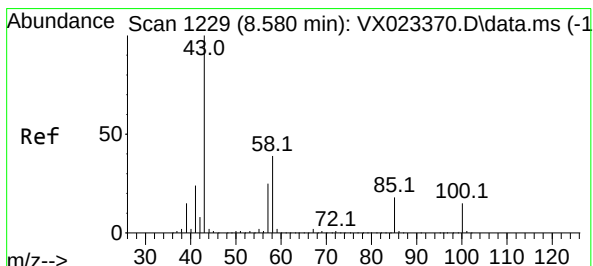
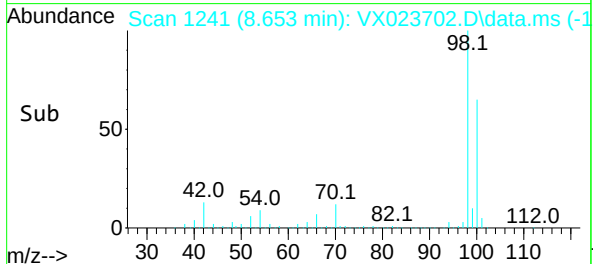
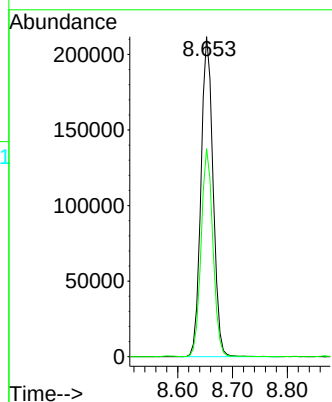
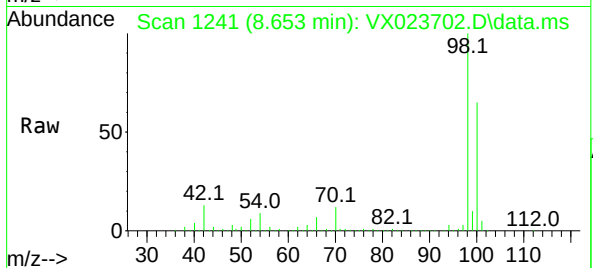
Acq: 13 Aug 2021 19:45

Tgt Ion: 98 Resp: 324162

Ion Ratio Lower Upper

98 100

100 63.5 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 29.660 ug/l

RT: 8.555 min Scan# 1225

Delta R.T. -0.025 min

Lab File: VX023702.D

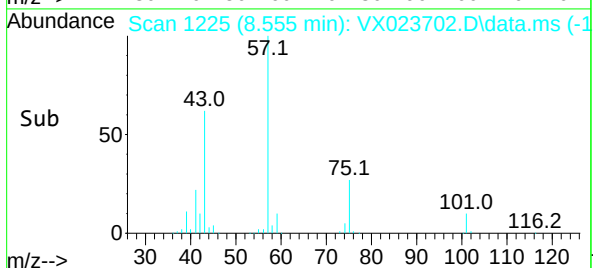
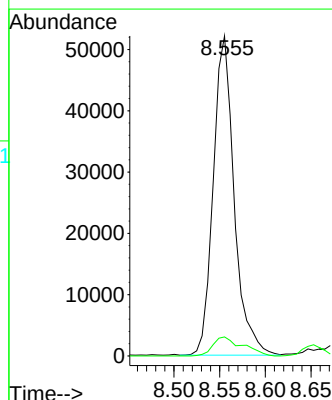
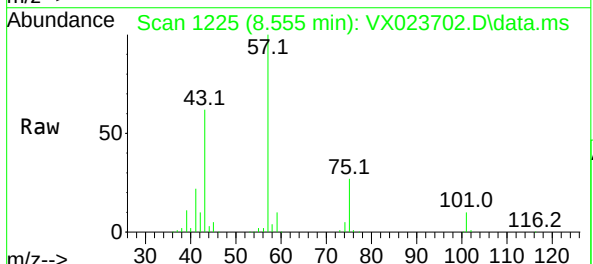
Acq: 13 Aug 2021 19:45

