

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX072621\  
 Data File : VX023446.D  
 Acq On : 26 Jul 2021 13:16  
 Operator : JC/MD  
 Sample : M3145-13  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jul 27 03:27:05 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  | 166910   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.769  | 114  | 281871   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 252903   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.024 | 152  | 100165   | 50.00 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 5.964  | 65    | 109046   | 52.37    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 78 - 117 | Recovery | =    | 104.74% |
| 35) Dibromofluoromethane    | 5.391  | 113   | 89406    | 50.73    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 101.46% |
| 50) Toluene-d8              | 8.653  | 98    | 338165   | 52.23    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 92 - 112 | Recovery | =    | 104.46% |
| 62) 4-Bromofluorobenzene    | 11.085 | 95    | 110003   | 49.96    | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 99.92%  |

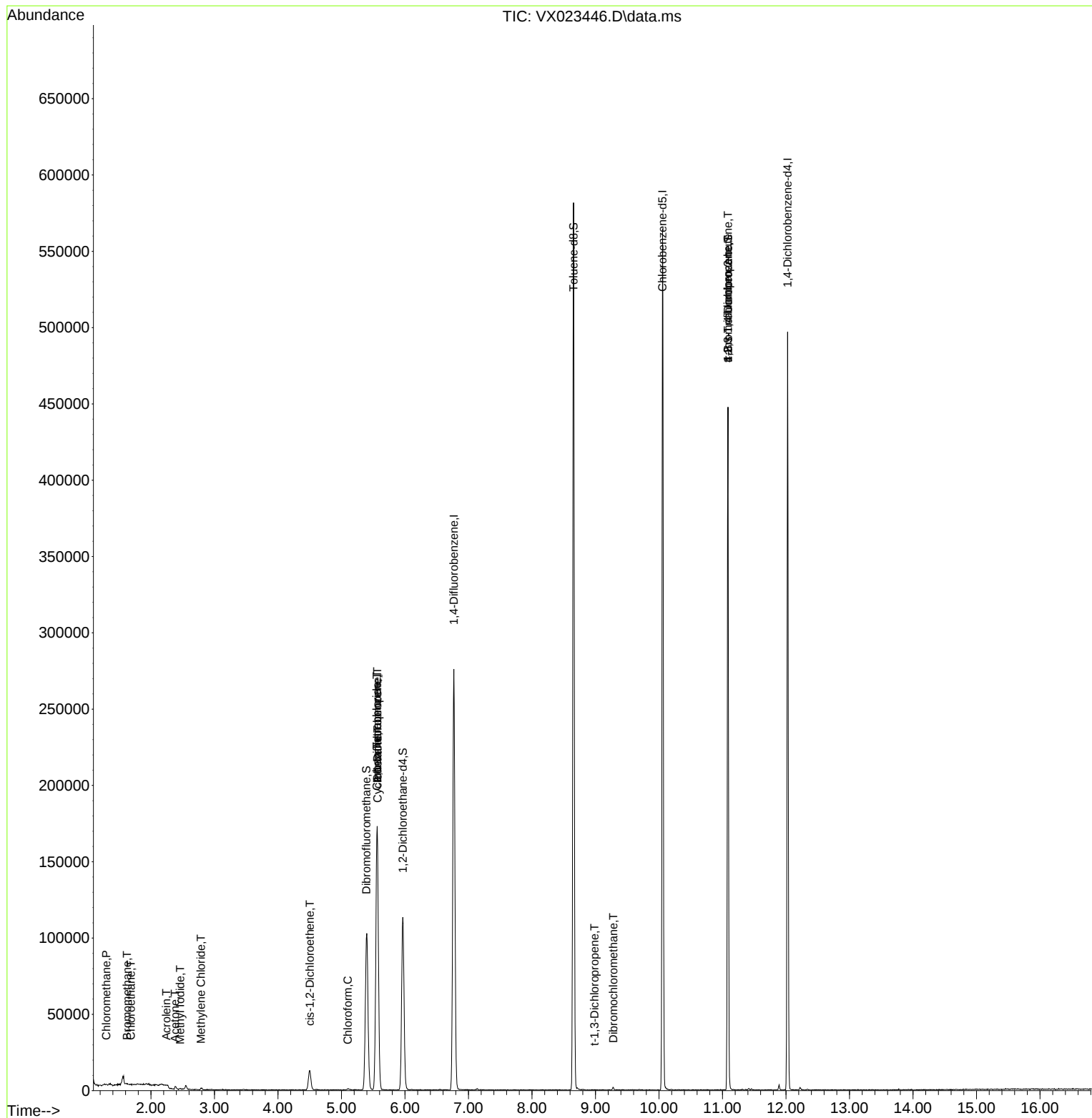
| Target Compounds              |        |     |       |       |        | Qvalue |
|-------------------------------|--------|-----|-------|-------|--------|--------|
| 3) Chloromethane              | 1.295  | 50  | 424   | 0.24  | ug/l # | 49     |
| 5) Bromomethane               | 1.624  | 94  | 642   | 0.60  | ug/l   | 97     |
| 6) Chloroethane               | 1.685  | 64  | 223   | 0.20  | ug/l # | 43     |
| 10) Methyl Iodide             | 2.459  | 142 | 826   | 0.40  | ug/l # | 89     |
| 13) Acrolein                  | 2.240  | 56  | 122   | 1.87  | ug/l # | 1      |
| 16) Acetone                   | 2.380  | 43  | 1962  | 1.92  | ug/l   | 98     |
| 20) Methylene Chloride        | 2.788  | 84  | 529   | 0.27  | ug/l # | 85     |
| 27) cis-1,2-Dichloroethene    | 4.501  | 96  | 8413  | 4.16  | ug/l   | 87     |
| 30) Chloroform                | 5.099  | 83  | 871   | 0.26  | ug/l   | 88     |
| 31) Cyclohexane               | 5.568  | 56  | 3755  | 1.22  | ug/l # | 26     |
| 36) 1,1-Dichloropropene       | 5.562  | 75  | 12870 | 5.05  | ug/l # | 50     |
| 38) Carbon Tetrachloride      | 5.556  | 117 | 16289 | 6.28  | ug/l # | 15     |
| 53) t-1,3-Dichloropropene     | 8.982  | 75  | 67    | 1.84  | ug/l # | 44     |
| 60) Dibromochloromethane      | 9.281  | 129 | 239   | 2.09  | ug/l # | 11     |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75  | 56929 | 25.83 | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75  | 56929 | 69.45 | ug/l # | 12     |

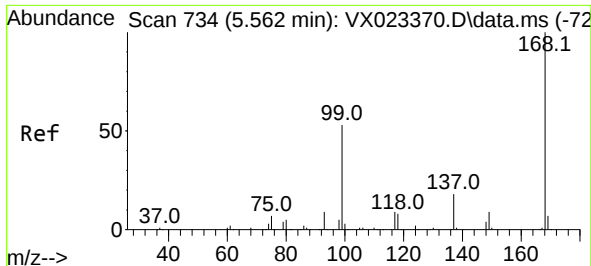
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX072621\  
Data File : VX023446.D  
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Operator : JC/MD  
Sample : M3145-13  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Jul 27 03:27:05 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

