

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX123121\  
 Data File : VX026165.D  
 Acq On : 30 Dec 2021 14:03  
 Operator : JC/MD  
 Sample : M5132-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-3RE

Quant Time: Dec 31 07:08:09 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X123021W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 30 08:02:21 2021  
 Response via : Initial Calibration

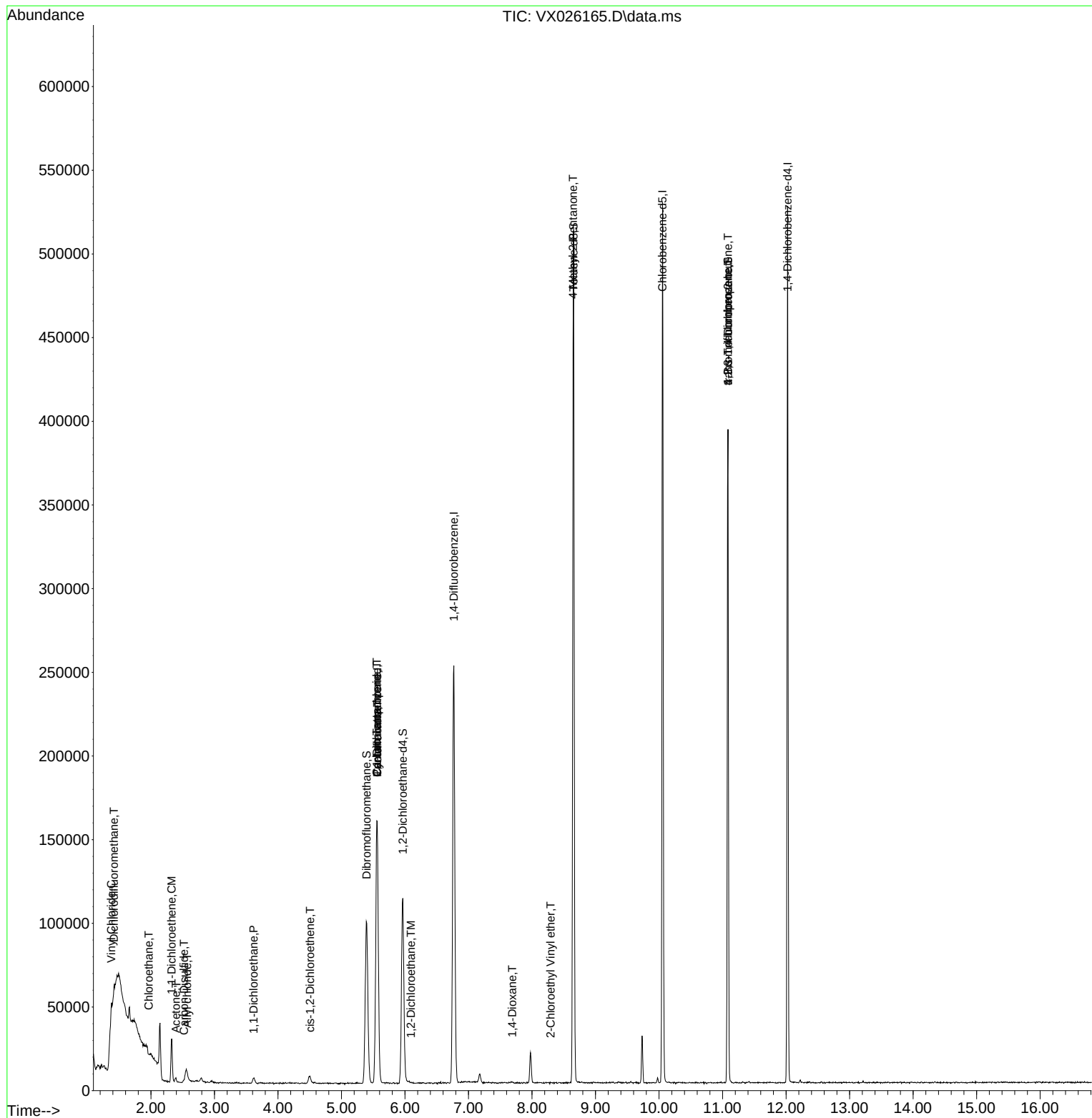
| Compound                      | R.T. QIon |       | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|--------|----------|
| -----                         |           |       |          |           |        |          |
| Internal Standards            |           |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.562     | 168   | 140383   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769     | 114   | 241652   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117   | 212314   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024    | 152   | 91345    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |           |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964     | 65    | 104549   | 51.478    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 78 - 117 | Recovery  | =      | 102.960% |
| 35) Dibromofluoromethane      | 5.397     | 113   | 81216    | 51.695    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 75 - 124 | Recovery  | =      | 103.400% |
| 50) Toluene-d8                | 8.653     | 98    | 282394   | 48.324    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 92 - 112 | Recovery  | =      | 96.640%  |
| 62) 4-Bromofluorobenzene      | 11.085    | 95    | 97124    | 46.688    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 83 - 123 | Recovery  | =      | 93.380%  |
| Target Compounds              |           |       |          |           |        |          |
|                               |           |       |          |           | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.416     | 85    | 691      | 0.469     | ug/l   | 71       |
| 4) Vinyl Chloride             | 1.374     | 62    | 2825     | 1.564     | ug/l # | 1        |
| 6) Chloroethane               | 1.965     | 64    | 735      | 0.579     | ug/l # | 42       |
| 12) 1,1-Dichloroethene        | 2.325     | 96    | 7904     | 5.085     | ug/l   | 80       |
| 14) Allyl chloride            | 2.569     | 41    | 1198     | 0.390     | ug/l # | 23       |
| 16) Acetone                   | 2.392     | 43    | 3247     | 2.951     | ug/l   | 99       |
| 17) Carbon Disulfide          | 2.520     | 76    | 2015     | 0.452     | ug/l   | 99       |
| 20) Methylene Chloride        | 2.800     | 84    | 818      | Below Cal | #      | 87       |
| 24) 1,1-Dichloroethane        | 3.617     | 63    | 3817     | 1.201     | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene    | 4.507     | 96    | 2728     | 1.414     | ug/l   | 96       |
| 31) Cyclohexane               | 5.562     | 56    | 3890     | 1.345     | ug/l # | 31       |
| 36) 1,1-Dichloropropene       | 5.556     | 75    | 12321    | 4.862     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.556     | 117   | 15483    | 5.493     | ug/l # | 15       |
| 42) 1,2-Dichloroethane        | 6.092     | 62    | 595      | 0.203     | ug/l # | 74       |
| 49) 1,4-Dioxane               | 7.690     | 88    | 414      | 9.782     | ug/l # | 70       |
| 51) 4-Methyl-2-Pentanone      | 8.647     | 43    | 1573     | 0.528     | ug/l # | 1        |
| 58) 2-Chloroethyl Vinyl ether | 8.293     | 63    | 46       | 9.858     | ug/l # | 44       |
| 76) 1,2,3-Trichloropropane    | 11.085    | 75    | 54399    | 24.672    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085    | 75    | 54399    | 71.378    | ug/l # | 10       |
| -----                         |           |       |          |           |        |          |

