

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100621\  
 Data File : VX024631.D  
 Acq On : 06 Oct 2021 20:29  
 Operator : JC/MD  
 Sample : M4060-01  
 Misc : 5.04g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 07 07:49:42 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X092321W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 23 18:24:34 2021  
 Response via : Initial Calibration

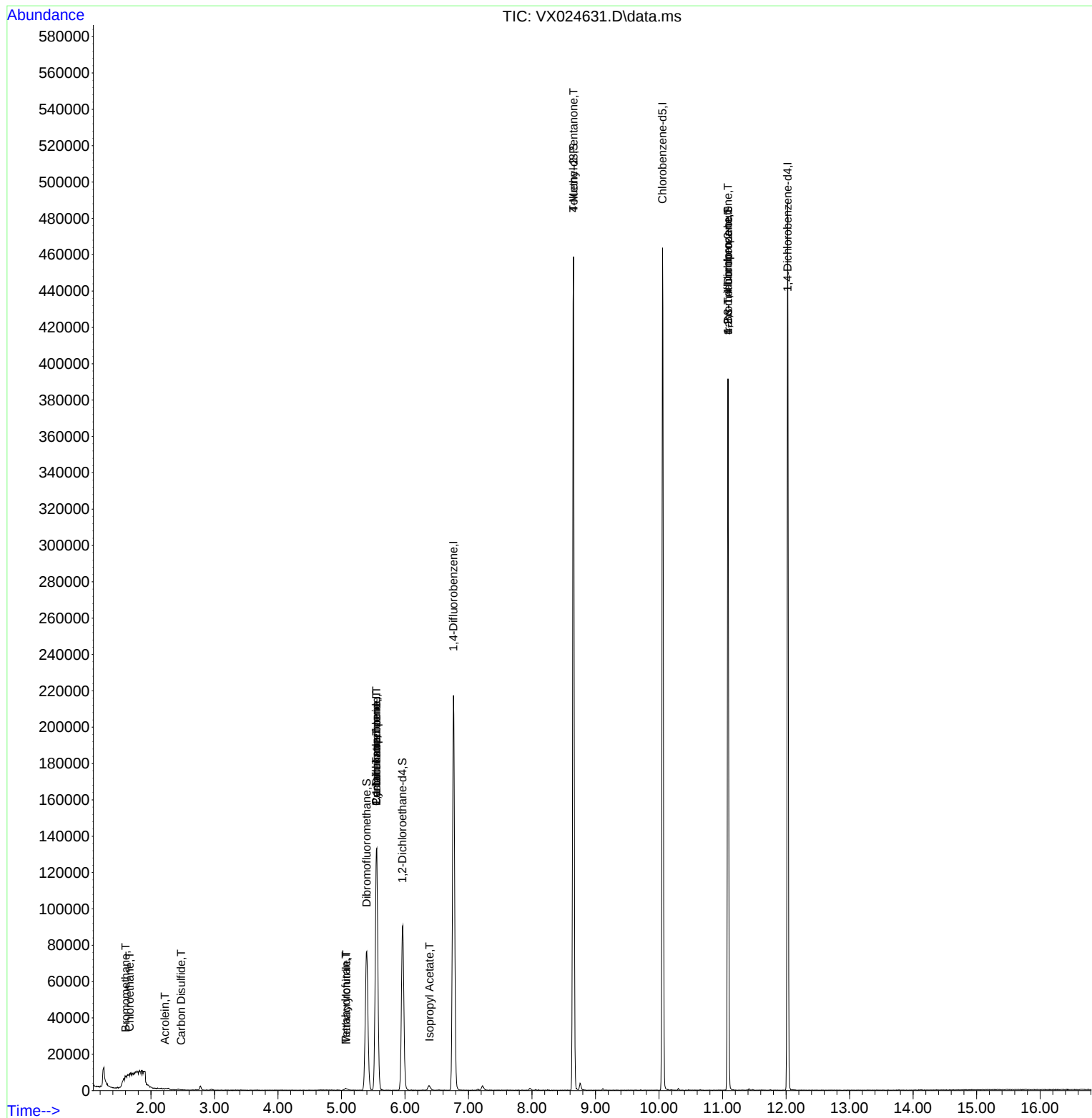
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 124427   | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 216148   | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 209457   | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 97625    | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 93825    | 53.50     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 107.00%  |
| 35) Dibromofluoromethane      | 5.397  | 113   | 67316    | 46.88     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 93.76%   |
| 50) Toluene-d8                | 8.653  | 98    | 267932   | 50.70     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 101.40%  |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 101091   | 48.65     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 97.30%   |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 1.599  | 94    | 594      | 0.71      | ug/l # | 76       |
| 6) Chloroethane               | 1.666  | 64    | 248      | 0.56      | ug/l # | 43       |
| 11) Tert butyl alcohol        | 2.947  | 59    | 429      | Below Cal | #      | 73       |
| 13) Acrolein                  | 2.221  | 56    | 20       | 10.26     | ug/l # | 14       |
| 16) Acetone                   | 2.428  | 43    | 336      | Below Cal | #      | 40       |
| 17) Carbon Disulfide          | 2.477  | 76    | 112      | 0.27      | ug/l # | 75       |
| 20) Methylene Chloride        | 2.776  | 84    | 976      | Below Cal |        | 89       |
| 29) Tetrahydrofuran           | 5.068  | 42    | 986      | 1.28      | ug/l # | 78       |
| 31) Cyclohexane               | 5.550  | 56    | 2741     | 1.31      | ug/l # | 50       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 10451    | 5.04      | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 13051    | 5.79      | ug/l # | 15       |
| 41) Methacrylonitrile         | 5.074  | 41    | 706      | 0.53      | ug/l # | 41       |
| 43) Isopropyl Acetate         | 6.385  | 43    | 1601     | 0.41      | ug/l # | 57       |
| 51) 4-Methyl-2-Pentanone      | 8.653  | 43    | 1257     | 0.48      | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 53516    | 24.14     | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 53516    | 65.89     | ug/l # | 12       |
| -----                         |        |       |          |           |        |          |

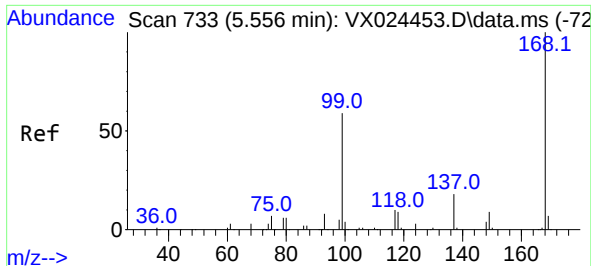
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100621\  
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Sample : M4060-01  
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ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Oct 07 07:49:42 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X092321W.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 23 18:24:34 2021  
Response via : Initial Calibration