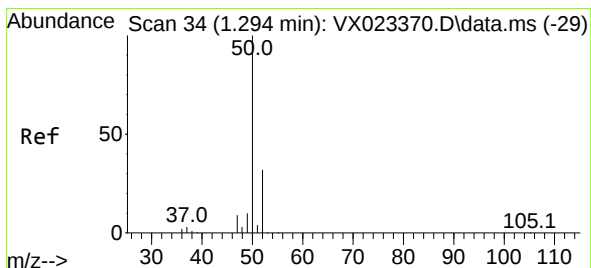
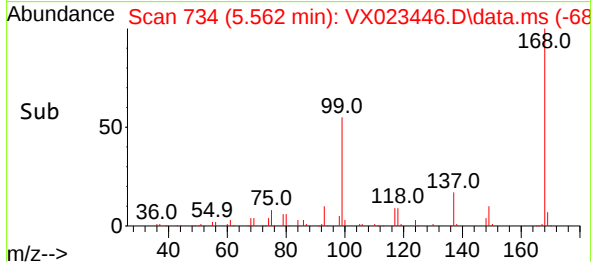
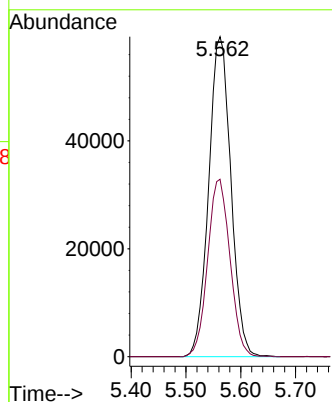
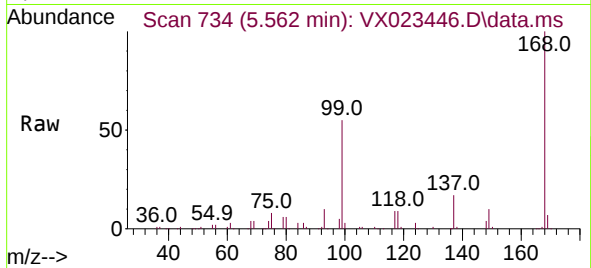




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.000 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

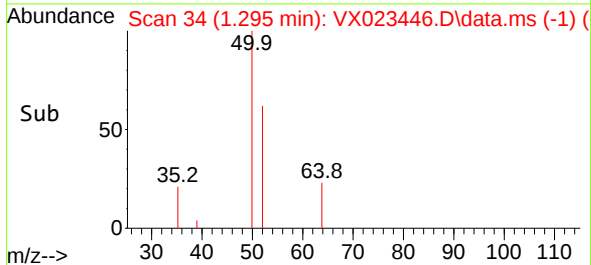
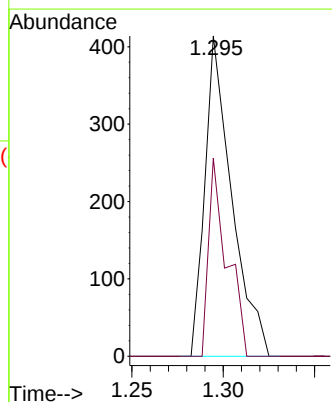
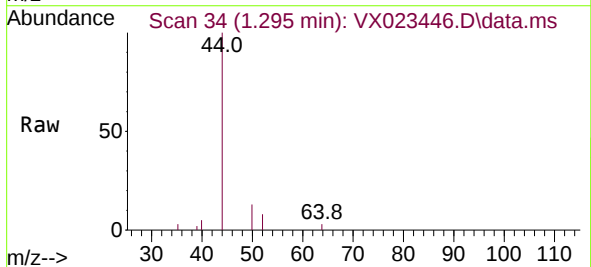
Instrument :  
MSVOA\_X  
ClientSampled :

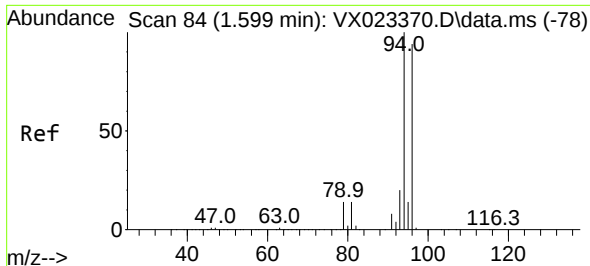
Tgt Ion:168 Resp: 166910  
Ion Ratio Lower Upper  
168 100  
99 55.4 45.8 68.6



#3  
Chloromethane  
Concen: 0.24 ug/l  
RT: 1.295 min Scan# 34  
Delta R.T. 0.001 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

Tgt Ion: 50 Resp: 424  
Ion Ratio Lower Upper  
50 100  
52 61.8 26.4 39.6#

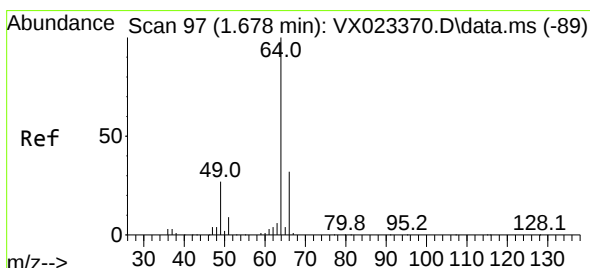
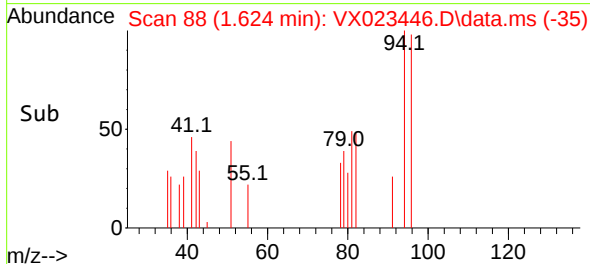
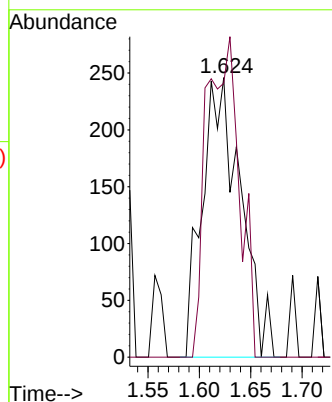
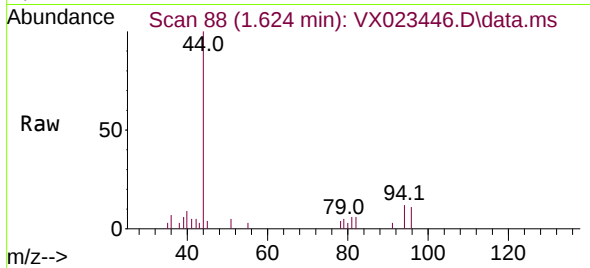




#5  
Bromomethane  
Concen: 0.60 ug/l  
RT: 1.624 min Scan# 88  
Delta R.T. 0.025 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

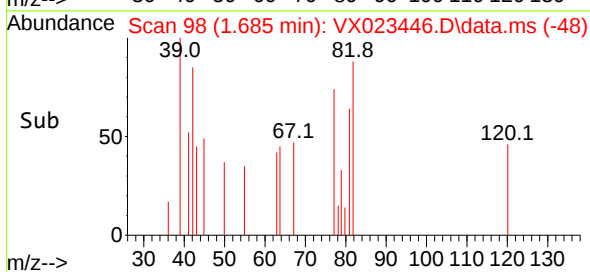
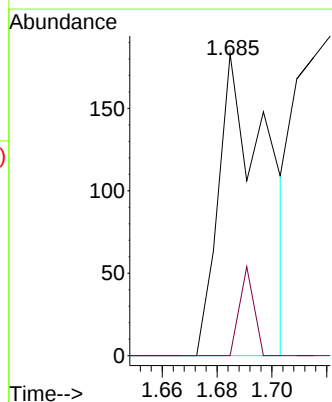
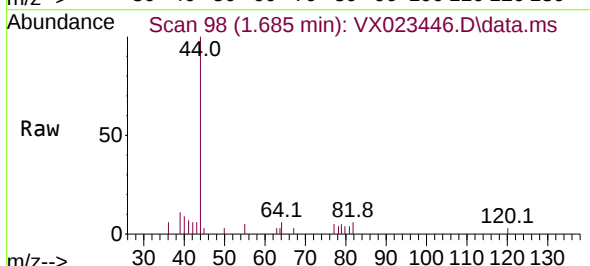
Instrument :  
MSVOA\_X  
ClientSampled :

