

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX070221\  
 Data File : VX023123.D  
 Acq On : 02 Jul 2021 21:27  
 Operator : JC/MD  
 Sample : M2898-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-03-1.5-6.5-062921

Quant Time: Jul 05 02:58:47 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X070221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 02 14:29:42 2021  
 Response via : Initial Calibration

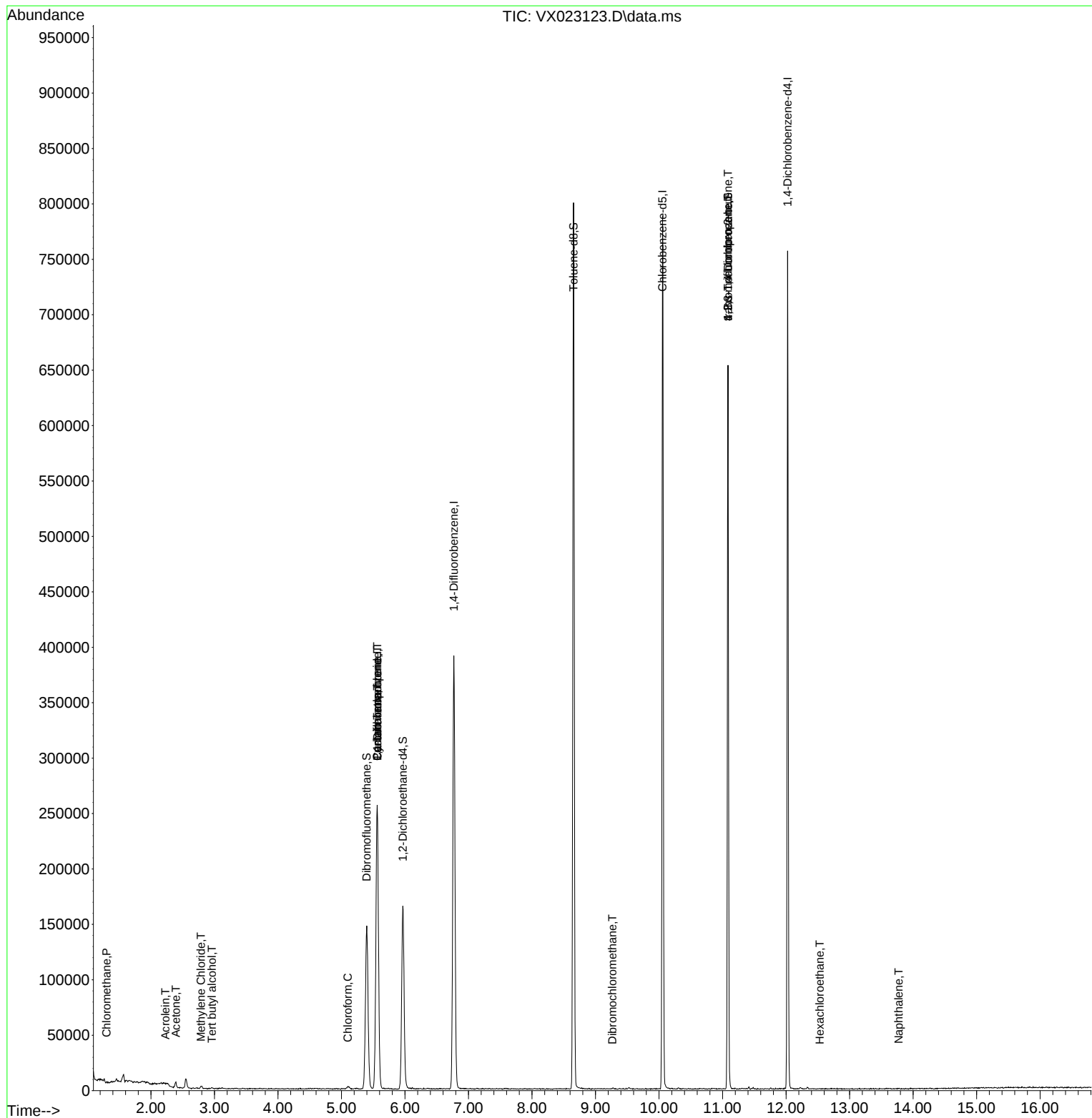
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 5.562          | 168  | 235024              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 385544              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 352024              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 146720              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964          | 65   | 165107              | 52.270    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 104.540% |           |        |          |
| 35) Dibromofluoromethane      | 5.397          | 113  | 123522              | 49.614    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 99.220%  |           |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 463886              | 49.949    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 99.900%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 165601              | 46.188    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 92.380%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      | Qvalue              |           |        |          |
| 3) Chloromethane              | 1.301          | 50   | 488                 | 0.232     | ug/l   | 96       |
| 5) Bromomethane               | 1.611          | 94   | 967                 | Below Cal | #      | 66       |
| 11) Tert butyl alcohol        | 2.959          | 59   | 206                 | 0.310     | ug/l # | 88       |
| 13) Acrolein                  | 2.227          | 56   | 263                 | 0.594     | ug/l # | 55       |
| 16) Acetone                   | 2.392          | 43   | 5376                | 4.302     | ug/l   | 99       |
| 20) Methylene Chloride        | 2.788          | 84   | 1057                | 0.393     | ug/l # | 77       |
| 30) Chloroform                | 5.099          | 83   | 2545                | 0.543     | ug/l   | 99       |
| 31) Cyclohexane               | 5.562          | 56   | 5384                | 1.424     | ug/l # | 20       |
| 36) 1,1-Dichloropropene       | 5.562          | 75   | 18874               | 5.491     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.562          | 117  | 24010               | 6.693     | ug/l # | 15       |
| 60) Dibromochloromethane      | 9.262          | 129  | 87                  | 3.140     | ug/l # | 11       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 87970               | 29.795    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 87970               | 80.033    | ug/l # | 12       |
| 90) Hexachloroethane          | 12.530         | 117  | 19                  | 3.007     | ug/l # | 9        |
| 95) Naphthalene               | 13.774         | 128  | 294                 | 1.302     | ug/l # | 80       |
| -----                         |                |      |                     |           |        |          |

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

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Sample : M2898-05  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-03-1.5-6.5-062921

Quant Time: Jul 05 02:58:47 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X070221W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 02 14:29:42 2021  
Response via : Initial Calibration