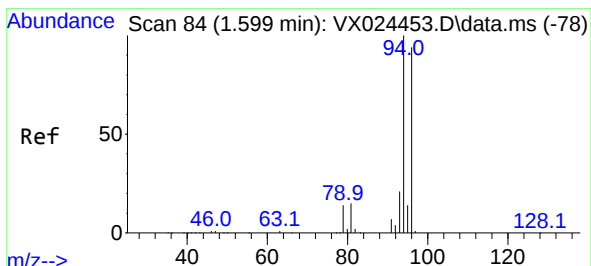
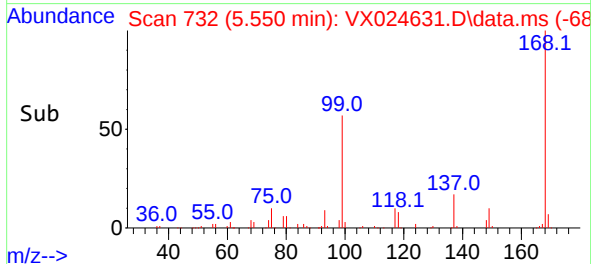
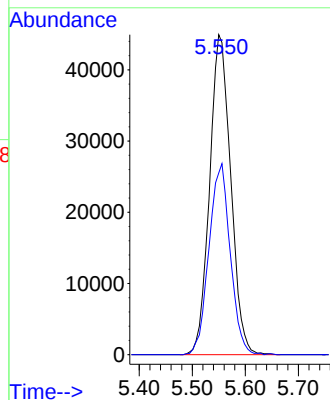
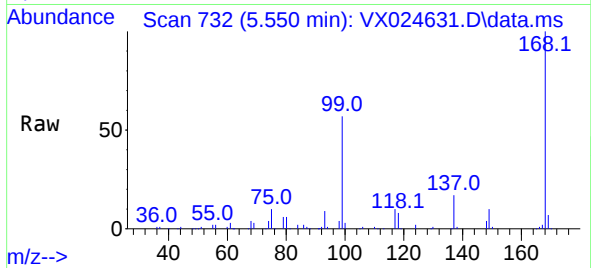




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.006 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

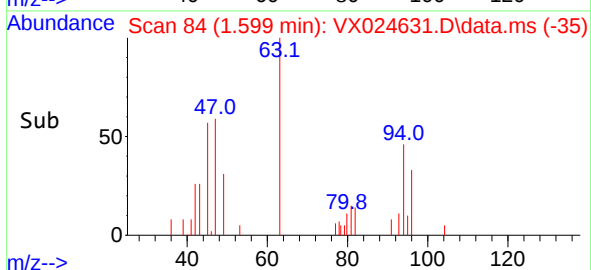
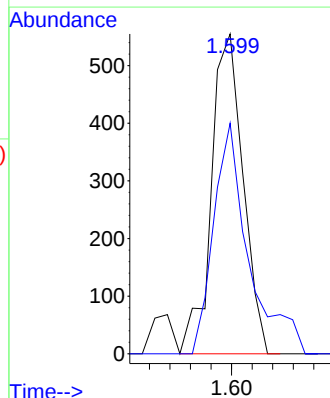
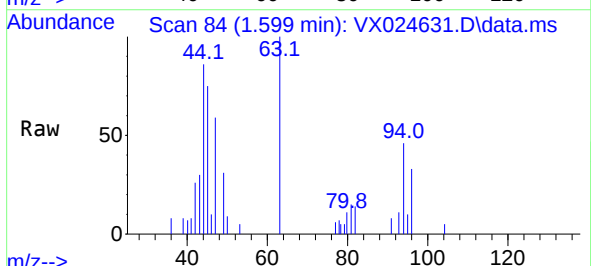
Instrument :  
MSVOA\_X  
ClientSampled :

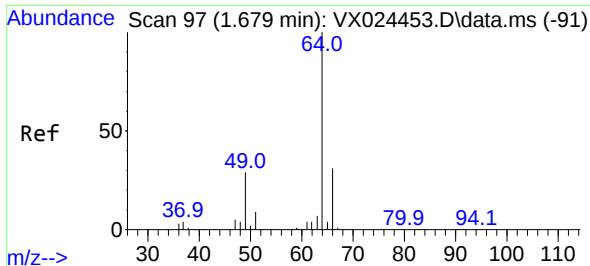
Tgt Ion:168 Resp: 124427  
Ion Ratio Lower Upper  
168 100  
99 56.8 45.8 68.6



#5  
Bromomethane  
Concen: 0.71 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. 0.000 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

Tgt Ion: 94 Resp: 594  
Ion Ratio Lower Upper  
94 100  
96 72.1 76.4 114.6#

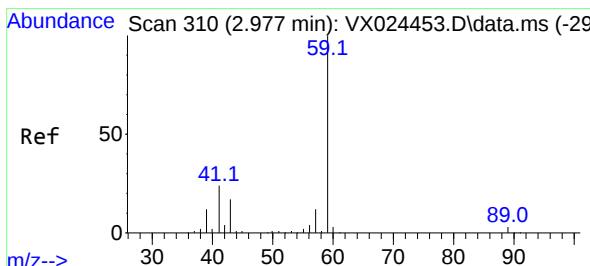
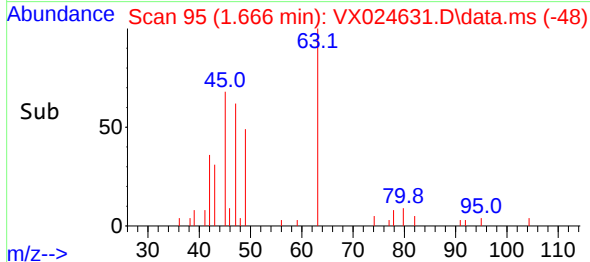
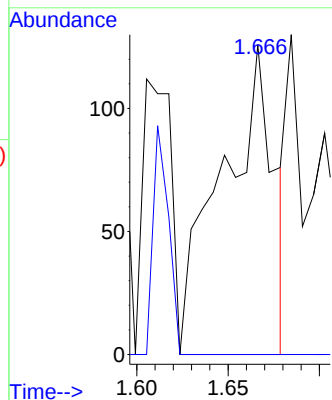
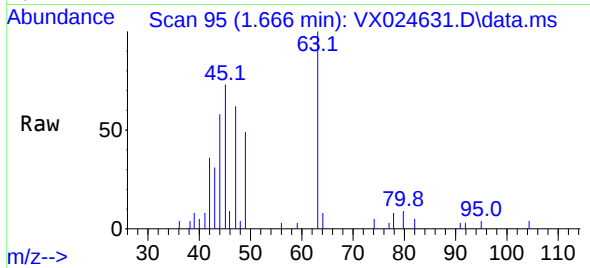




#6  
Chloroethane  
Concen: 0.56 ug/l  
RT: 1.666 min Scan# 95  
Delta R.T. -0.013 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

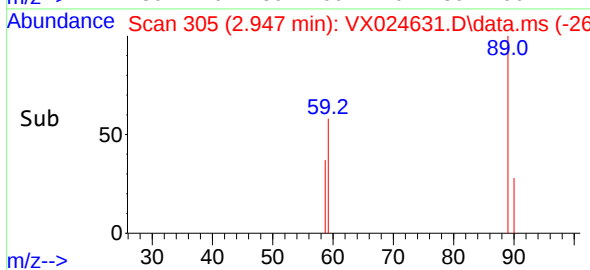
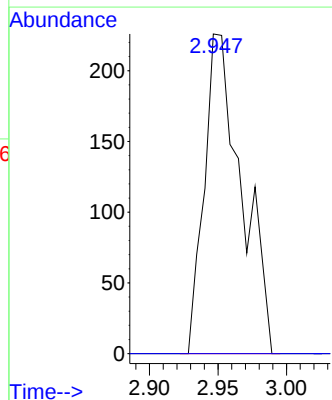
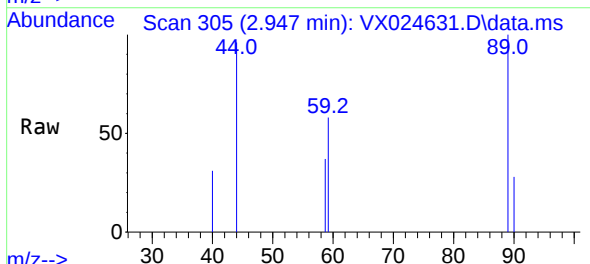
Instrument :  
MSVOA\_X  
ClientSampled :