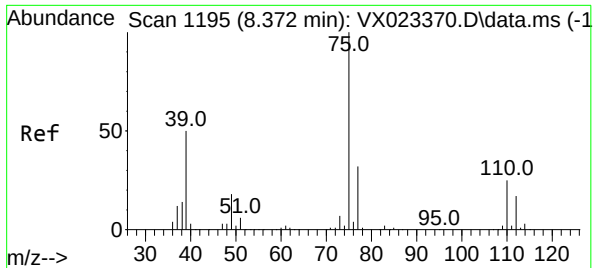
Tgt Ion: 43 Resp: 82999

Ion Ratio Lower Upper

43 100

58 8.5 35.4 53.0#

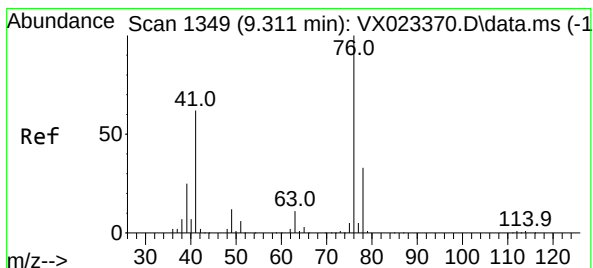
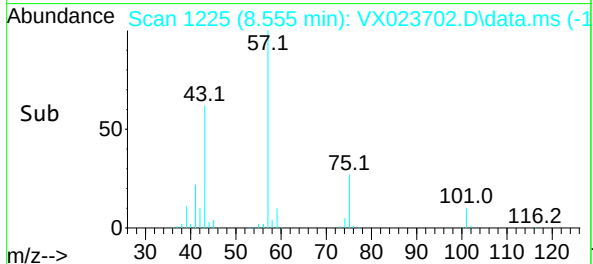
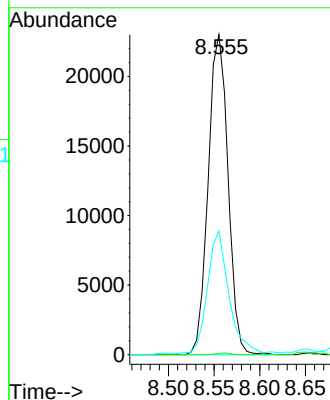
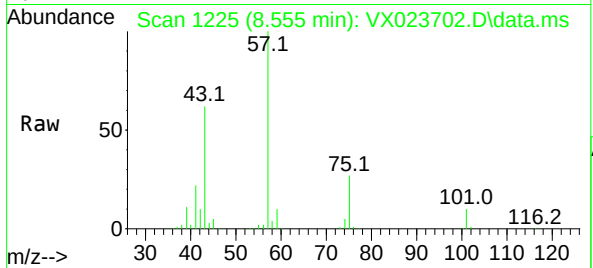




#54  
 cis-1,3-Dichloropropene  
 Concen: 12.362 ug/l  
 RT: 8.555 min Scan# 1225  
 Delta R.T. 0.183 min  
 Lab File: VX023702.D  
 Acq: 13 Aug 2021 19:45

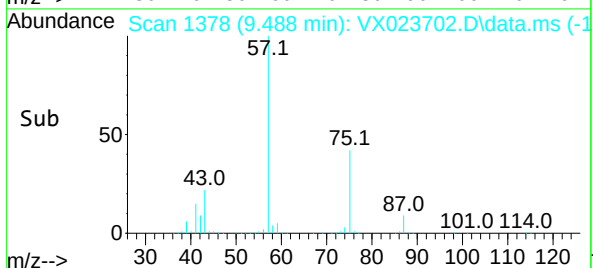
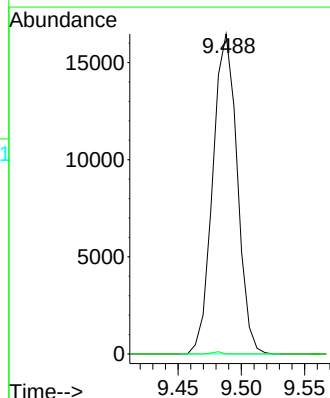
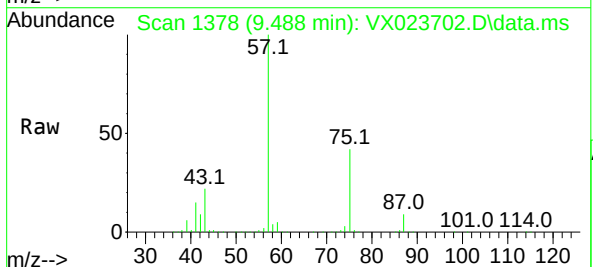
Instrument :  
 MSVOA\_X  
 ClientSampled :