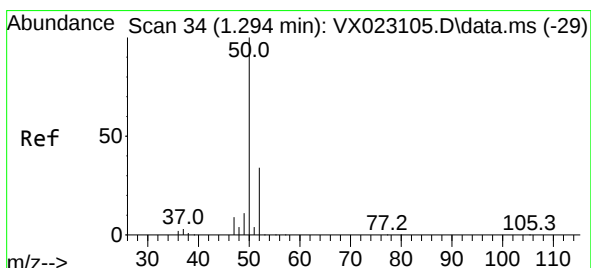
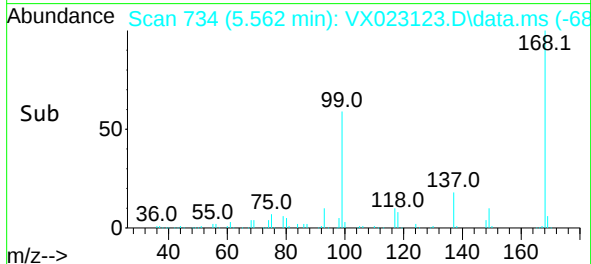
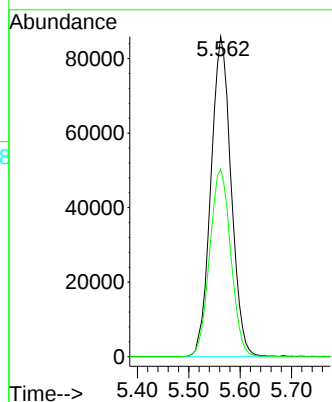
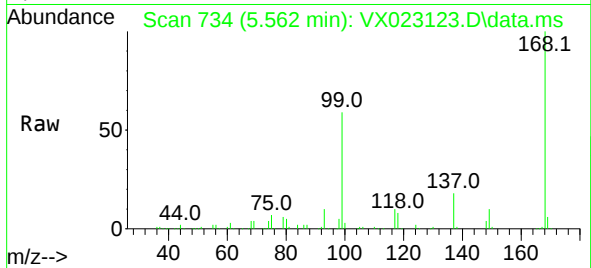




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.000 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

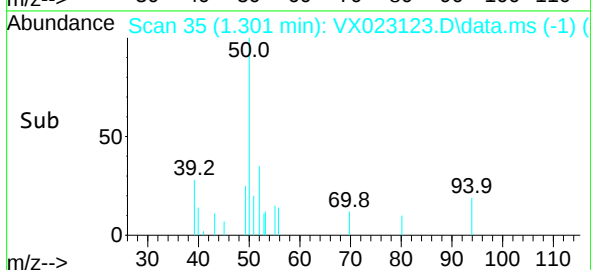
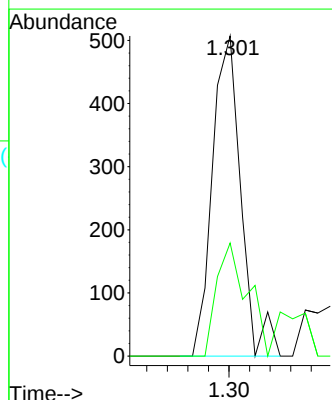
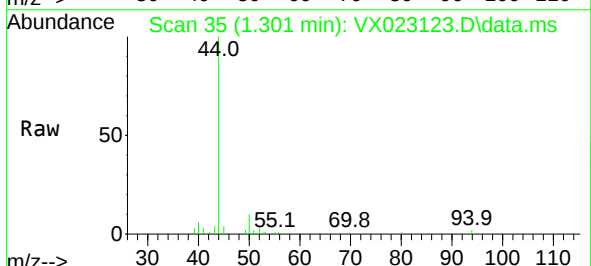
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-03-1.5-6.5-062921

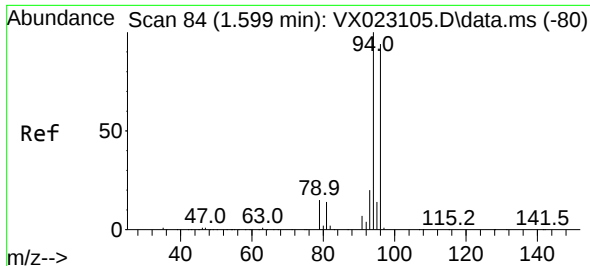
Tgt Ion:168 Resp: 235024  
Ion Ratio Lower Upper  
168 100  
99 58.6 45.8 68.6



#3  
Chloromethane  
Concen: 0.232 ug/l  
RT: 1.301 min Scan# 35  
Delta R.T. 0.006 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

Tgt Ion: 50 Resp: 488  
Ion Ratio Lower Upper  
50 100  
52 35.3 26.4 39.6

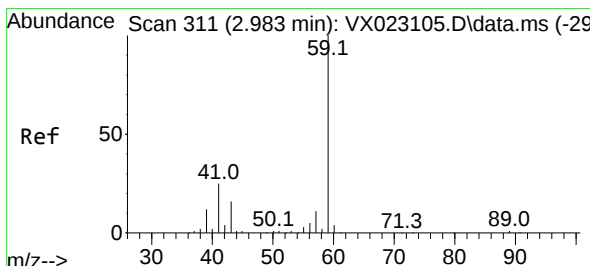
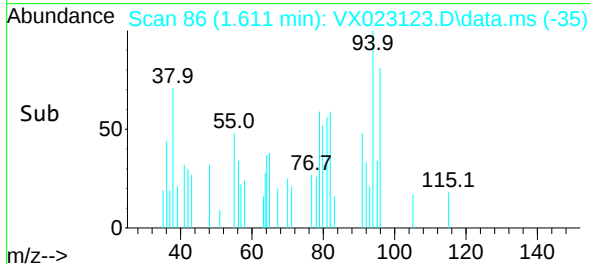
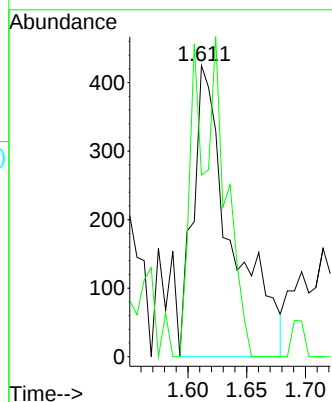
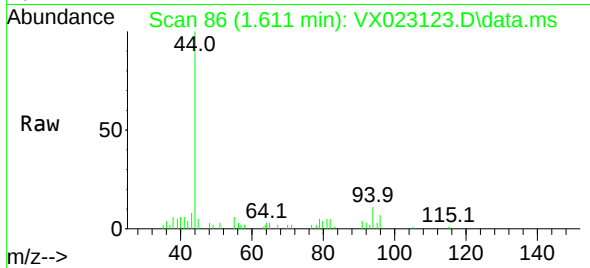




#5  
Bromomethane  
Concen: Below Cal  
RT: 1.611 min Scan# 86  
Delta R.T. 0.012 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

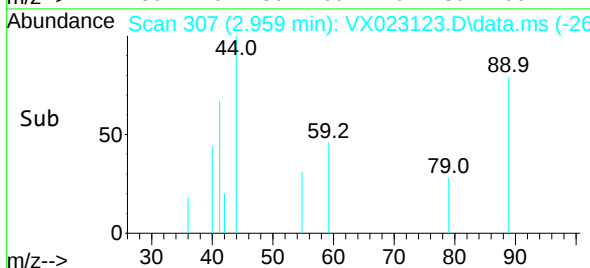
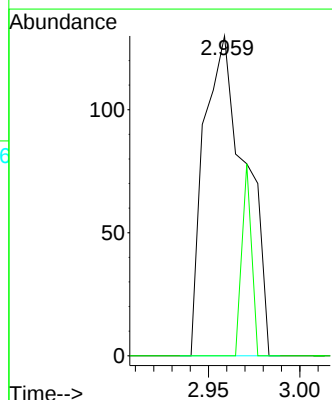
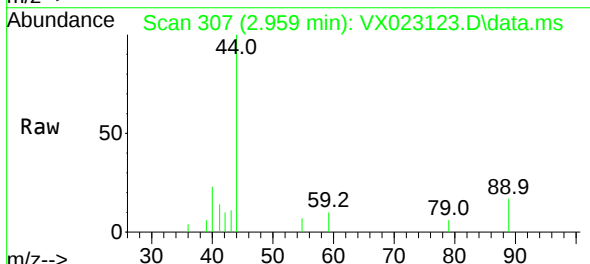
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-03-1.5-6.5-062921