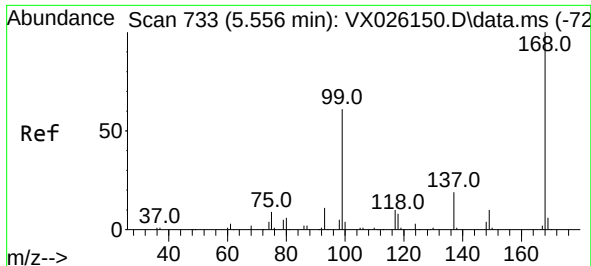
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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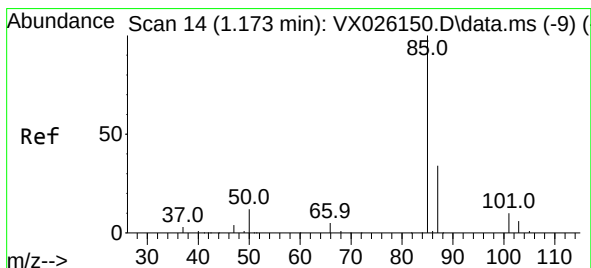
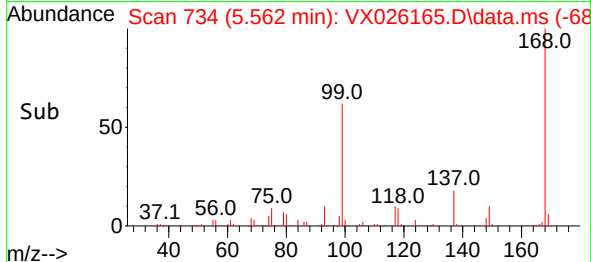
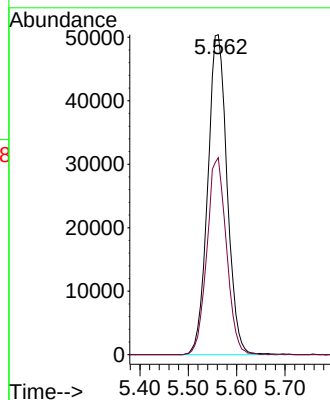
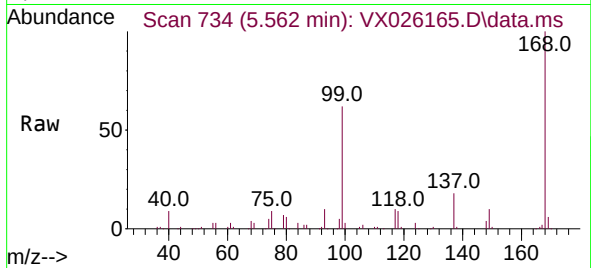




