

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100821\  
 Data File : VX024674.D  
 Acq On : 08 Oct 2021 16:47  
 Operator : JC/MD  
 Sample : M4131-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 08 17:12:55 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

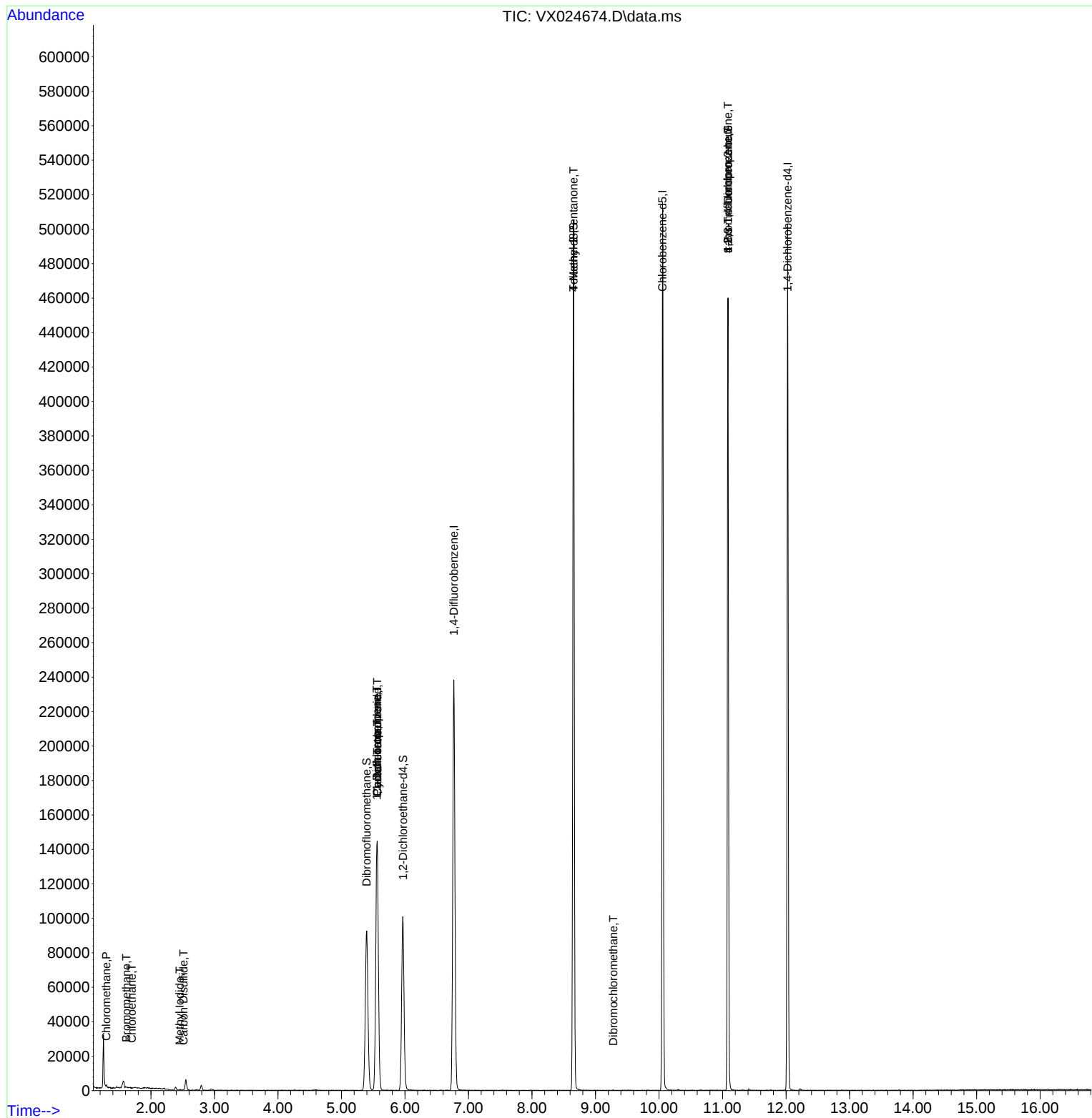
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 5.562  | 168   | 137094   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 236488   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 226530   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 101020   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.970  | 65    | 99785    | 51.644    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | = 103.280% |          |
| 35) Dibromofluoromethane      | 5.397  | 113   | 80125    | 51.001    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 102.000% |          |
| 50) Toluene-d8                | 8.653  | 98    | 288473   | 49.889    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | = 99.780%  |          |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 114541   | 50.381    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 100.760% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 1.294  | 50    | 496      | 0.381     | ug/l #     | 84       |
| 5) Bromomethane               | 1.611  | 94    | 356      | 0.389     | ug/l       | 91       |
| 6) Chloroethane               | 1.697  | 64    | 210      | 0.489     | ug/l #     | 43       |
| 10) Methyl Iodide             | 2.453  | 142   | 398      | 0.210     | ug/l #     | 81       |
| 11) Tert butyl alcohol        | 2.940  | 59    | 578      | Below Cal | #          | 73       |
| 16) Acetone                   | 2.386  | 43    | 1885     | Below Cal |            | 89       |
| 17) Carbon Disulfide          | 2.514  | 76    | 403      | 0.352     | ug/l #     | 75       |
| 20) Methylene Chloride        | 2.788  | 84    | 1273     | Below Cal |            | 94       |
| 31) Cyclohexane               | 5.562  | 56    | 2801     | 1.211     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 10632    | 4.690     | ug/l #     | 51       |
| 38) Carbon Tetrachloride      | 5.562  | 117   | 14266    | 5.781     | ug/l #     | 15       |
| 51) 4-Methyl-2-Pentanone      | 8.653  | 43    | 1370     | 0.482     | ug/l #     | 1        |
| 60) Dibromochloromethane      | 9.281  | 129   | 27       | 1.201     | ug/l #     | 11       |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 61926    | 26.994    | ug/l #     | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 61926    | 73.456    | ug/l #     | 12       |
| -----                         |        |       |          |           |            |          |

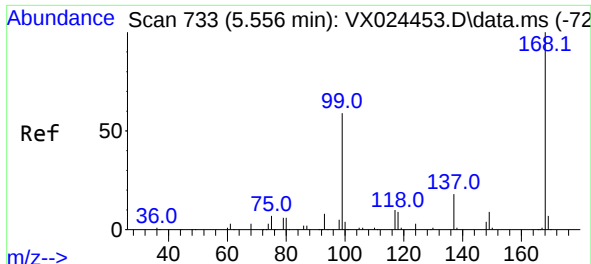
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M4131-05  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Oct 08 17:12:55 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

