

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX071621\  
 Data File : VX023321.D  
 Acq On : 16 Jul 2021 12:44  
 Operator : JC/MD  
 Sample : M3027-05 20X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jul 17 02:08:42 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X070221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 02 14:29:42 2021  
 Response via : Initial Calibration

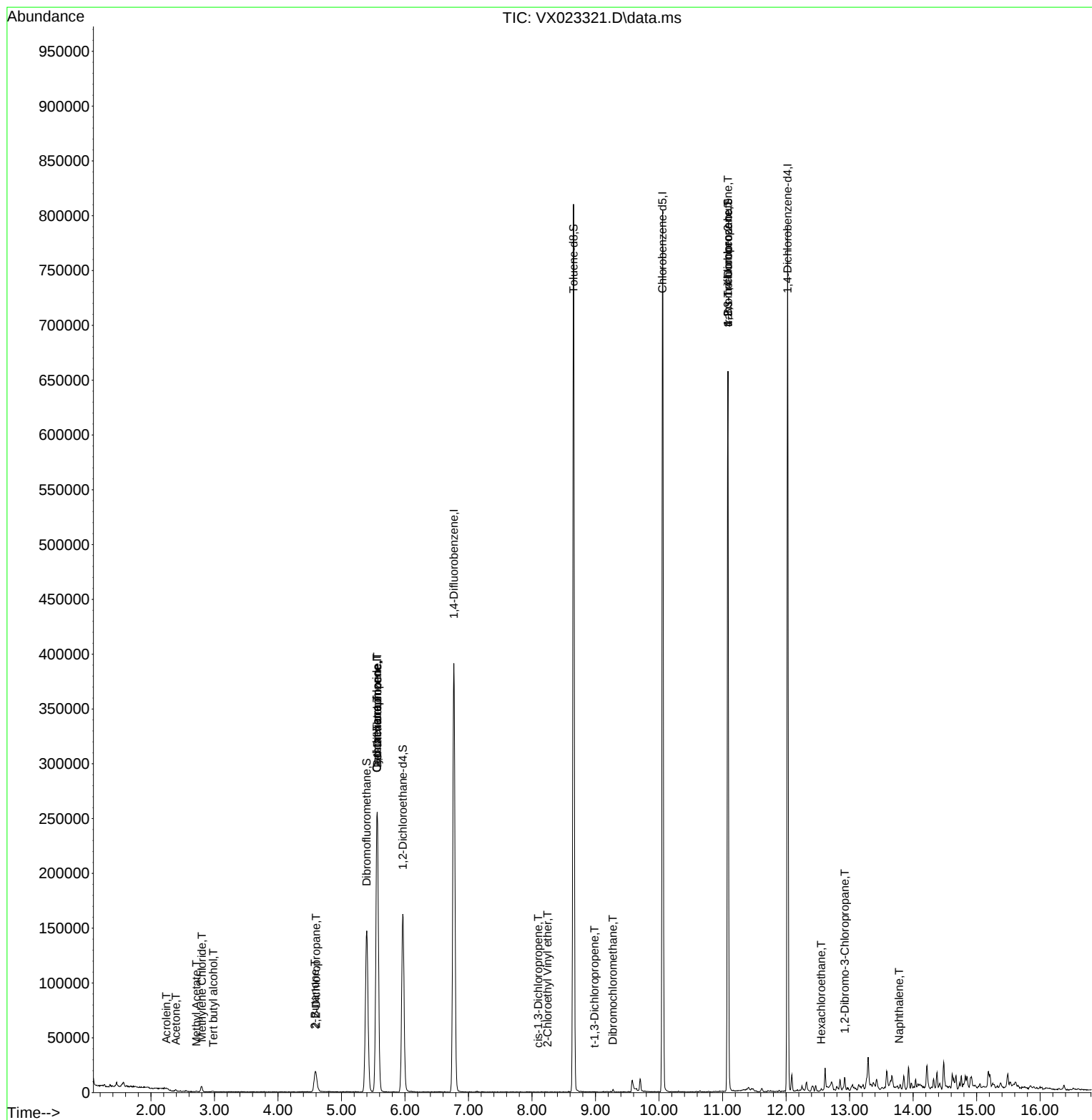
| Compound                      | R.T. QIon |       | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|--------|----------|
| Internal Standards            |           |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.562     | 168   | 239491   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769     | 114   | 396352   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117   | 353709   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024    | 152   | 154473   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |           |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964     | 65    | 168091   | 52.222    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 78 - 117 | Recovery  | =      | 104.440% |
| 35) Dibromofluoromethane      | 5.397     | 113   | 128188   | 50.084    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 75 - 124 | Recovery  | =      | 100.160% |
| 50) Toluene-d8                | 8.653     | 98    | 471327   | 49.367    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 92 - 112 | Recovery  | =      | 98.740%  |
| 62) 4-Bromofluorobenzene      | 11.085    | 95    | 170820   | 46.345    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 83 - 123 | Recovery  | =      | 92.680%  |
| Target Compounds              |           |       |          |           |        | Qvalue   |
| 5) Bromomethane               | 1.611     | 94    | 632      | Below Cal |        | 100      |
| 11) Tert butyl alcohol        | 2.983     | 59    | 590      | 0.871     | ug/l # | 73       |
| 13) Acrolein                  | 2.239     | 56    | 166      | 0.368     | ug/l # | 1        |
| 16) Acetone                   | 2.392     | 43    | 1755     | 1.378     | ug/l   | 100      |
| 18) Methyl Acetate            | 2.715     | 43    | 1038     | 0.336     | ug/l # | 52       |
| 20) Methylene Chloride        | 2.800     | 84    | 2452     | 0.894     | ug/l   | 87       |
| 25) 2-Butanone                | 4.580     | 43    | 1630     | 0.849     | ug/l # | 45       |
| 26) 2,2-Dichloropropane       | 4.598     | 77    | 1642     | 0.443     | ug/l # | 52       |
| 31) Cyclohexane               | 5.556     | 56    | 4931     | 1.279     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.562     | 75    | 18950    | 5.363     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.556     | 117   | 25369    | 6.878     | ug/l # | 17       |
| 53) t-1,3-Dichloropropene     | 8.982     | 75    | 20       | 2.741     | ug/l # | 44       |
| 54) cis-1,3-Dichloropropene   | 8.098     | 75    | 23       | 2.178     | ug/l # | 1        |
| 58) 2-Chloroethyl Vinyl ether | 8.244     | 63    | 43       | 4.708     | ug/l # | 45       |
| 60) Dibromochloromethane      | 9.274     | 129   | 328      | 3.211     | ug/l # | 11       |
| 76) 1,2,3-Trichloropropane    | 11.085    | 75    | 90371    | 29.072    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.085    | 75    | 90371    | 78.206    | ug/l # | 12       |
| 90) Hexachloroethane          | 12.554    | 117   | 125      | 3.067     | ug/l # | 9        |
| 92) 1,2-Dibromo-3-Chloropr... | 12.926    | 75    | 25       | 2.598     | ug/l # | 1        |
| 95) Naphthalene               | 13.780    | 128   | 602      | 1.326     | ug/l # | 29       |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX071621\  
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Sample : M3027-05 20X  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Jul 17 02:08:42 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X070221W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 02 14:29:42 2021  
Response via : Initial Calibration

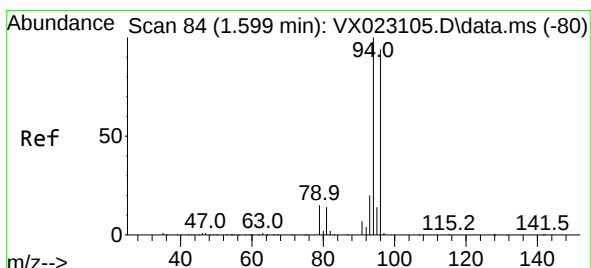
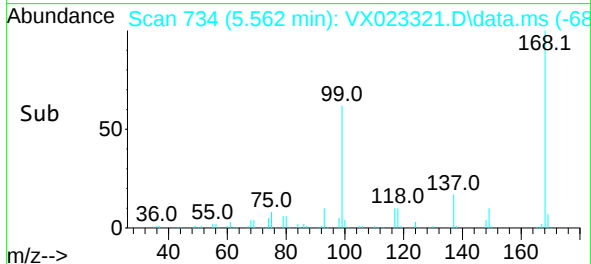
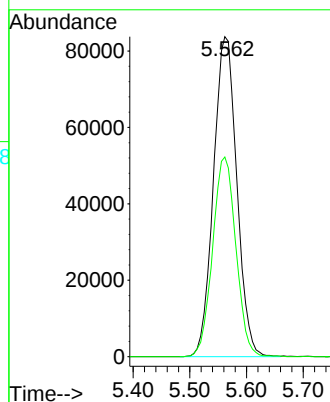
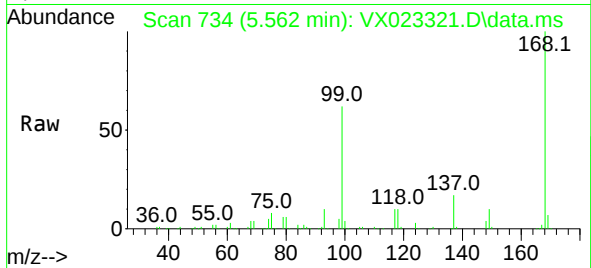