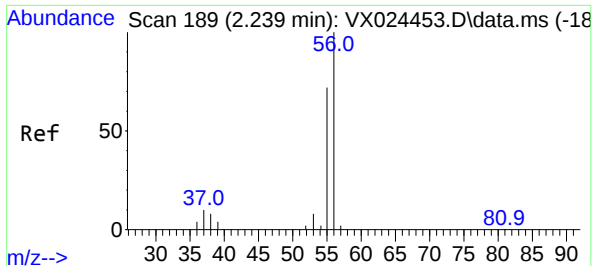
Tgt Ion: 64 Resp: 248  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.0#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.947 min Scan# 305  
Delta R.T. -0.030 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

Tgt Ion: 59 Resp: 429  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

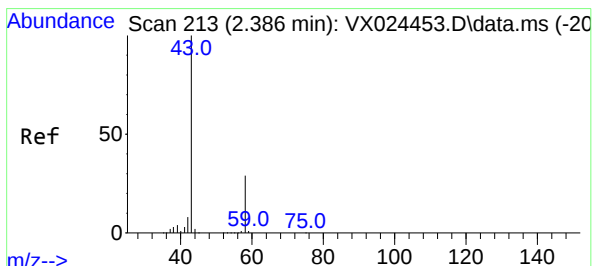
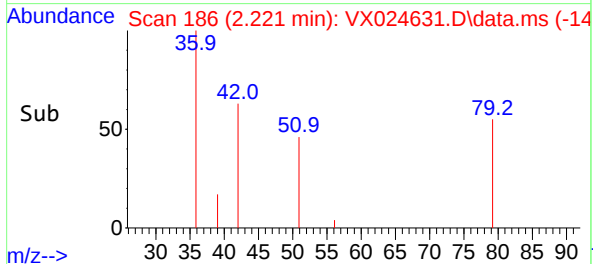
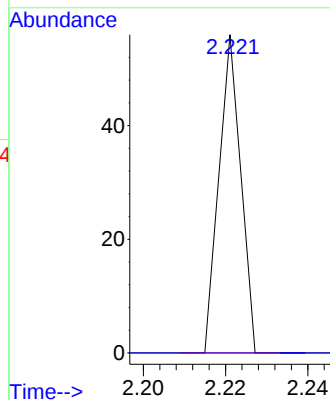
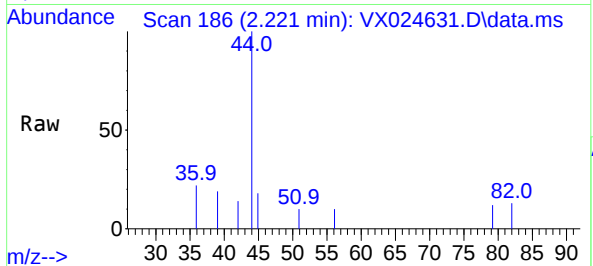




#13  
Acrolein  
Concen: 10.26 ug/l  
RT: 2.221 min Scan# 186  
Delta R.T. -0.018 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

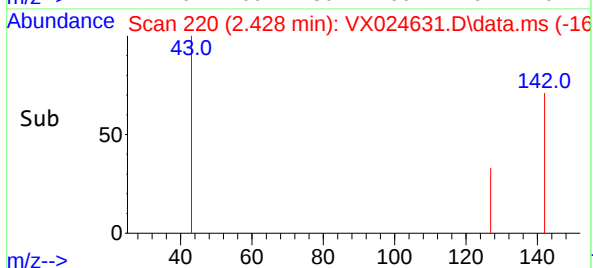
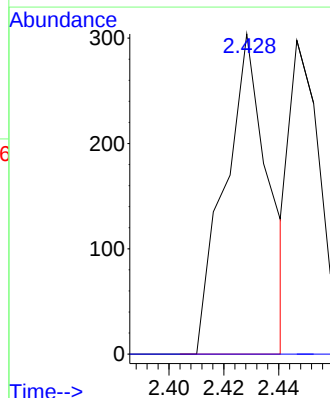
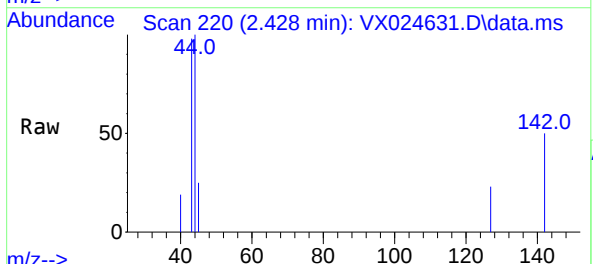
Instrument :  
MSVOA\_X  
ClientSampled :

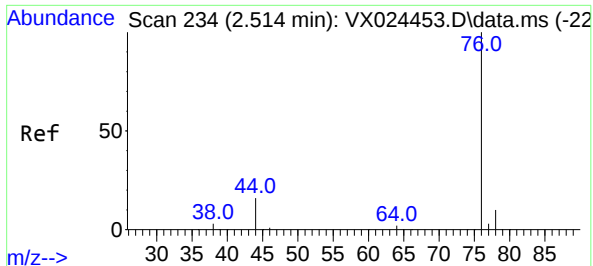
Tgt Ion: 56 Resp: 20  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.4 84.6#



#16  
Acetone  
Concen: Below Cal  
RT: 2.428 min Scan# 220  
Delta R.T. 0.042 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

Tgt Ion: 43 Resp: 336  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.8 41.8#

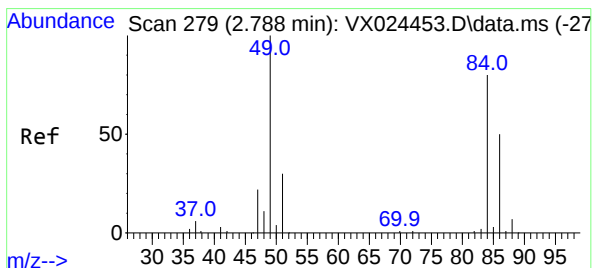
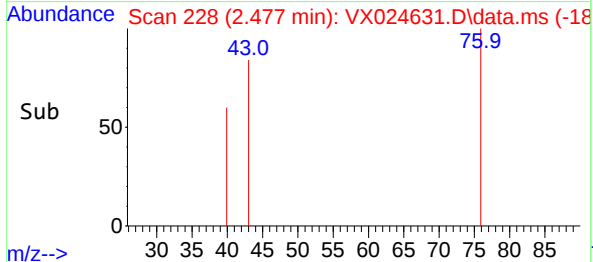
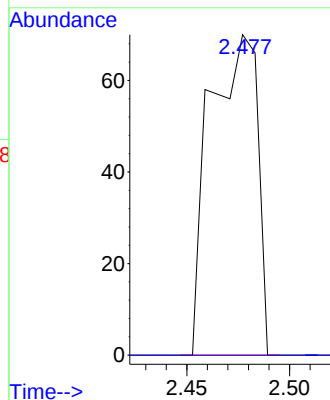
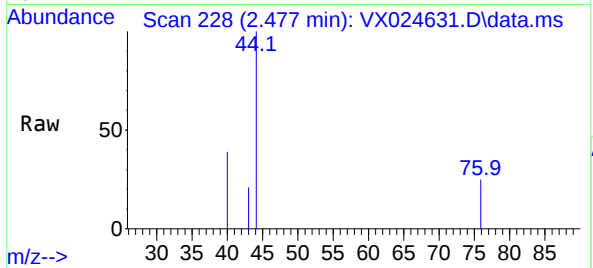




#17  
Carbon Disulfide  
Concen: 0.27 ug/l  
RT: 2.477 min Scan# 228  
Delta R.T. -0.037 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