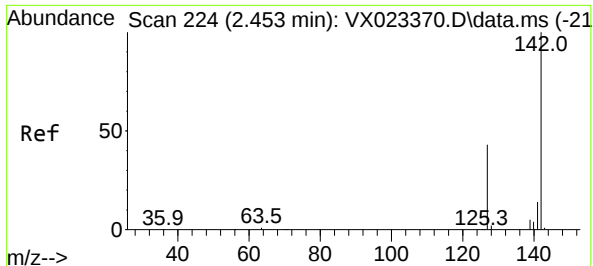
Tgt Ion: 94 Resp: 642  
Ion Ratio Lower Upper  
94 100  
96 98.0 76.4 114.6



#6  
Chloroethane  
Concen: 0.20 ug/l  
RT: 1.685 min Scan# 98  
Delta R.T. 0.007 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

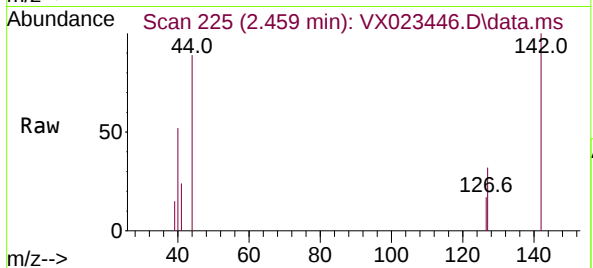
Tgt Ion: 64 Resp: 223  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.0#



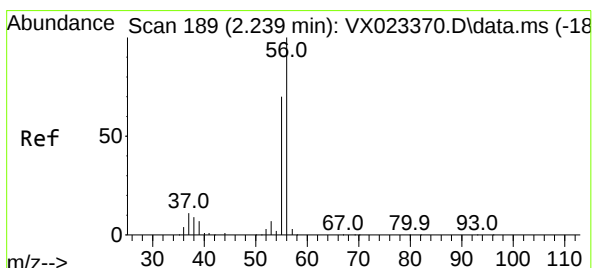
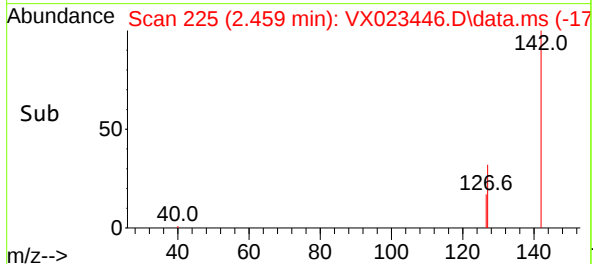
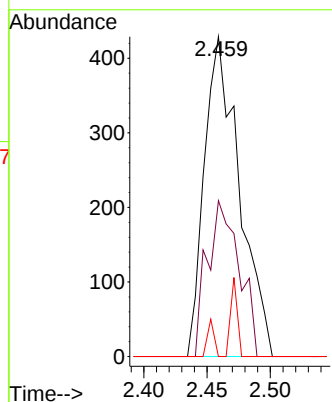


#10  
Methyl Iodide  
Concen: 0.40 ug/l  
RT: 2.459 min Scan# 225  
Delta R.T. 0.006 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

Instrument :  
MSVOA\_X  
ClientSampled :

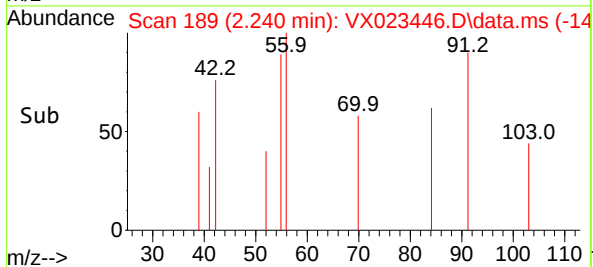
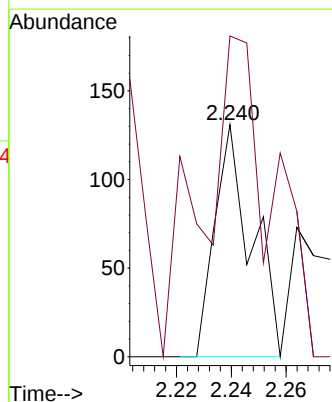
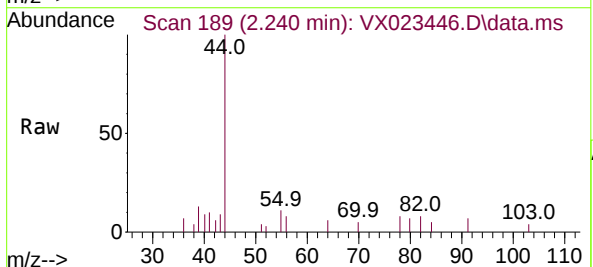


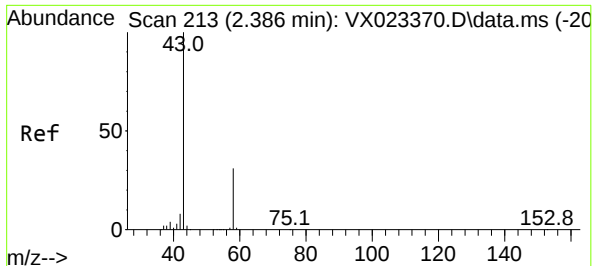
Tgt Ion:142 Resp: 826  
Ion Ratio Lower Upper  
142 100  
127 44.4 33.3 49.9  
141 2.2 11.4 17.0#



#13  
Acrolein  
Concen: 1.87 ug/l  
RT: 2.240 min Scan# 189  
Delta R.T. 0.001 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

Tgt Ion: 56 Resp: 122  
Ion Ratio Lower Upper  
56 100  
55 257.4 56.4 84.6#

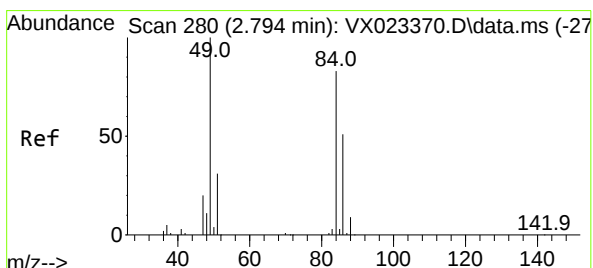
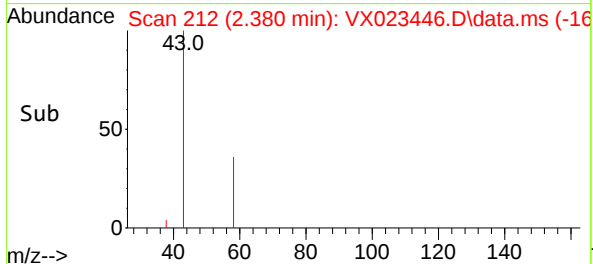
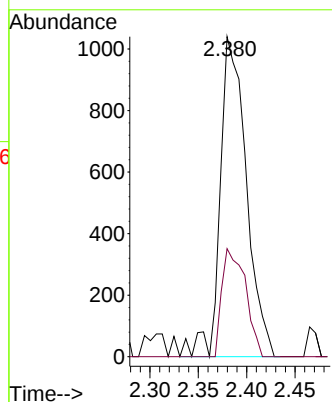
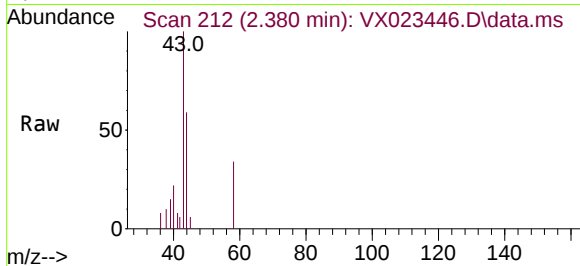