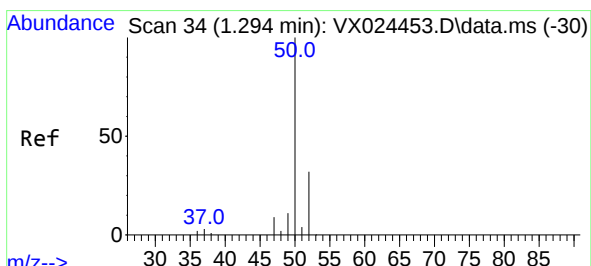
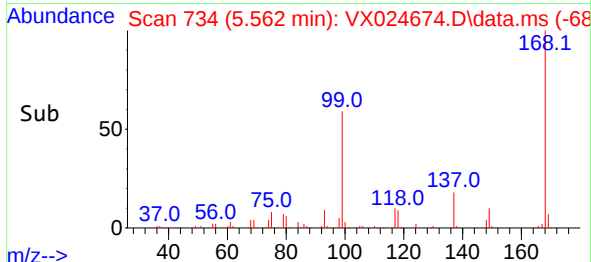
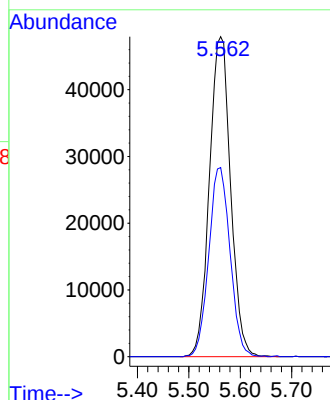
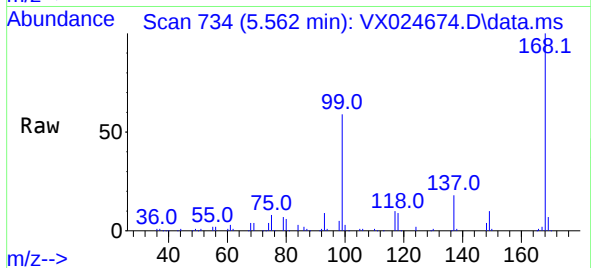




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.006 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

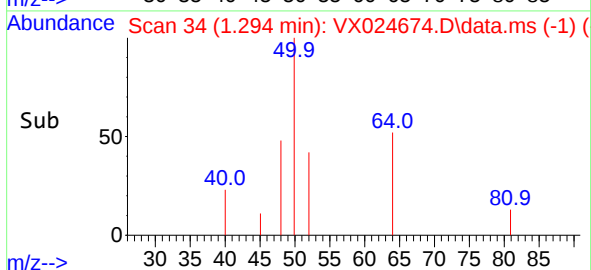
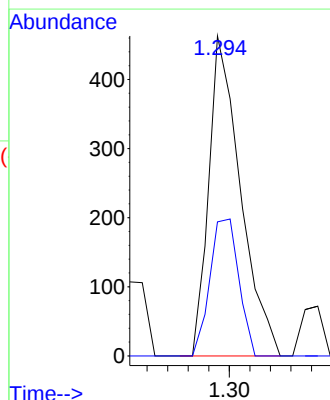
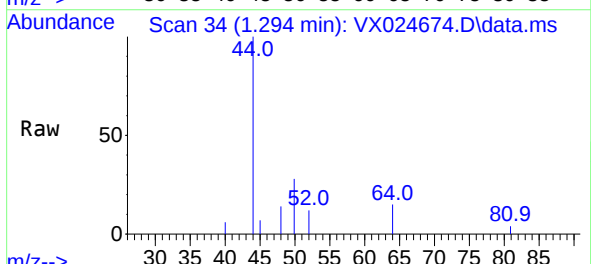
Instrument :  
MSVOA\_X  
ClientSampleId :

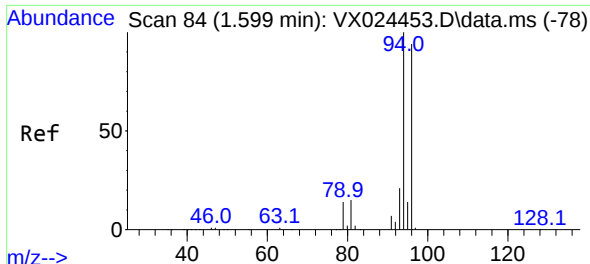
Tgt Ion:168 Resp: 137094  
Ion Ratio Lower Upper  
168 100  
99 59.1 45.8 68.6



#3  
Chloromethane  
Concen: 0.381 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. 0.000 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

Tgt Ion: 50 Resp: 496  
Ion Ratio Lower Upper  
50 100  
52 41.9 26.4 39.6#

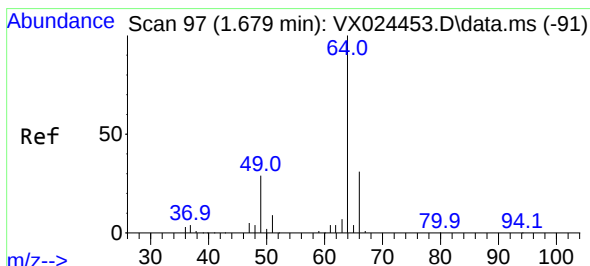
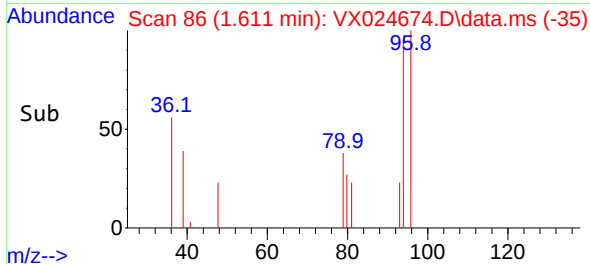
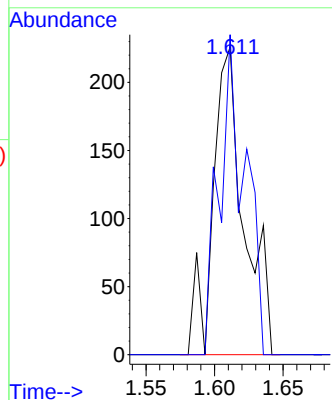
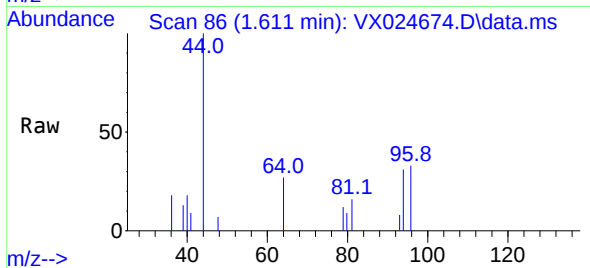




#5  
Bromomethane  
Concen: 0.389 ug/l  
RT: 1.611 min Scan# 86  
Delta R.T. 0.012 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

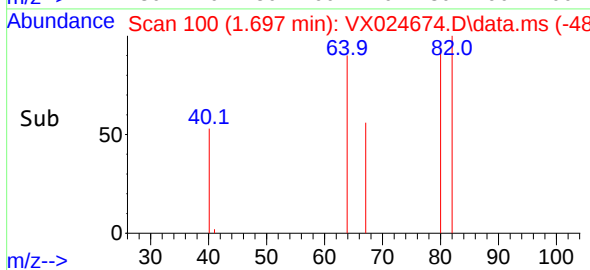
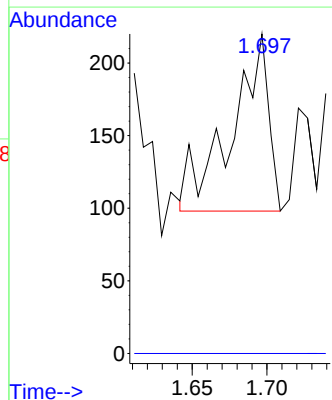
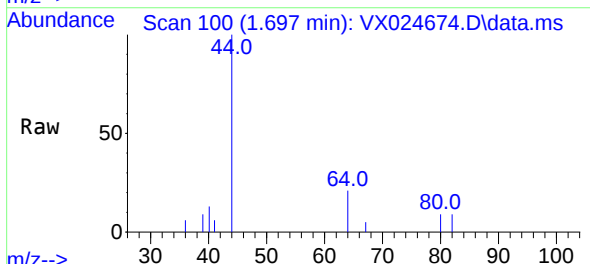
Instrument :  
MSVOA\_X  
ClientSampleId :