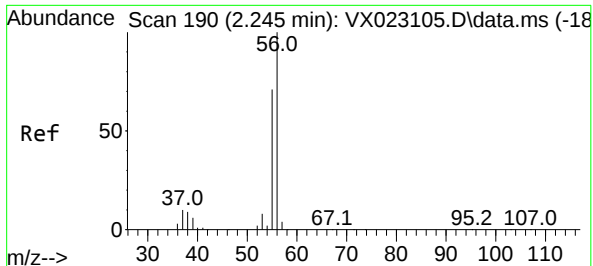
Tgt Ion: 94 Resp: 967  
Ion Ratio Lower Upper  
94 100  
96 62.4 76.4 114.6#



#11  
Tert butyl alcohol  
Concen: 0.310 ug/l  
RT: 2.959 min Scan# 307  
Delta R.T. -0.024 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

Tgt Ion: 59 Resp: 206  
Ion Ratio Lower Upper  
59 100  
57 14.1 7.8 11.8#

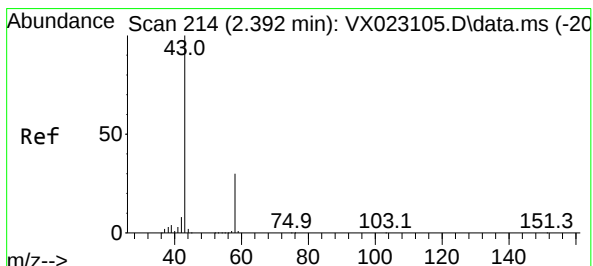
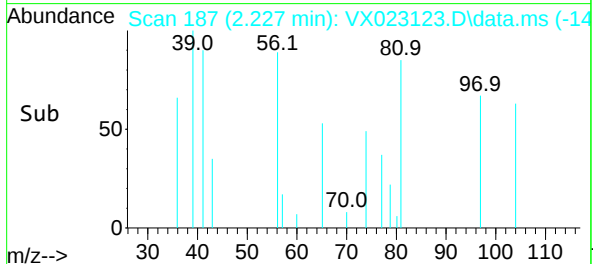
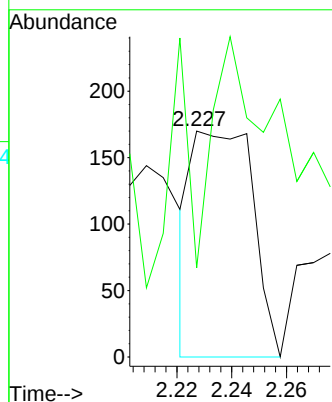
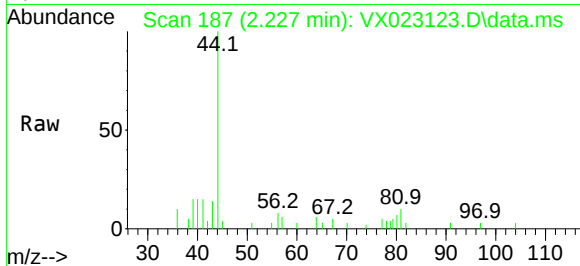




#13  
Acrolein  
Concen: 0.594 ug/l  
RT: 2.227 min Scan# 187  
Delta R.T. -0.018 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

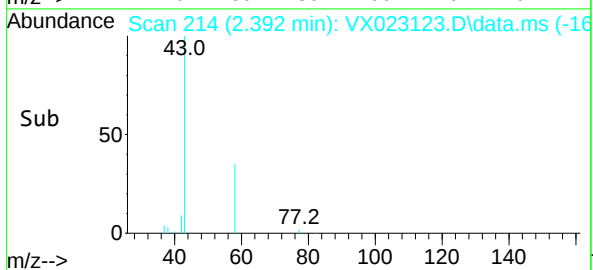
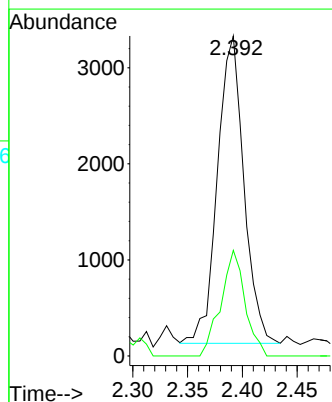
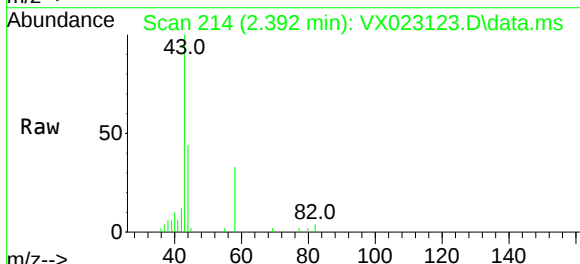
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-03-1.5-6.5-062921

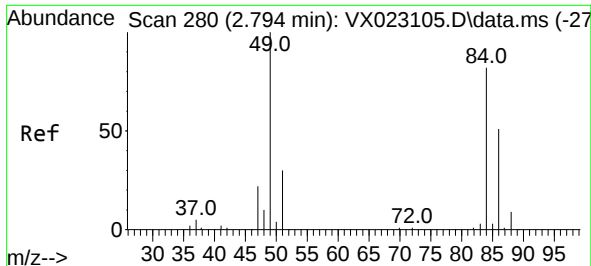
Tgt Ion: 56 Resp: 263  
Ion Ratio Lower Upper  
56 100  
55 33.8 56.4 84.6#



#16  
Acetone  
Concen: 4.302 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. -0.000 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

Tgt Ion: 43 Resp: 5376  
Ion Ratio Lower Upper  
43 100  
58 34.4 27.8 41.8

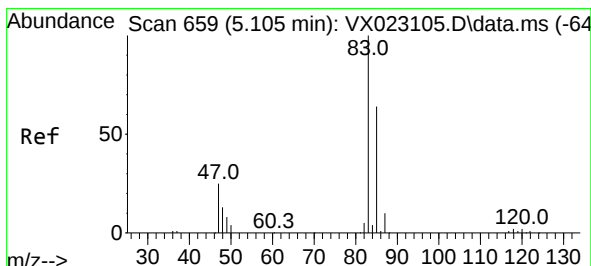
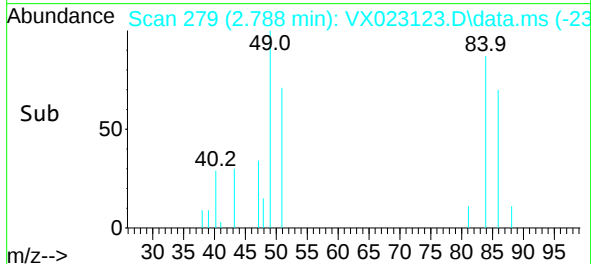
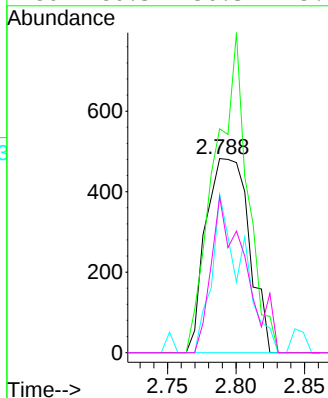
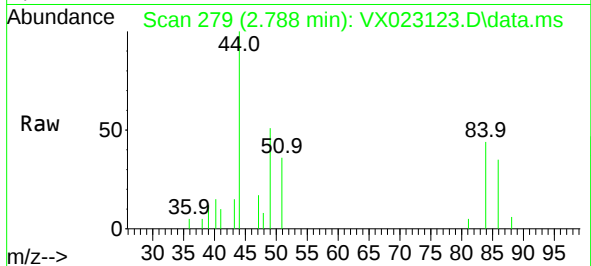