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.000 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

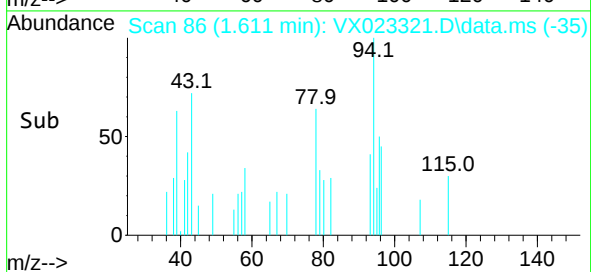
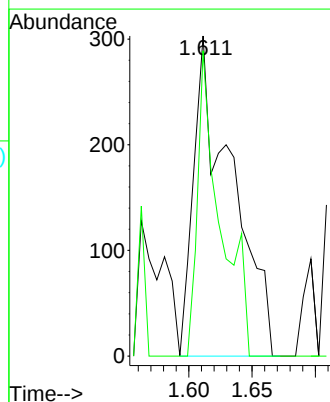
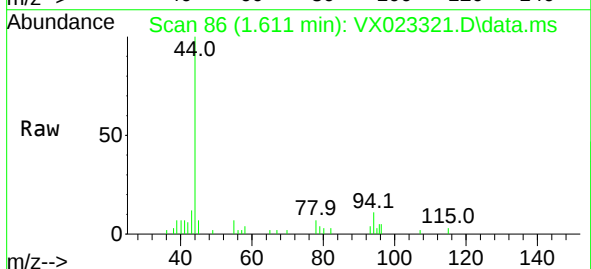
Instrument :  
MSVOA\_X  
ClientSampled :

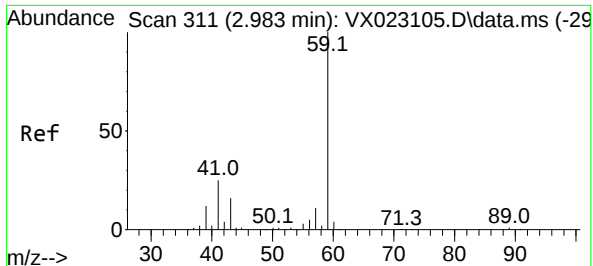
Tgt Ion:168 Resp: 239491  
Ion Ratio Lower Upper  
168 100  
99 62.4 45.8 68.6



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.611 min Scan# 86  
Delta R.T. 0.012 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

Tgt Ion: 94 Resp: 632  
Ion Ratio Lower Upper  
94 100  
96 95.4 76.4 114.6



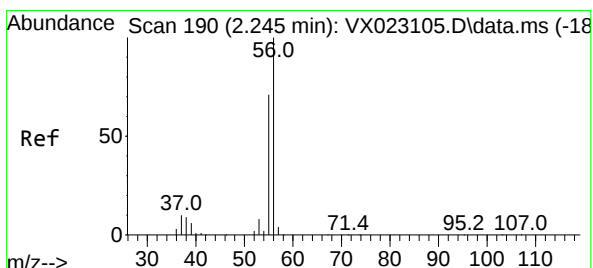
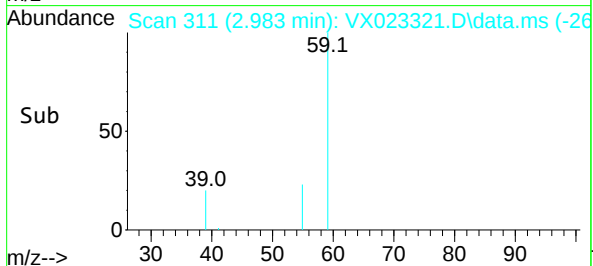
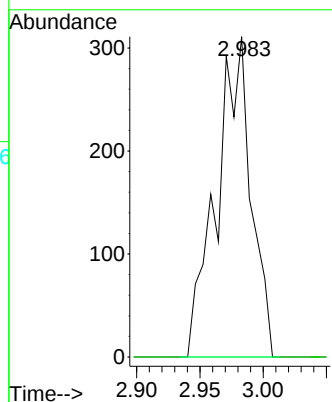
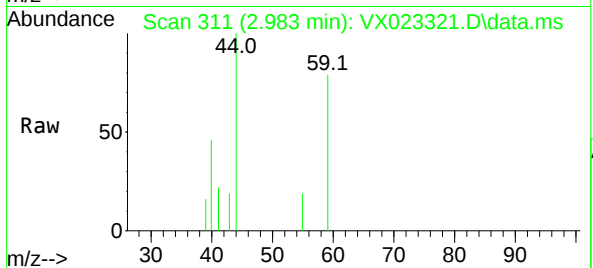


#11

Tert butyl alcohol  
Concen: 0.871 ug/l  
RT: 2.983 min Scan# 311  
Delta R.T. -0.000 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

Instrument :  
MSVOA\_X  
ClientSampled :

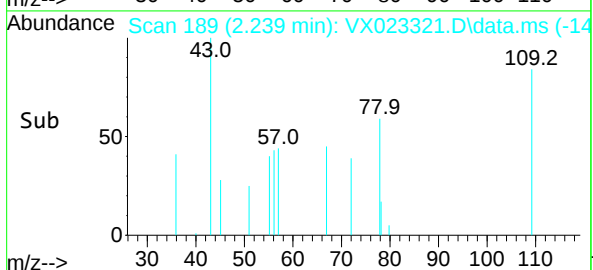
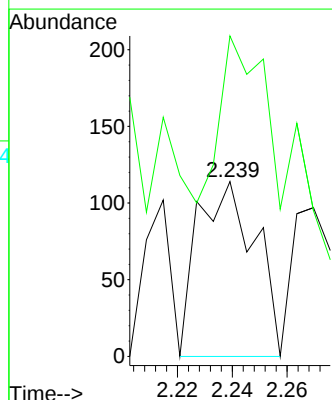
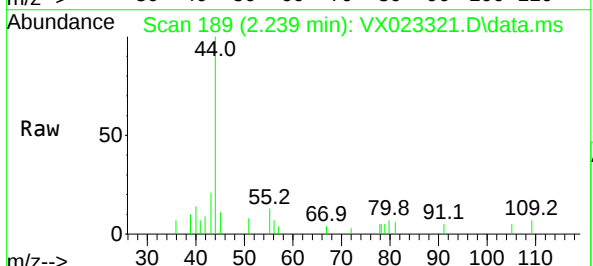
Tgt Ion: 59 Resp: 590  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

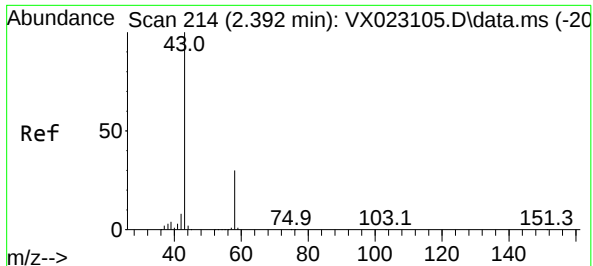


#13

Acrolein  
Concen: 0.368 ug/l  
RT: 2.239 min Scan# 189  
Delta R.T. -0.006 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

Tgt Ion: 56 Resp: 166  
Ion Ratio Lower Upper  
56 100  
55 269.3 56.4 84.6#

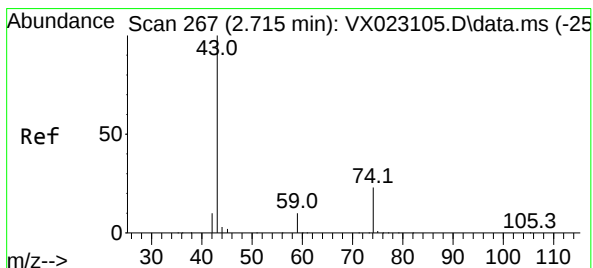
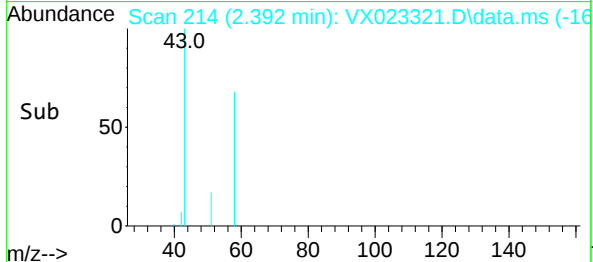
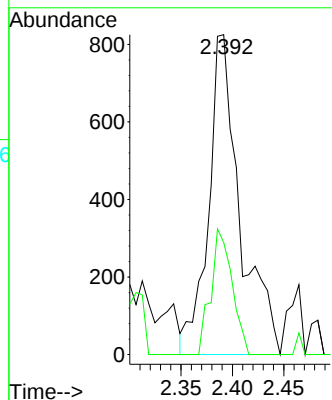
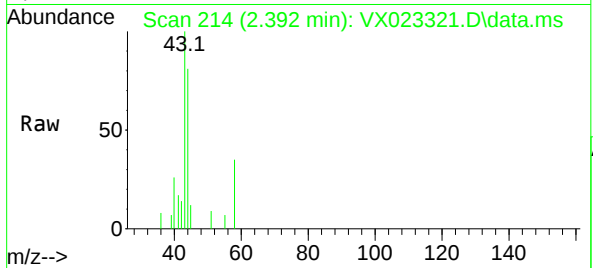