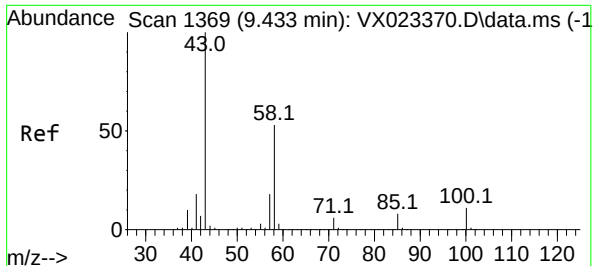
Tgt Ion: 75 Resp: 34600  
 Ion Ratio Lower Upper  
 75 100  
 77 0.4 25.7 38.5#  
 39 38.2 35.1 52.7



#57  
 1,3-Dichloropropane  
 Concen: 7.465 ug/l  
 RT: 9.488 min Scan# 1378  
 Delta R.T. 0.177 min  
 Lab File: VX023702.D  
 Acq: 13 Aug 2021 19:45

Tgt Ion: 76 Resp: 22095  
 Ion Ratio Lower Upper  
 76 100  
 78 0.3 26.2 39.2#

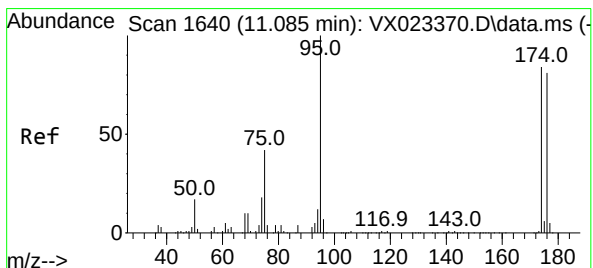
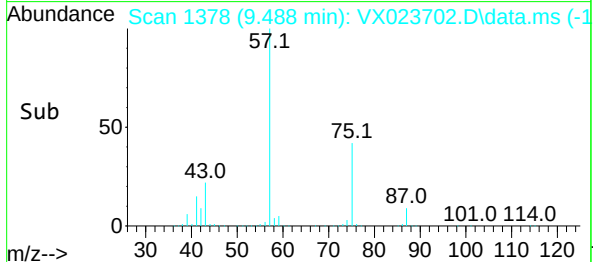
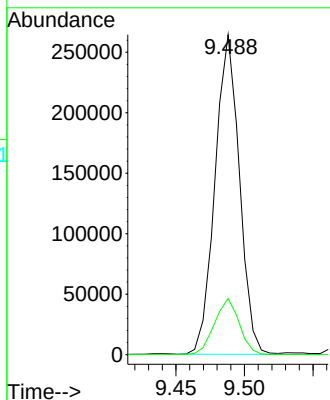
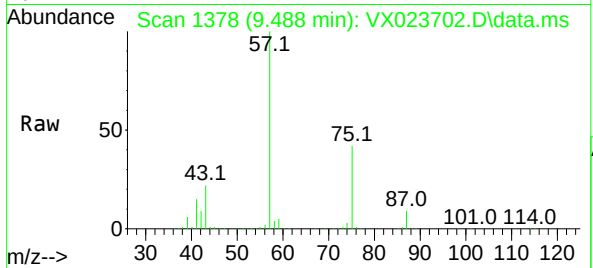




#59  
2-Hexanone  
Concen: 153.684 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.055 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