#16  
Acetone  
Concen: 1.92 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.006 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

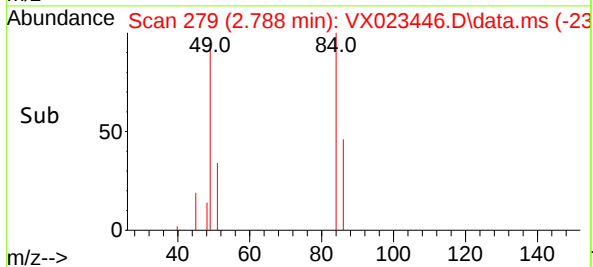
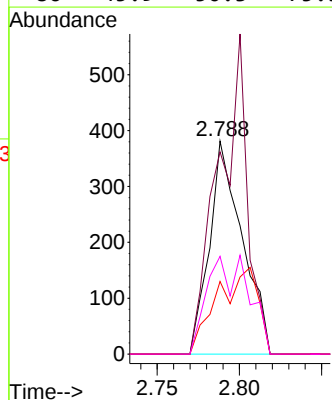
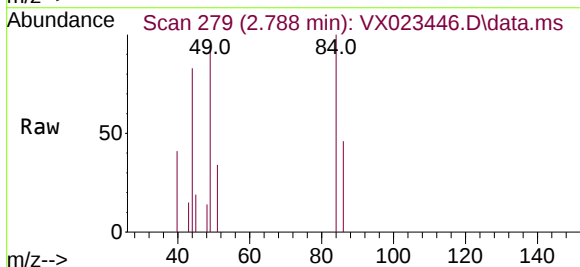
Instrument :  
MSVOA\_X  
ClientSampled :

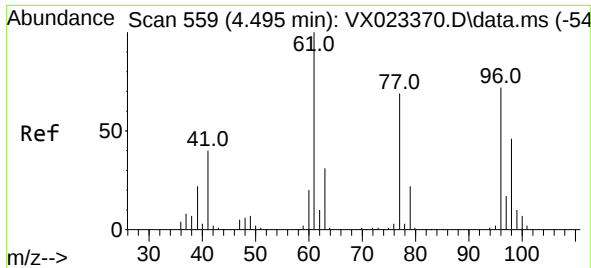
Tgt Ion: 43 Resp: 1962  
Ion Ratio Lower Upper  
43 100  
58 33.8 27.8 41.8



#20  
Methylene Chloride  
Concen: 0.27 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. -0.006 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

Tgt Ion: 84 Resp: 529  
Ion Ratio Lower Upper  
84 100  
49 95.0 88.6 132.8  
51 34.1 27.0 40.6  
86 45.9 50.3 75.5#

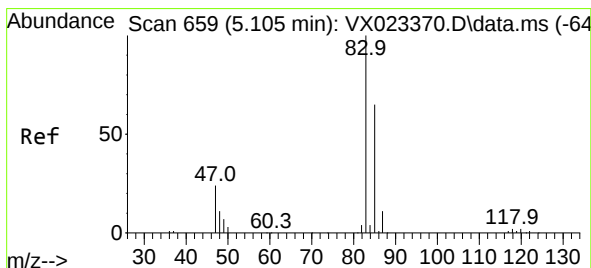
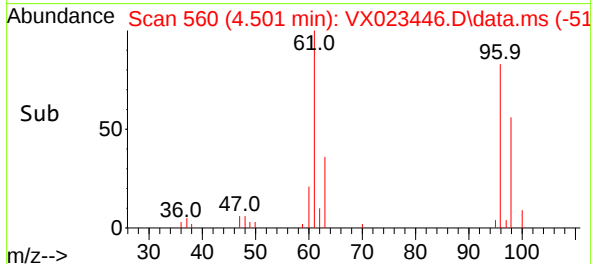
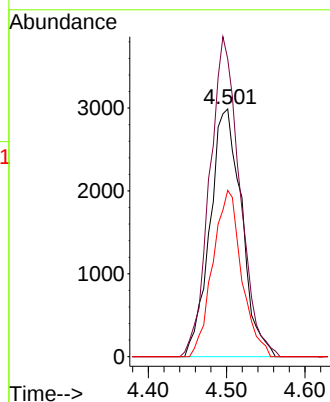
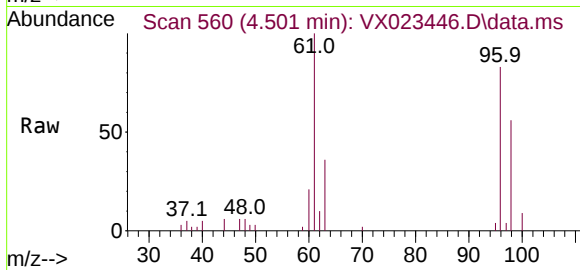




#27  
 cis-1,2-Dichloroethene  
 Concen: 4.16 ug/l  
 RT: 4.501 min Scan# 560  
 Delta R.T. 0.006 min  
 Lab File: VX023446.D  
 Acq: 26 Jul 2021 13:16

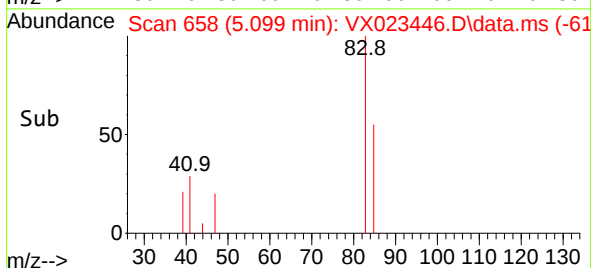
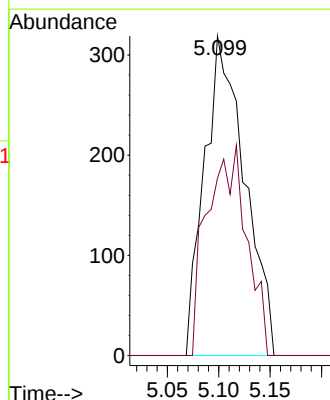
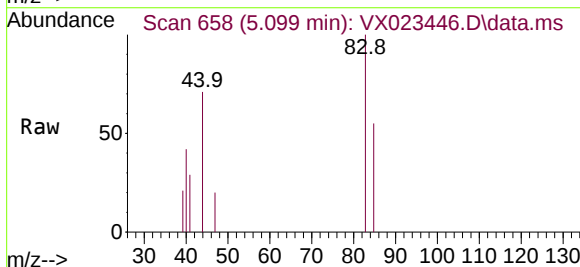
Instrument :  
 MSVOA\_X  
 ClientSampled :

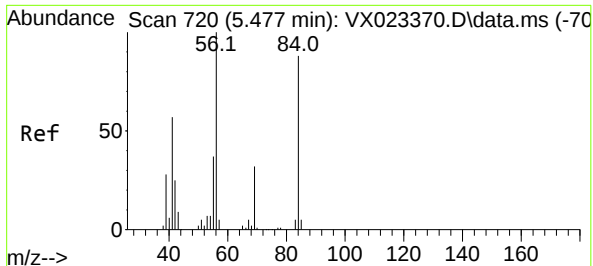
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 96 | Resp: | 8413        |
| Ion         | Ratio | Lower Upper |
| 96          | 100   |             |
| 61          | 122.8 | 0.0 285.6   |
| 98          | 61.1  | 0.0 129.6   |