#16  
Acetone  
Concen: 1.378 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. -0.000 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

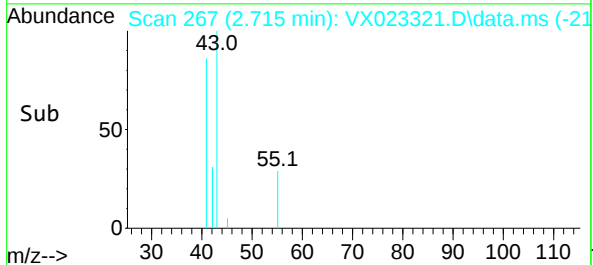
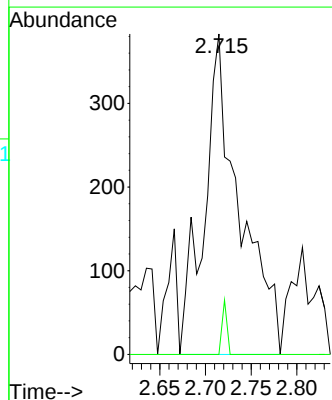
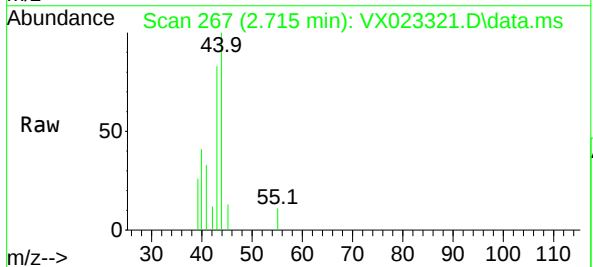
Instrument :  
MSVOA\_X  
ClientSampleId :

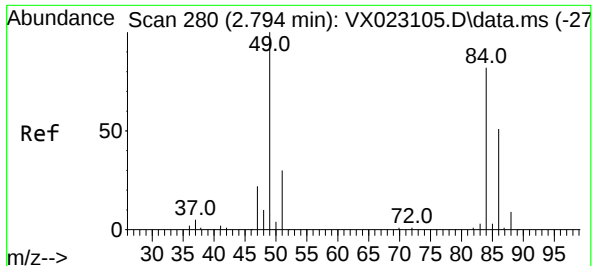
Tgt Ion: 43 Resp: 1755  
Ion Ratio Lower Upper  
43 100  
58 35.0 27.8 41.8



#18  
Methyl Acetate  
Concen: 0.336 ug/l  
RT: 2.715 min Scan# 267  
Delta R.T. -0.000 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

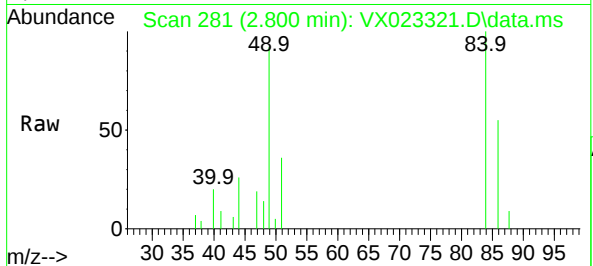
Tgt Ion: 43 Resp: 1038  
Ion Ratio Lower Upper  
43 100  
74 2.3 21.9 32.9#



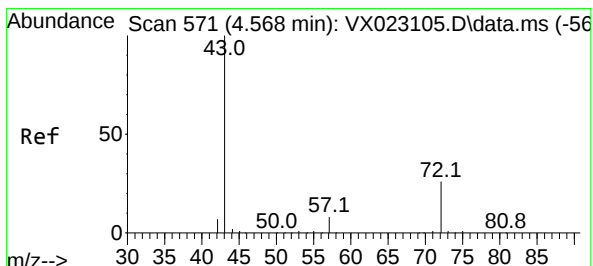
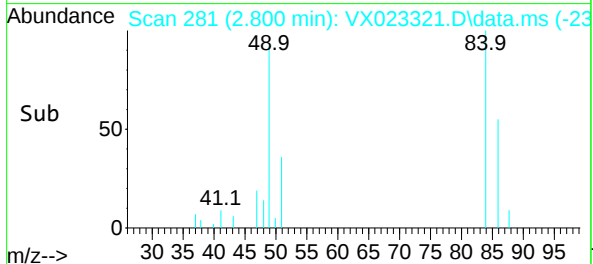
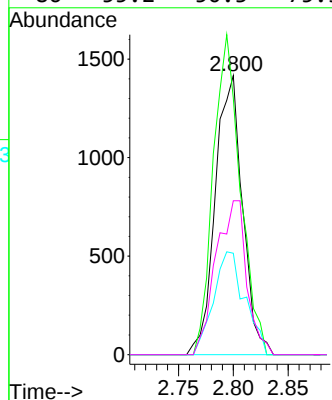


#20  
Methylene Chloride  
Concen: 0.894 ug/l  
RT: 2.800 min Scan# 281  
Delta R.T. 0.006 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

Instrument :  
MSVOA\_X  
ClientSampleId :

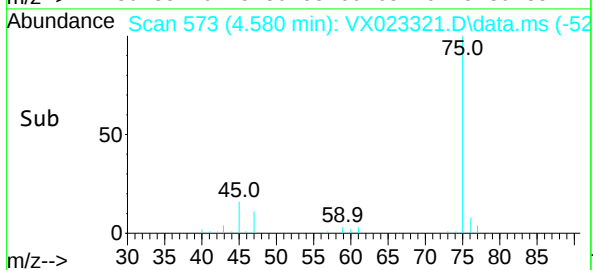
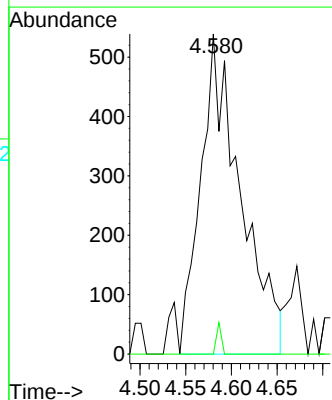
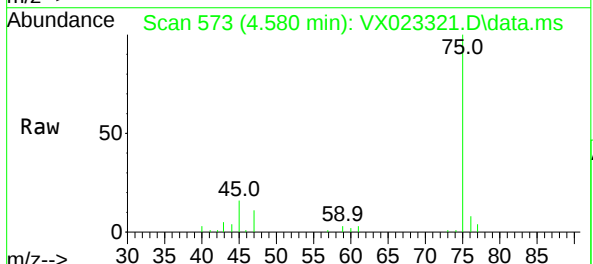


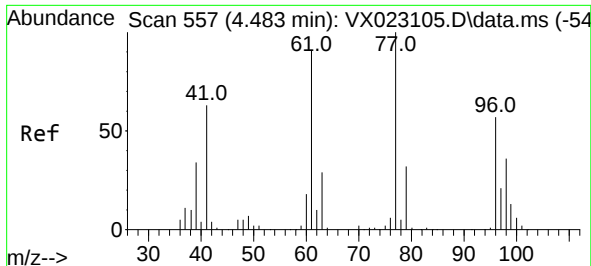
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 91.9  | 88.6  | 132.8 |
| 51      | 36.4  | 27.0  | 40.6  |
| 86      | 55.2  | 50.3  | 75.5  |



#25  
2-Butanone  
Concen: 0.849 ug/l  
RT: 4.580 min Scan# 573  
Delta R.T. 0.012 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 0.0   | 23.7  | 35.5# |