#20  
Methylene Chloride  
Concen: 0.393 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. -0.006 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

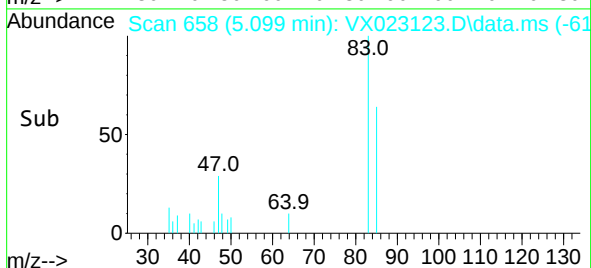
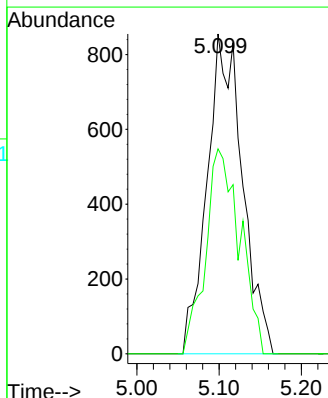
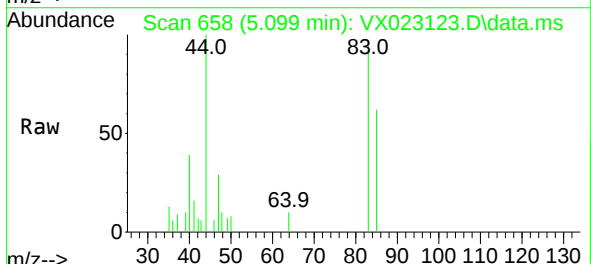
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-03-1.5-6.5-062921

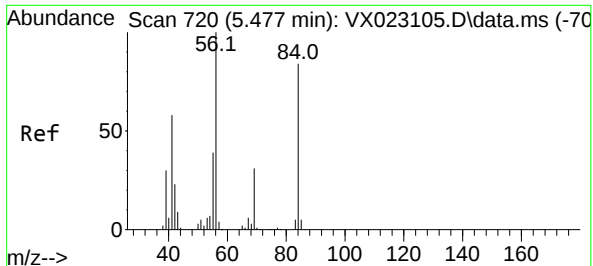
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 1057  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 115.4 | 88.6  | 132.8 |
| 51       | 81.7  | 27.0  | 40.6# |
| 86       | 80.3  | 50.3  | 75.5# |



#30  
Chloroform  
Concen: 0.543 ug/l  
RT: 5.099 min Scan# 658  
Delta R.T. -0.006 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

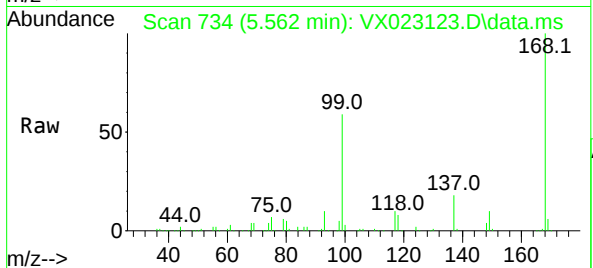
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 2545  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 64.1  | 52.0  | 78.0  |



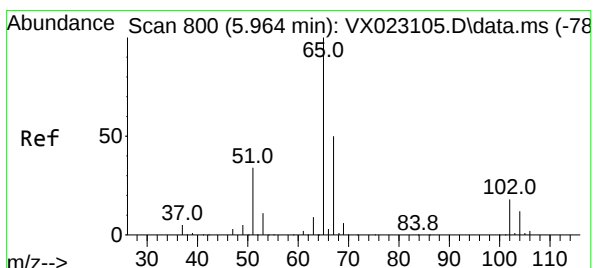
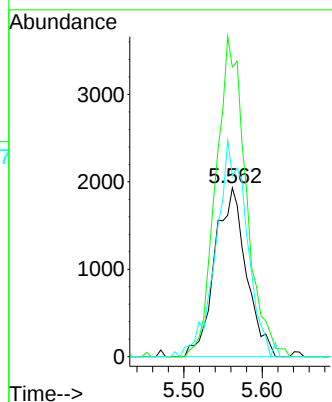
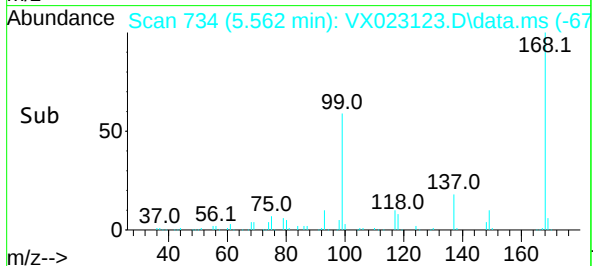


#31  
Cyclohexane  
Concen: 1.424 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.085 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

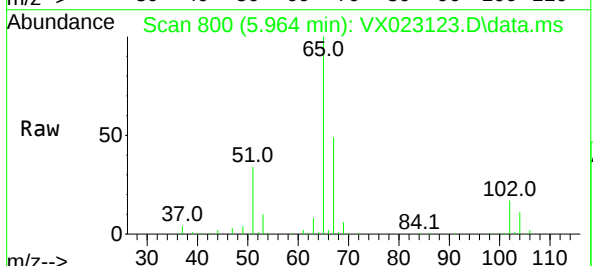
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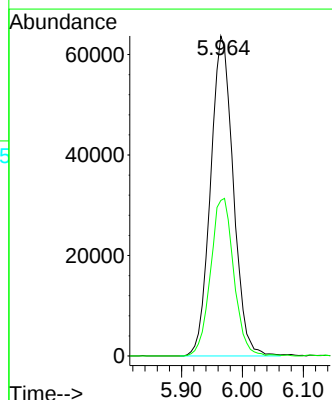
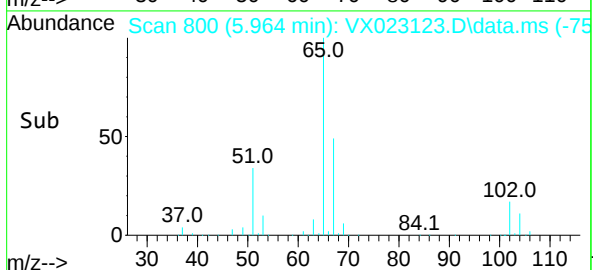
Tgt Ion: 56 Resp: 5384  
Ion Ratio Lower Upper  
56 100  
69 171.5 25.3 37.9#  
84 106.9 71.4 107.0