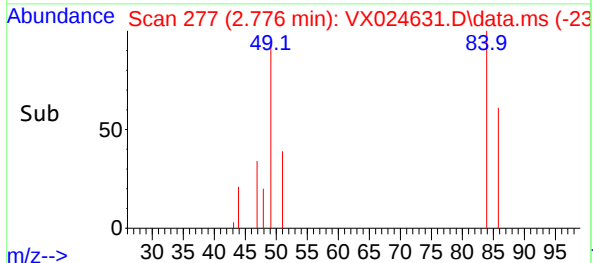
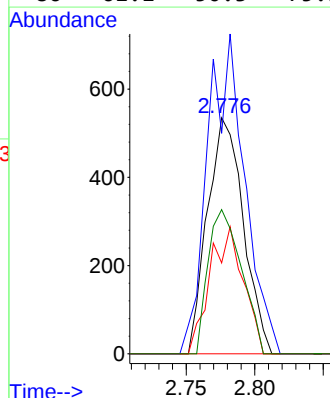
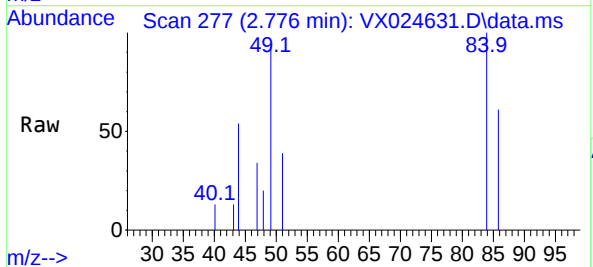
Instrument :  
MSVOA\_X  
ClientSampled :

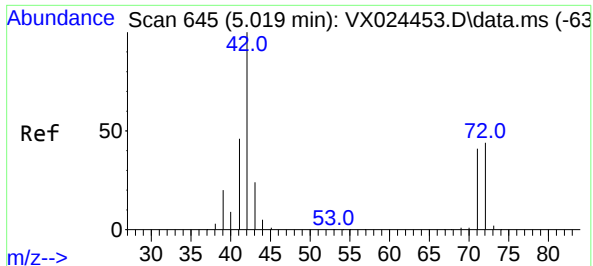
Tgt Ion: 76 Resp: 112  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.776 min Scan# 277  
Delta R.T. -0.012 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

Tgt Ion: 84 Resp: 976  
Ion Ratio Lower Upper  
84 100  
49 93.5 88.6 132.8  
51 38.5 27.0 40.6  
86 61.1 50.3 75.5





#29

Tetrahydrofuran

Concen: 1.28 ug/l

RT: 5.068 min Scan# 653

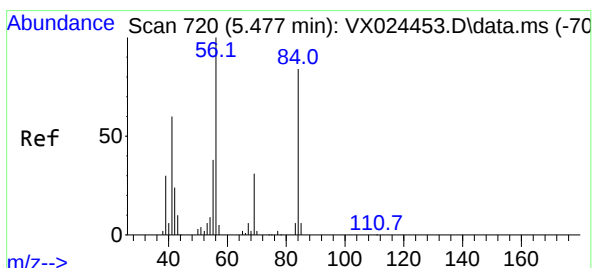
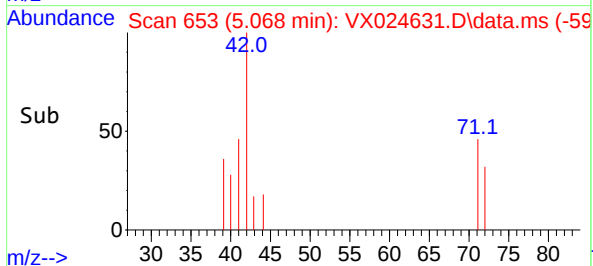
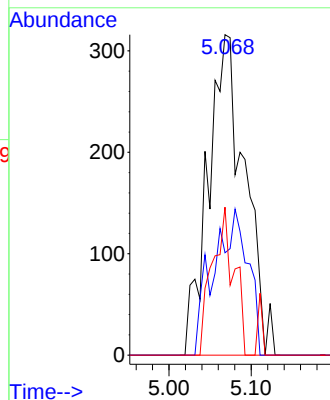
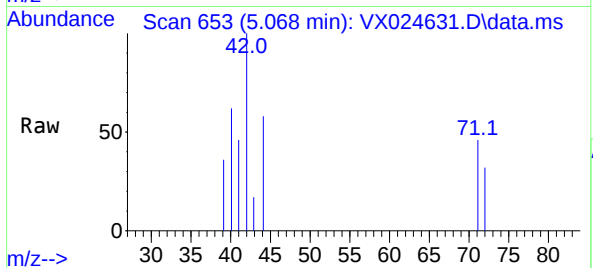
Delta R.T. 0.049 min

Lab File: VX024631.D

Acq: 06 Oct 2021 20:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 986   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 42.5  | 41.7  | 62.5  |
| 71       | 27.3  | 38.4  | 57.6# |

Instrument :  
MSVOA\_X  
ClientSampleId :



#31

Cyclohexane

Concen: 1.31 ug/l

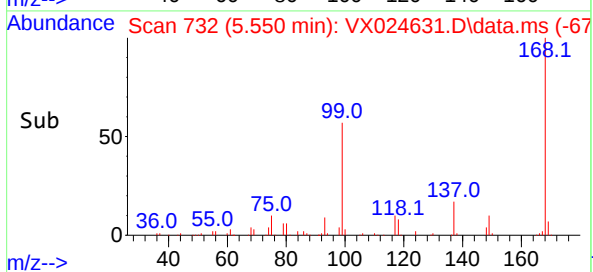
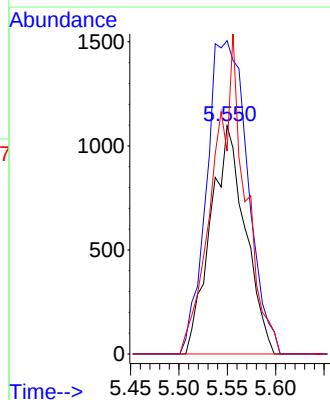
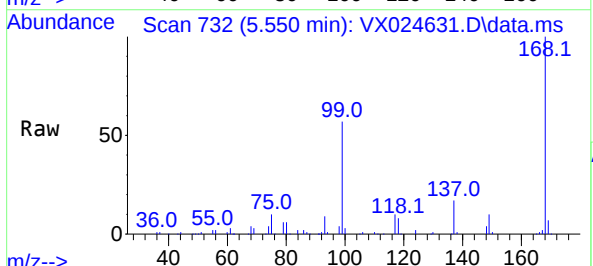
RT: 5.550 min Scan# 732

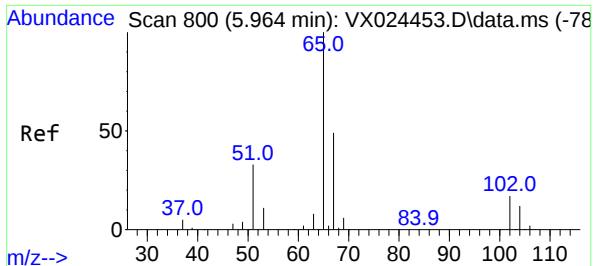
Delta R.T. 0.073 min

Lab File: VX024631.D

Acq: 06 Oct 2021 20:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 2741  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 137.3 | 25.3  | 37.9# |
| 84       | 88.9  | 71.4  | 107.0 |