#26

2,2-Dichloropropane

Concen: 0.443 ug/l

RT: 4.598 min Scan# 576

Delta R.T. 0.115 min

Lab File: VX023321.D

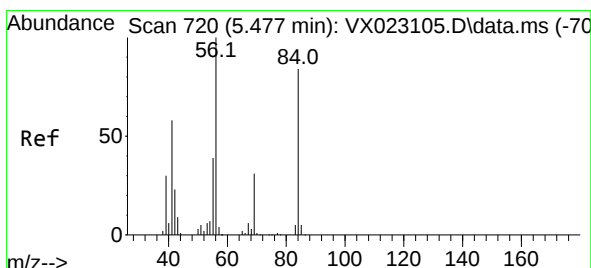
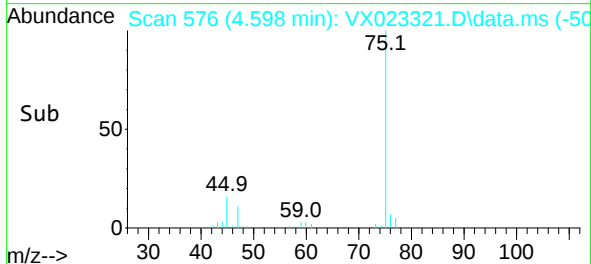
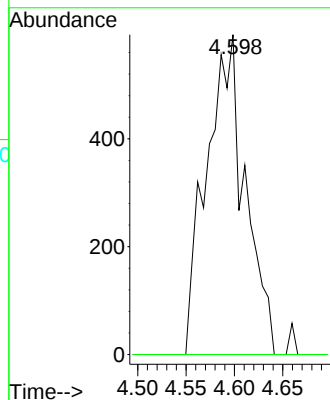
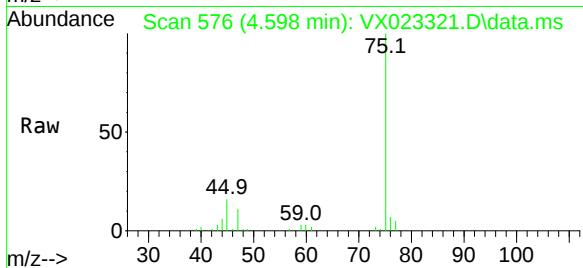
Acq: 16 Jul 2021 12:44

Tgt Ion: 77 Resp: 1642

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.1#



#31

Cyclohexane

Concen: 1.279 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.079 min

Lab File: VX023321.D

Acq: 16 Jul 2021 12:44

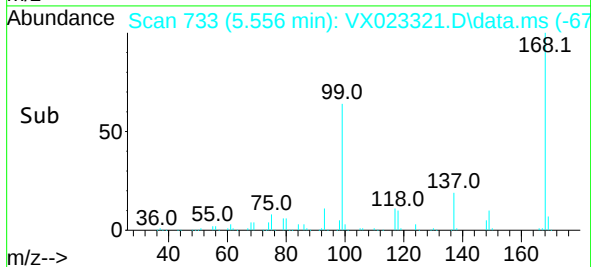
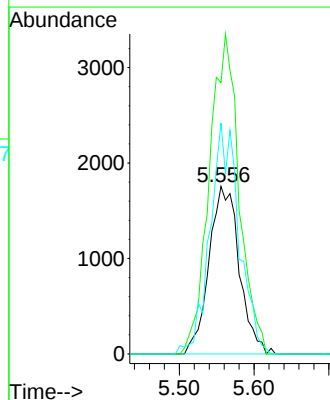
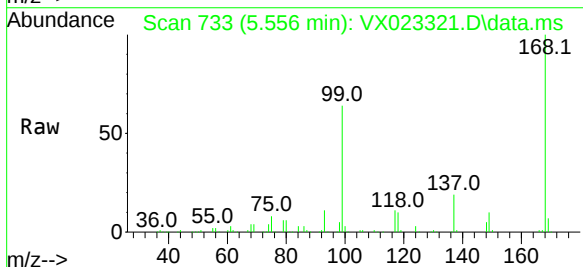
Tgt Ion: 56 Resp: 4931

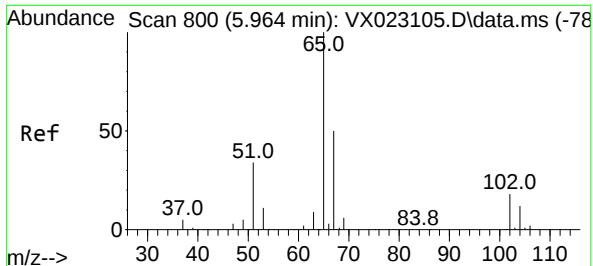
Ion Ratio Lower Upper

56 100

69 161.9 25.3 37.9#

84 137.9 71.4 107.0#

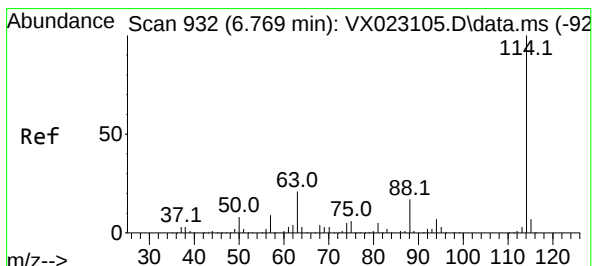
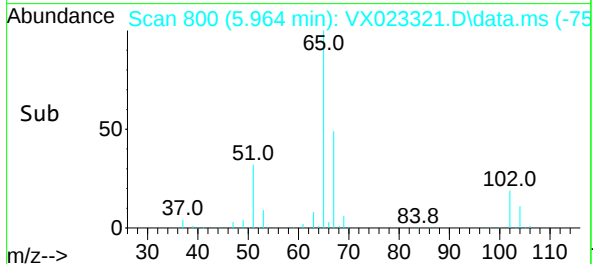
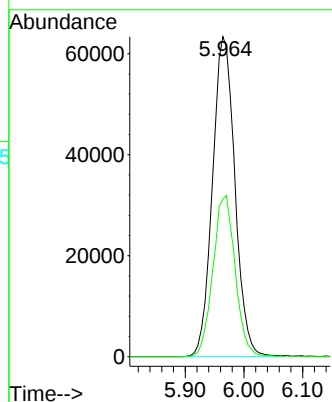
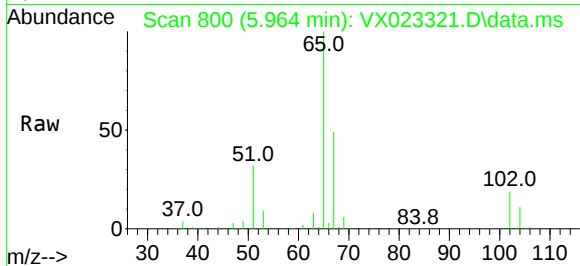




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.222 ug/l  
 RT: 5.964 min Scan# 800  
 Delta R.T. 0.000 min  
 Lab File: VX023321.D  
 Acq: 16 Jul 2021 12:44

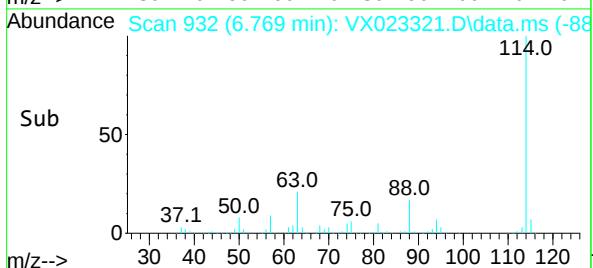
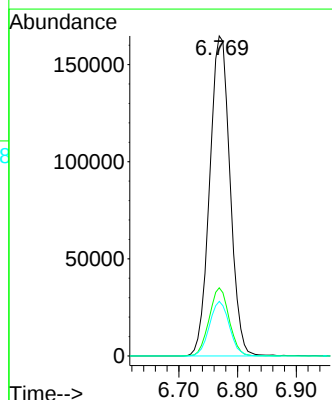
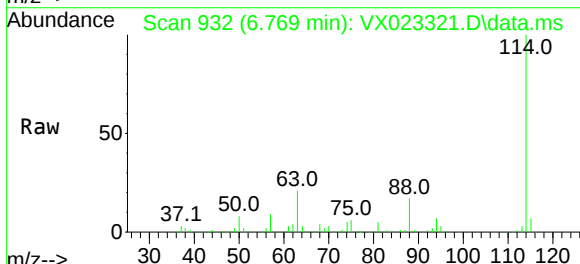
Instrument :  
 MSVOA\_X  
 ClientSampled :

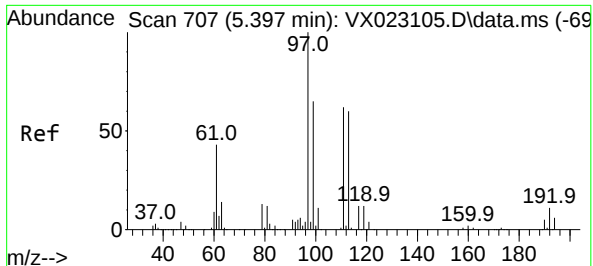
Tgt Ion: 65 Resp: 168091  
 Ion Ratio Lower Upper  
 65 100  
 67 50.0 0.0 105.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.769 min Scan# 932  
 Delta R.T. -0.000 min  
 Lab File: VX023321.D  
 Acq: 16 Jul 2021 12:44