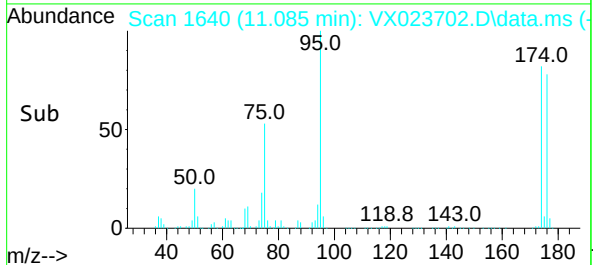
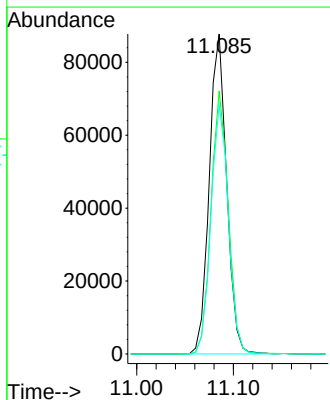
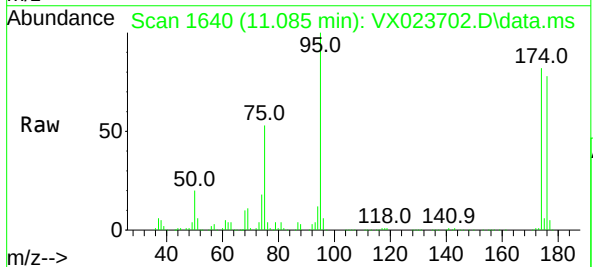
Instrument :  
MSVOA\_X  
ClientSampled :

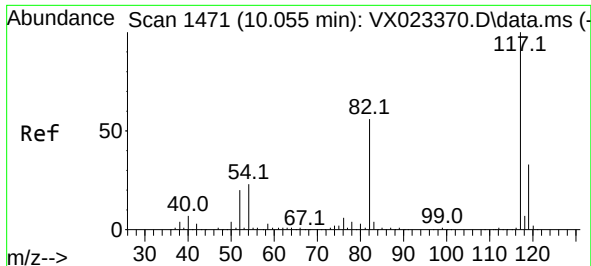
Tgt Ion: 43 Resp: 326578  
Ion Ratio Lower Upper  
43 100  
58 17.8 30.9 92.8#



#62  
4-Bromofluorobenzene  
Concen: 54.182 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

Tgt Ion: 95 Resp: 109559  
Ion Ratio Lower Upper  
95 100  
174 81.9 0.0 154.6  
176 78.0 0.0 155.8

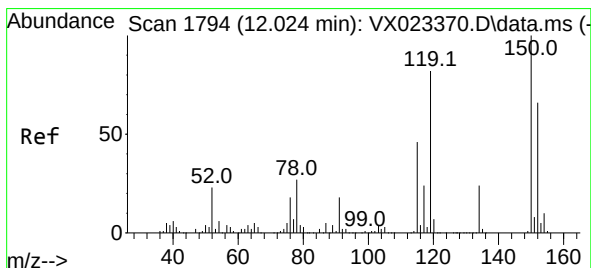
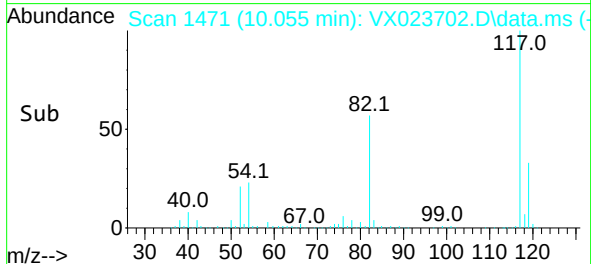
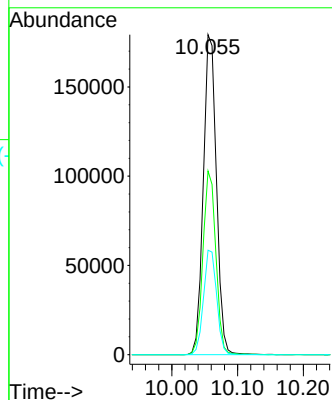
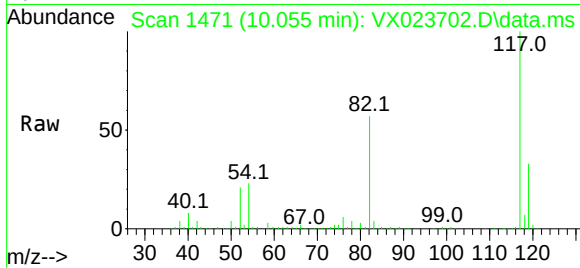