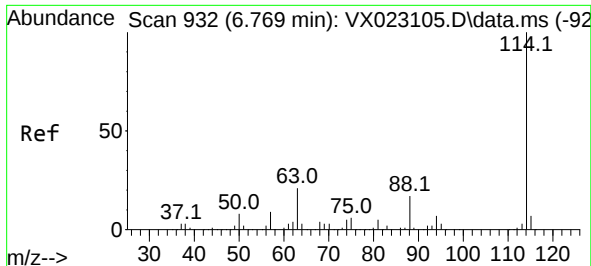


#33  
1,2-Dichloroethane-d4  
Concen: 52.270 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.000 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27



Tgt Ion: 65 Resp: 165107  
Ion Ratio Lower Upper  
65 100  
67 50.4 0.0 105.4

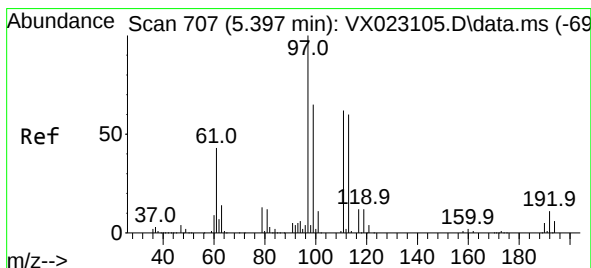
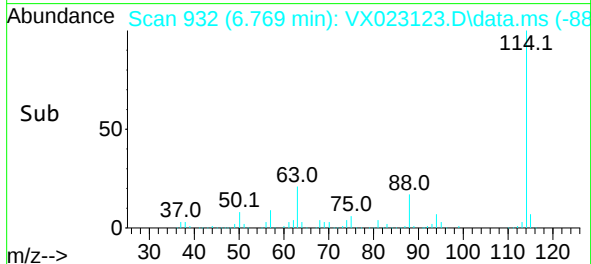
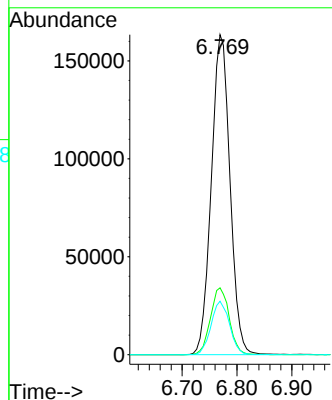
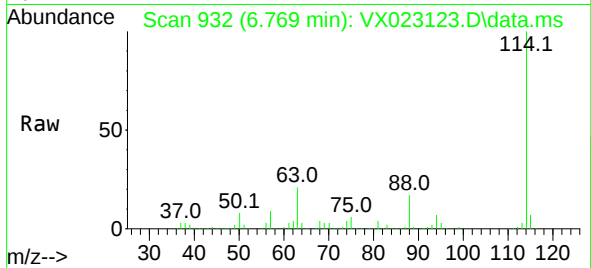




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. 0.000 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

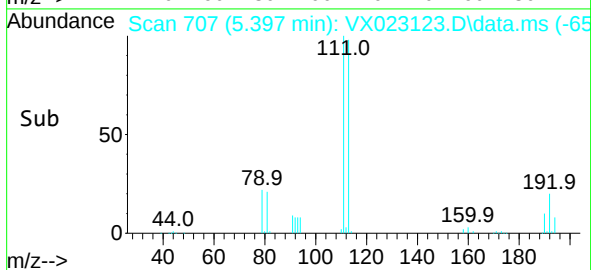
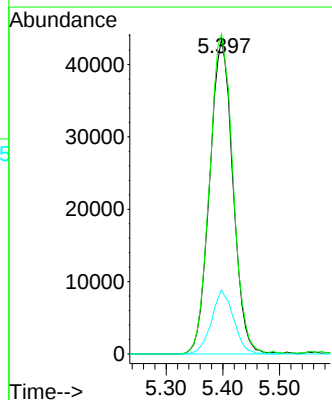
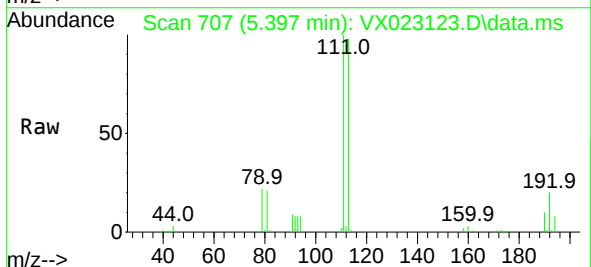
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-03-1.5-6.5-062921

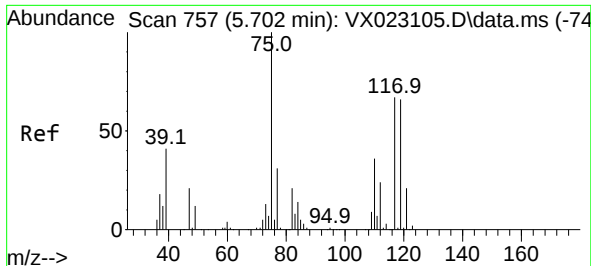
Tgt Ion:114 Resp: 385544  
Ion Ratio Lower Upper  
114 100  
63 20.9 0.0 40.8  
88 16.7 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 49.614 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

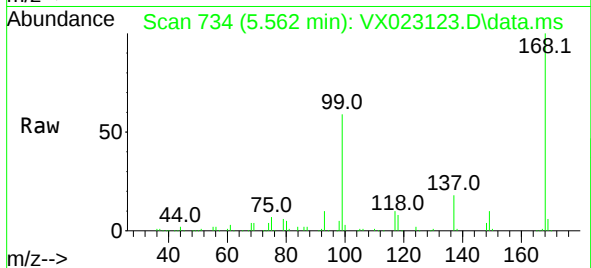
Tgt Ion:113 Resp: 123522  
Ion Ratio Lower Upper  
113 100  
111 102.8 81.9 122.9  
192 19.3 16.7 25.1



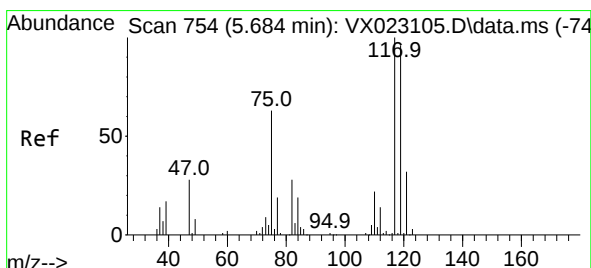
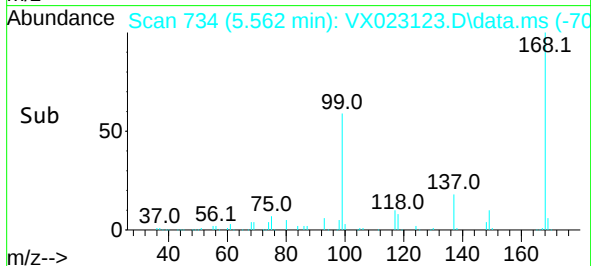
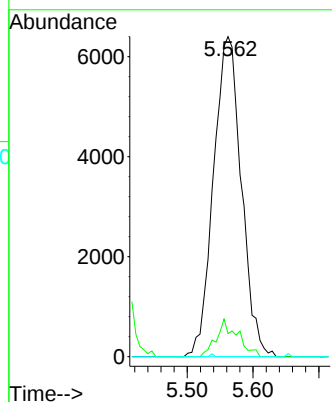


#36  
1,1-Dichloropropene  
Concen: 5.491 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.140 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-03-1.5-6.5-062921