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX026165.D  
Acq: 30 Dec 2021 14:03

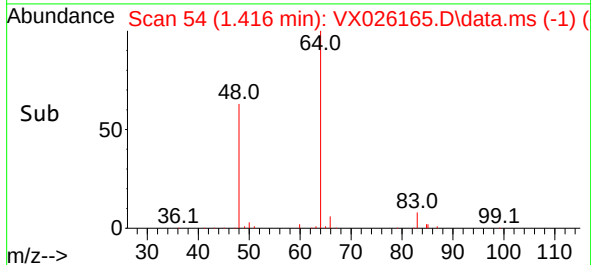
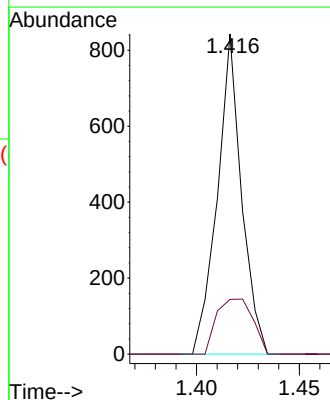
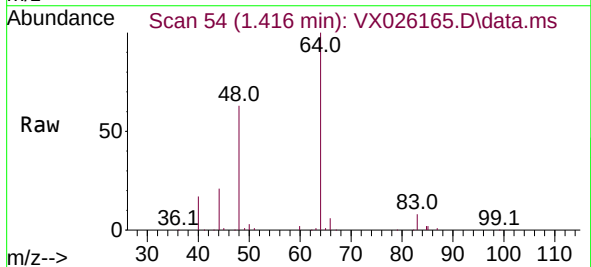
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-3RE

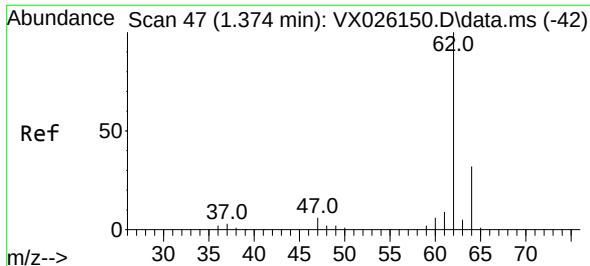
Tgt Ion:168 Resp: 140383  
Ion Ratio Lower Upper  
168 100  
99 61.5 45.8 68.8



#2  
Dichlorodifluoromethane  
Concen: 0.469 ug/l  
RT: 1.416 min Scan# 54  
Delta R.T. 0.243 min  
Lab File: VX026165.D  
Acq: 30 Dec 2021 14:03