Tgt Ion: 114 Resp: 396352  
 Ion Ratio Lower Upper  
 114 100  
 63 21.3 0.0 40.8  
 88 17.0 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.084 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX023321.D

Acq: 16 Jul 2021 12:44

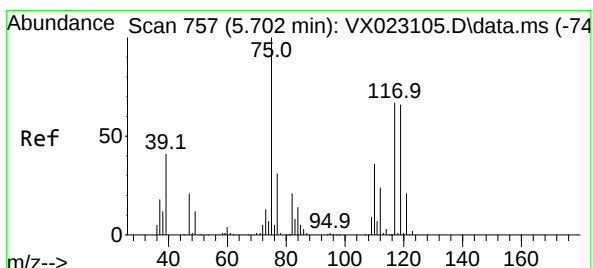
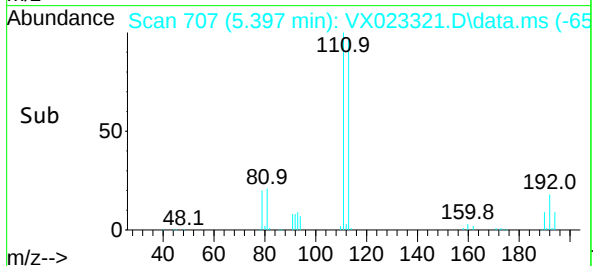
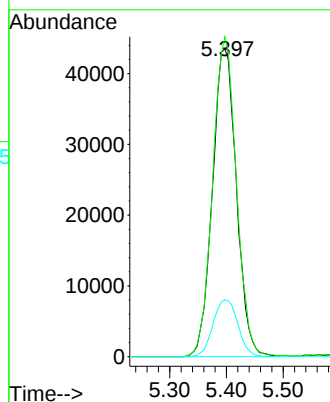
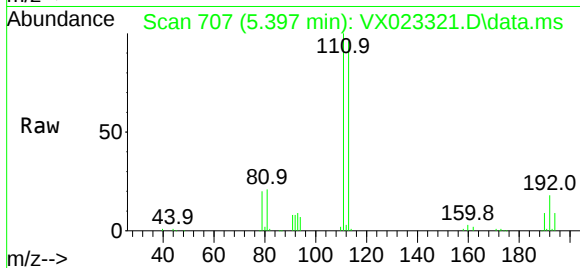
Tgt Ion:113 Resp: 128188

Ion Ratio Lower Upper

113 100

111 102.8 81.9 122.9

192 19.0 16.7 25.1



#36

1,1-Dichloropropene

Concen: 5.363 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.140 min

Lab File: VX023321.D

Acq: 16 Jul 2021 12:44

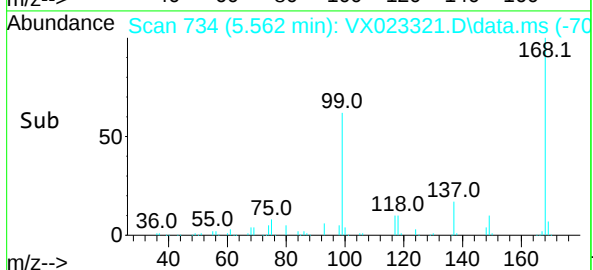
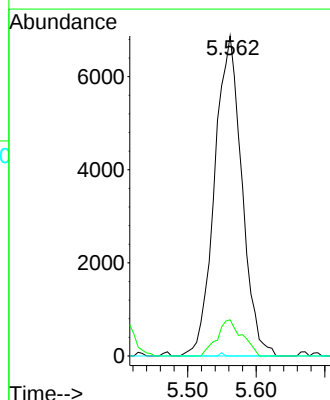
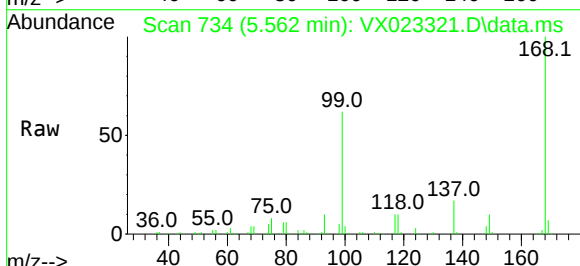
Tgt Ion: 75 Resp: 18950

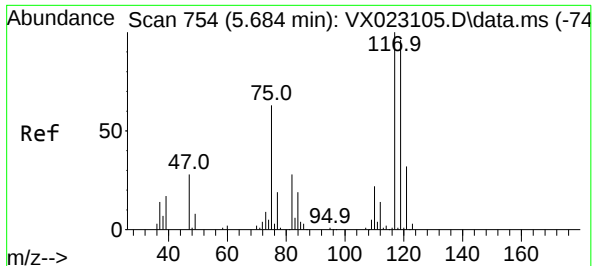
Ion Ratio Lower Upper

75 100

110 10.4 18.1 54.4#

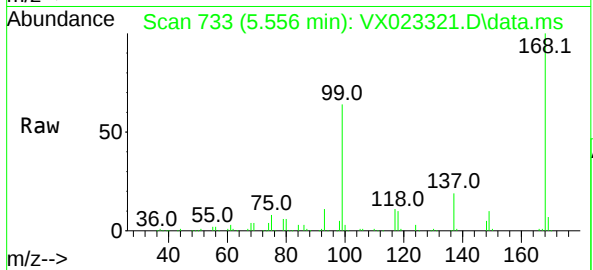
77 0.1 25.3 37.9#



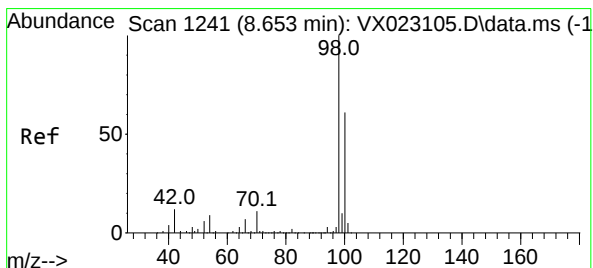
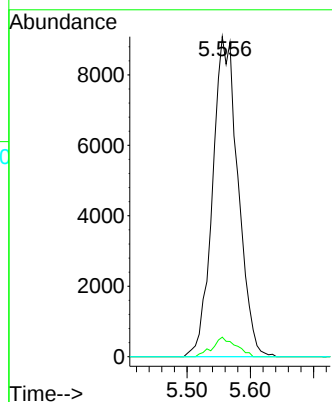
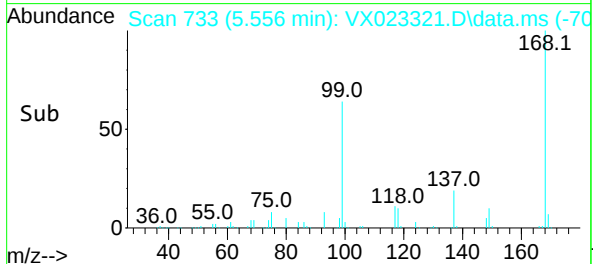


#38  
Carbon Tetrachloride  
Concen: 6.878 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.128 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

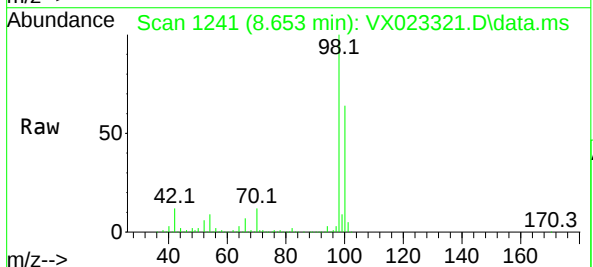
Instrument :  
MSVOA\_X  
ClientSampleId :



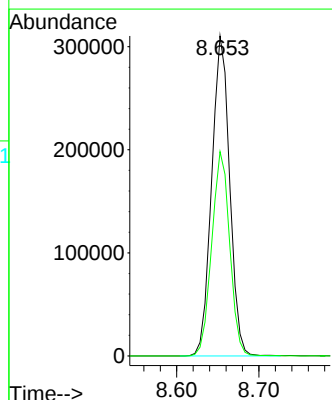
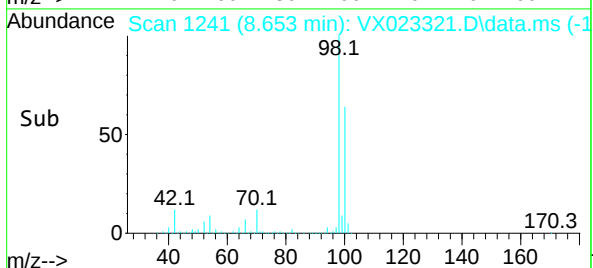
Tgt Ion:117 Resp: 25369  
Ion Ratio Lower Upper  
117 100  
119 6.1 76.2 114.2#  
121 0.0 24.8 37.2#