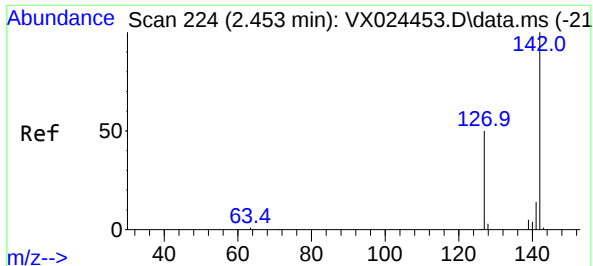
Tgt Ion: 94 Resp: 356  
Ion Ratio Lower Upper  
94 100  
96 104.0 76.4 114.6



#6  
Chloroethane  
Concen: 0.489 ug/l  
RT: 1.697 min Scan# 100  
Delta R.T. 0.018 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

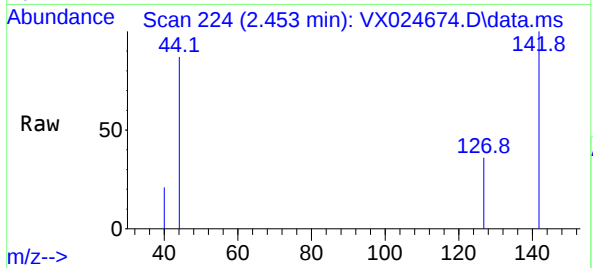
Tgt Ion: 64 Resp: 210  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.0#



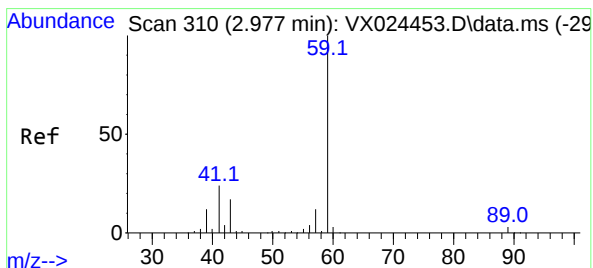
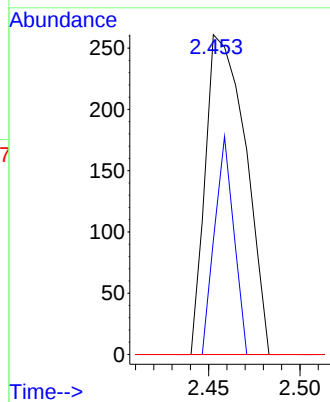
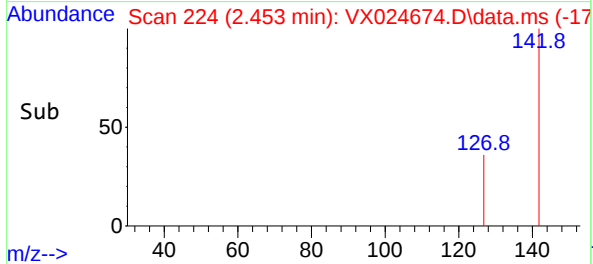


#10  
Methyl Iodide  
Concen: 0.210 ug/l  
RT: 2.453 min Scan# 224  
Delta R.T. -0.000 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

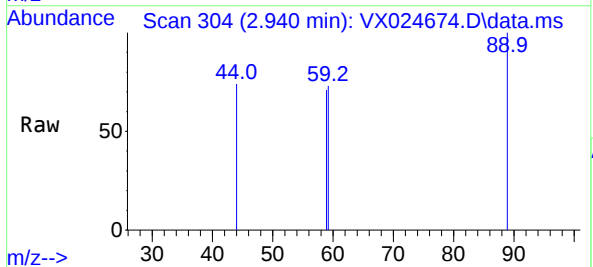
Instrument :  
MSVOA\_X  
ClientSampled :



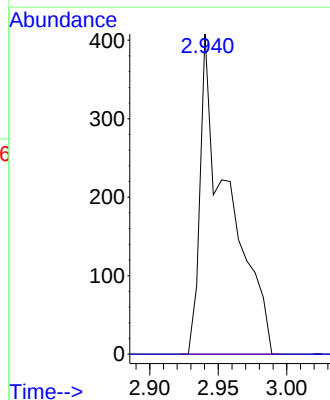
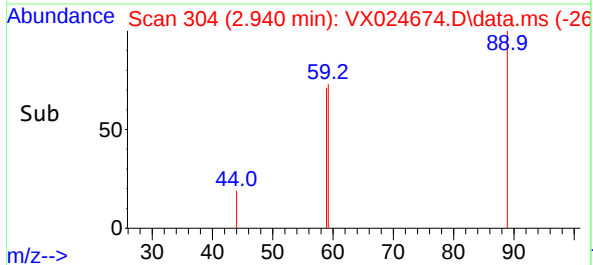
Tgt Ion:142 Resp: 398  
Ion Ratio Lower Upper  
142 100  
127 32.9 33.3 49.9#  
141 0.0 11.4 17.0#

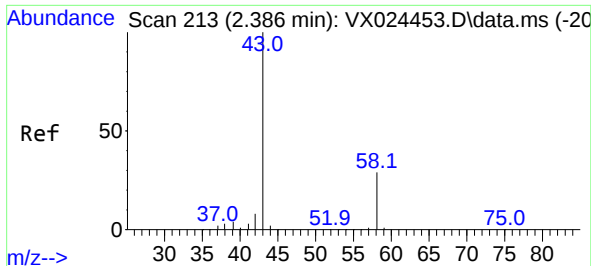


#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.940 min Scan# 304  
Delta R.T. -0.037 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47



Tgt Ion: 59 Resp: 578  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

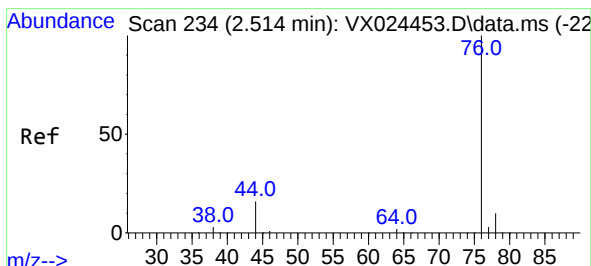
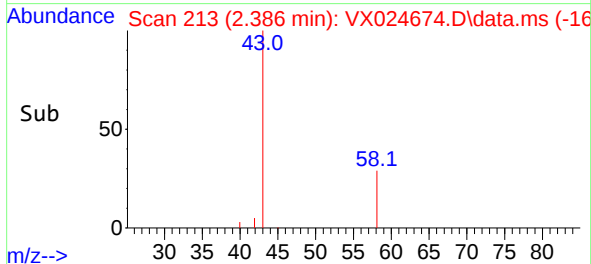
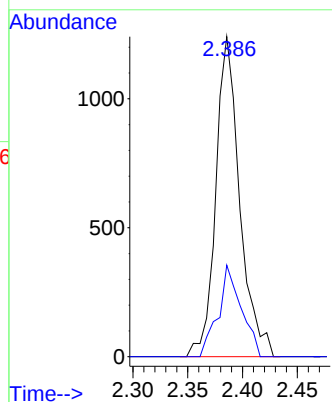
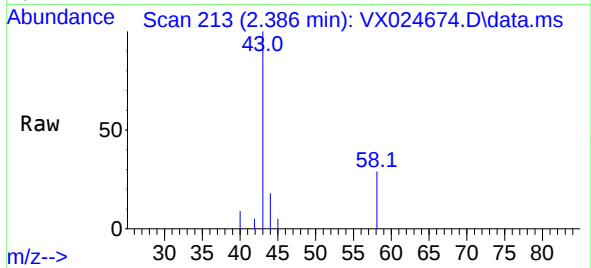