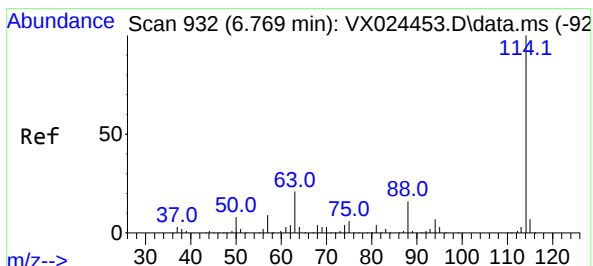
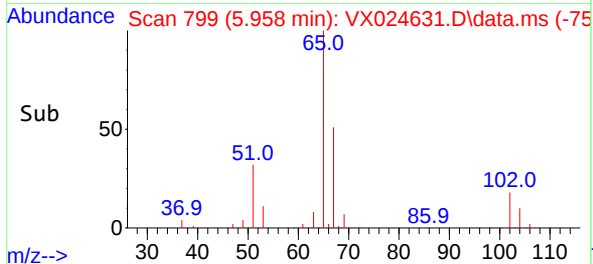
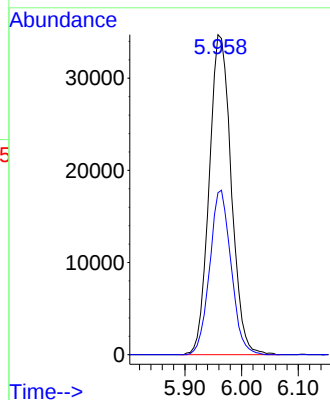
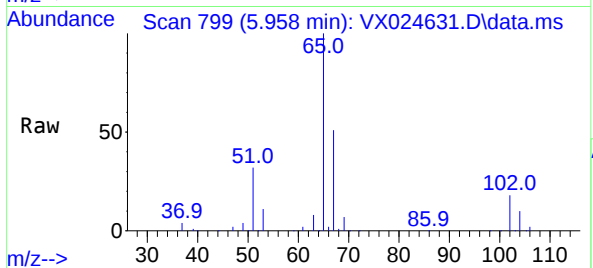


#33

1,2-Dichloroethane-d4  
Concen: 53.50 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.006 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

Instrument :  
MSVOA\_X  
ClientSampleId :

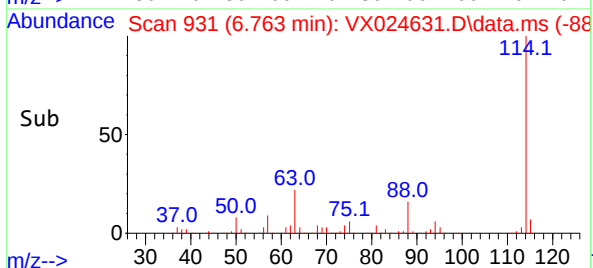
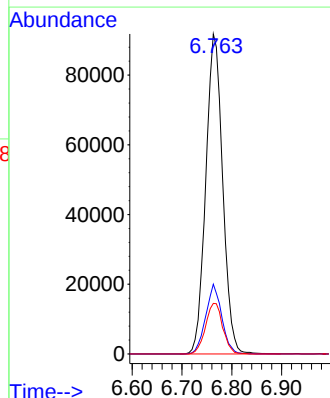
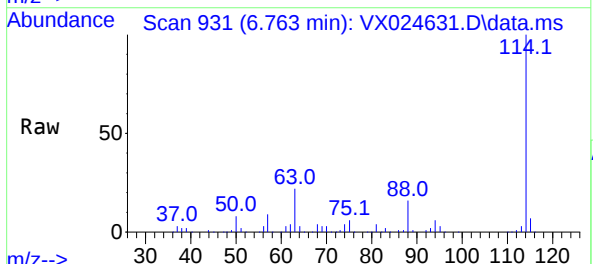
Tgt Ion: 65 Resp: 93825  
Ion Ratio Lower Upper  
65 100  
67 49.9 0.0 105.4

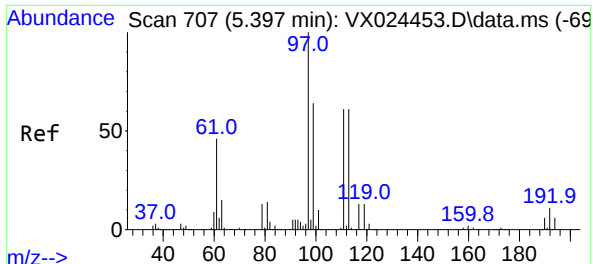


#34

1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.763 min Scan# 931  
Delta R.T. -0.006 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

Tgt Ion: 114 Resp: 216148  
Ion Ratio Lower Upper  
114 100  
63 21.8 0.0 40.8  
88 15.8 0.0 32.8

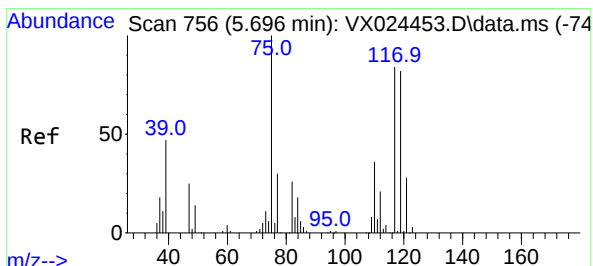
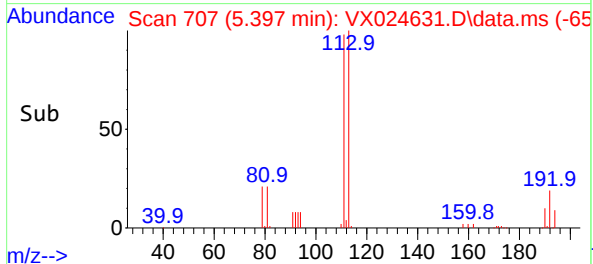
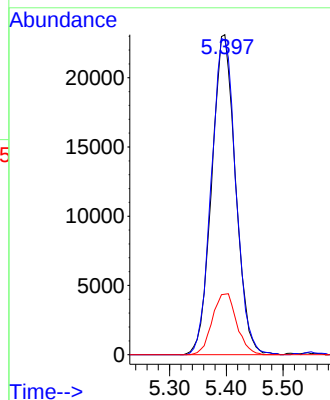
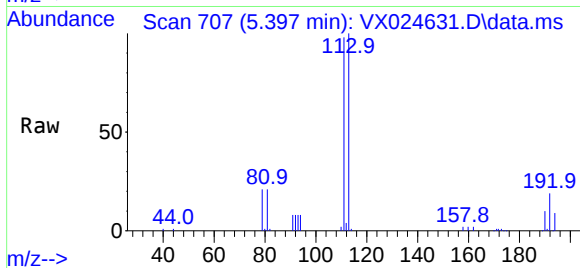




#35  
Dibromofluoromethane  
Concen: 46.88 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

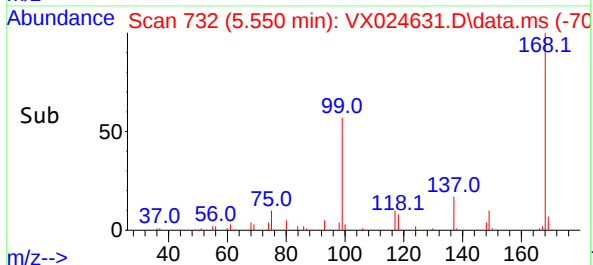
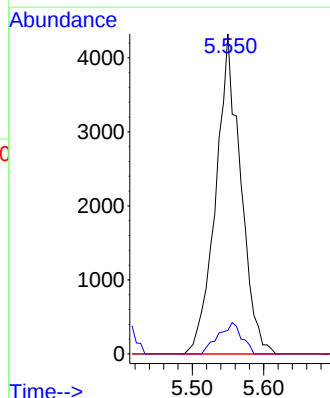
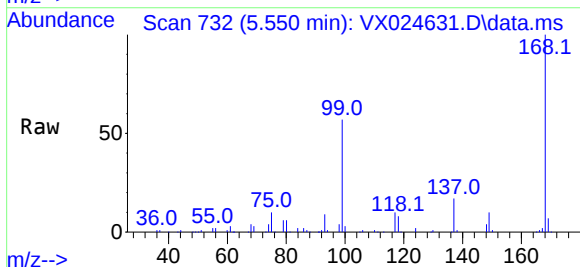
Instrument :  
MSVOA\_X  
ClientSampleId :