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

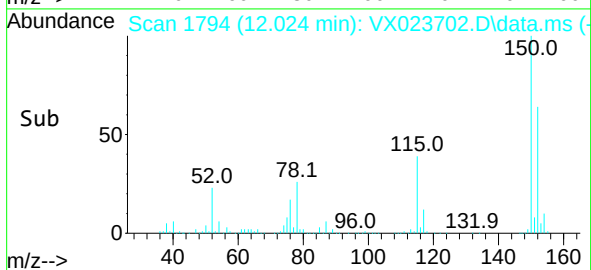
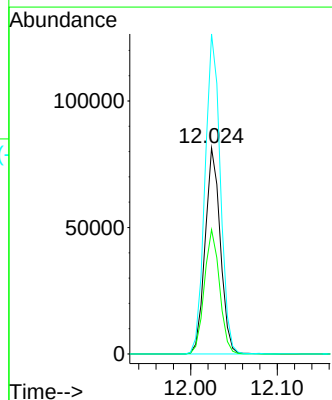
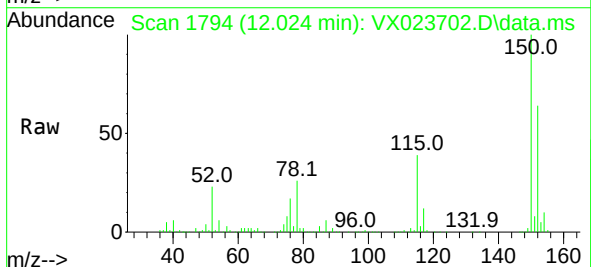
Instrument :  
MSVOA\_X  
ClientSampled :

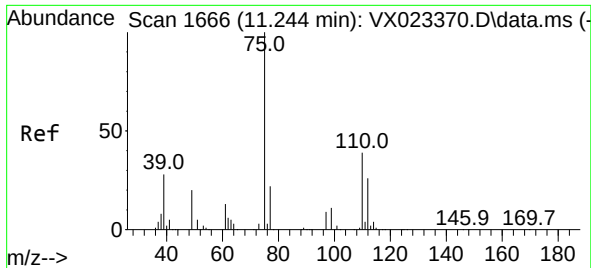
Tgt Ion:117 Resp: 248362  
Ion Ratio Lower Upper  
117 100  
82 57.4 47.4 71.2  
119 32.6 26.6 39.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

Tgt Ion:152 Resp: 99164  
Ion Ratio Lower Upper  
152 100  
115 60.4 41.1 123.3  
150 156.5 0.0 349.0

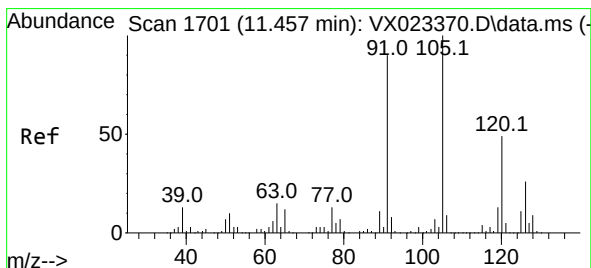
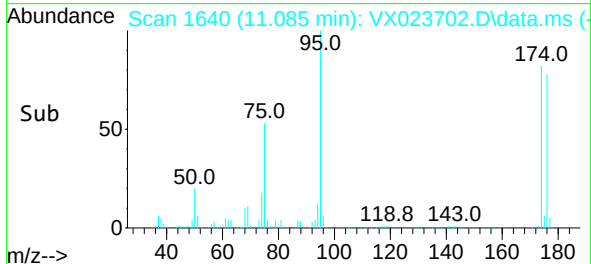
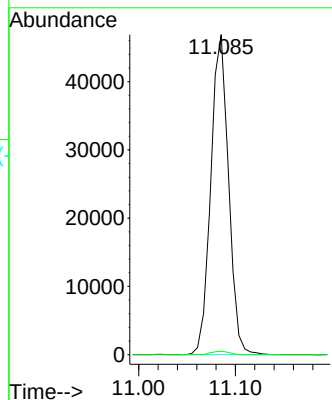
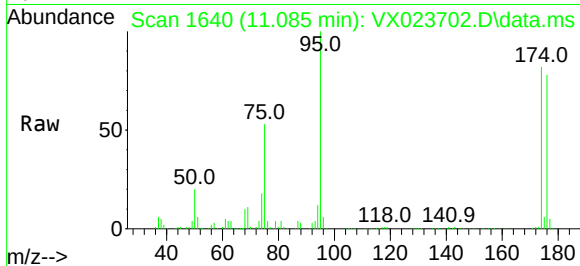




