

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX072621\  
 Data File : VX023449.D  
 Acq On : 26 Jul 2021 14:27  
 Operator : JC/MD  
 Sample : M3145-20DL 5X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jul 27 03:27:33 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

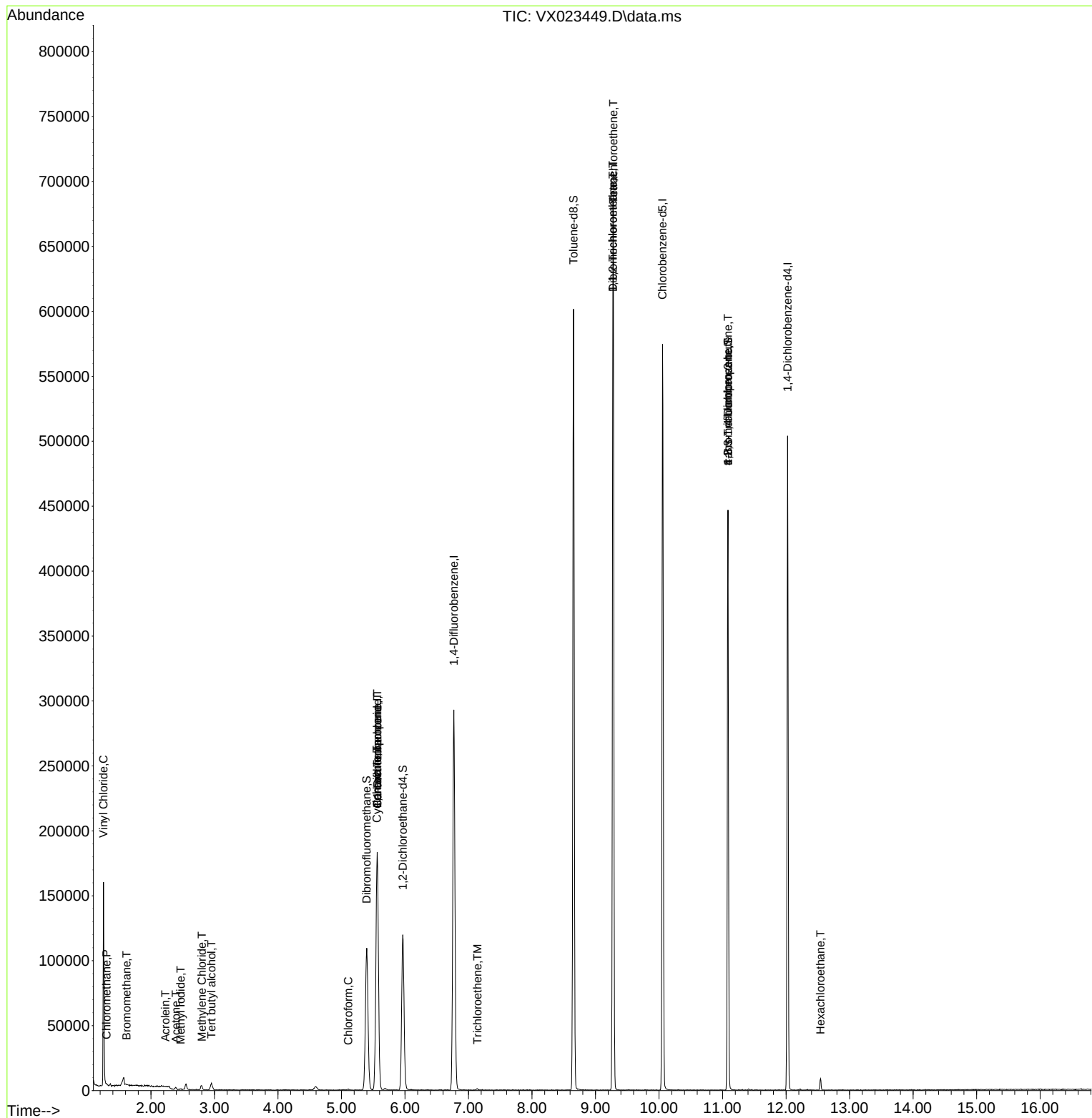
| Compound                      | R.T.           | QIon | Response           | Conc  | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|-------|--------|----------|
| -----                         |                |      |                    |       |        |          |
| Internal Standards            |                |      |                    |       |        |          |
| 1) Pentafluorobenzene         | 5.562          | 168  | 174414             | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 294940             | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 259374             | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 101360             | 50.00 | ug/l   | 0.00     |
|                               |                |      |                    |       |        |          |
| System Monitoring Compounds   |                |      |                    |       |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964          | 65   | 112799             | 51.85 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 103.70% |       |        |          |
| 35) Dibromofluoromethane      | 5.397          | 113  | 93363              | 50.63 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 101.26% |       |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 349358             | 51.56 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 103.12% |       |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 112114             | 48.66 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 97.32%  |       |        |          |
|                               |                |      |                    |       |        |          |
| Target Compounds              |                |      |                    |       | Qvalue |          |
| 3) Chloromethane              | 1.301          | 50   | 560                | 0.30  | ug/l # | 86       |
| 4) Vinyl Chloride             | 1.252          | 62   | 1225               | 0.65  | ug/l # | 1        |
| 5) Bromomethane               | 1.618          | 94   | 842                | 0.75  | ug/l # | 58       |
| 10) Methyl Iodide             | 2.465          | 142  | 792                | 0.37  | ug/l # | 90       |
| 11) Tert butyl alcohol        | 2.953          | 59   | 2923               | 5.88  | ug/l # | 73       |
| 13) Acrolein                  | 2.227          | 56   | 132                | 1.88  | ug/l # | 14       |
| 16) Acetone                   | 2.392          | 43   | 1648               | 1.54  | ug/l # | 71       |
| 20) Methylene Chloride        | 2.800          | 84   | 1603               | 0.77  | ug/l # | 92       |
| 30) Chloroform                | 5.105          | 83   | 796                | 0.23  | ug/l # | 81       |
| 31) Cyclohexane               | 5.556          | 56   | 3800               | 1.18  | ug/l # | 7        |
| 36) 1,1-Dichloropropene       | 5.562          | 75   | 13221              | 4.96  | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.562          | 117  | 17604              | 6.49  | ug/l # | 16       |
| 44) Trichloroethene           | 7.141          | 130  | 478                | 0.22  | ug/l   | 49       |
| 55) 1,1,2-Trichloroethane     | 9.275          | 97   | 1192               | 0.60  | ug/l # | 15       |
| 60) Dibromochloromethane      | 9.275          | 129  | 121946             | 55.22 | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.281          | 164  | 128248             | 62.13 | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 57392              | 25.73 | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 57392              | 69.19 | ug/l # | 12       |
| 90) Hexachloroethane          | 12.543         | 117  | 1014               | 2.75  | ug/l   | 86       |
| -----                         |                |      |                    |       |        |          |

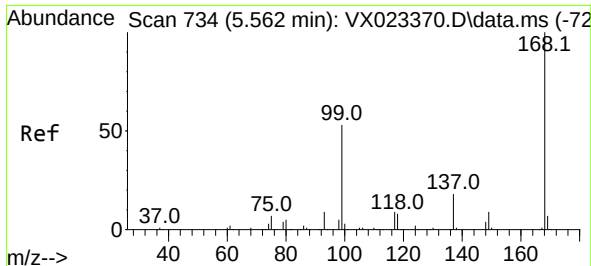
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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ClientSampleId :

Quant Time: Jul 27 03:27:33 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

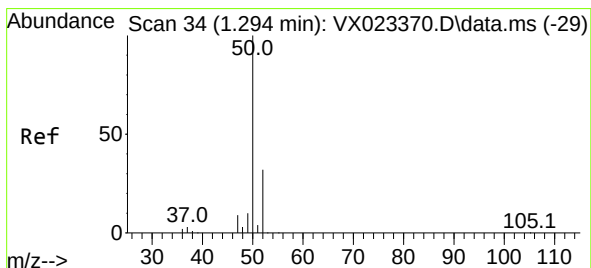
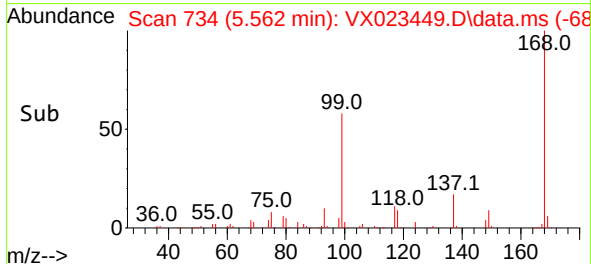
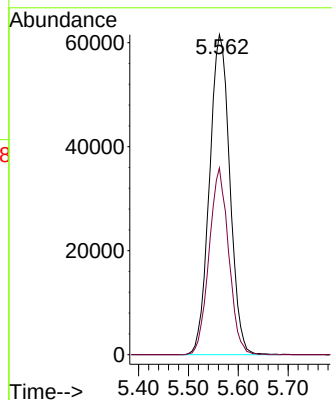
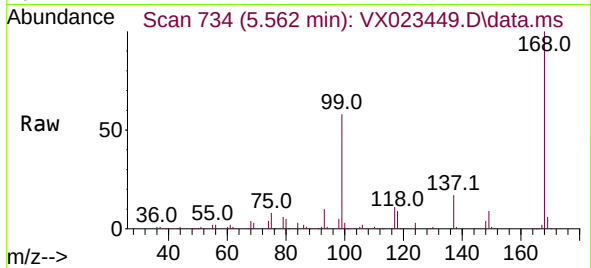