#16  
Acetone  
Concen: Below Cal  
RT: 2.386 min Scan# 213  
Delta R.T. -0.000 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

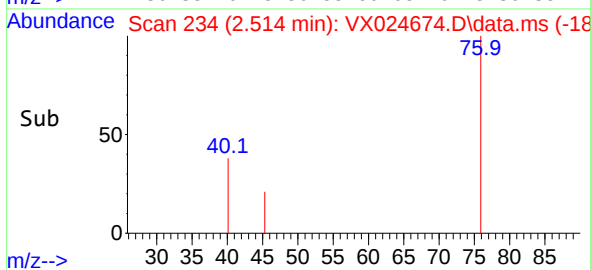
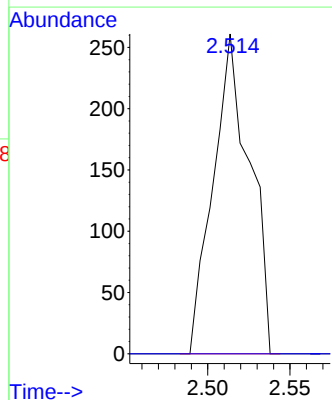
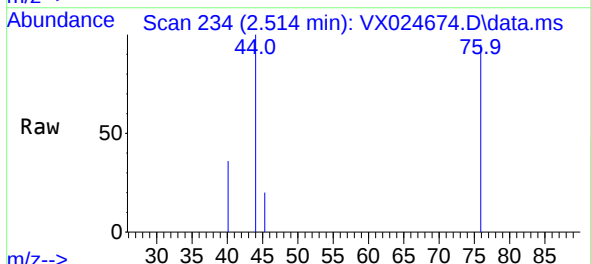
Instrument :  
MSVOA\_X  
ClientSampled :

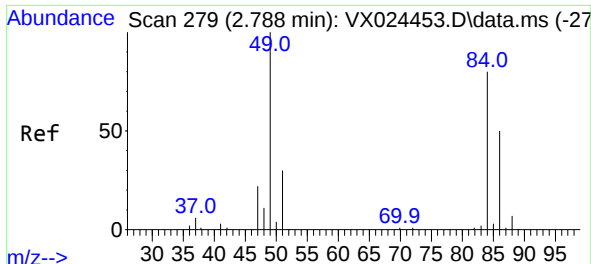
Tgt Ion: 43 Resp: 1885  
Ion Ratio Lower Upper  
43 100  
58 28.6 27.8 41.8



#17  
Carbon Disulfide  
Concen: 0.352 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. -0.000 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

Tgt Ion: 76 Resp: 403  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#



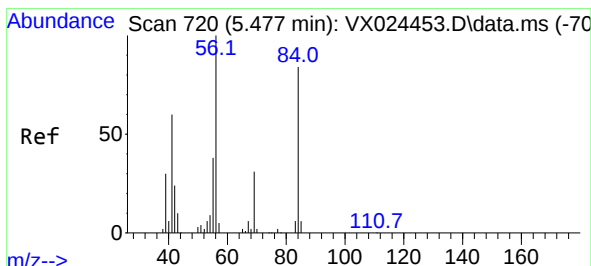
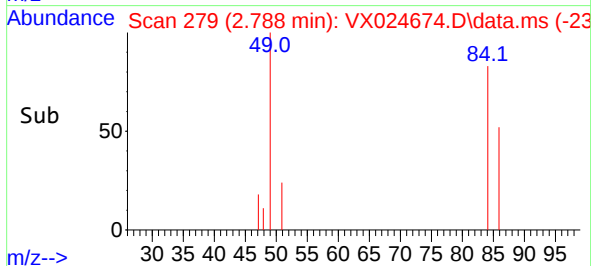
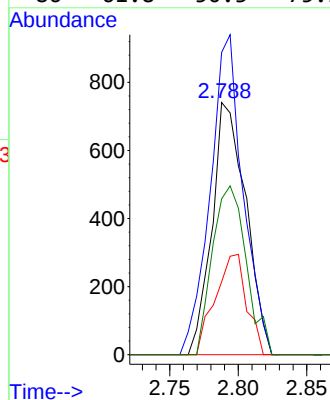
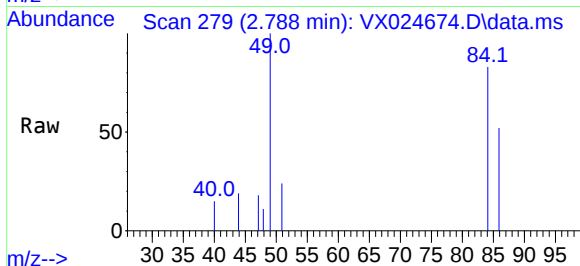


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.788 min Scan# 279  
Delta R.T. -0.000 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 84 Resp: 1273

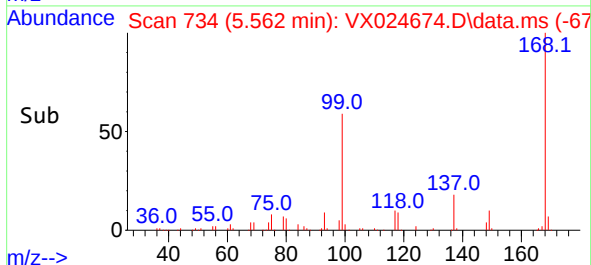
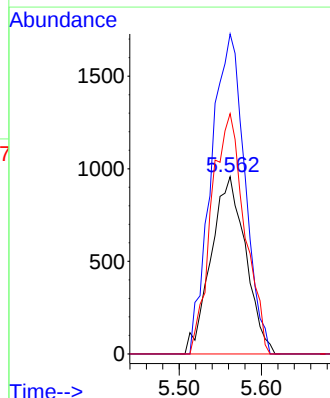
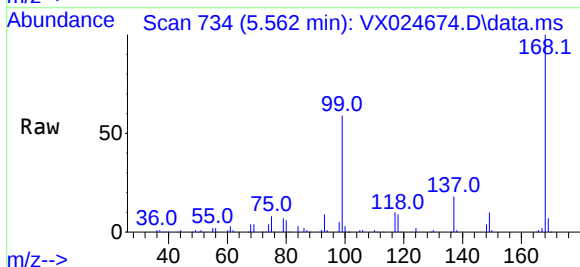
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 119.8 | 88.6  | 132.8 |
| 51  | 28.9  | 27.0  | 40.6  |
| 86  | 61.8  | 50.3  | 75.5  |