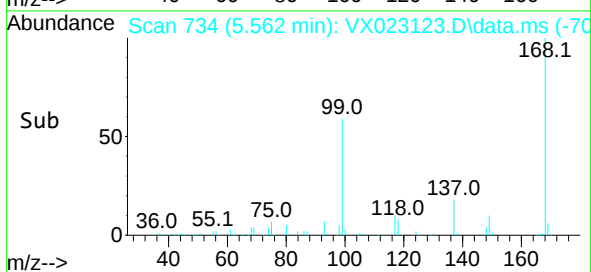
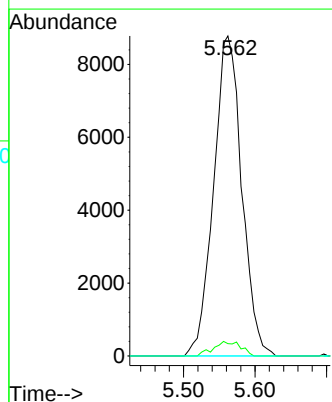
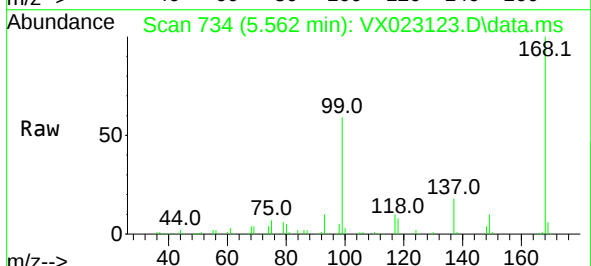


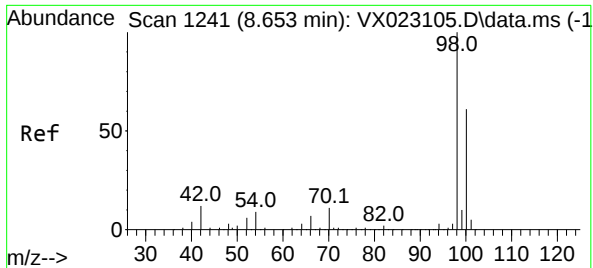
Tgt Ion: 75 Resp: 18874  
Ion Ratio Lower Upper  
75 100  
110 9.0 18.1 54.4#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 6.693 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.122 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

Tgt Ion: 117 Resp: 24010  
Ion Ratio Lower Upper  
117 100  
119 3.8 76.2 114.2#  
121 0.0 24.8 37.2#

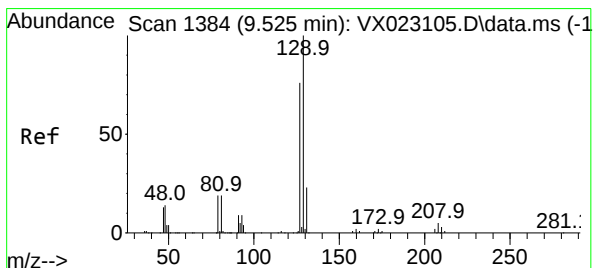
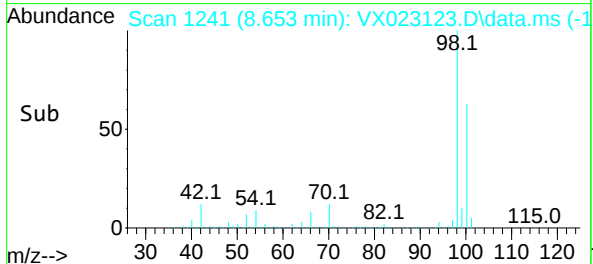
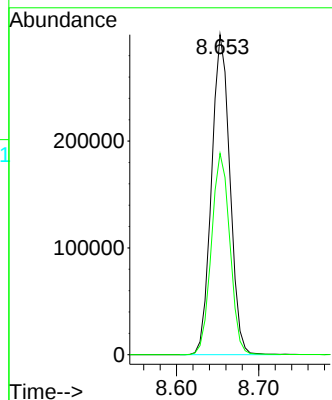
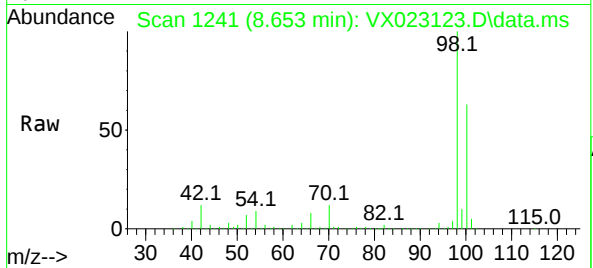




#50  
Toluene-d8  
Concen: 49.949 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

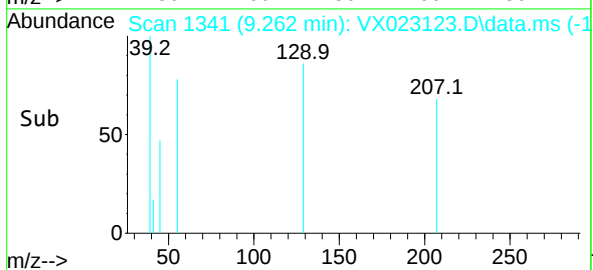
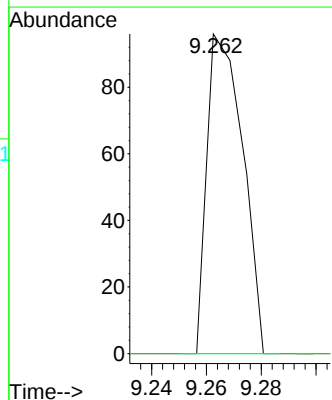
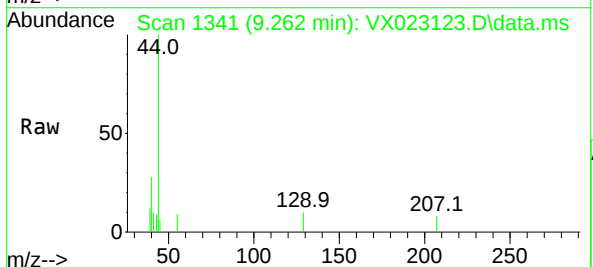
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-03-1.5-6.5-062921

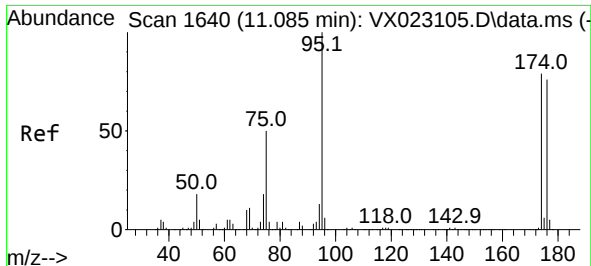
Tgt Ion: 98 Resp: 463886  
Ion Ratio Lower Upper  
98 100  
100 63.3 51.9 77.9



#60  
Dibromochloromethane  
Concen: 3.140 ug/l  
RT: 9.262 min Scan# 1341  
Delta R.T. -0.263 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