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.000 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

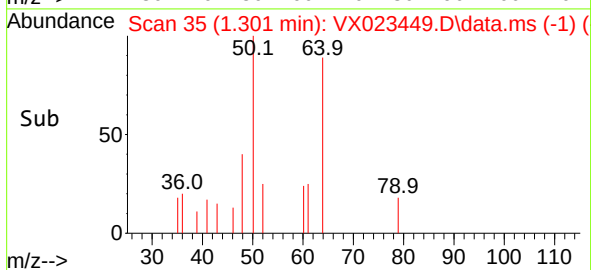
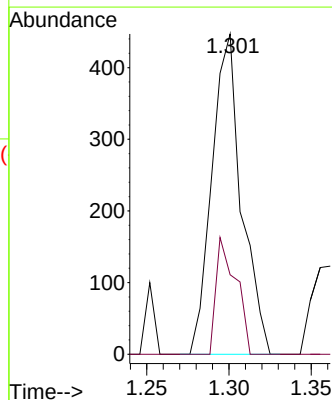
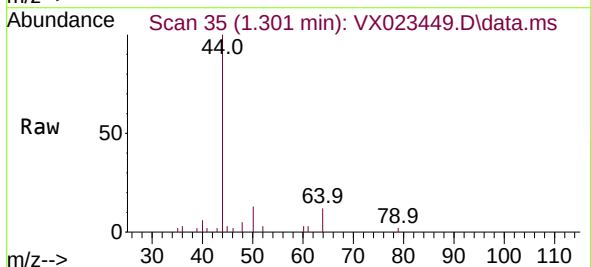
Instrument :  
MSVOA\_X  
ClientSampleId :

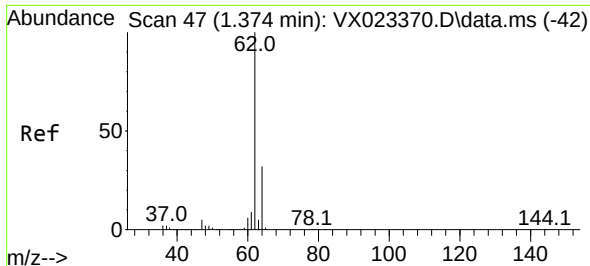
Tgt Ion:168 Resp: 174414  
Ion Ratio Lower Upper  
168 100  
99 58.3 45.8 68.6



#3  
Chloromethane  
Concen: 0.30 ug/l  
RT: 1.301 min Scan# 35  
Delta R.T. 0.007 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

Tgt Ion: 50 Resp: 560  
Ion Ratio Lower Upper  
50 100  
52 24.8 26.4 39.6#

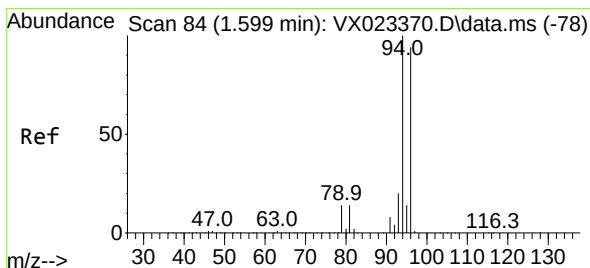
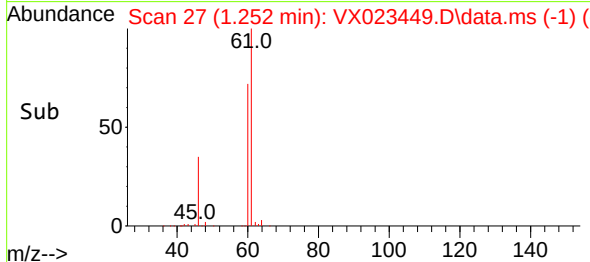
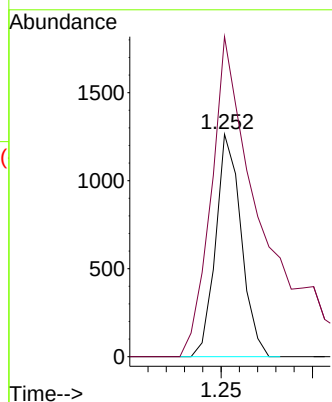
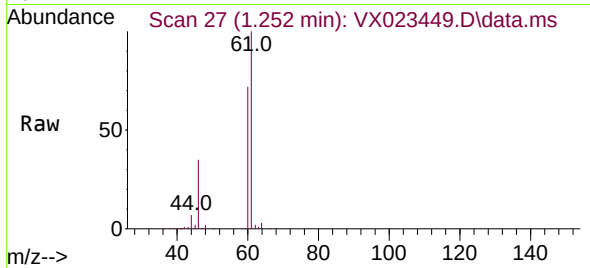




#4  
 Vinyl Chloride  
 Concen: 0.65 ug/l  
 RT: 1.252 min Scan# 27  
 Delta R.T. -0.122 min  
 Lab File: VX023449.D  
 Acq: 26 Jul 2021 14:27

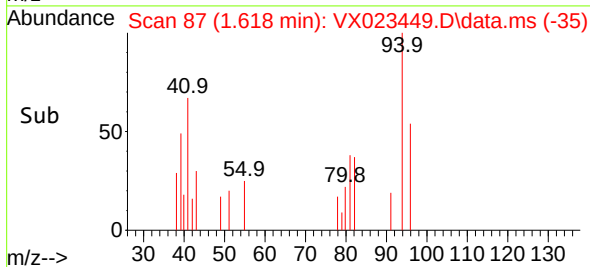
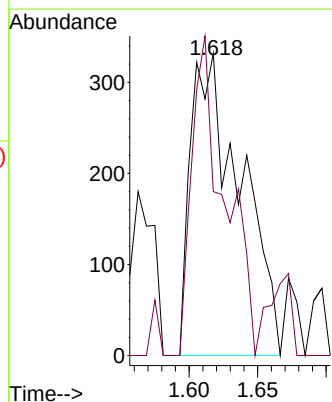
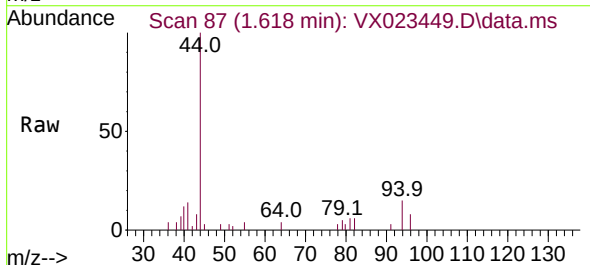
Instrument :  
 MSVOA\_X  
 ClientSampled :

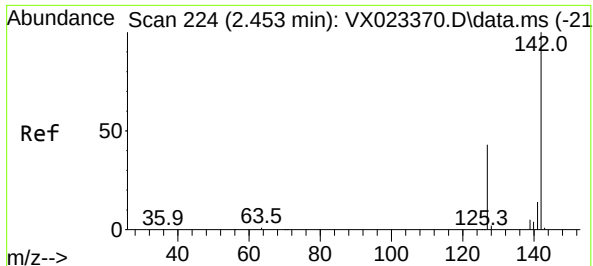
Tgt Ion: 62 Resp: 1225  
 Ion Ratio Lower Upper  
 62 100  
 64 143.9 25.7 38.5#



#5  
 Bromomethane  
 Concen: 0.75 ug/l  
 RT: 1.618 min Scan# 87  
 Delta R.T. 0.019 min  
 Lab File: VX023449.D  
 Acq: 26 Jul 2021 14:27