Tgt Ion: 85 Resp: 691  
Ion Ratio Lower Upper  
85 100  
87 17.1 17.0 50.9

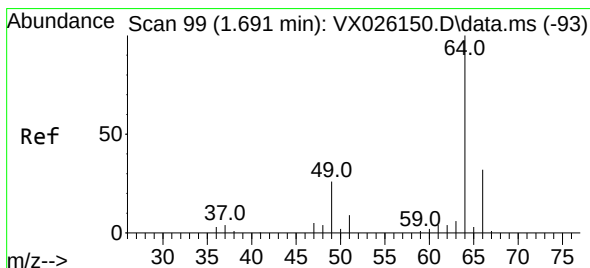
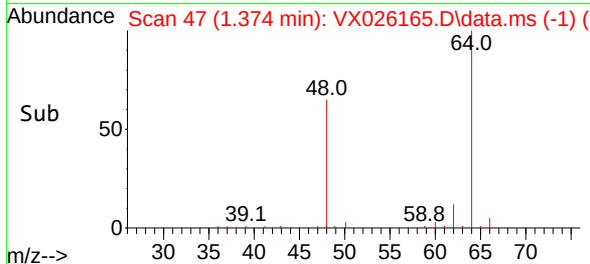
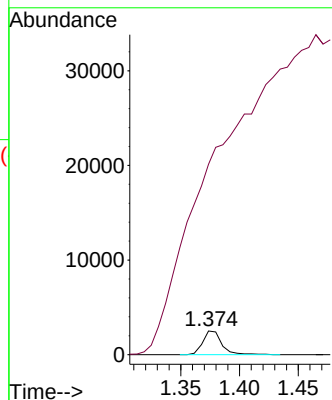
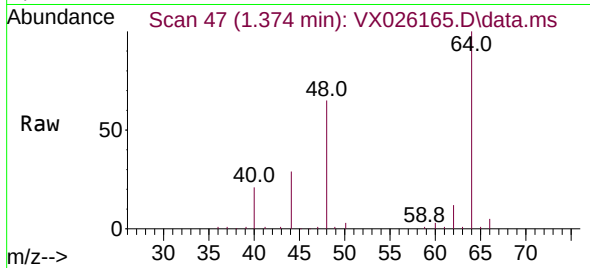




#4  
 Vinyl Chloride  
 Concen: 1.564 ug/l  
 RT: 1.374 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VX026165.D  
 Acq: 30 Dec 2021 14:03

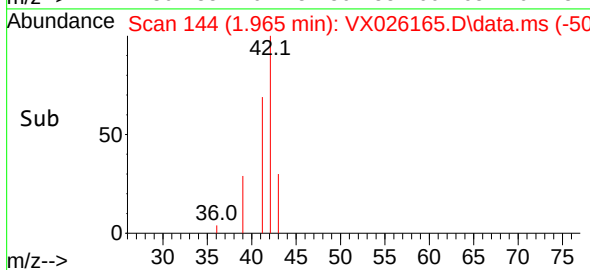
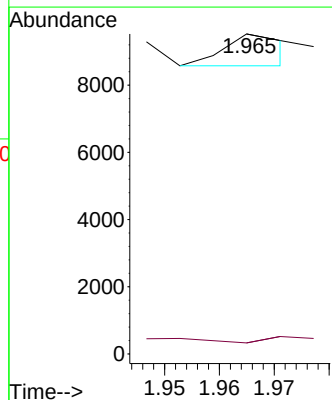
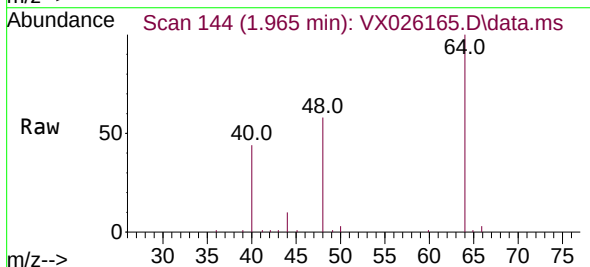
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
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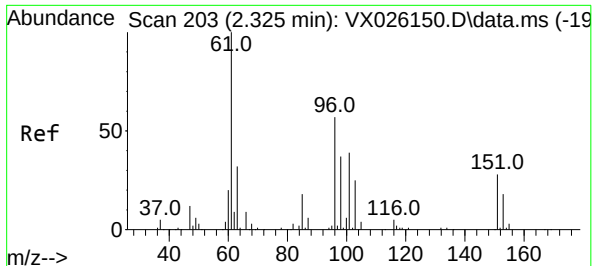
Tgt Ion: 62 Resp: 2825  
 Ion Ratio Lower Upper  
 62 100  
 64 352.2 25.4 38.2#