#30  
 Chloroform  
 Concen: 0.26 ug/l  
 RT: 5.099 min Scan# 658  
 Delta R.T. -0.006 min  
 Lab File: VX023446.D  
 Acq: 26 Jul 2021 13:16

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 83 | Resp: | 871         |
| Ion         | Ratio | Lower Upper |
| 83          | 100   |             |
| 85          | 55.5  | 52.0 78.0   |

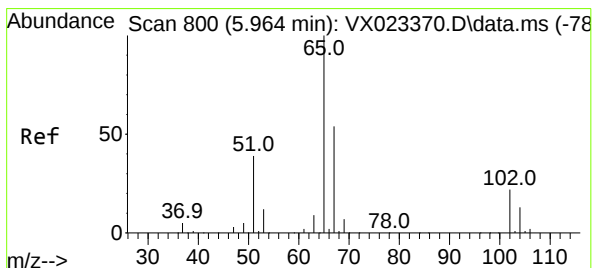
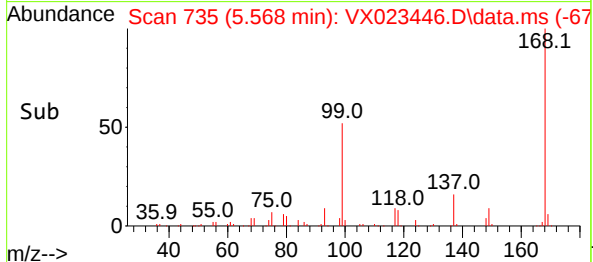
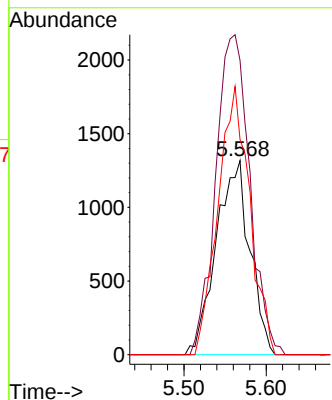
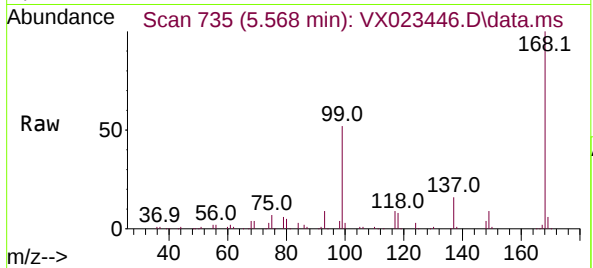




#31  
Cyclohexane  
Concen: 1.22 ug/l  
RT: 5.568 min Scan# 735  
Delta R.T. 0.091 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

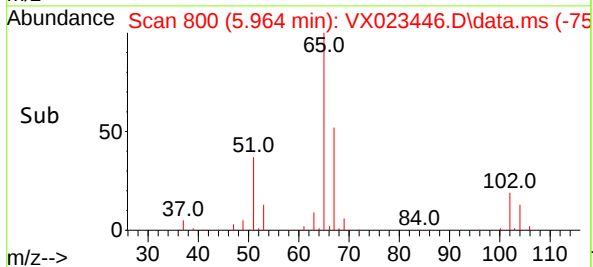
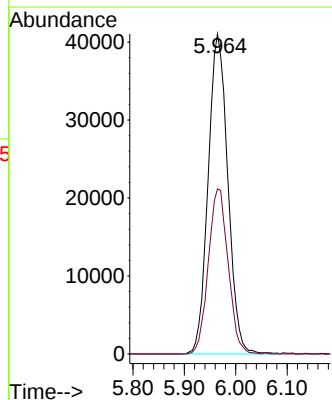
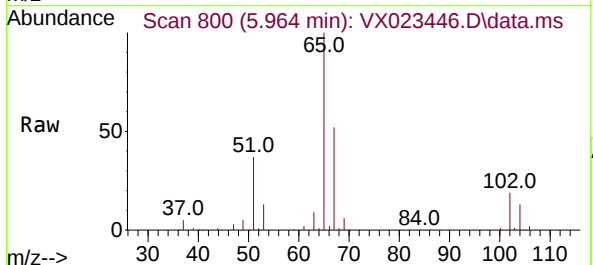
Instrument :  
MSVOA\_X  
ClientSampled :

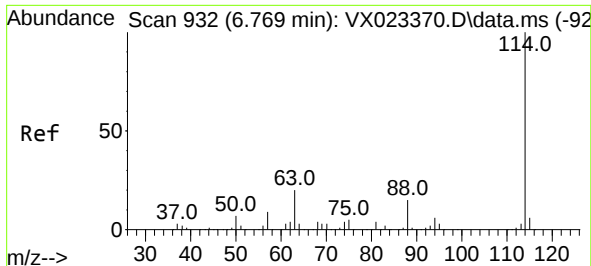
Tgt Ion: 56 Resp: 3755  
Ion Ratio Lower Upper  
56 100  
69 151.6 25.3 37.9#  
84 110.9 71.4 107.0#



#33  
1,2-Dichloroethane-d4  
Concen: 52.37 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.000 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

Tgt Ion: 65 Resp: 109046  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 105.4

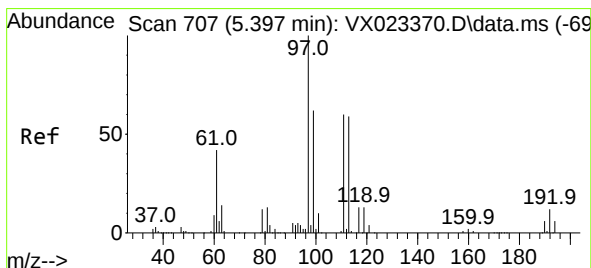
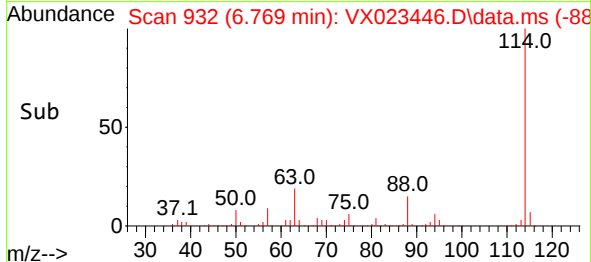
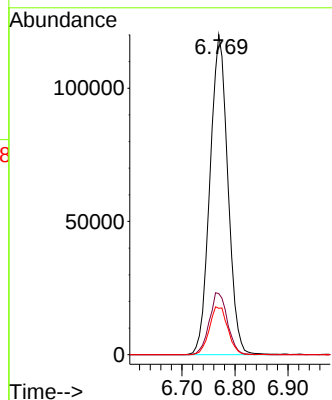
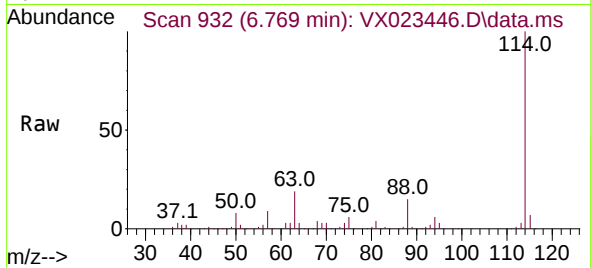




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. 0.000 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