Tgt Ion: 129 Resp: 87  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#

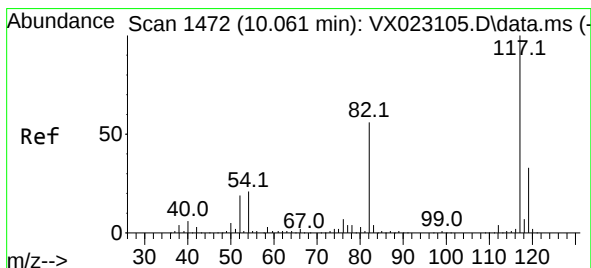
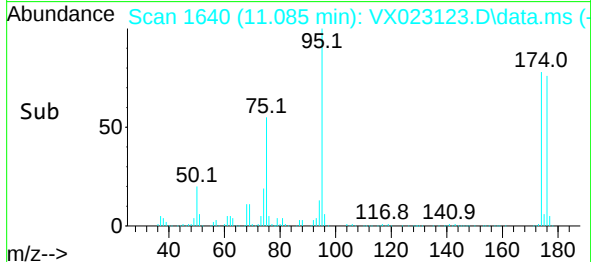
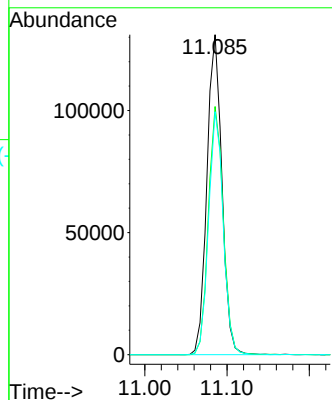
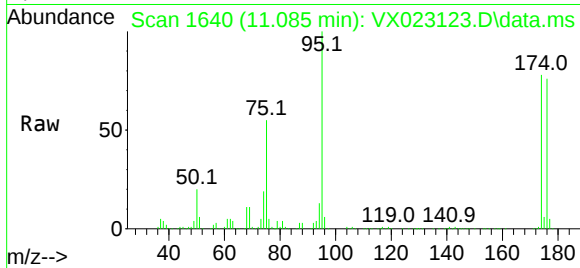




#62  
4-Bromofluorobenzene  
Concen: 46.188 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

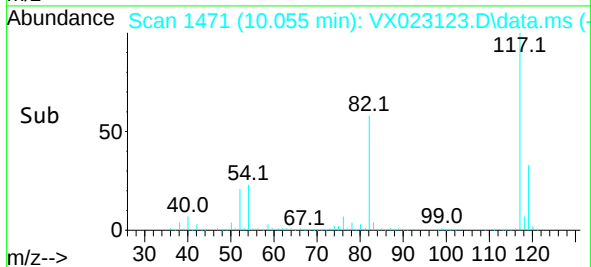
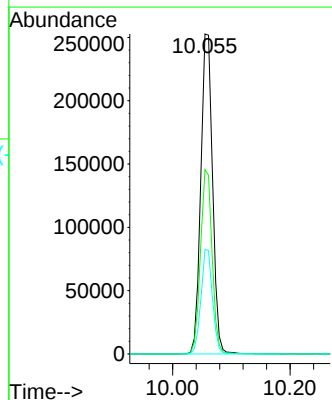
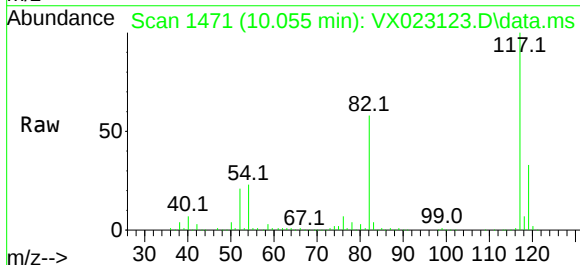
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-03-1.5-6.5-062921

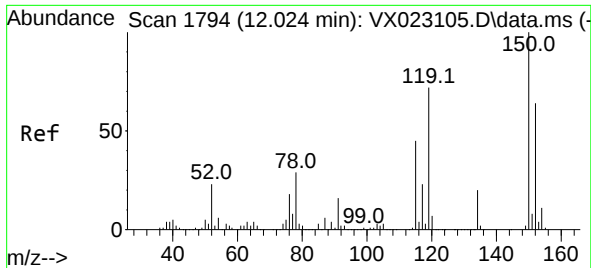
Tgt Ion: 95 Resp: 165601  
Ion Ratio Lower Upper  
95 100  
174 77.2 0.0 154.6  
176 74.3 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

Tgt Ion: 117 Resp: 352024  
Ion Ratio Lower Upper  
117 100  
82 57.6 47.4 71.2  
119 32.6 26.6 39.8

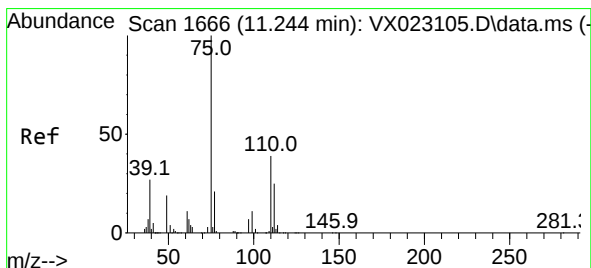
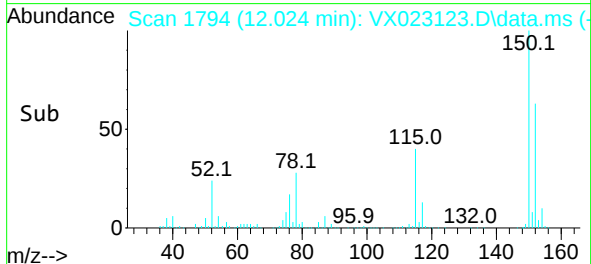
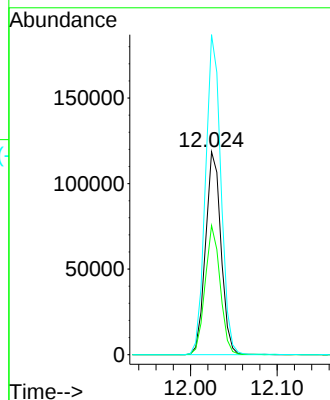
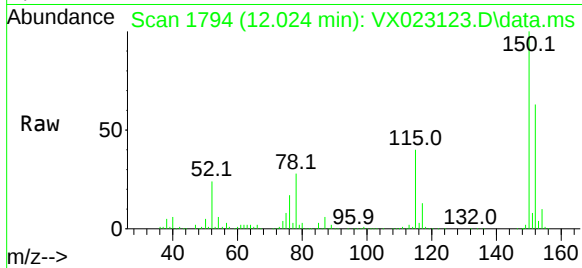




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 1794  
 Delta R.T. 0.000 min  
 Lab File: VX023123.D  
 Acq: 02 Jul 2021 21:27

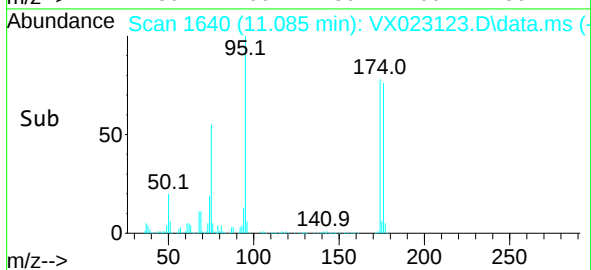
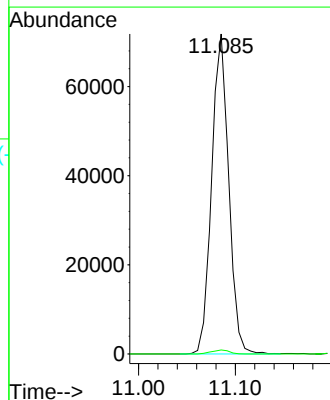
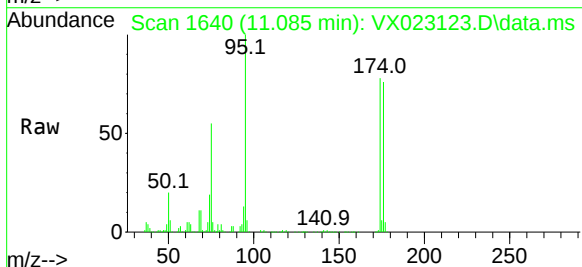
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-03-1.5-6.5-062921