#6  
 Chloroethane  
 Concen: 0.579 ug/l  
 RT: 1.965 min Scan# 144  
 Delta R.T. 0.274 min  
 Lab File: VX026165.D  
 Acq: 30 Dec 2021 14:03

Tgt Ion: 64 Resp: 735  
 Ion Ratio Lower Upper  
 64 100  
 66 0.0 25.9 38.9#





#12

1,1-Dichloroethene

Concen: 5.085 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX026165.D

Acq: 30 Dec 2021 14:03

Instrument :

MSVOA\_X

ClientSampleId :

MW-3RE

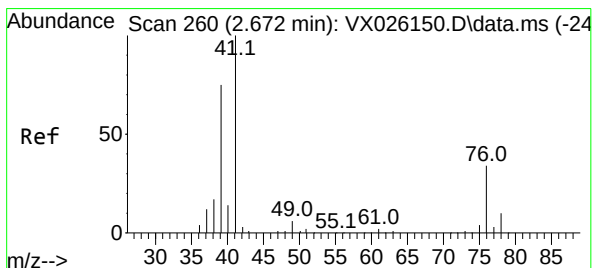
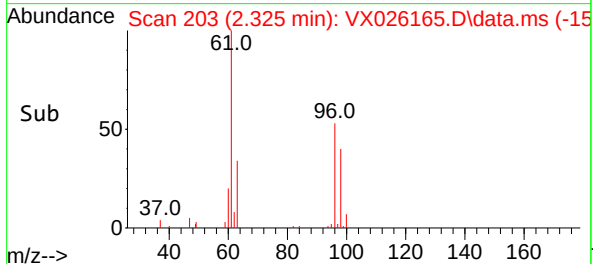
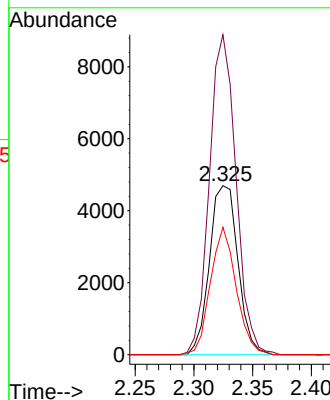
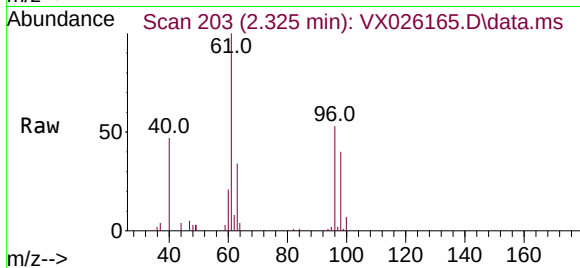
Tgt Ion: 96 Resp: 7904

Ion Ratio Lower Upper

96 100

61 189.4 127.5 191.3

98 75.4 52.0 78.0



#14

Allyl chloride

Concen: 0.390 ug/l

RT: 2.569 min Scan# 243

Delta R.T. -0.103 min

Lab File: VX026165.D

Acq: 30 Dec 2021 14:03

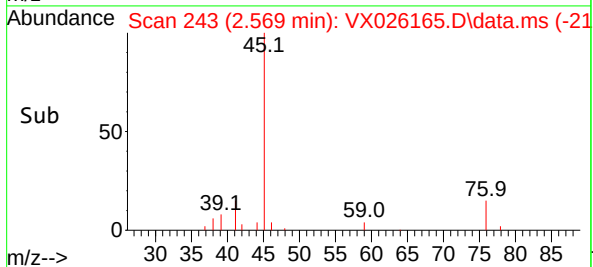
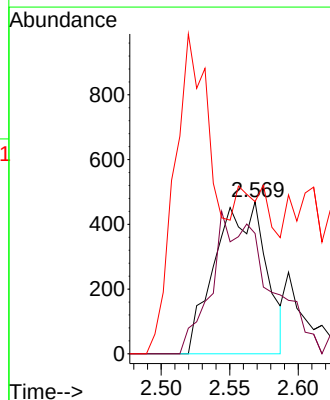
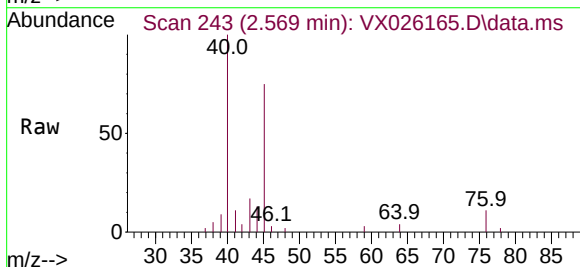
Tgt Ion: 41 Resp: 1198