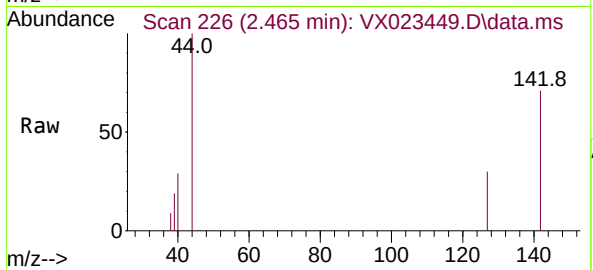
Tgt Ion: 94 Resp: 842  
 Ion Ratio Lower Upper  
 94 100  
 96 54.2 76.4 114.6#



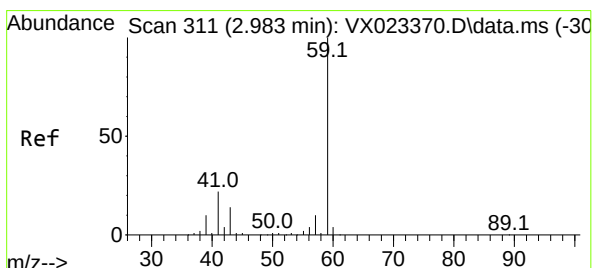
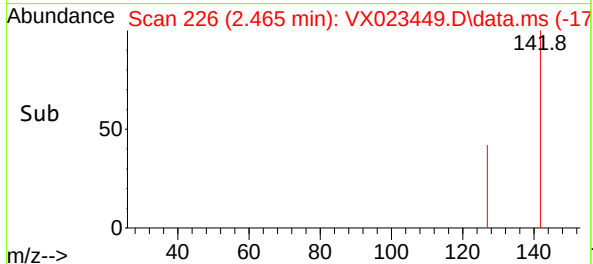
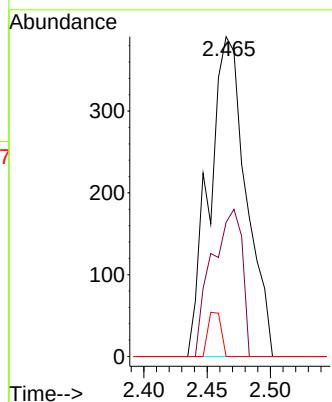


#10  
Methyl Iodide  
Concen: 0.37 ug/l  
RT: 2.465 min Scan# 226  
Delta R.T. 0.012 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

Instrument :  
MSVOA\_X  
ClientSampled :

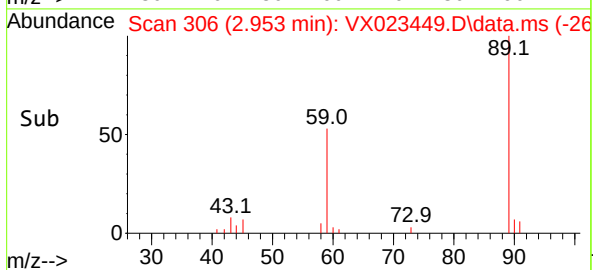
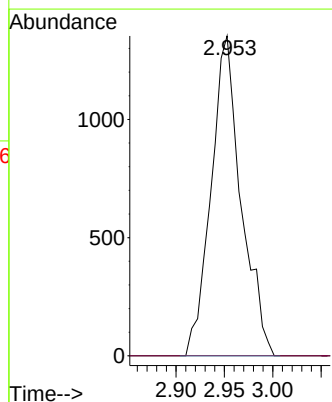
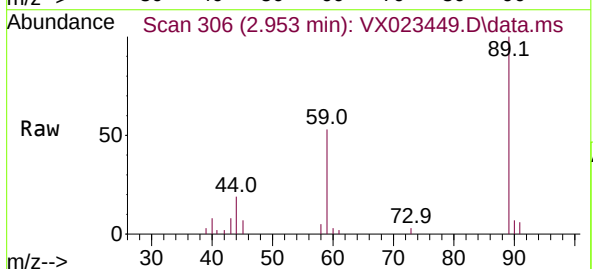


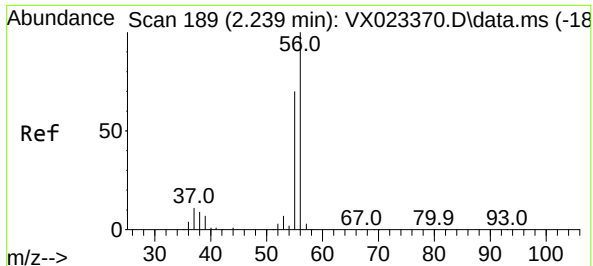
Tgt Ion:142 Resp: 792  
Ion Ratio Lower Upper  
142 100  
127 37.9 33.3 49.9  
141 4.9 11.4 17.0#



#11  
Tert butyl alcohol  
Concen: 5.88 ug/l  
RT: 2.953 min Scan# 306  
Delta R.T. -0.030 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

Tgt Ion: 59 Resp: 2923  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#





#13

Acrolein

Concen: 1.88 ug/l

RT: 2.227 min Scan# 187

Delta R.T. -0.012 min

Lab File: VX023449.D

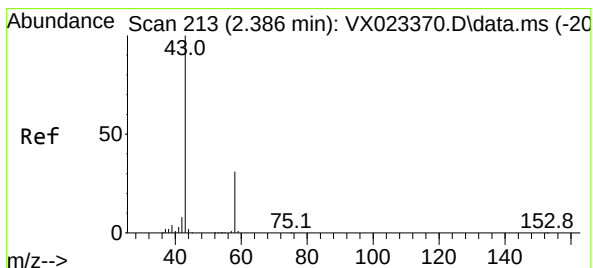
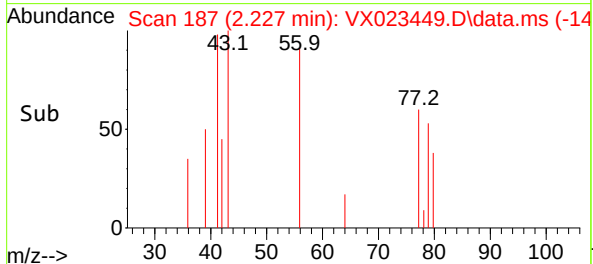
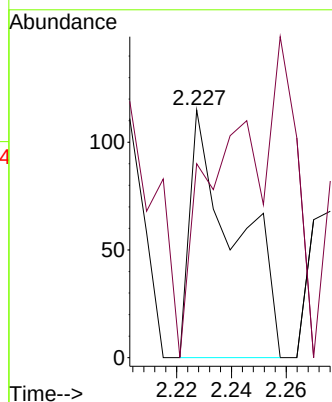
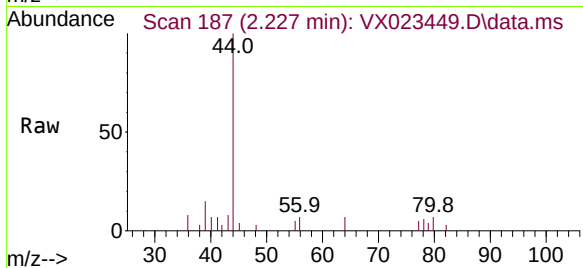
Acq: 26 Jul 2021 14:27

Tgt Ion: 56 Resp: 132

Ion Ratio Lower Upper

56 100

55 0.0 56.4 84.6#



#16

Acetone

Concen: 1.54 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.006 min

Lab File: VX023449.D

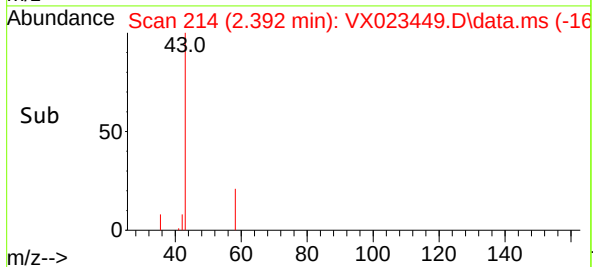
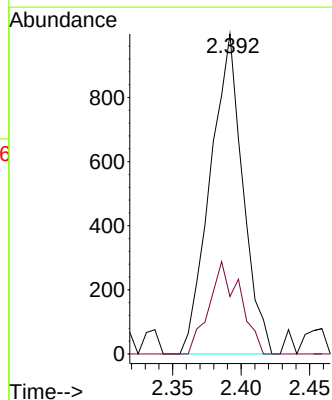
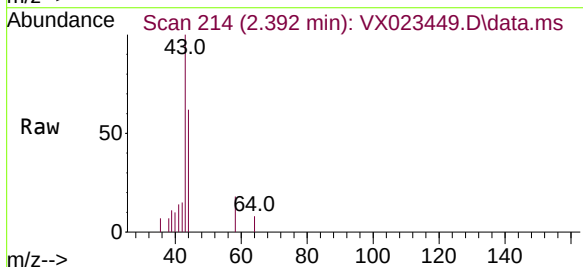
Acq: 26 Jul 2021 14:27