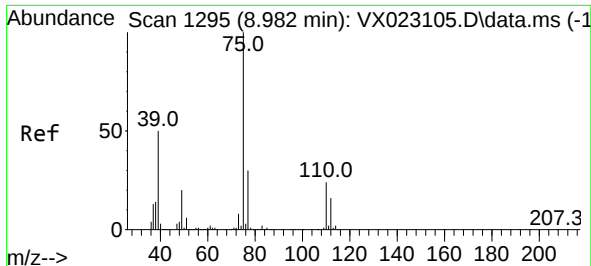


#50  
Toluene-d8  
Concen: 49.367 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44



Tgt Ion: 98 Resp: 471327  
Ion Ratio Lower Upper  
98 100  
100 63.9 51.9 77.9

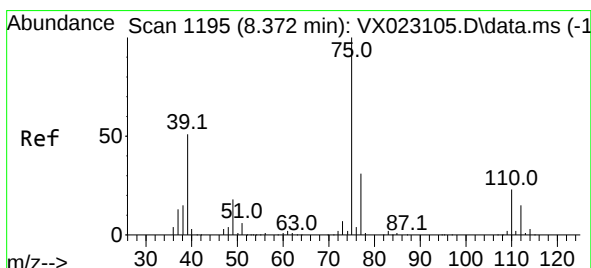
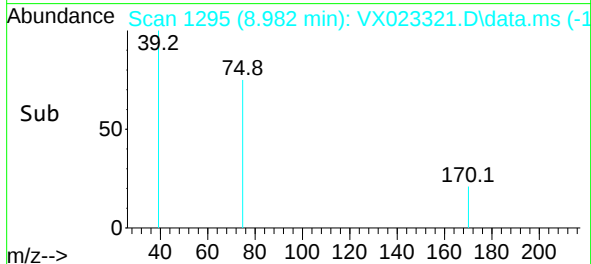
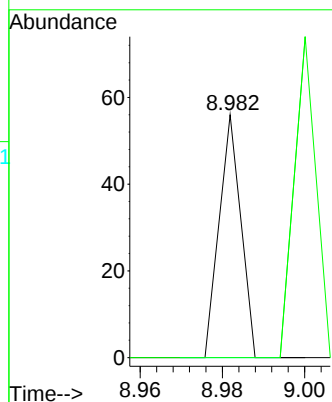
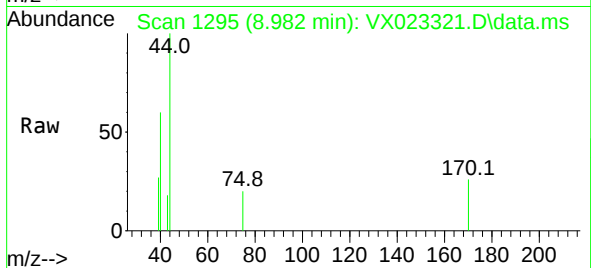




#53  
t-1,3-Dichloropropene  
Concen: 2.741 ug/l  
RT: 8.982 min Scan# 1295  
Delta R.T. -0.000 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

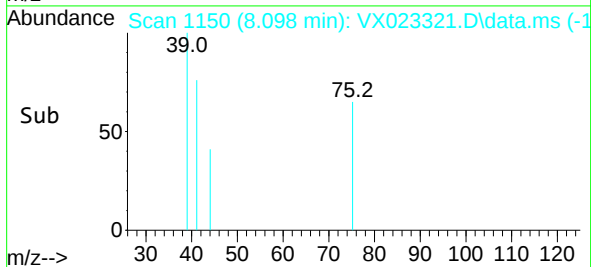
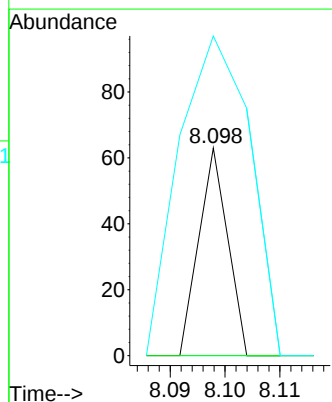
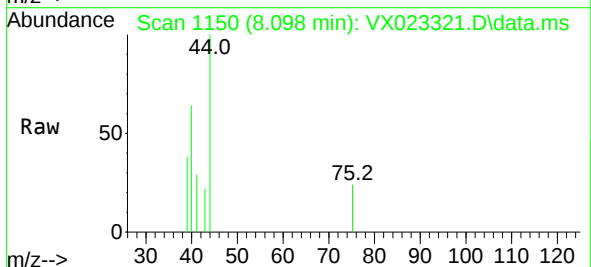
Instrument :  
MSVOA\_X  
ClientSampled :

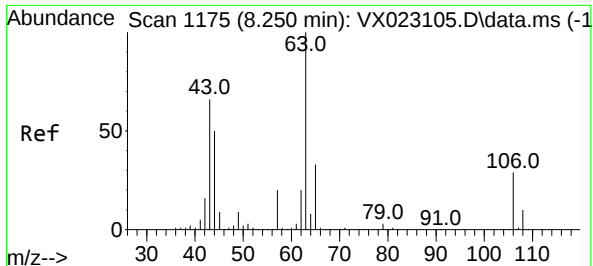
Tgt Ion: 75 Resp: 20  
Ion Ratio Lower Upper  
75 100  
77 0.0 24.9 37.3#



#54  
cis-1,3-Dichloropropene  
Concen: 2.178 ug/l  
RT: 8.098 min Scan# 1150  
Delta R.T. -0.274 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

Tgt Ion: 75 Resp: 23  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.7 38.5#  
39 154.0 35.1 52.7#

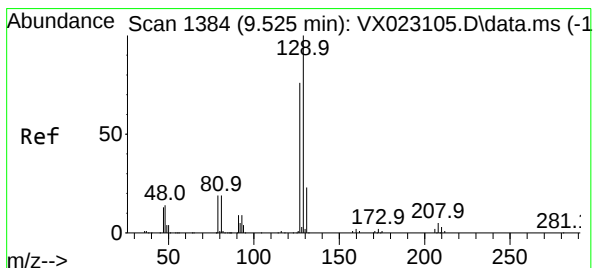
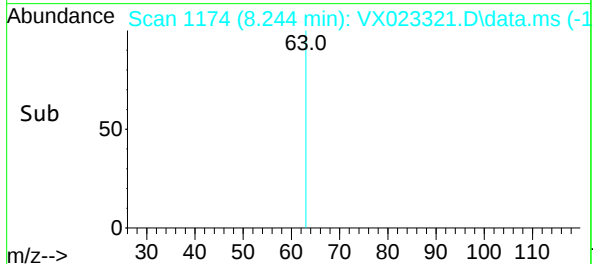
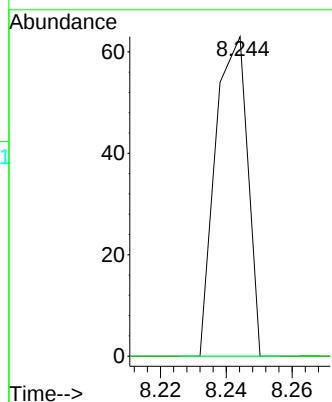
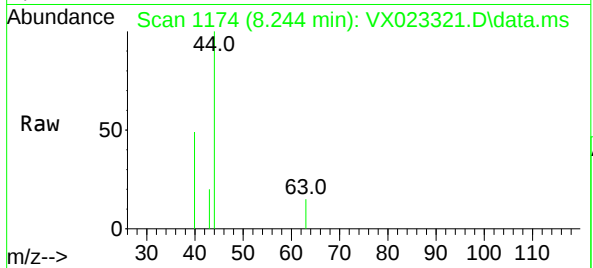




#58  
2-Chloroethyl Vinyl ether  
Concen: 4.708 ug/l  
RT: 8.244 min Scan# 1174  
Delta R.T. -0.006 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

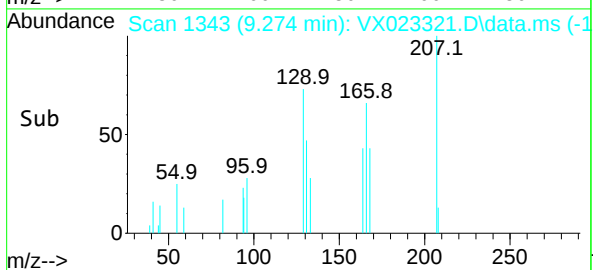
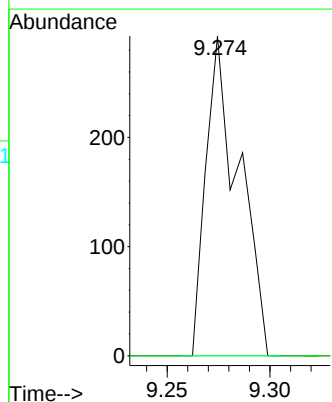
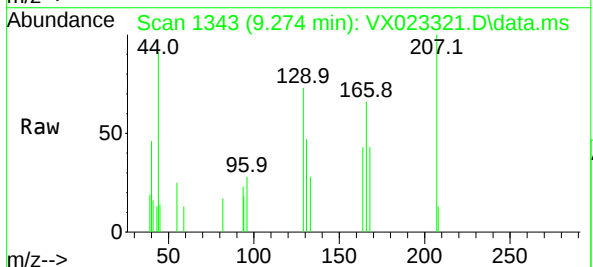
Instrument :  
MSVOA\_X  
ClientSampleId :