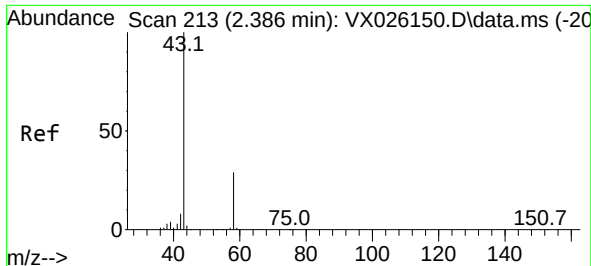
Ion Ratio Lower Upper

41 100

39 0.0 55.4 83.0#

76 0.0 27.6 41.4#

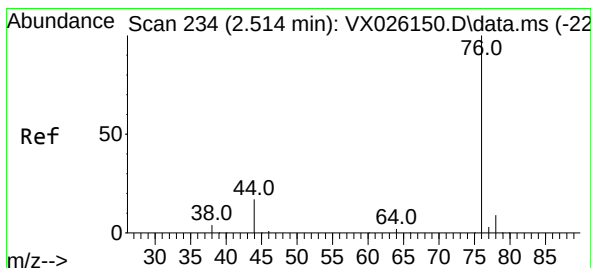
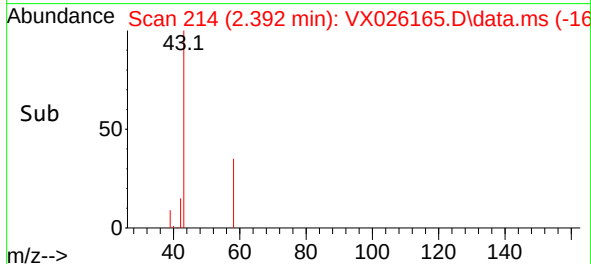
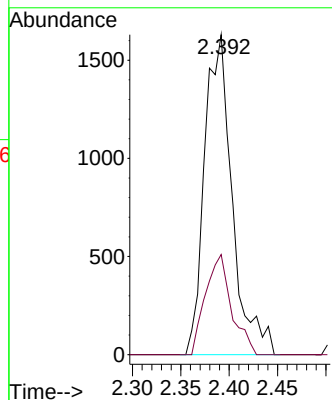
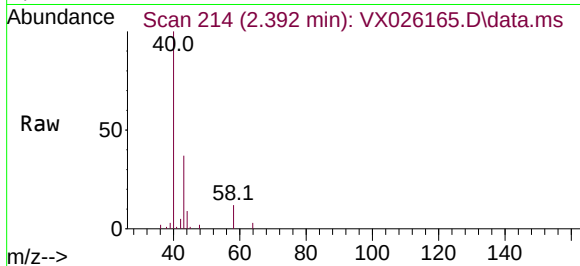




#16  
Acetone  
Concen: 2.951 ug/l  
RT: 2.392 min Scan# 213  
Delta R.T. 0.006 min  
Lab File: VX026165.D  
Acq: 30 Dec 2021 14:03