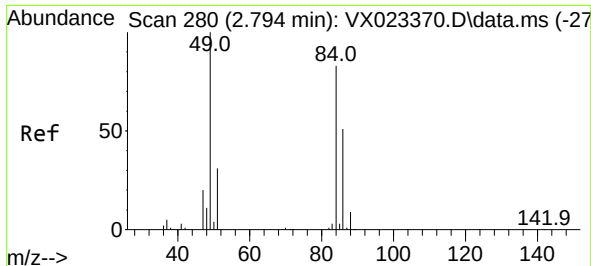
Tgt Ion: 43 Resp: 1648

Ion Ratio Lower Upper

43 100

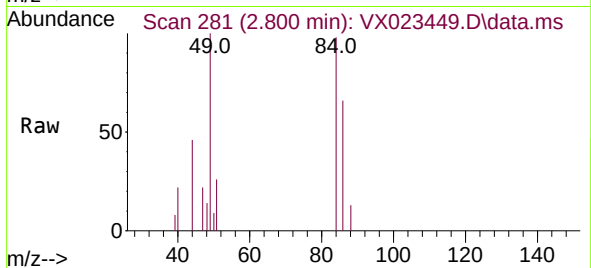
58 17.9 27.8 41.8#



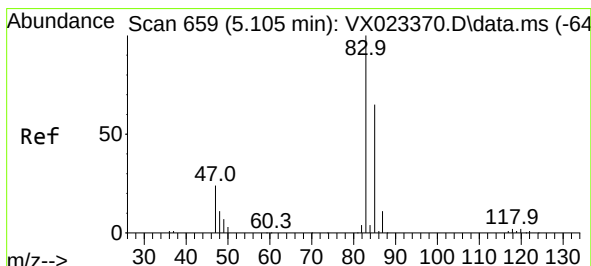
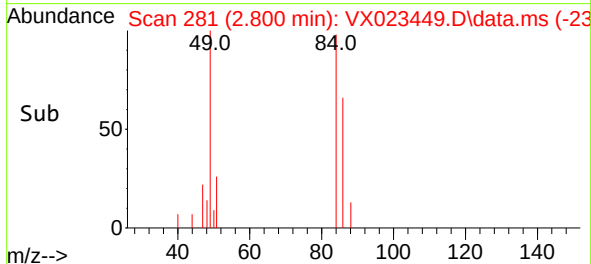
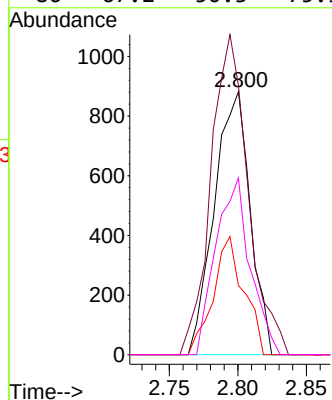


#20  
Methylene Chloride  
Concen: 0.77 ug/l  
RT: 2.800 min Scan# 281  
Delta R.T. 0.006 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

Instrument :  
MSVOA\_X  
ClientSampleId :

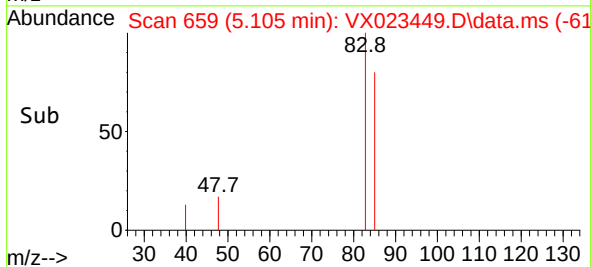
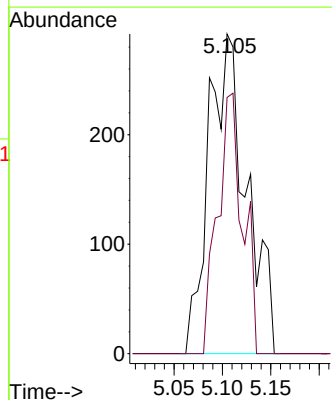
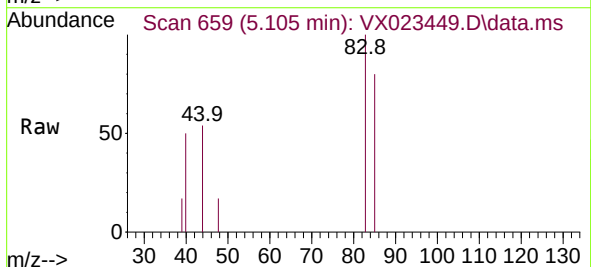


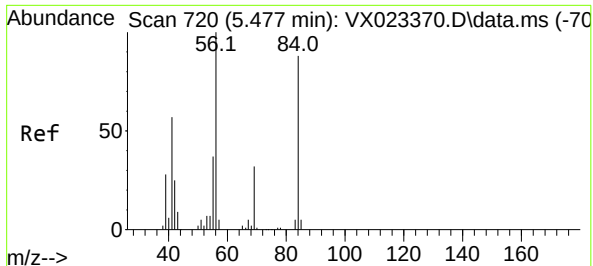
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 1603  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 102.4 | 88.6  | 132.8 |
| 51       | 26.3  | 27.0  | 40.6# |
| 86       | 67.2  | 50.3  | 75.5  |



#30  
Chloroform  
Concen: 0.23 ug/l  
RT: 5.105 min Scan# 659  
Delta R.T. -0.000 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 796   |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 80.1  | 52.0  | 78.0# |

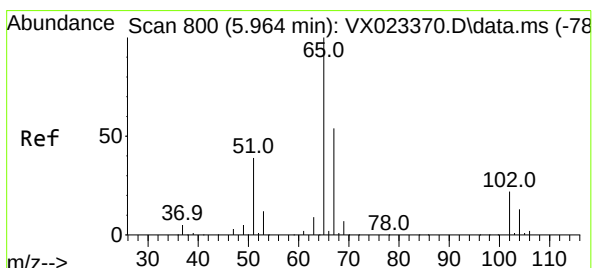
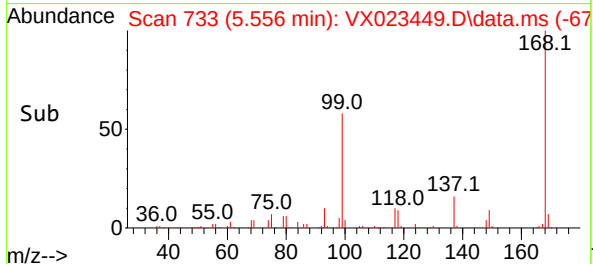
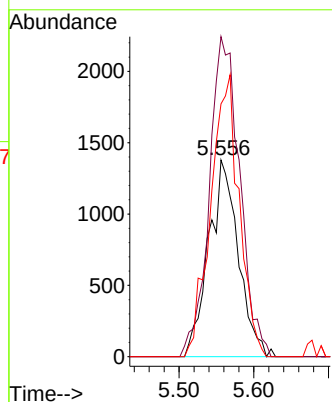
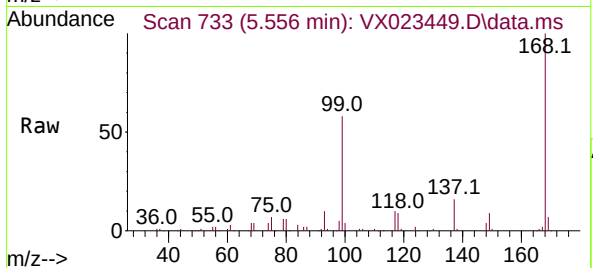




#31  
Cyclohexane  
Concen: 1.18 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. 0.079 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

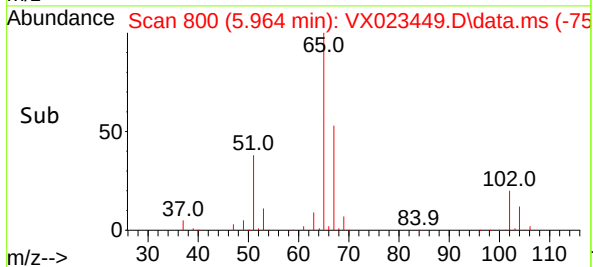
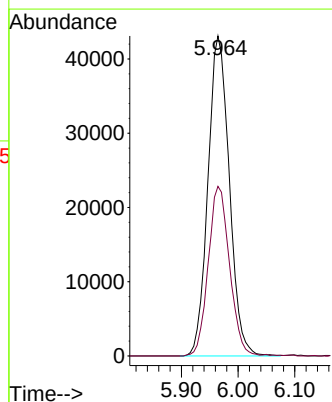
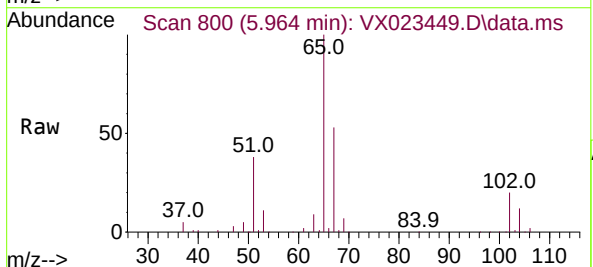
Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 56 Resp: 3800  
Ion Ratio Lower Upper  
56 100  
69 162.8 25.3 37.9#  
84 128.6 71.4 107.0#