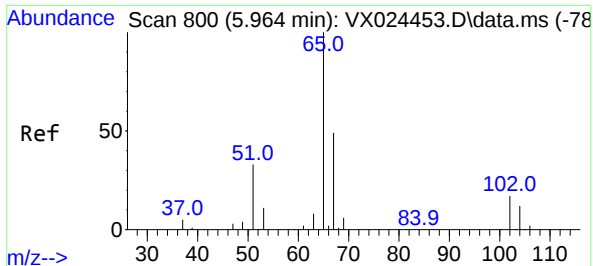


#31  
Cyclohexane  
Concen: 1.211 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.085 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

Tgt Ion: 56 Resp: 2801

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 180.6 | 25.3  | 37.9#  |
| 84  | 135.6 | 71.4  | 107.0# |



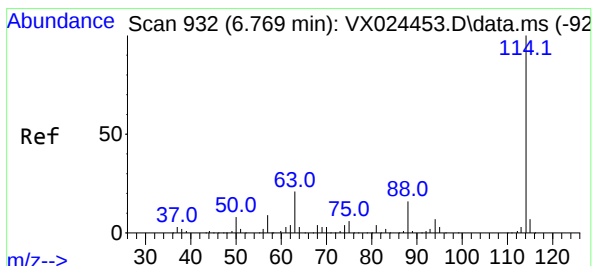
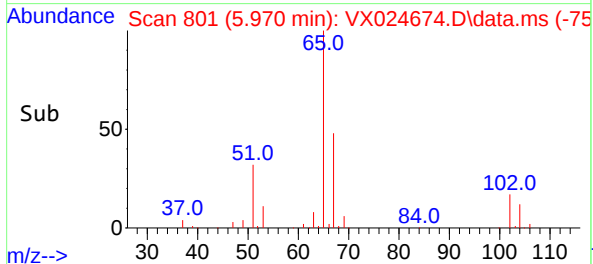
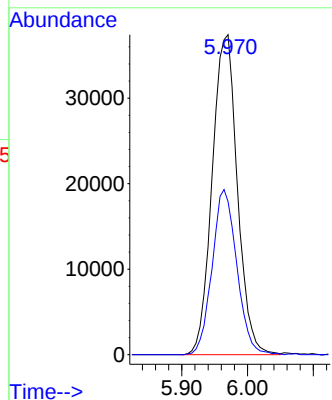
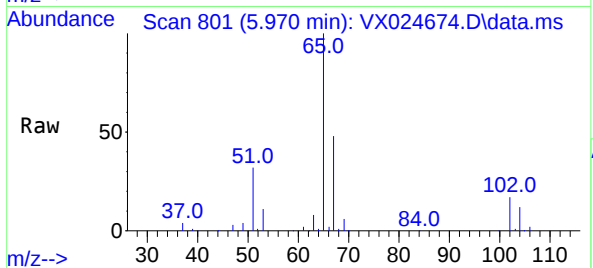


#33

1,2-Dichloroethane-d4  
Concen: 51.644 ug/l  
RT: 5.970 min Scan# 801  
Delta R.T. 0.006 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

Instrument :  
MSVOA\_X  
ClientSampled :

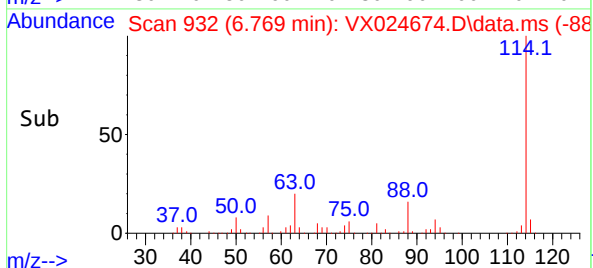
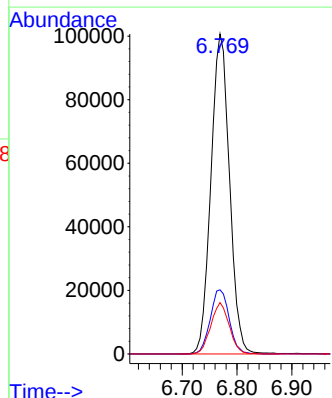
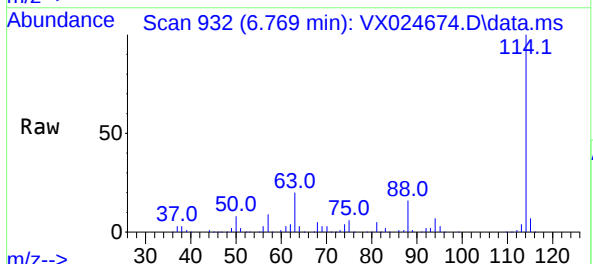
Tgt Ion: 65 Resp: 99785  
Ion Ratio Lower Upper  
65 100  
67 50.6 0.0 105.4

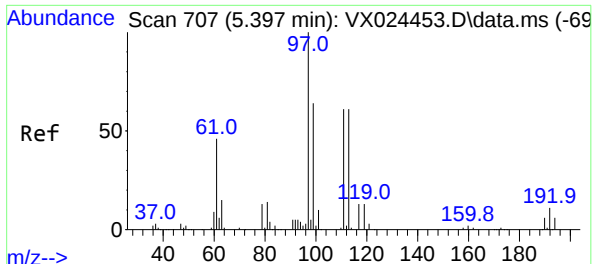


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. -0.000 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

Tgt Ion: 114 Resp: 236488  
Ion Ratio Lower Upper  
114 100  
63 20.1 0.0 40.8  
88 16.0 0.0 32.8

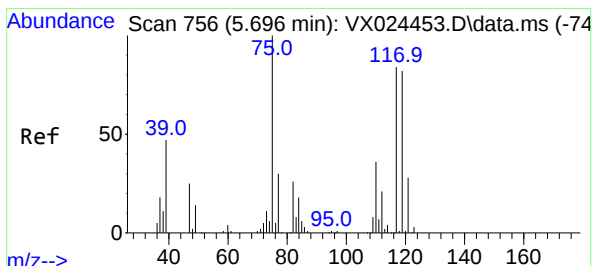
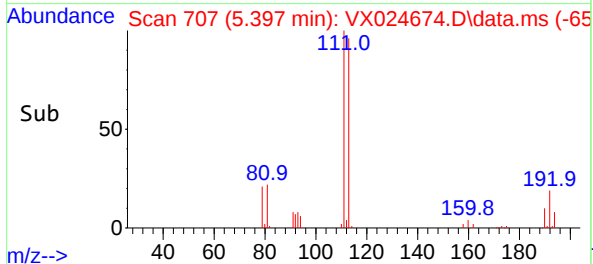
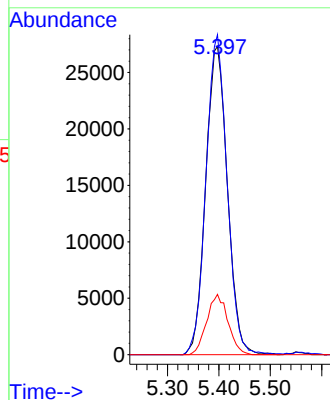
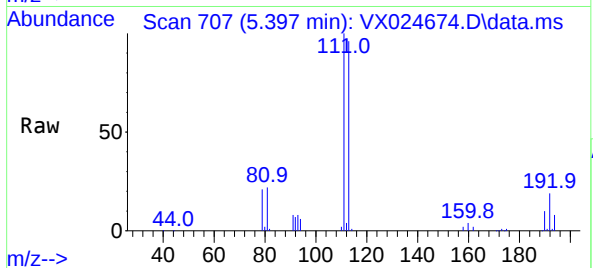