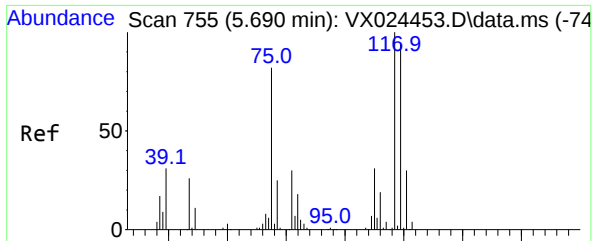
Tgt Ion:113 Resp: 67316  
Ion Ratio Lower Upper  
113 100  
111 101.5 81.9 122.9  
192 19.5 16.7 25.1



#36  
1,1-Dichloropropene  
Concen: 5.04 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.146 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

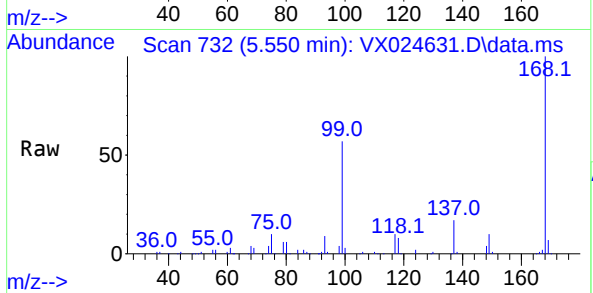
Tgt Ion: 75 Resp: 10451  
Ion Ratio Lower Upper  
75 100  
110 9.2 18.1 54.4#  
77 0.0 25.3 37.9#



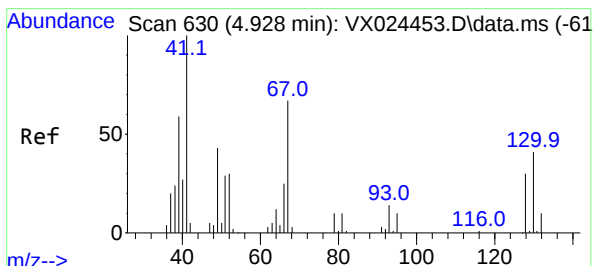
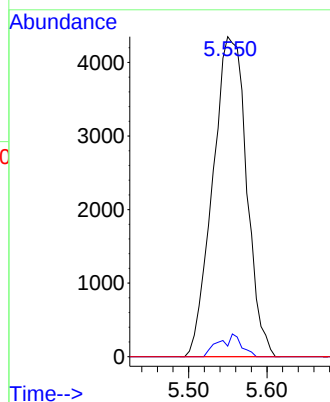
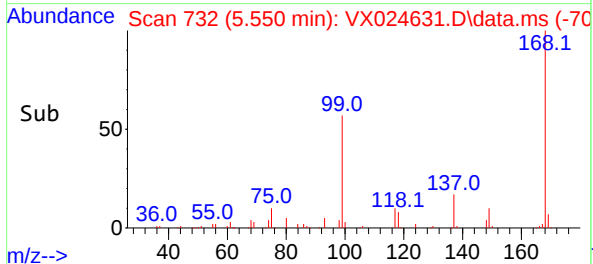


#38  
Carbon Tetrachloride  
Concen: 5.79 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.140 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

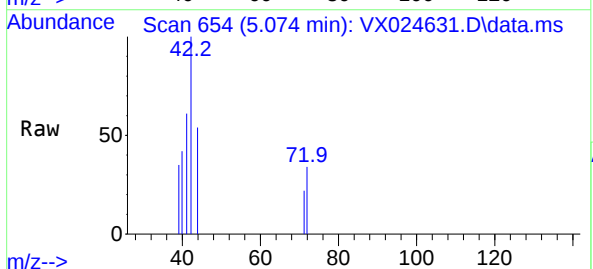
Instrument :  
MSVOA\_X  
ClientSampleId :



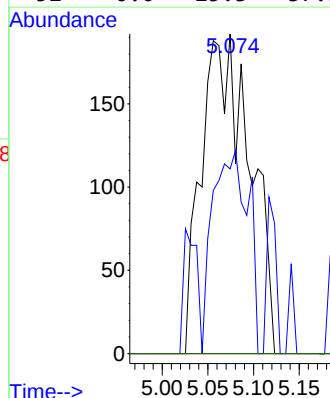
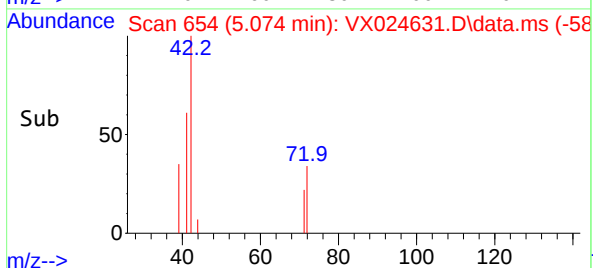
Tgt Ion:117 Resp: 13051  
Ion Ratio Lower Upper  
117 100  
119 3.3 76.2 114.2#  
121 0.0 24.8 37.2#

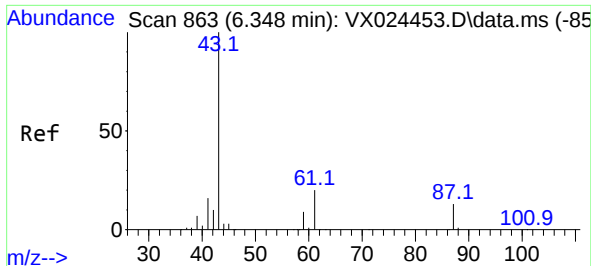


#41  
Methacrylonitrile  
Concen: 0.53 ug/l  
RT: 5.074 min Scan# 654  
Delta R.T. 0.146 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29



Tgt Ion: 41 Resp: 706  
Ion Ratio Lower Upper  
41 100  
39 46.5 42.5 63.7  
67 0.0 65.0 97.6#  
52 0.0 25.3 37.9#

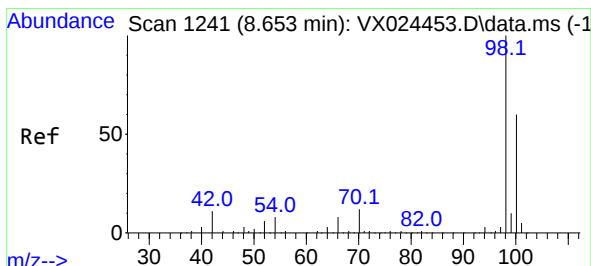
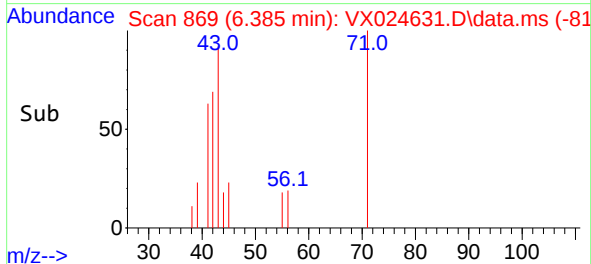
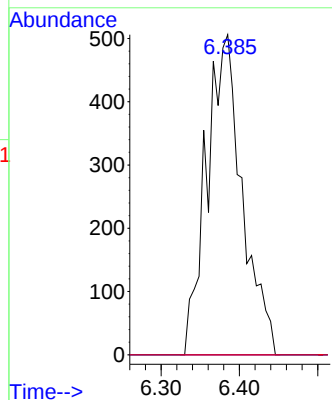
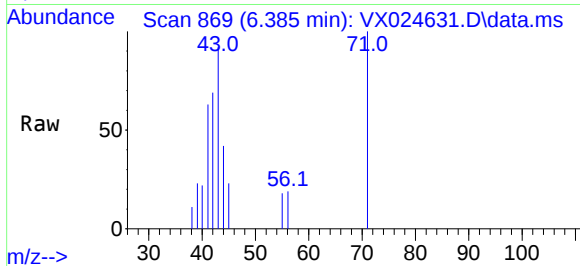