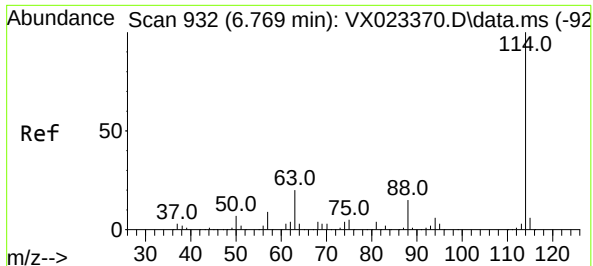


#33  
1,2-Dichloroethane-d4  
Concen: 51.85 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.000 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

Tgt Ion: 65 Resp: 112799  
Ion Ratio Lower Upper  
65 100  
67 52.8 0.0 105.4



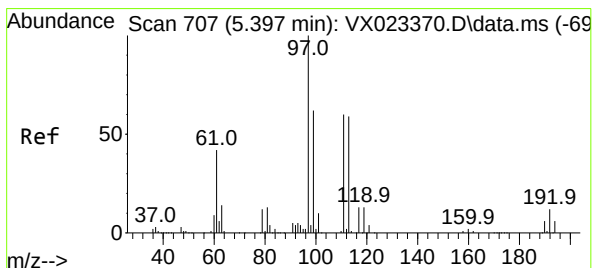
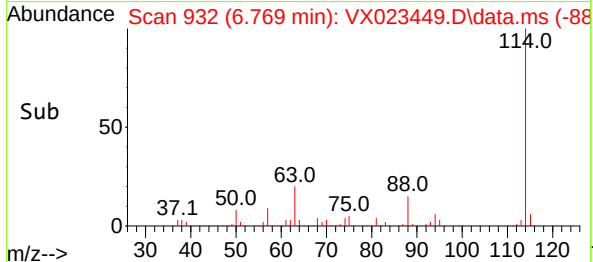
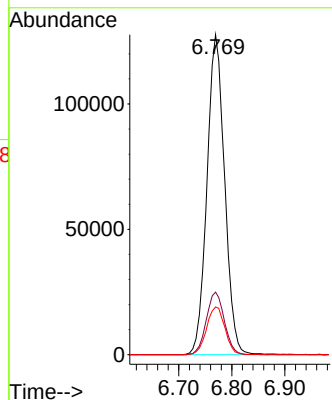
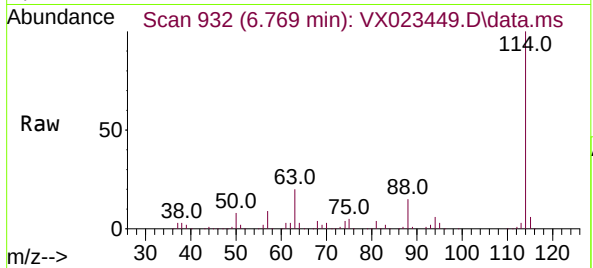




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. 0.000 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

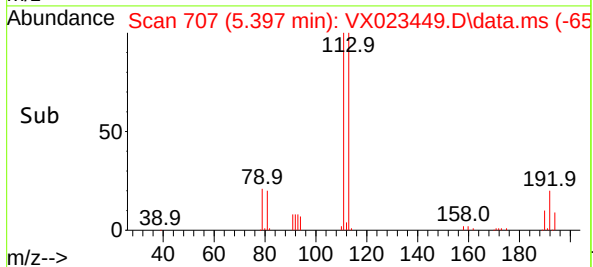
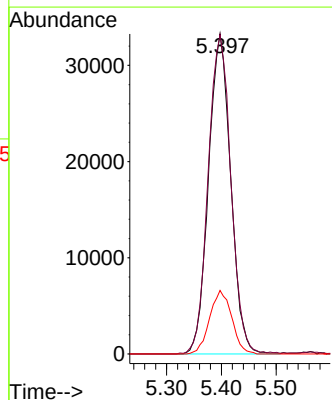
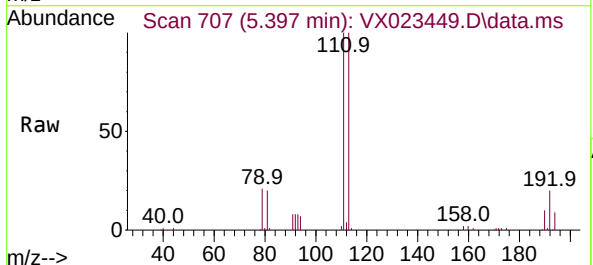
Instrument :  
MSVOA\_X  
ClientSampleId :

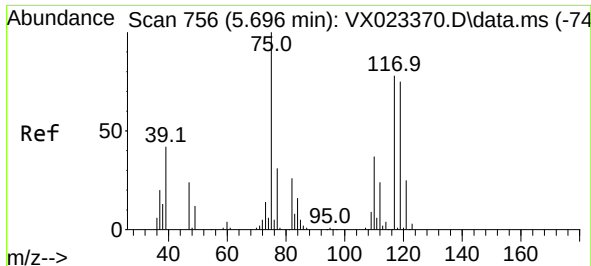
Tgt Ion:114 Resp: 294940  
Ion Ratio Lower Upper  
114 100  
63 19.6 0.0 40.8  
88 14.9 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 50.63 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

Tgt Ion:113 Resp: 93363  
Ion Ratio Lower Upper  
113 100  
111 102.5 81.9 122.9  
192 19.8 16.7 25.1

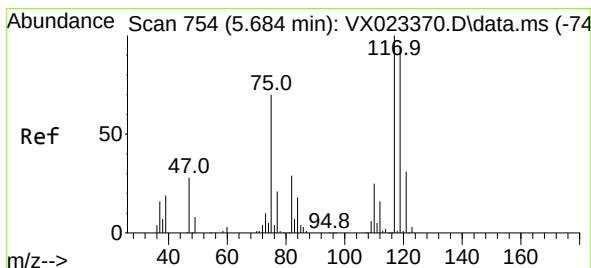
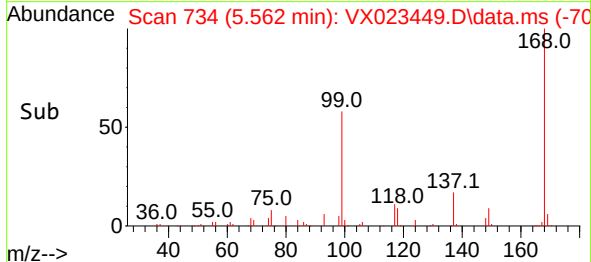
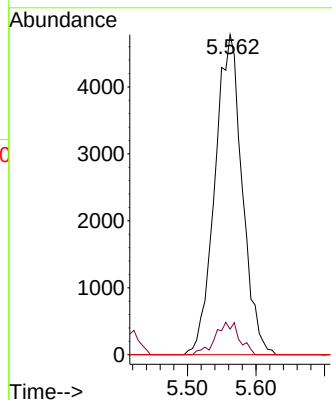
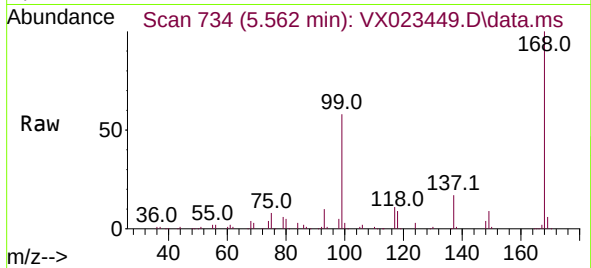




#36  
1,1-Dichloropropene  
Concen: 4.96 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.134 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