#35  
Dibromofluoromethane  
Concen: 51.001 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

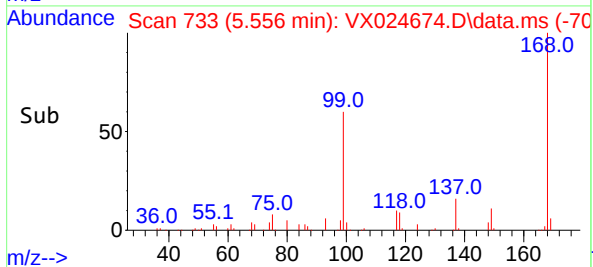
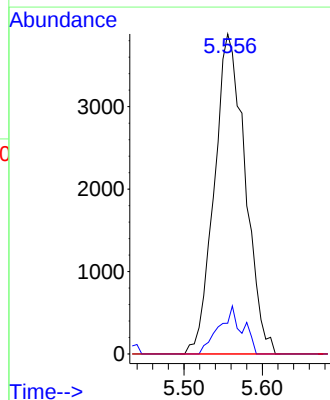
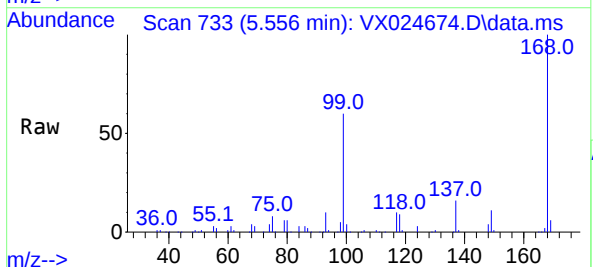
Instrument :  
MSVOA\_X  
ClientSampleId :

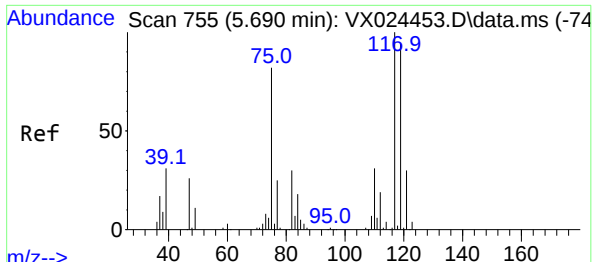
Tgt Ion:113 Resp: 80125  
Ion Ratio Lower Upper  
113 100  
111 100.9 81.9 122.9  
192 19.1 16.7 25.1



#36  
1,1-Dichloropropene  
Concen: 4.690 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.140 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

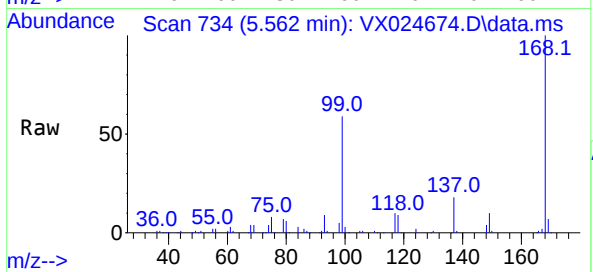
Tgt Ion: 75 Resp: 10632  
Ion Ratio Lower Upper  
75 100  
110 11.4 18.1 54.4#  
77 0.0 25.3 37.9#



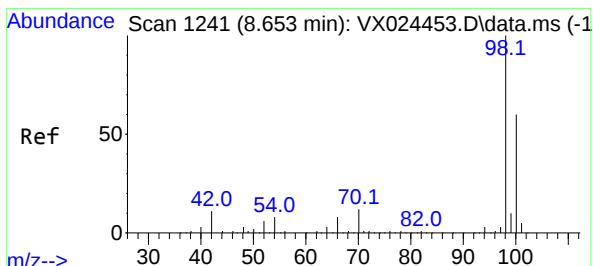
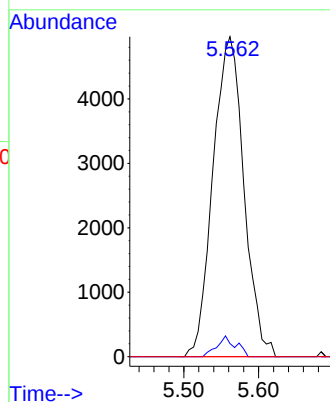
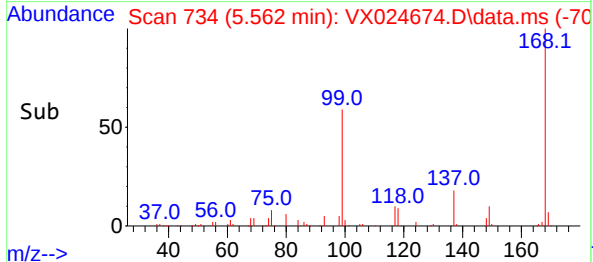


#38  
Carbon Tetrachloride  
Concen: 5.781 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.128 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

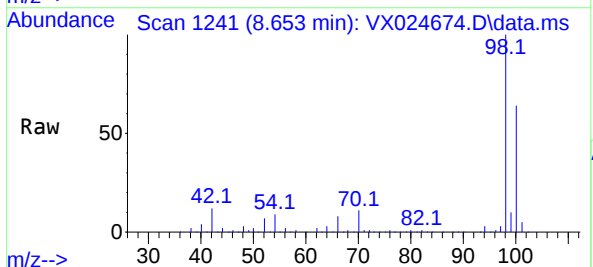
Instrument :  
MSVOA\_X  
ClientSampled :



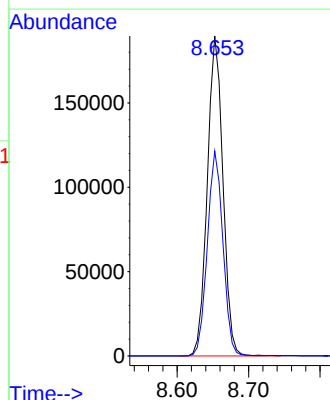
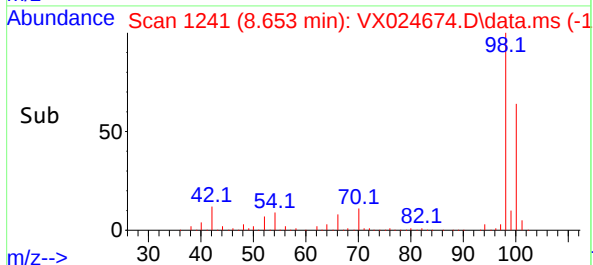
Tgt Ion:117 Resp: 14266  
Ion Ratio Lower Upper  
117 100  
119 4.1 76.2 114.2#  
121 0.0 24.8 37.2#

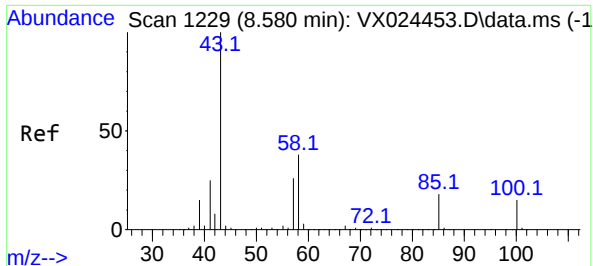


#50  
Toluene-d8  
Concen: 49.889 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47