#43  
Isopropyl Acetate  
Concen: 0.41 ug/l  
RT: 6.385 min Scan# 869  
Delta R.T. 0.037 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

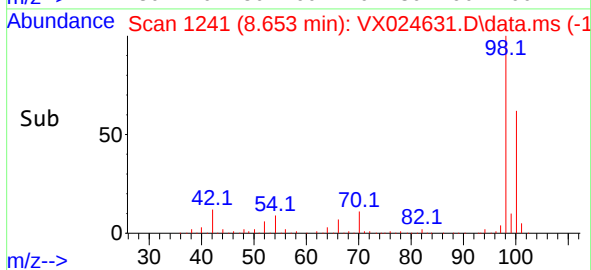
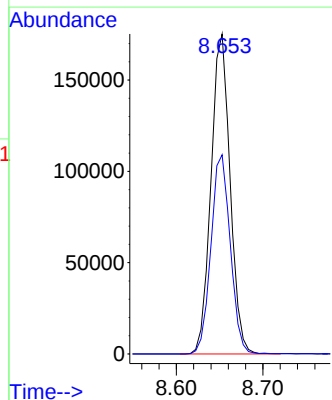
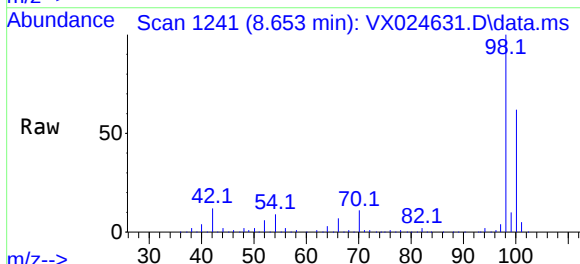
Instrument :  
MSVOA\_X  
ClientSampled :

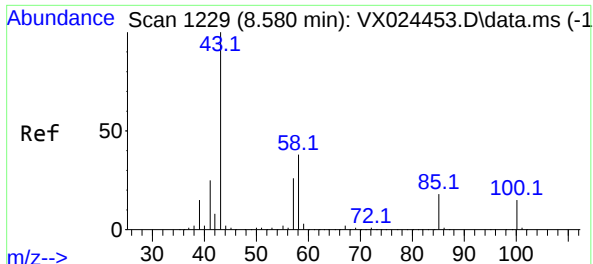
Tgt Ion: 43 Resp: 1601  
Ion Ratio Lower Upper  
43 100  
61 0.0 18.2 27.4#  
87 0.0 12.5 18.7#



#50  
Toluene-d8  
Concen: 50.70 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

Tgt Ion: 98 Resp: 267932  
Ion Ratio Lower Upper  
98 100  
100 63.1 51.9 77.9

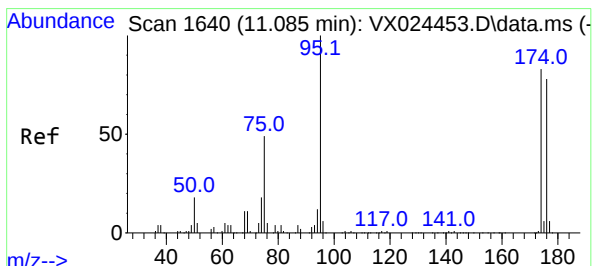
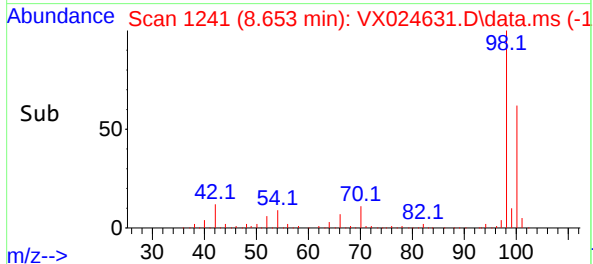
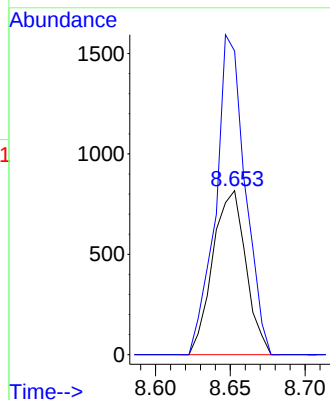
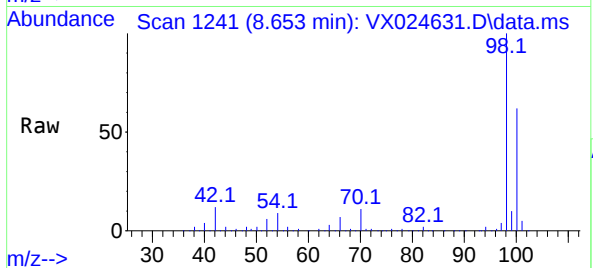




#51  
4-Methyl-2-Pentanone  
Concen: 0.48 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.073 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

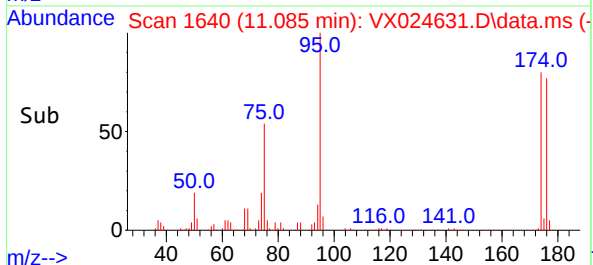
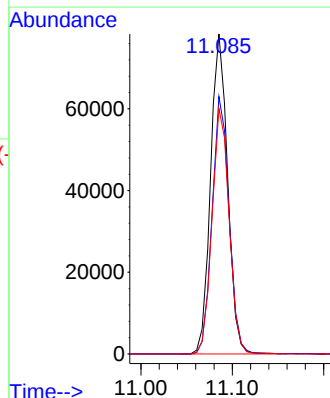
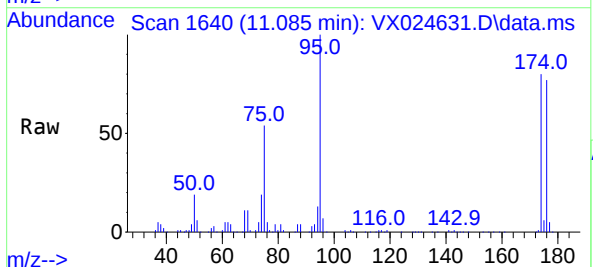
Instrument :  
MSVOA\_X  
ClientSampled :