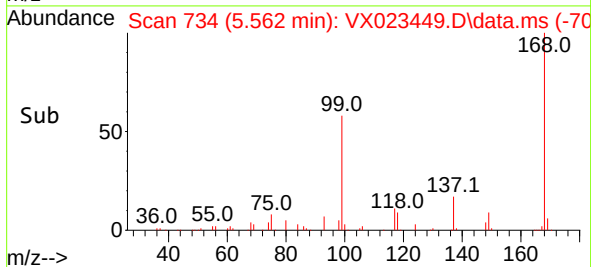
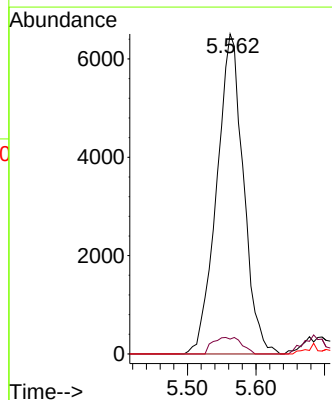
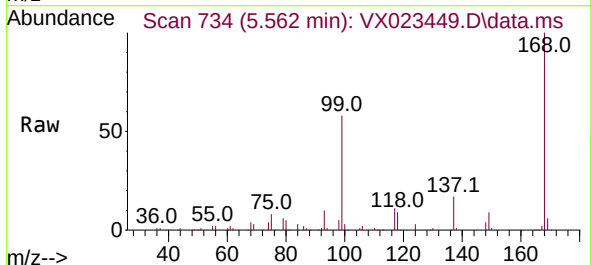
Instrument :  
MSVOA\_X  
ClientSampled :

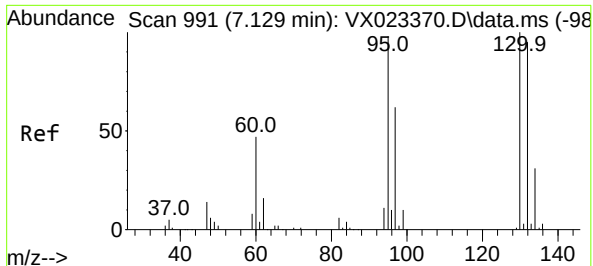
Tgt Ion: 75 Resp: 13221  
Ion Ratio Lower Upper  
75 100  
110 8.9 18.1 54.4#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 6.49 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.122 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

Tgt Ion:117 Resp: 17604  
Ion Ratio Lower Upper  
117 100  
119 4.6 76.2 114.2#  
121 0.0 24.8 37.2#

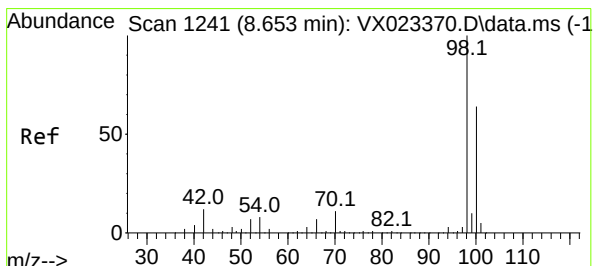
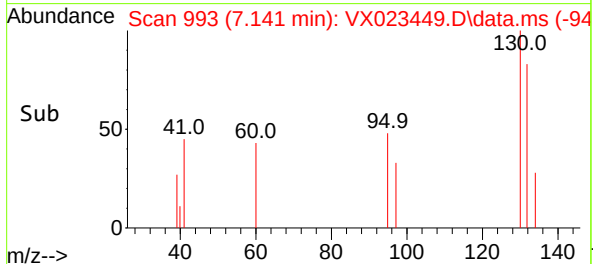
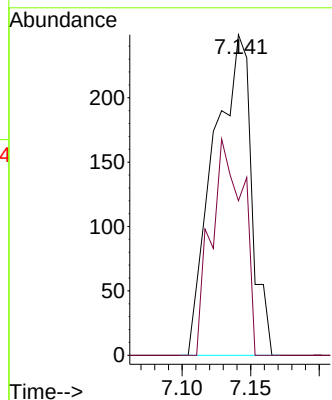
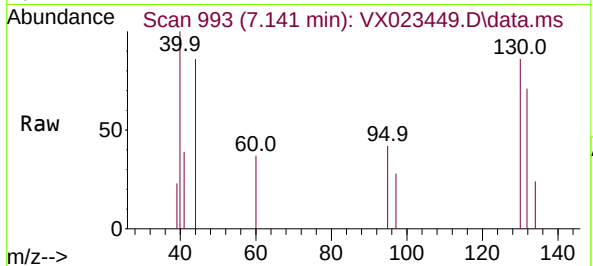




#44  
Trichloroethene  
Concen: 0.22 ug/l  
RT: 7.141 min Scan# 993  
Delta R.T. 0.012 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

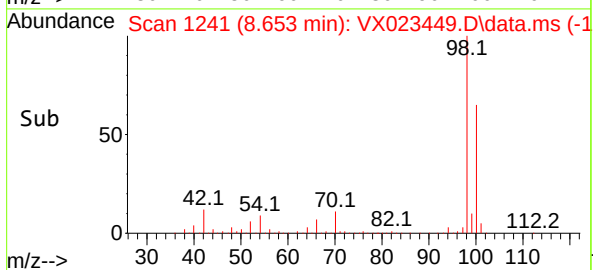
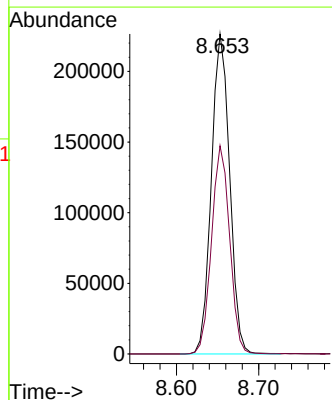
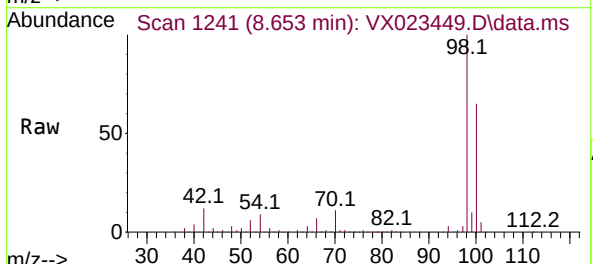
Instrument :  
MSVOA\_X  
ClientSampleId :

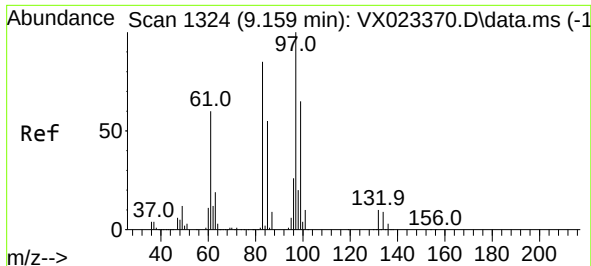
Tgt Ion:130 Resp: 478  
Ion Ratio Lower Upper  
130 100  
95 48.2 0.0 198.0



#50  
Toluene-d8  
Concen: 51.56 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

Tgt Ion: 98 Resp: 349358  
Ion Ratio Lower Upper  
98 100  
100 64.6 51.9 77.9

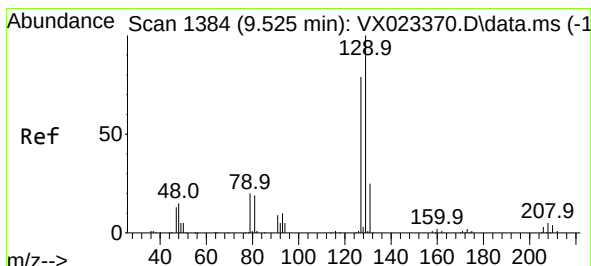
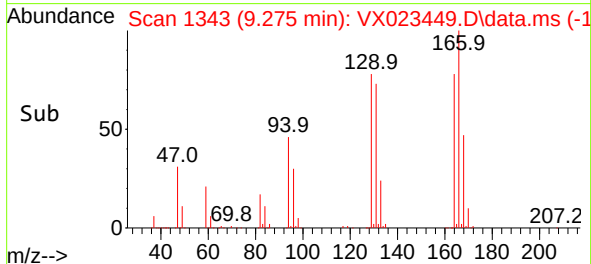
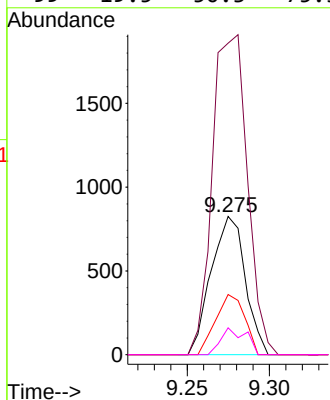
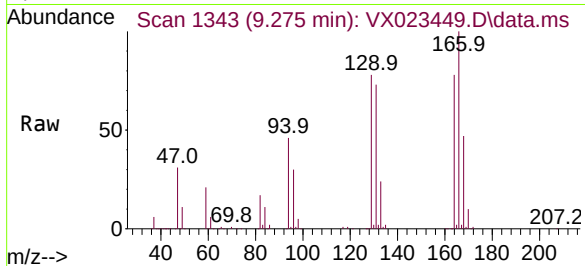