Tgt Ion: 98 Resp: 288473  
Ion Ratio Lower Upper  
98 100  
100 63.7 51.9 77.9

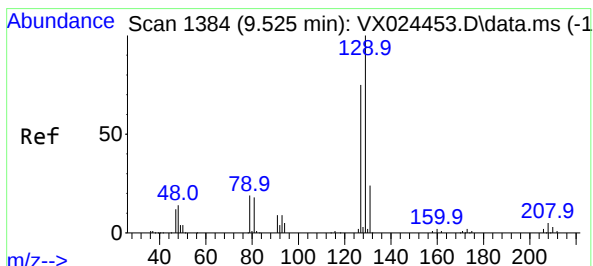
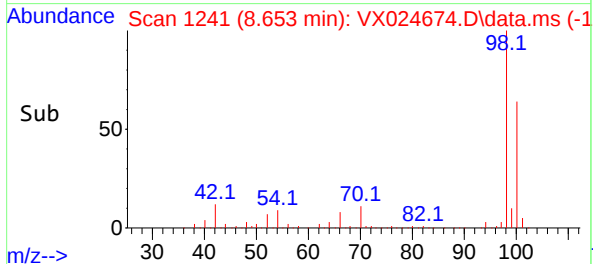
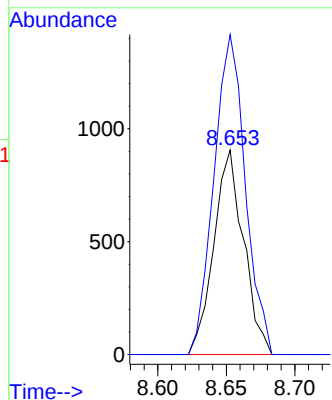
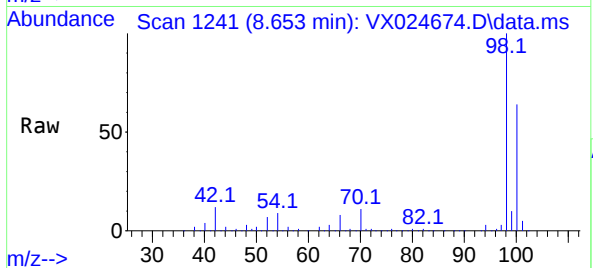




#51  
4-Methyl-2-Pentanone  
Concen: 0.482 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.073 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

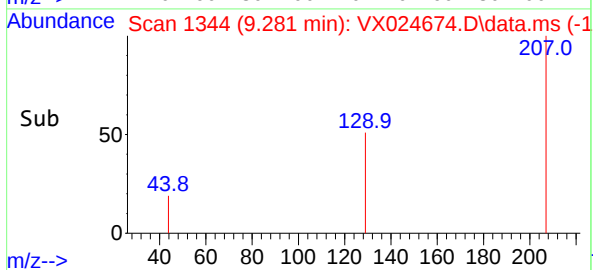
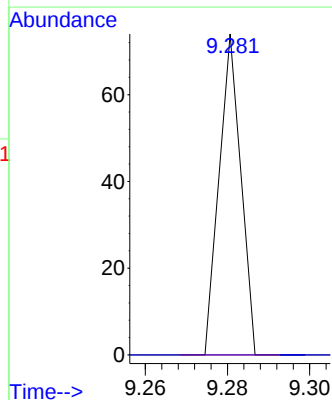
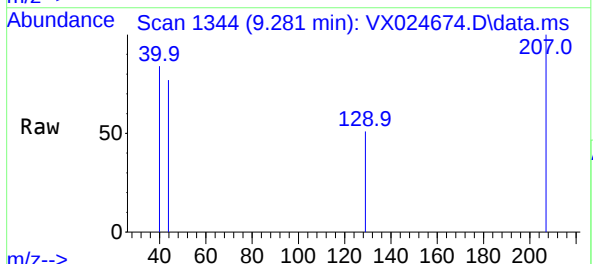
Instrument :  
MSVOA\_X  
ClientSampled :

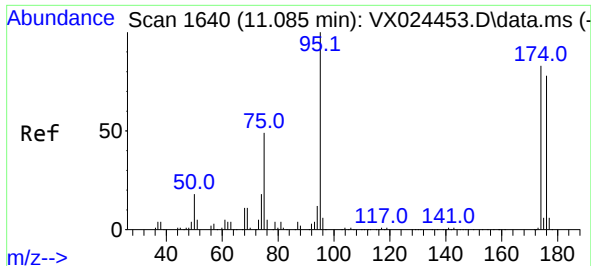
Tgt Ion: 43 Resp: 1370  
Ion Ratio Lower Upper  
43 100  
58 165.3 35.4 53.0#



#60  
Dibromochloromethane  
Concen: 1.201 ug/l  
RT: 9.281 min Scan# 1344  
Delta R.T. -0.244 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

Tgt Ion: 129 Resp: 27  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#

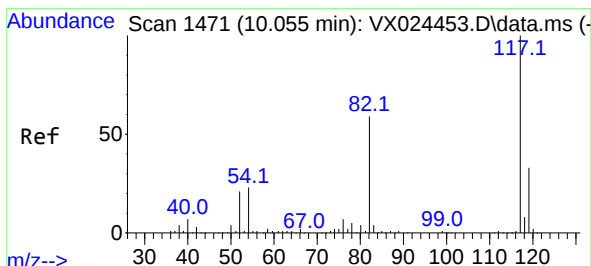
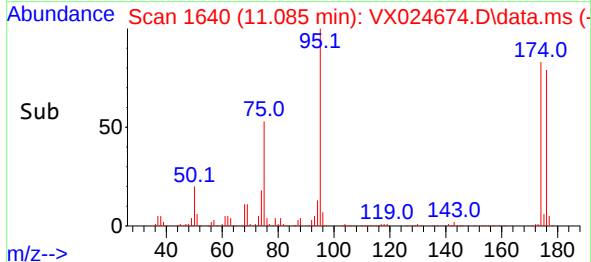
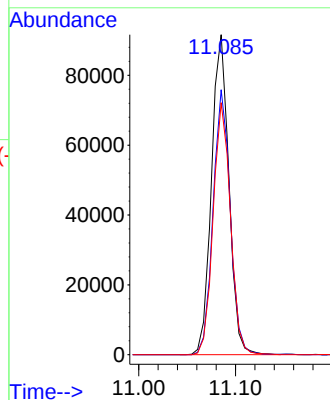
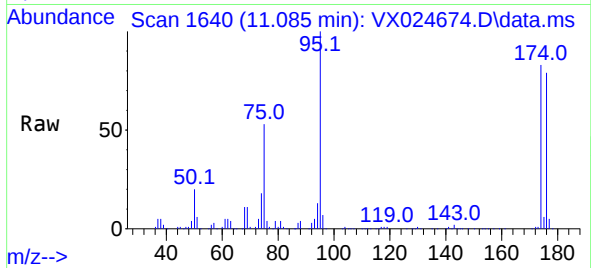




#62  
4-Bromofluorobenzene  
Concen: 50.381 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