#76  
1,2,3-Trichloropropane  
Concen: 27.421 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

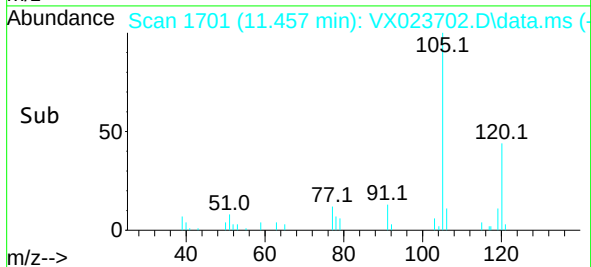
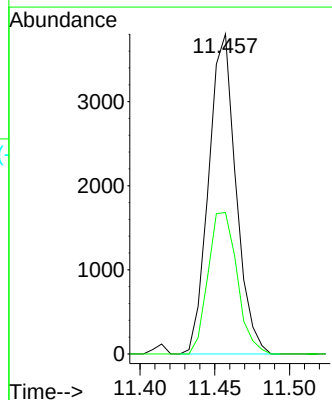
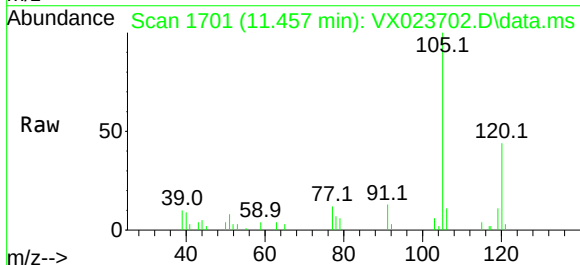
Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion: 75 Resp: 59838  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.1 57.5#

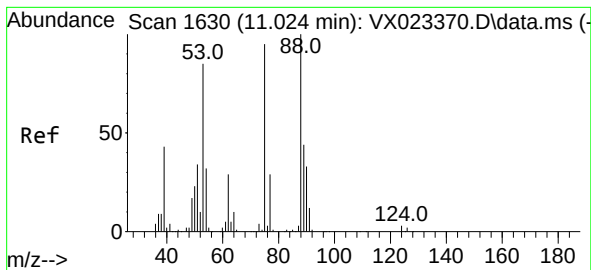


#80  
1,3,5-Trimethylbenzene  
Concen: 0.793 ug/l  
RT: 11.457 min Scan# 1701  
Delta R.T. 0.000 min  
Lab File: VX023702.D  
Acq: 13 Aug 2021 19:45

Tgt Ion: 105 Resp: 4831  
Ion Ratio Lower Upper  
105 100  
120 47.0 23.8 71.5

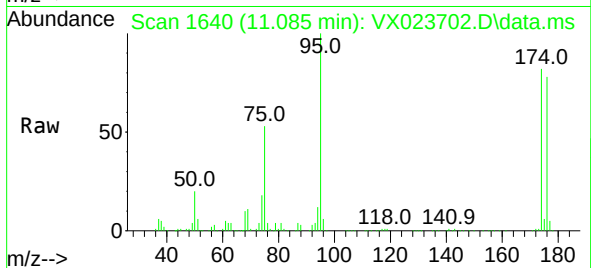






#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 73.732 ug/l  
 RT: 11.085 min Scan# 1640  
 Delta R.T. 0.061 min  
 Lab File: VX023702.D  
 Acq: 13 Aug 2021 19:45

Instrument :  
 MSVOA\_X  
 ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 59838  |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 0.0   | 74.5  | 111.7# |
| 89       | 0.0   | 37.9  | 56.9#  |