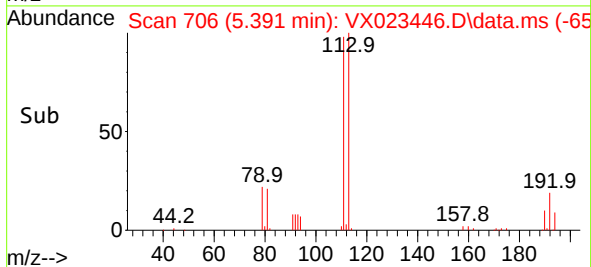
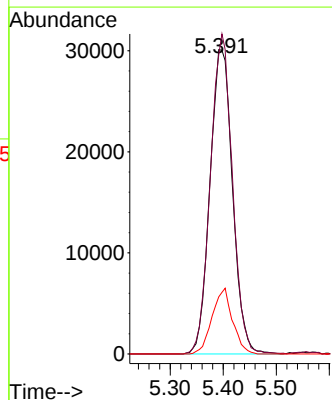
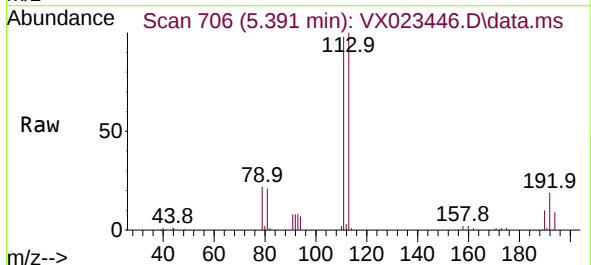
Instrument :  
MSVOA\_X  
ClientSampleId :

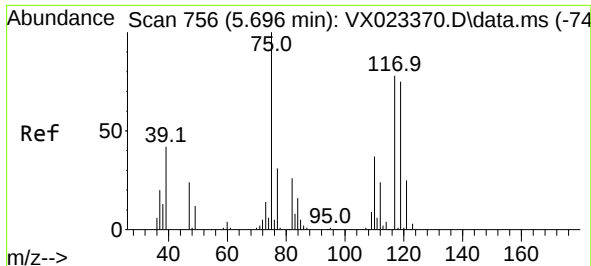
Tgt Ion:114 Resp: 281871  
Ion Ratio Lower Upper  
114 100  
63 19.1 0.0 40.8  
88 14.5 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 50.73 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. -0.006 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

Tgt Ion:113 Resp: 89406  
Ion Ratio Lower Upper  
113 100  
111 102.0 81.9 122.9  
192 19.5 16.7 25.1

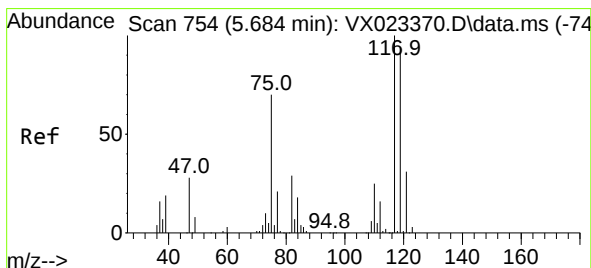
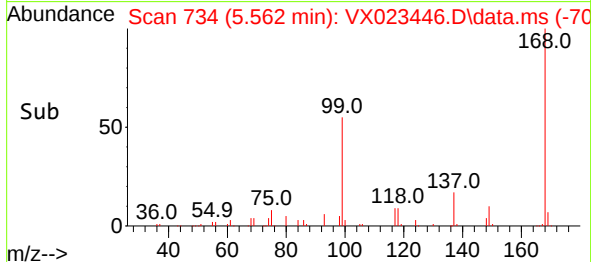
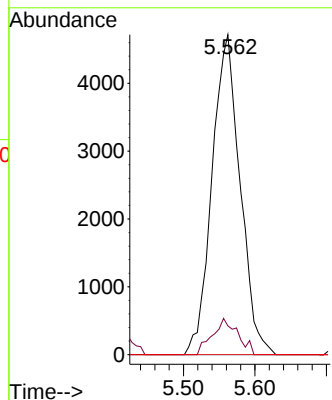
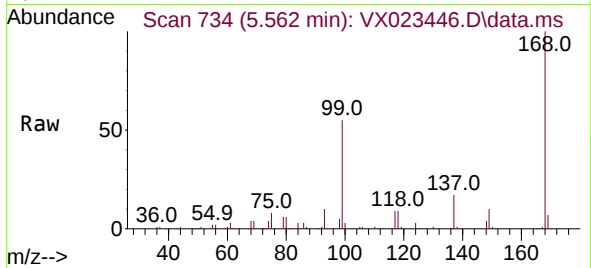




#36  
1,1-Dichloropropene  
Concen: 5.05 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.134 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

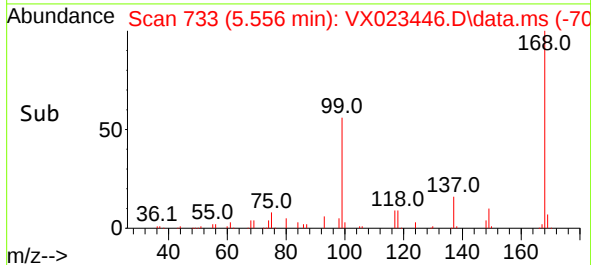
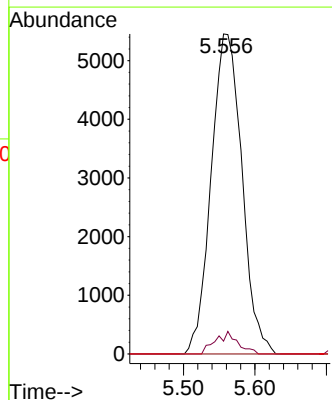
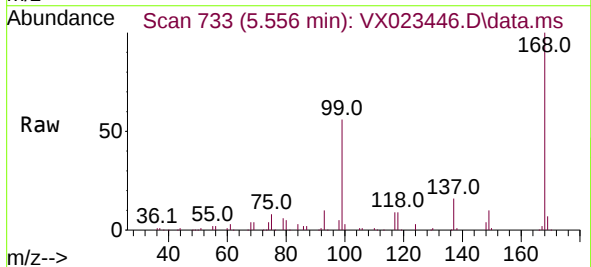
Instrument :  
MSVOA\_X  
ClientSampled :

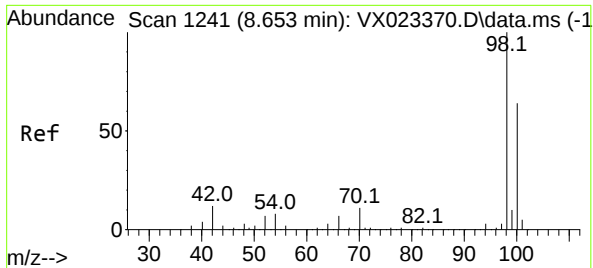
Tgt Ion: 75 Resp: 12870  
Ion Ratio Lower Upper  
75 100  
110 10.2 18.1 54.4#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 6.28 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.128 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

Tgt Ion: 117 Resp: 16289  
Ion Ratio Lower Upper  
117 100  
119 4.0 76.2 114.2#  
121 0.0 24.8 37.2#