#55  
1,1,2-Trichloroethane  
Concen: 0.60 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. 0.116 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

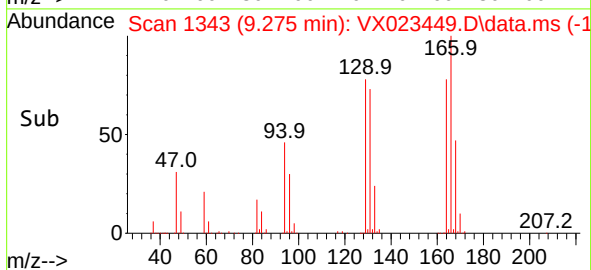
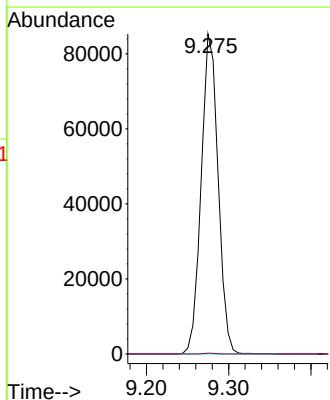
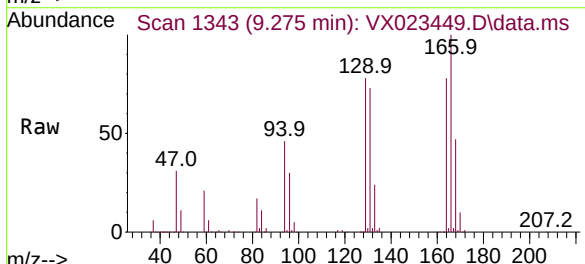
Instrument :  
MSVOA\_X  
ClientSampleId :

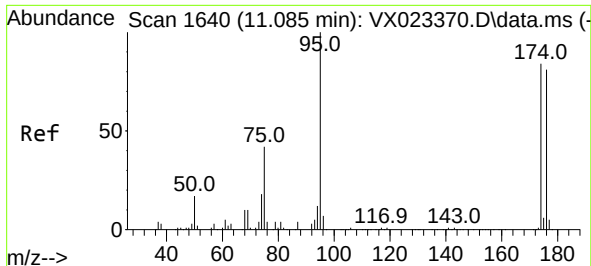
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 1192  |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 83 225.3    | 69.3 103.9# |
| 85 43.5     | 44.3 66.5#  |
| 99 19.5     | 50.3 75.5#  |



#60  
Dibromochloromethane  
Concen: 55.22 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.250 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

|              |              |
|--------------|--------------|
| Tgt Ion: 129 | Resp: 121946 |
| Ion Ratio    | Lower Upper  |
| 129 100      |              |
| 127 0.2      | 38.4 115.2#  |

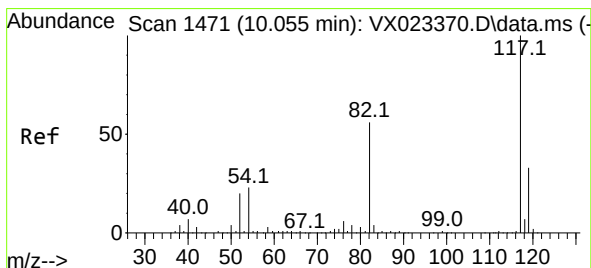
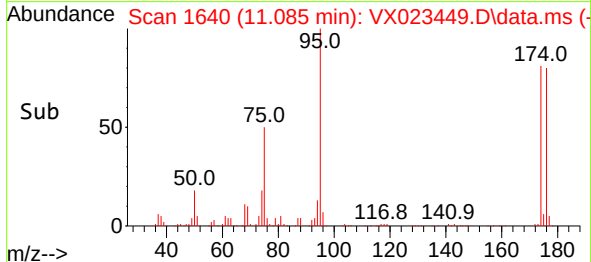
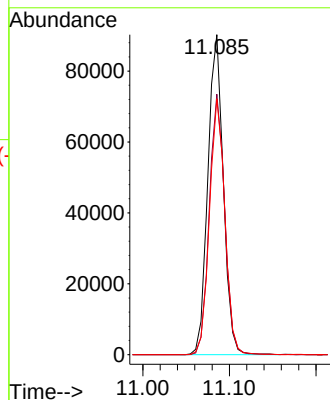
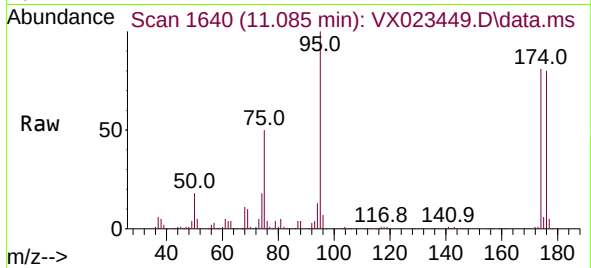




#62  
4-Bromofluorobenzene  
Concen: 48.66 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

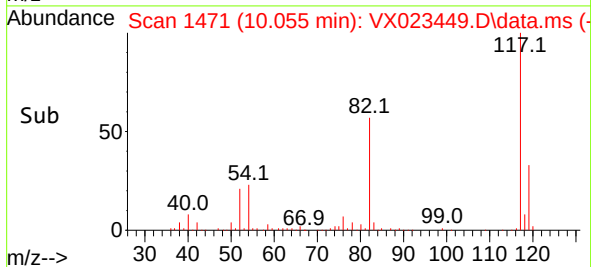
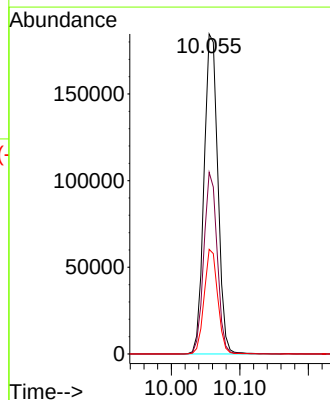
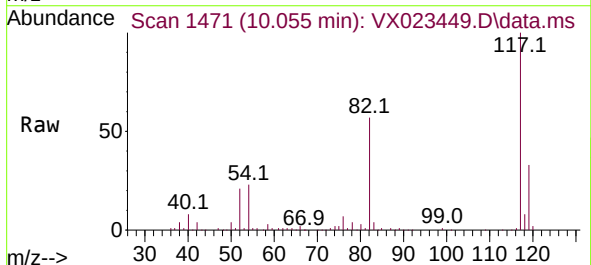
Instrument :  
MSVOA\_X  
ClientSampleId :

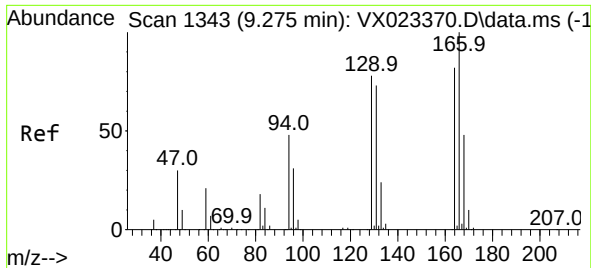
Tgt Ion: 95 Resp: 112114  
Ion Ratio Lower Upper  
95 100  
174 81.1 0.0 154.6  
176 79.6 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

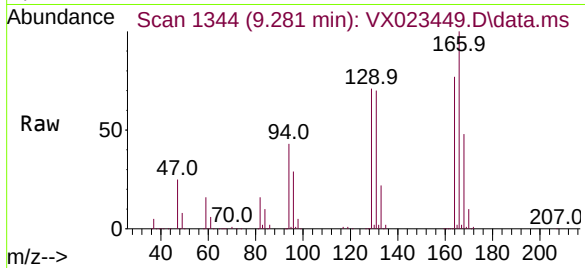
Tgt Ion: 117 Resp: 259374  
Ion Ratio Lower Upper  
117 100  
82 56.7 47.4 71.2  
119 32.7 26.6 39.8