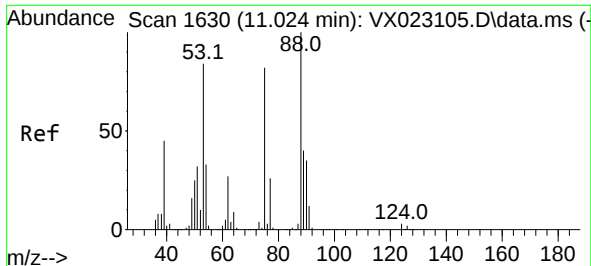
Tgt Ion:152 Resp: 146720  
 Ion Ratio Lower Upper  
 152 100  
 115 62.1 41.1 123.3  
 150 157.3 0.0 349.0



#76  
 1,2,3-Trichloropropane  
 Concen: 29.795 ug/l  
 RT: 11.085 min Scan# 1640  
 Delta R.T. -0.159 min  
 Lab File: VX023123.D  
 Acq: 02 Jul 2021 21:27

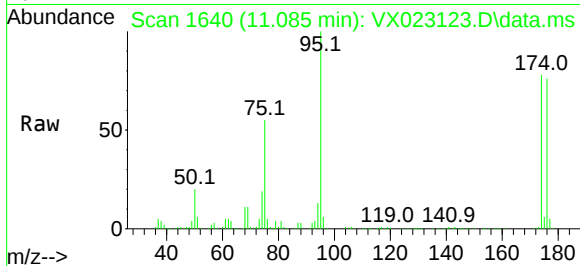
Tgt Ion: 75 Resp: 87970  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 19.1 57.5#



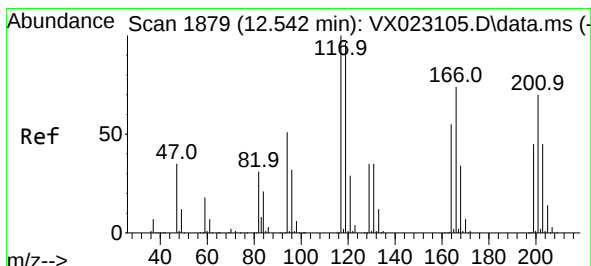
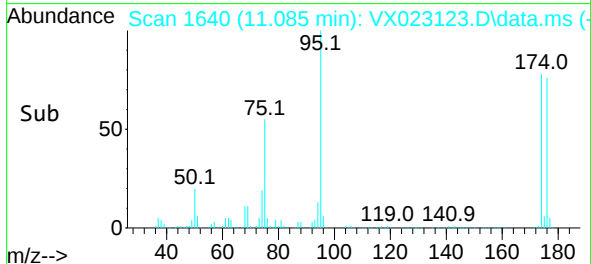
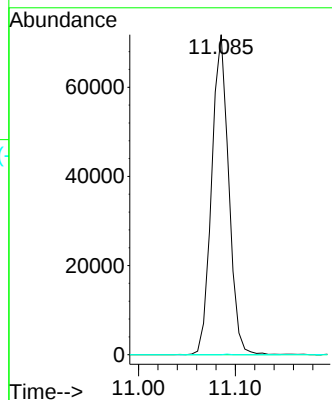


#81  
trans-1,4-Dichloro-2-butene  
Concen: 80.033 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-03-1.5-6.5-062921

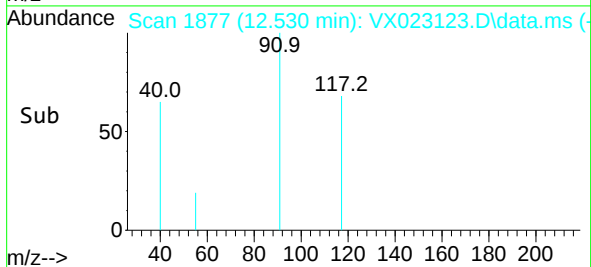
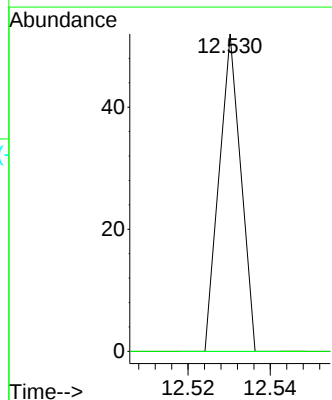
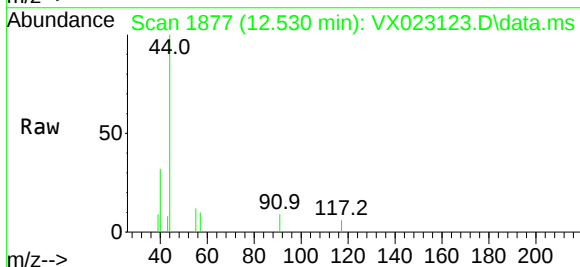


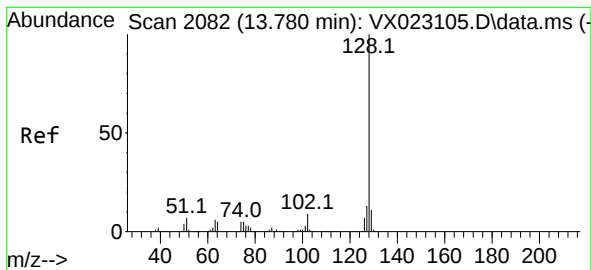
Tgt Ion: 75 Resp: 87970  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.1 37.9 56.9#



#90  
Hexachloroethane  
Concen: 3.007 ug/l  
RT: 12.530 min Scan# 1877  
Delta R.T. -0.012 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

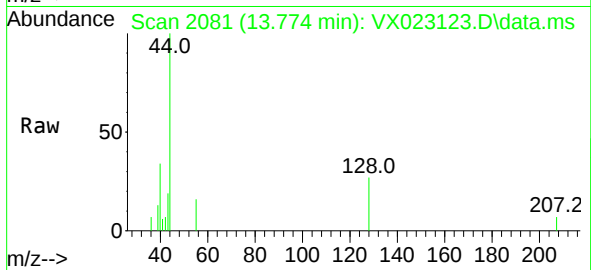
Tgt Ion: 117 Resp: 19  
Ion Ratio Lower Upper  
117 100  
201 0.0 40.4 121.2#





#95  
Naphthalene  
Concen: 1.302 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. -0.006 min  
Lab File: VX023123.D  
Acq: 02 Jul 2021 21:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-03-1.5-6.5-062921



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 294   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 7.8   | 10.3  | 15.5# |
| 129      | 0.0   | 8.8   | 13.2# |