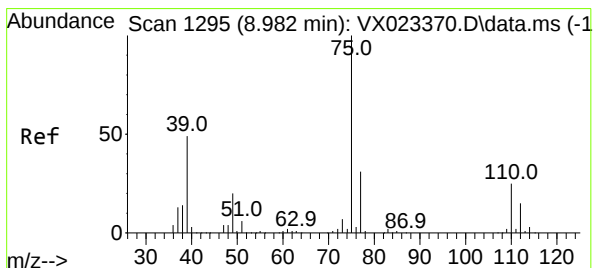
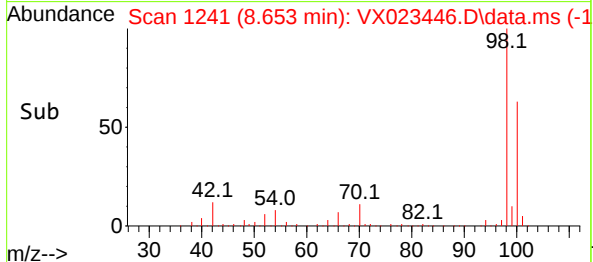
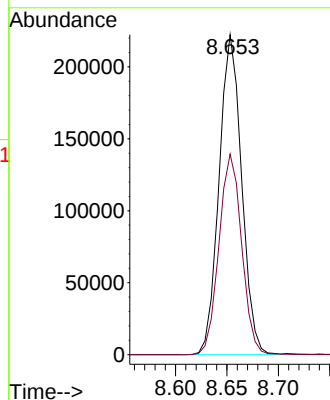
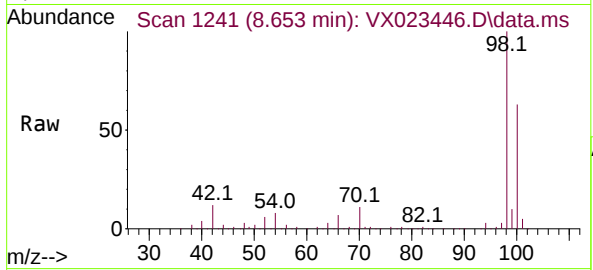




#50  
Toluene-d8  
Concen: 52.23 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

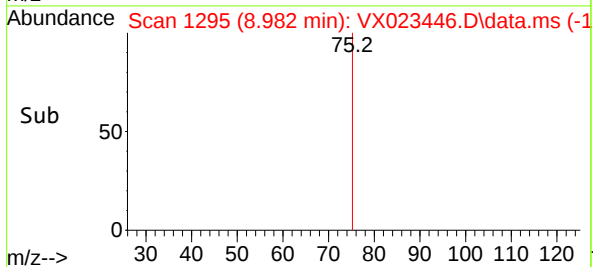
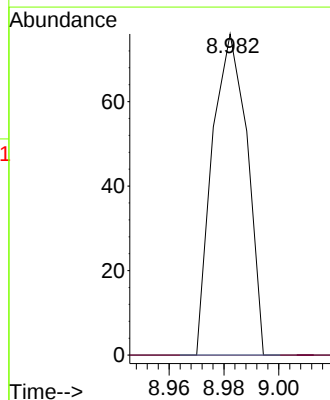
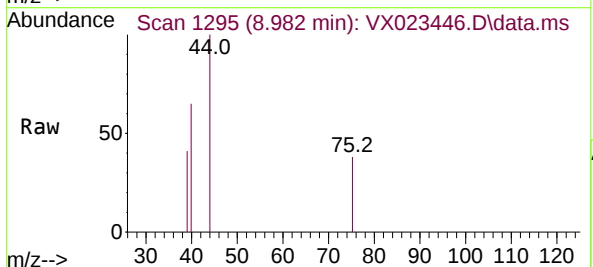
Instrument :  
MSVOA\_X  
ClientSampled :

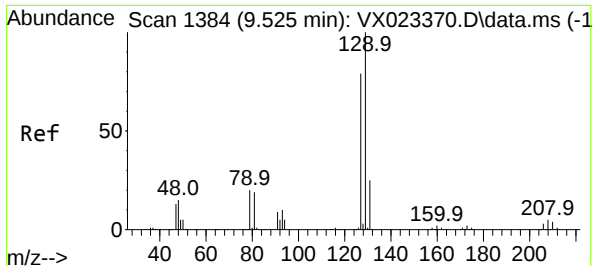
Tgt Ion: 98 Resp: 338165  
Ion Ratio Lower Upper  
98 100  
100 63.1 51.9 77.9



#53  
t-1,3-Dichloropropene  
Concen: 1.84 ug/l  
RT: 8.982 min Scan# 1295  
Delta R.T. 0.000 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

Tgt Ion: 75 Resp: 67  
Ion Ratio Lower Upper  
75 100  
77 0.0 24.9 37.3#

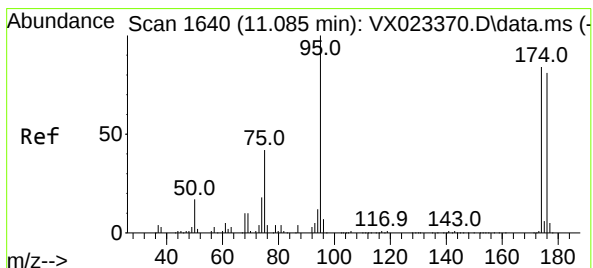
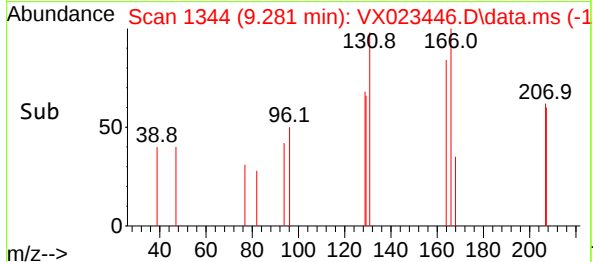
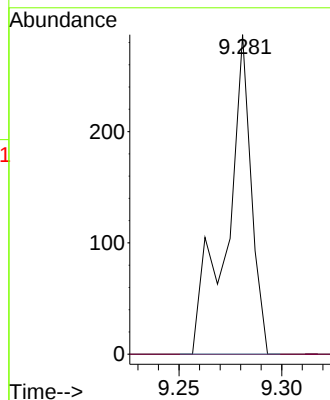
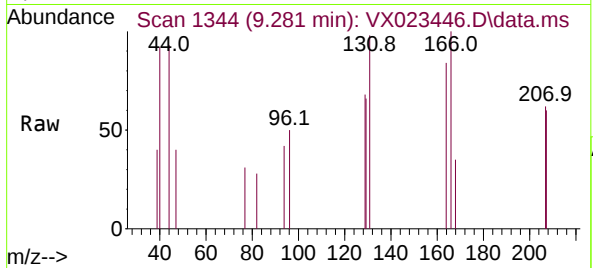




#60  
Dibromochloromethane  
Concen: 2.09 ug/l  
RT: 9.281 min Scan# 1344  
Delta R.T. -0.244 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

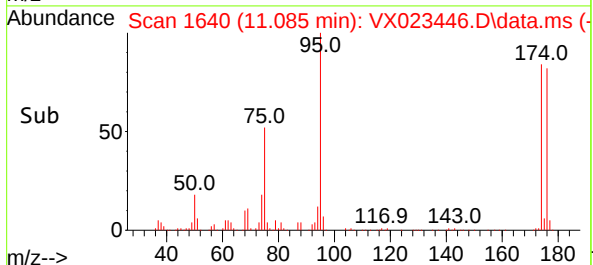
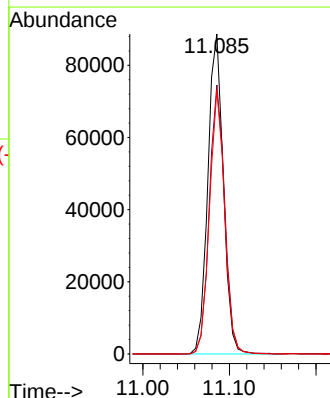
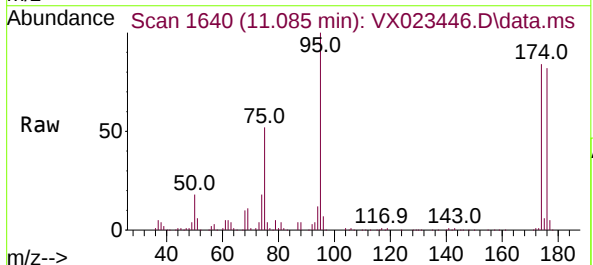
Instrument :  
MSVOA\_X  
ClientSampleId :