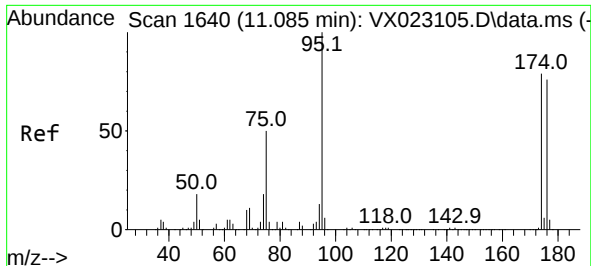
Tgt Ion: 63 Resp: 43  
Ion Ratio Lower Upper  
63 100  
106 0.0 23.5 35.3#



#60  
Dibromochloromethane  
Concen: 3.211 ug/l  
RT: 9.274 min Scan# 1343  
Delta R.T. -0.251 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

Tgt Ion: 129 Resp: 328  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#

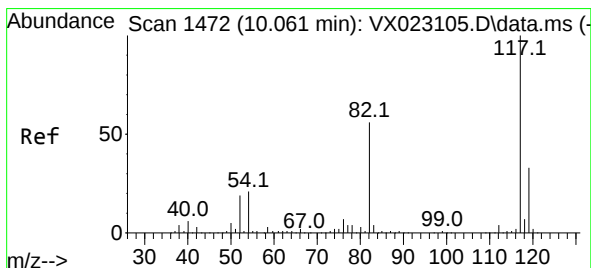
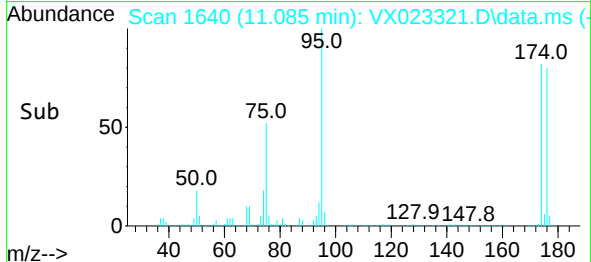
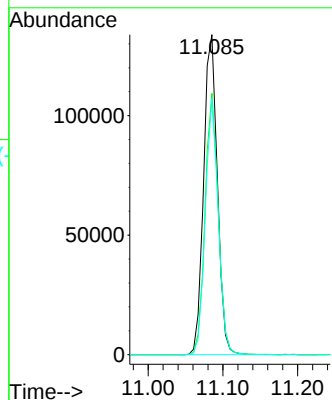
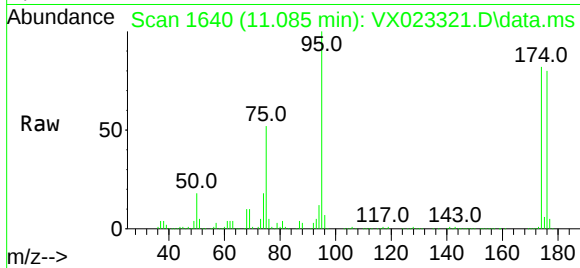




#62  
4-Bromofluorobenzene  
Concen: 46.345 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

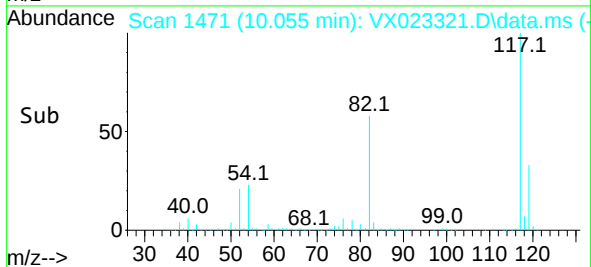
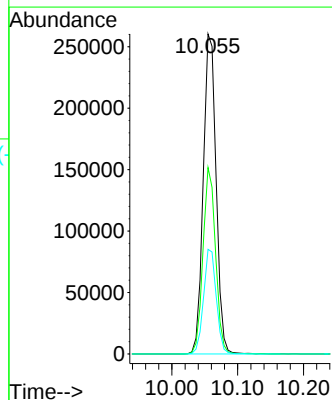
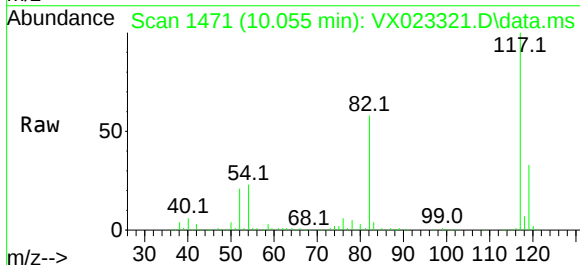
Instrument :  
MSVOA\_X  
ClientSampleId :

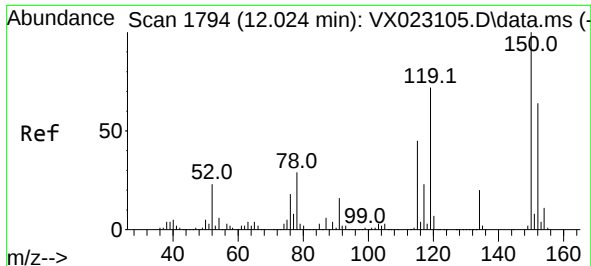
Tgt Ion: 95 Resp: 170820  
Ion Ratio Lower Upper  
95 100  
174 78.8 0.0 154.6  
176 75.5 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

Tgt Ion: 117 Resp: 353709  
Ion Ratio Lower Upper  
117 100  
82 58.2 47.4 71.2  
119 32.7 26.6 39.8

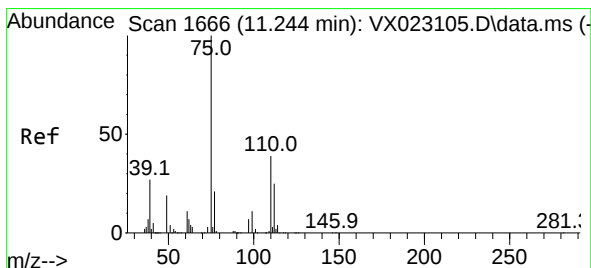
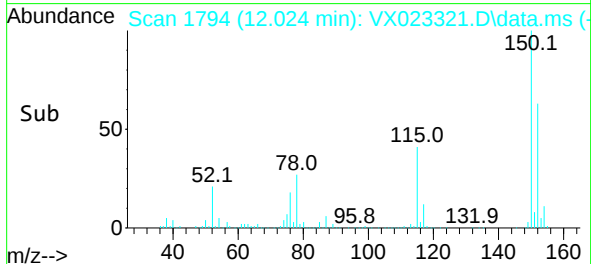
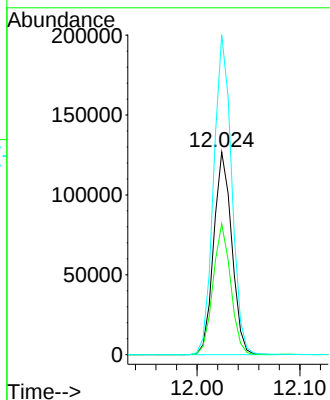
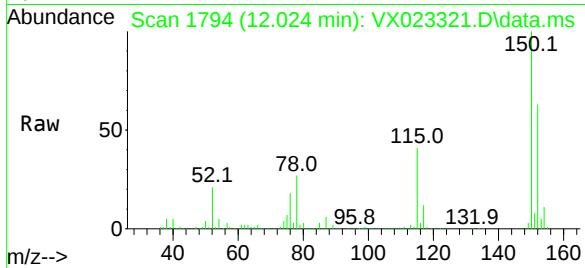




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

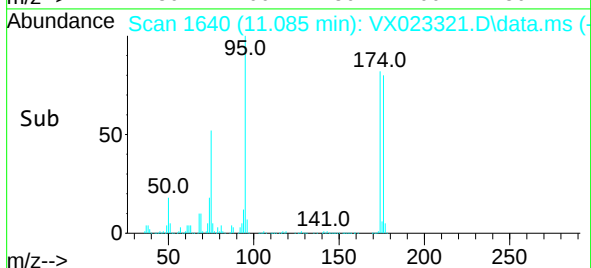
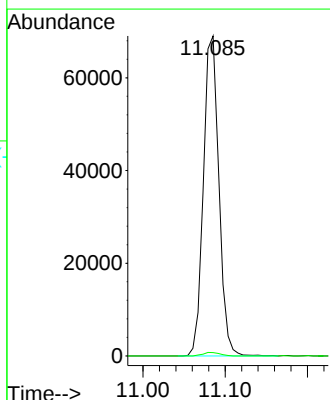
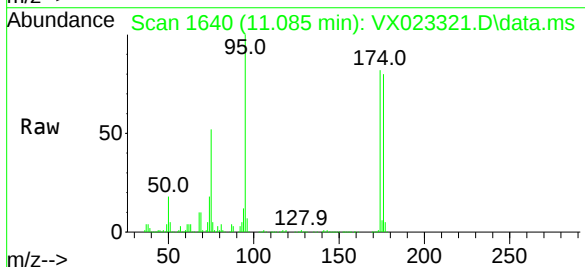
Instrument :  
MSVOA\_X  
ClientSampled :