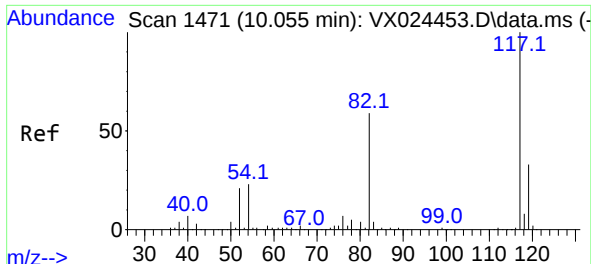
Tgt Ion: 43 Resp: 1257  
Ion Ratio Lower Upper  
43 100  
58 174.3 35.4 53.0#



#62  
4-Bromofluorobenzene  
Concen: 48.65 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

Tgt Ion: 95 Resp: 101091  
Ion Ratio Lower Upper  
95 100  
174 80.1 0.0 154.6  
176 76.9 0.0 155.8

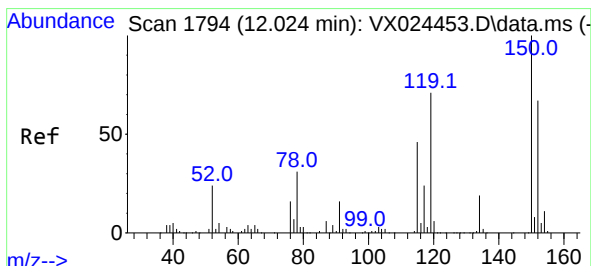
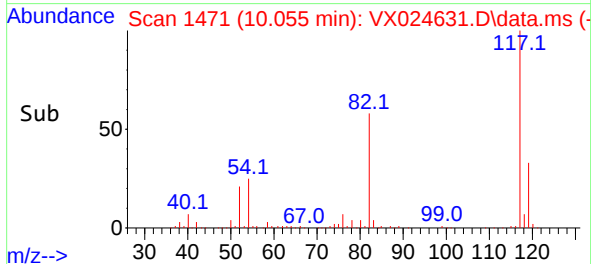
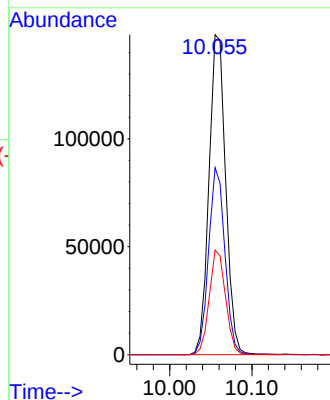
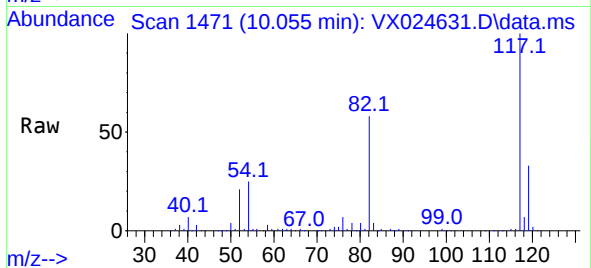




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

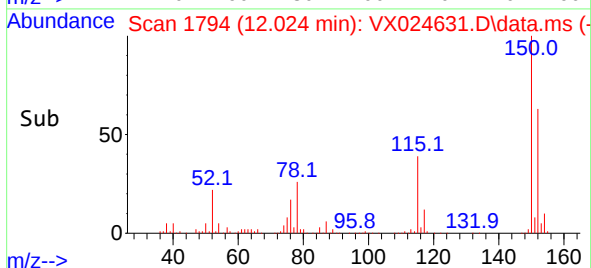
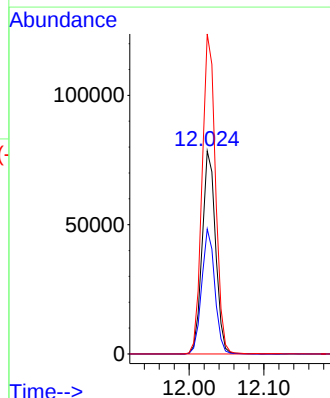
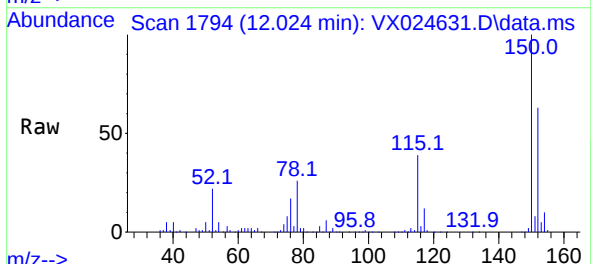
Instrument :  
MSVOA\_X  
ClientSampled :

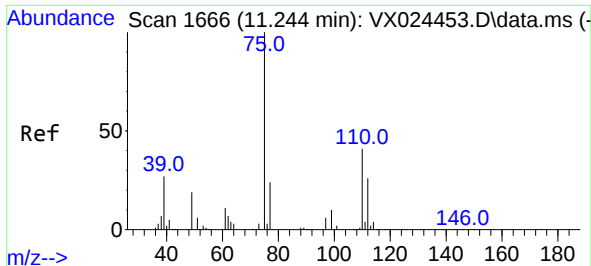
Tgt Ion:117 Resp: 209457  
Ion Ratio Lower Upper  
117 100  
82 58.4 47.4 71.2  
119 32.7 26.6 39.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

Tgt Ion:152 Resp: 97625  
Ion Ratio Lower Upper  
152 100  
115 60.2 41.1 123.3  
150 157.7 0.0 349.0

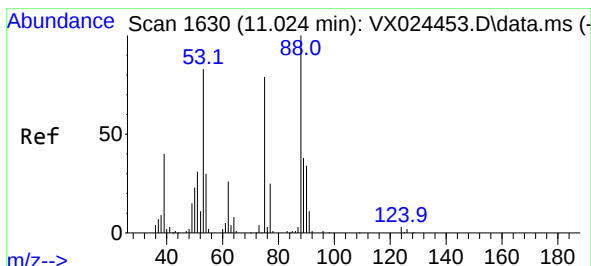
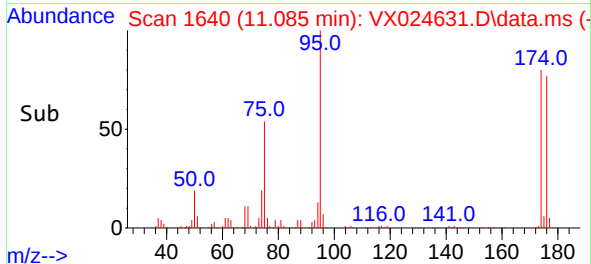
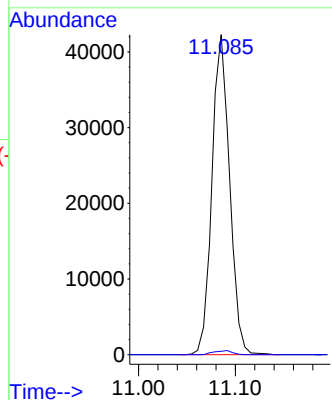
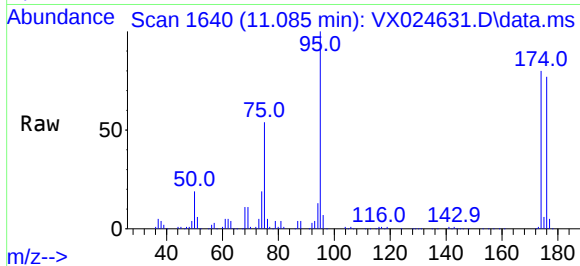




#76  
1,2,3-Trichloropropane  
Concen: 24.14 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion: 75 Resp: 53516  
Ion Ratio Lower Upper  
75 100  
77 1.4 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 65.89 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX024631.D  
Acq: 06 Oct 2021 20:29

Tgt Ion: 75 Resp: 53516  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