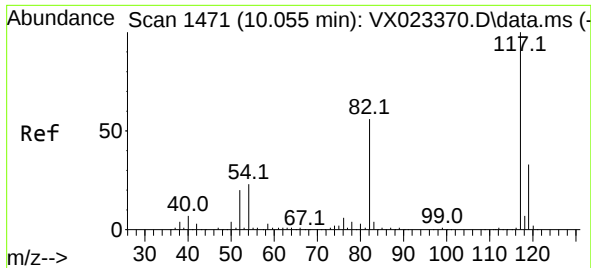
Tgt Ion:129 Resp: 239  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#



#62  
4-Bromofluorobenzene  
Concen: 49.96 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

Tgt Ion: 95 Resp: 110003  
Ion Ratio Lower Upper  
95 100  
174 83.9 0.0 154.6  
176 80.5 0.0 155.8

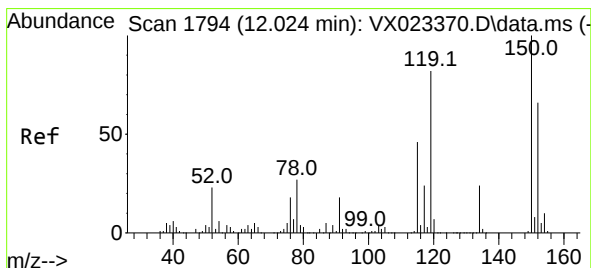
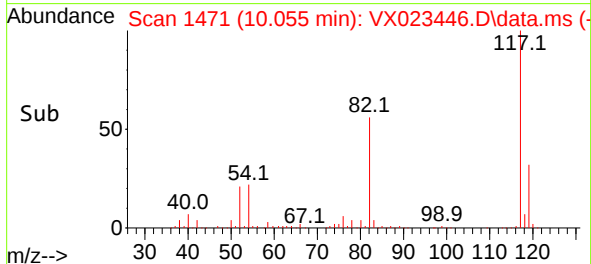
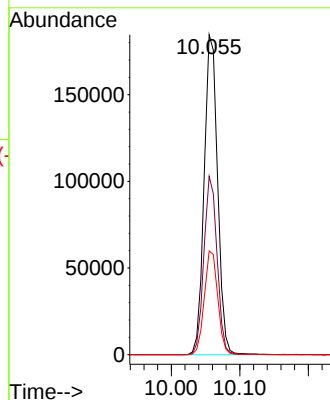
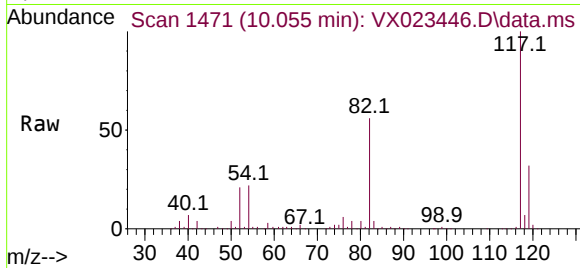




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

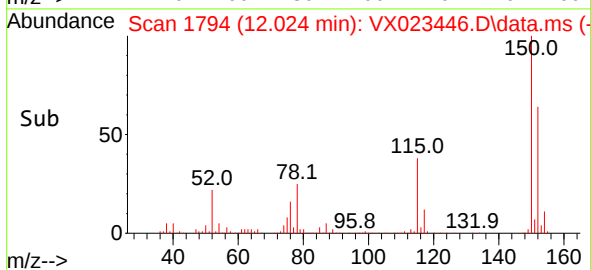
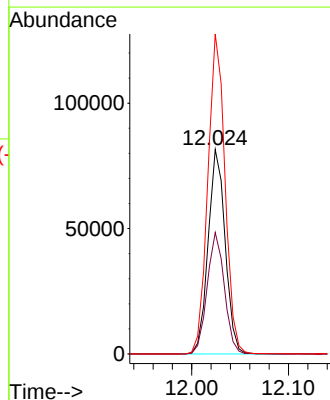
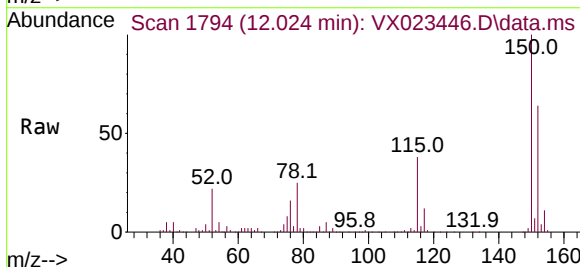
Instrument :  
MSVOA\_X  
ClientSampled :

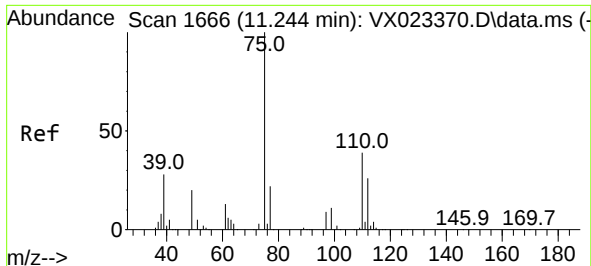
Tgt Ion:117 Resp: 252903  
Ion Ratio Lower Upper  
117 100  
82 55.8 47.4 71.2  
119 32.4 26.6 39.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

Tgt Ion:152 Resp: 100165  
Ion Ratio Lower Upper  
152 100  
115 59.9 41.1 123.3  
150 157.3 0.0 349.0

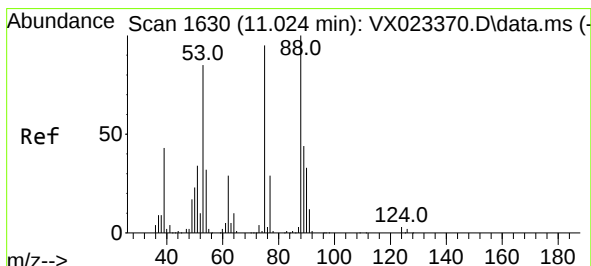
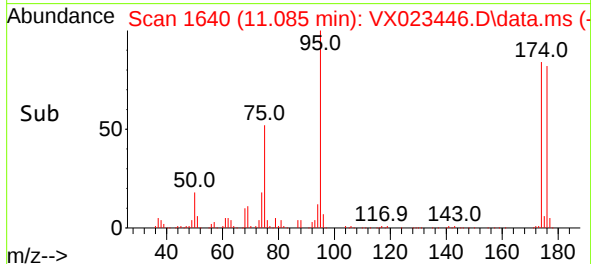
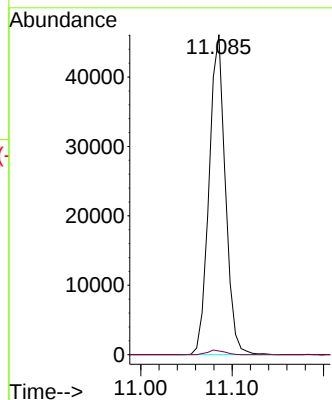
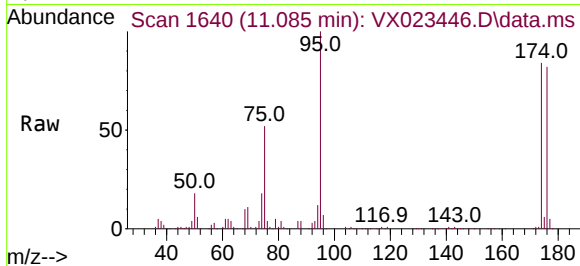




#76  
1,2,3-Trichloropropane  
Concen: 25.83 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion: 75 Resp: 56929  
Ion Ratio Lower Upper  
75 100  
77 1.5 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 69.45 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX023446.D  
Acq: 26 Jul 2021 13:16

Tgt Ion: 75 Resp: 56929  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