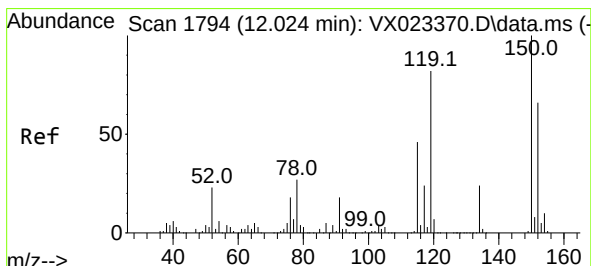
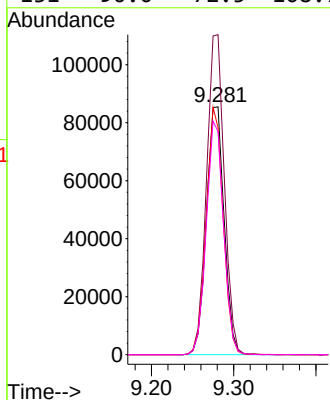
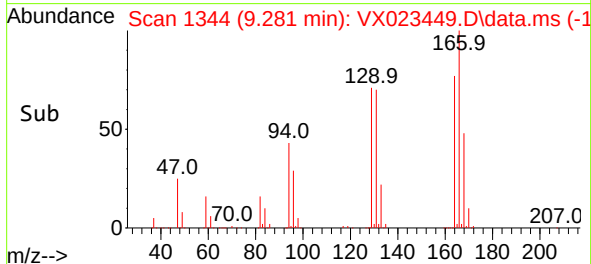


#64  
Tetrachloroethene  
Concen: 62.13 ug/l  
RT: 9.281 min Scan# 1344  
Delta R.T. 0.006 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

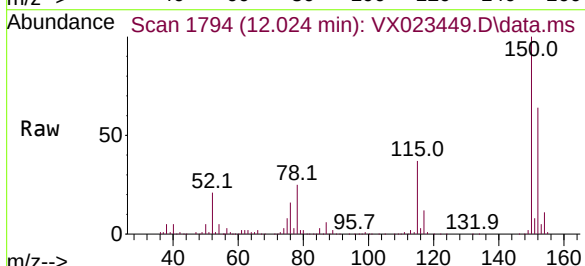
Instrument :  
MSVOA\_X  
ClientSampled :



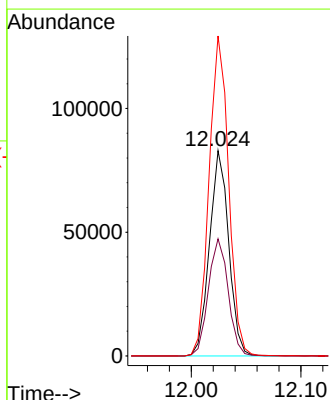
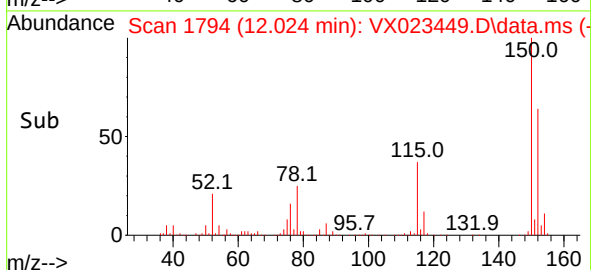
Tgt Ion:164 Resp: 128248  
Ion Ratio Lower Upper  
164 100  
166 129.1 103.4 155.2  
129 91.7 70.8 106.2  
131 90.0 72.5 108.7

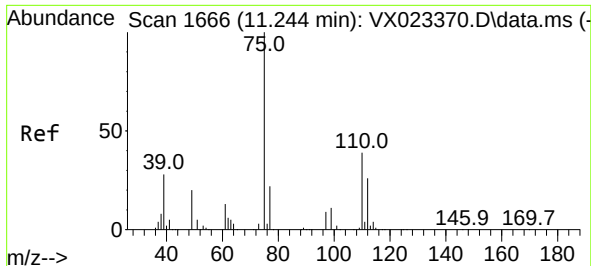


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27



Tgt Ion:152 Resp: 101360  
Ion Ratio Lower Upper  
152 100  
115 58.8 41.1 123.3  
150 158.0 0.0 349.0

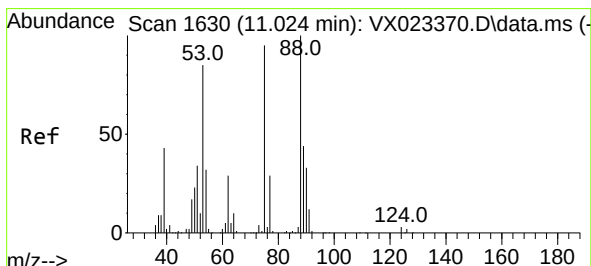
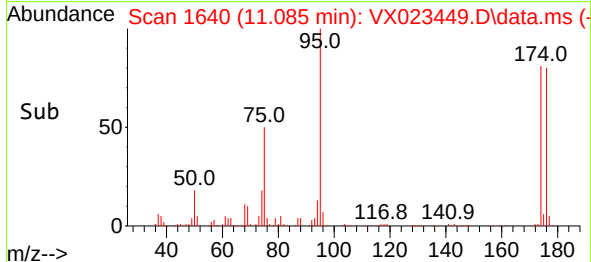
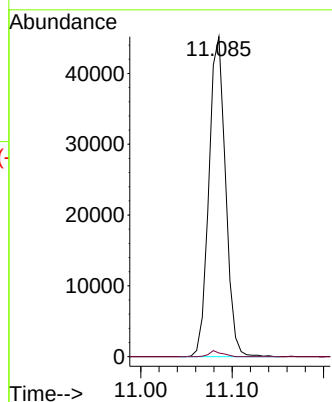
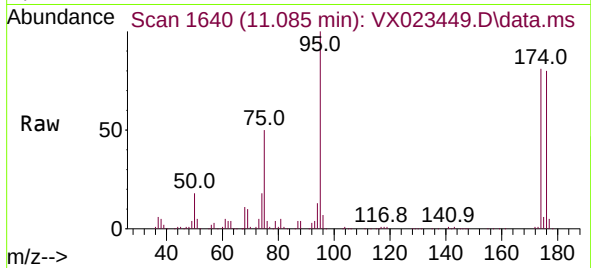




#76  
1,2,3-Trichloropropane  
Concen: 25.73 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

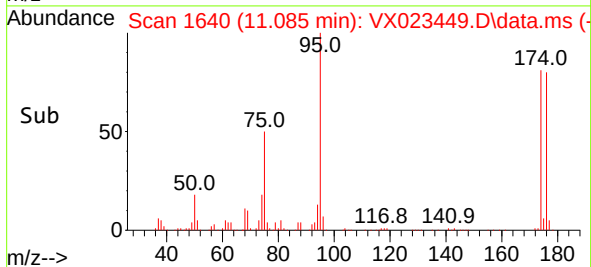
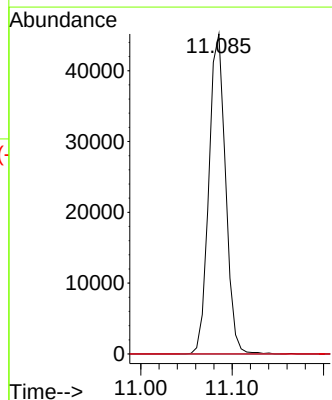
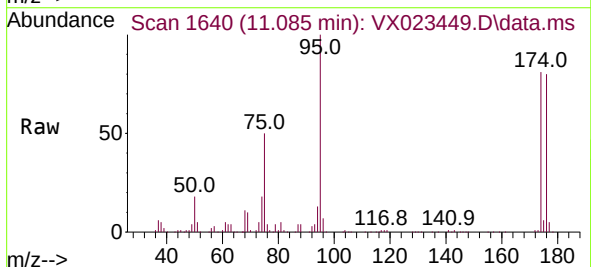
Instrument :  
MSVOA\_X  
ClientSampled :

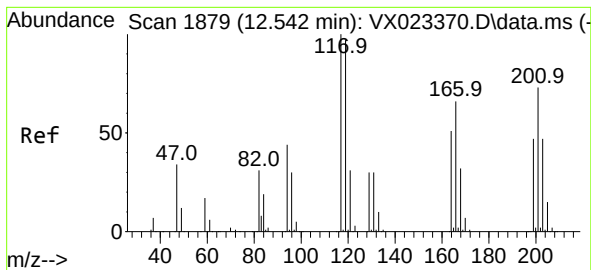
Tgt Ion: 75 Resp: 57392  
Ion Ratio Lower Upper  
75 100  
77 1.4 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 69.19 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

Tgt Ion: 75 Resp: 57392  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#





#90  
Hexachloroethane  
Concen: 2.75 ug/l  
RT: 12.543 min Scan# 1879  
Delta R.T. 0.001 min  
Lab File: VX023449.D  
Acq: 26 Jul 2021 14:27

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion:117 Resp: 1014  
Ion Ratio Lower Upper  
117 100  
201 68.7 40.4 121.2