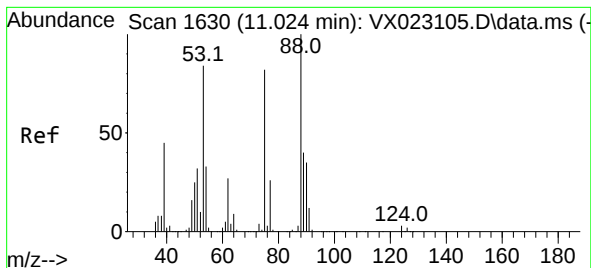
Tgt Ion:152 Resp: 154473  
Ion Ratio Lower Upper  
152 100  
115 62.7 41.1 123.3  
150 157.2 0.0 349.0



#76  
1,2,3-Trichloropropane  
Concen: 29.072 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

Tgt Ion: 75 Resp: 90371  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.1 57.5#

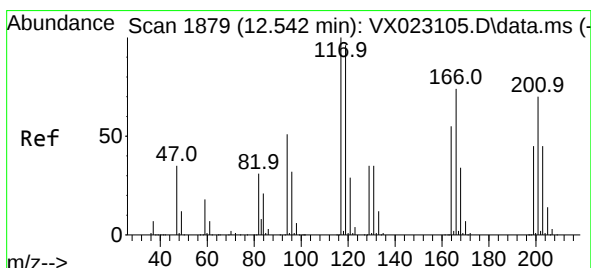
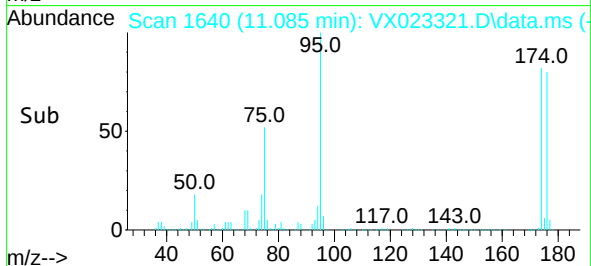
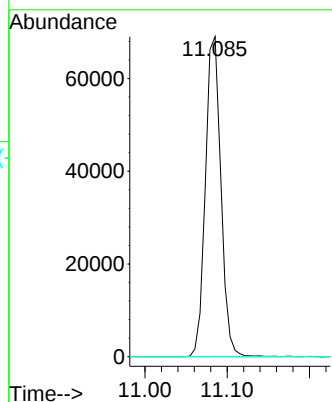
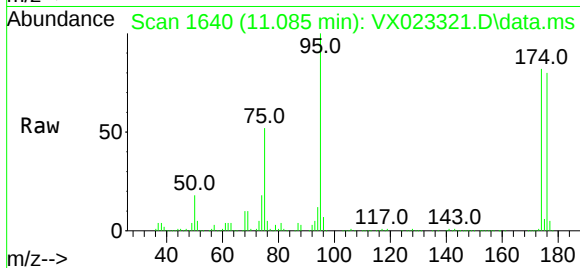




#81  
trans-1,4-Dichloro-2-butene  
Concen: 78.206 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

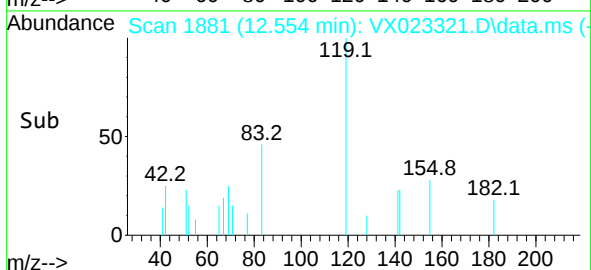
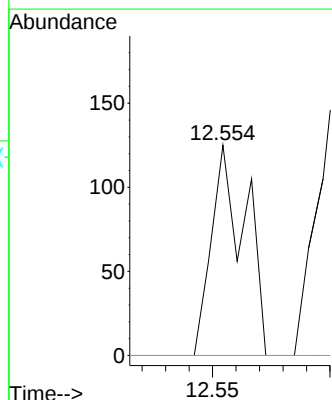
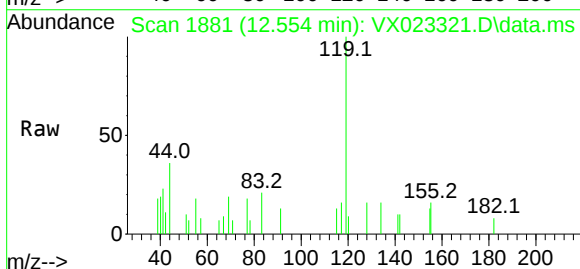
Instrument :  
MSVOA\_X  
ClientSampleId :

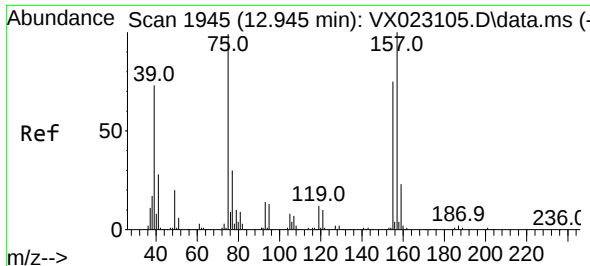
Tgt Ion: 75 Resp: 90371  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#



#90  
Hexachloroethane  
Concen: 3.067 ug/l  
RT: 12.554 min Scan# 1881  
Delta R.T. 0.012 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

Tgt Ion: 117 Resp: 125  
Ion Ratio Lower Upper  
117 100  
201 0.0 40.4 121.2#

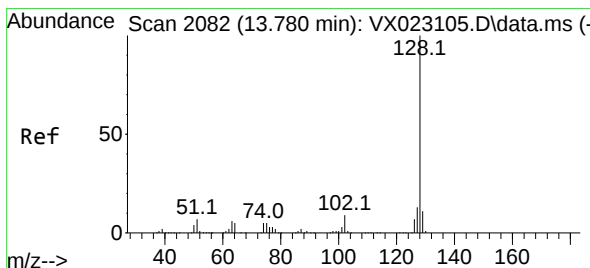
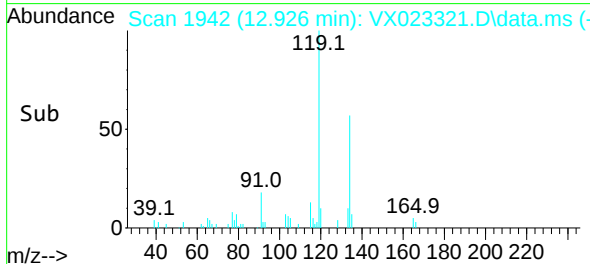
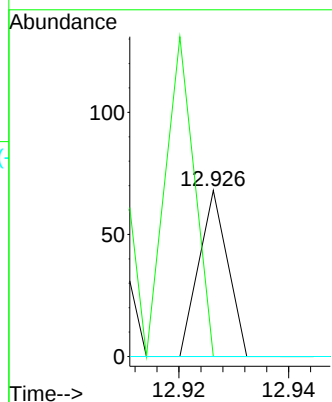
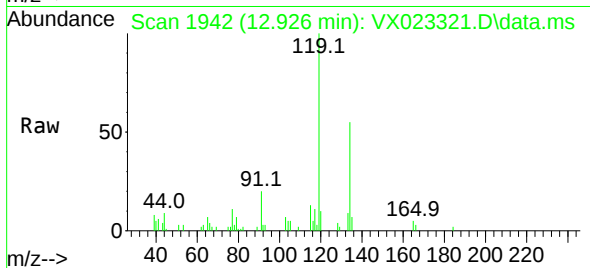




#92  
1,2-Dibromo-3-Chloropropane  
Concen: 2.598 ug/l  
RT: 12.926 min Scan# 1942  
Delta R.T. -0.019 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 75 Resp: 25  
Ion Ratio Lower Upper  
75 100  
155 0.0 45.3 135.9#  
157 0.0 57.7 173.1#



#95  
Naphthalene  
Concen: 1.326 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. -0.000 min  
Lab File: VX023321.D  
Acq: 16 Jul 2021 12:44

Tgt Ion: 128 Resp: 602  
Ion Ratio Lower Upper  
128 100  
127 5.1 10.3 15.5#  
129 61.0 8.8 13.2#