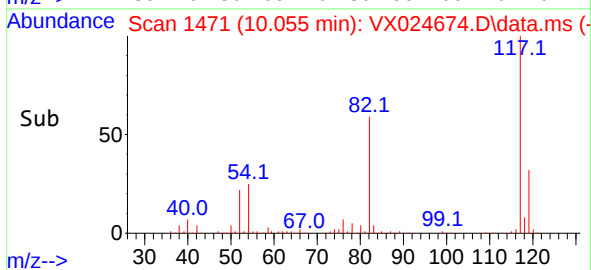
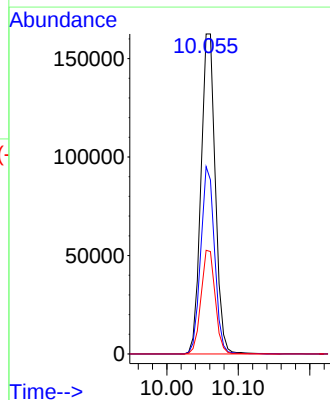
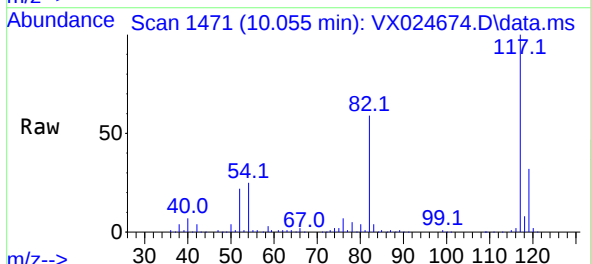
Instrument :  
MSVOA\_X  
ClientSampleId :

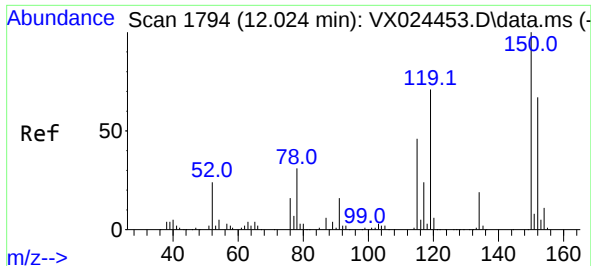
Tgt Ion: 95 Resp: 114541  
Ion Ratio Lower Upper  
95 100  
174 81.7 0.0 154.6  
176 78.1 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

Tgt Ion: 117 Resp: 226530  
Ion Ratio Lower Upper  
117 100  
82 58.6 47.4 71.2  
119 32.4 26.6 39.8

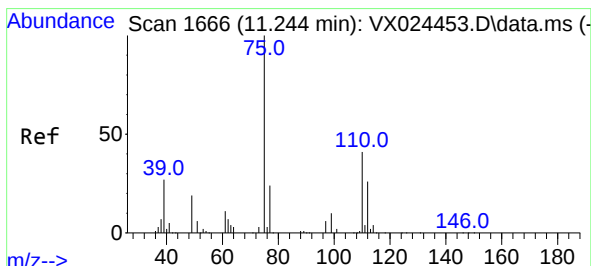
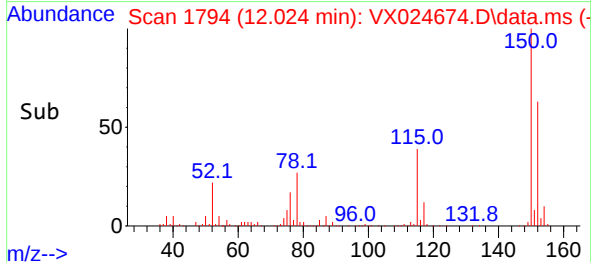
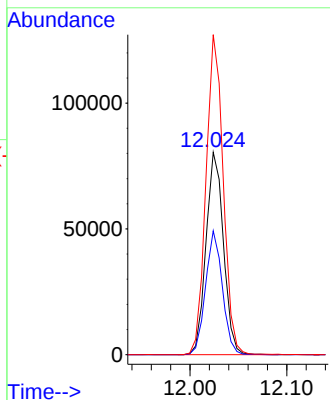
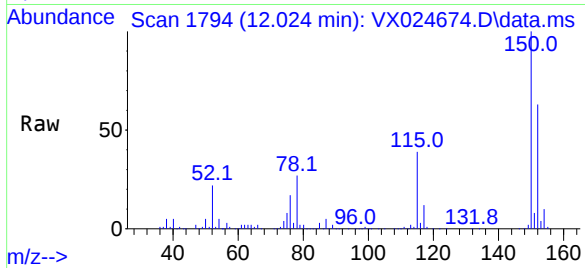




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

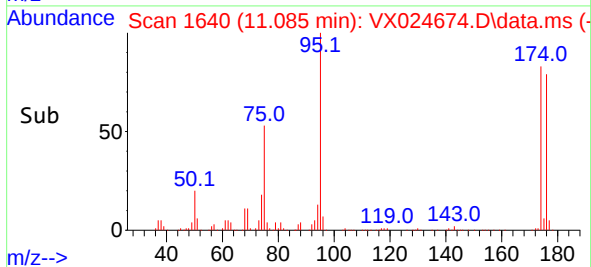
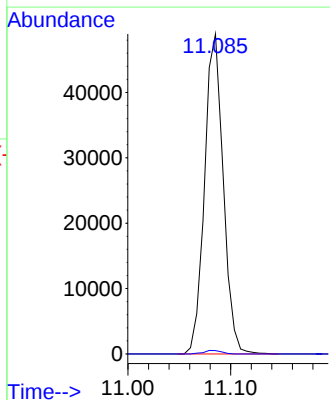
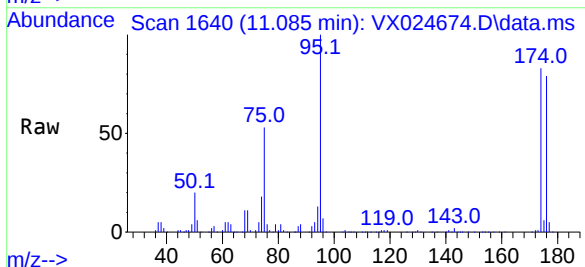
Instrument :  
MSVOA\_X  
ClientSampled :

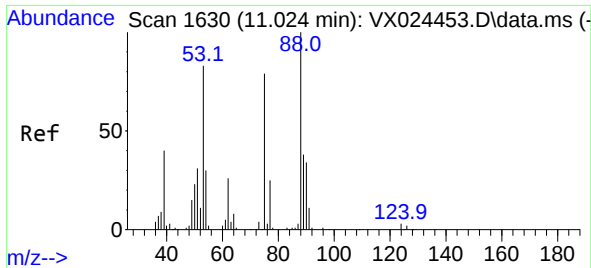
Tgt Ion:152 Resp: 101020  
Ion Ratio Lower Upper  
152 100  
115 59.0 41.1 123.3  
150 156.3 0.0 349.0



#76  
1,2,3-Trichloropropane  
Concen: 26.994 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

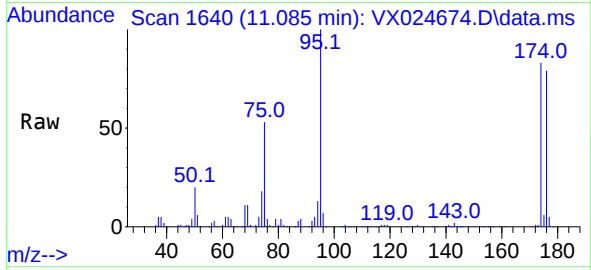
Tgt Ion: 75 Resp: 61926  
Ion Ratio Lower Upper  
75 100  
77 1.0 19.1 57.5#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 73.456 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX024674.D  
Acq: 08 Oct 2021 16:47

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 75 Resp: 61926  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