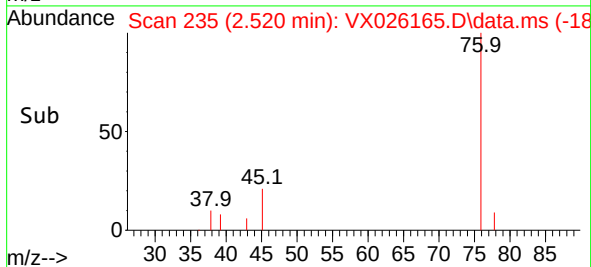
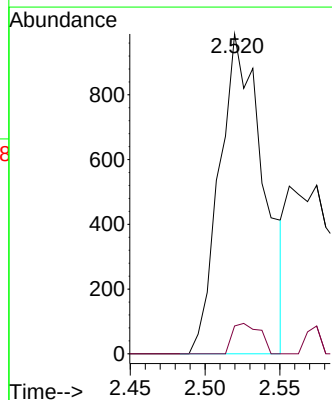
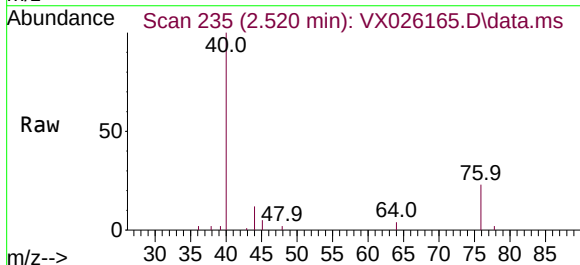
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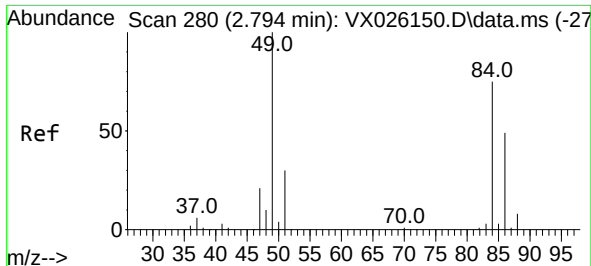
Tgt Ion: 43 Resp: 3247  
Ion Ratio Lower Upper  
43 100  
58 31.3 24.8 37.2



#17  
Carbon Disulfide  
Concen: 0.452 ug/l  
RT: 2.520 min Scan# 235  
Delta R.T. 0.006 min  
Lab File: VX026165.D  
Acq: 30 Dec 2021 14:03

Tgt Ion: 76 Resp: 2015  
Ion Ratio Lower Upper  
76 100  
78 8.7 7.2 10.8

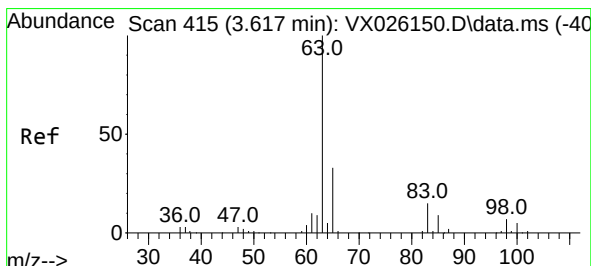
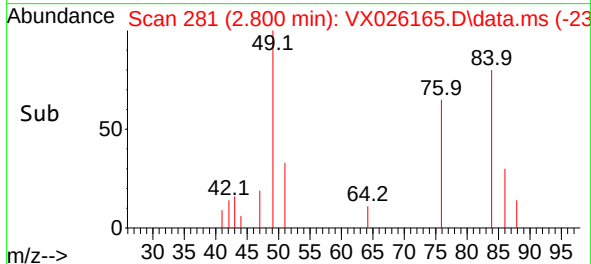
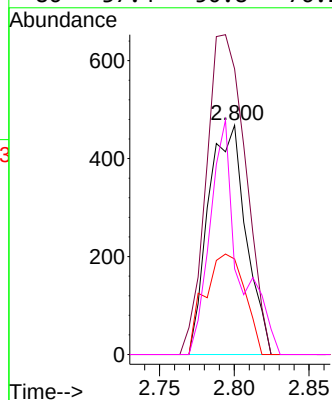
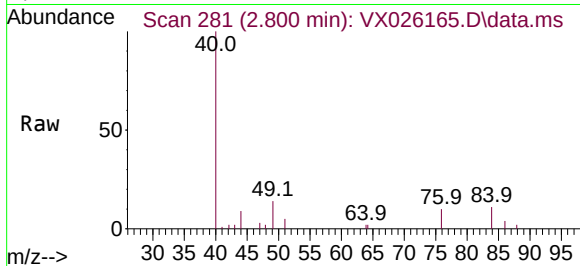




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.800 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX026165.D  
Acq: 30 Dec 2021 14:03

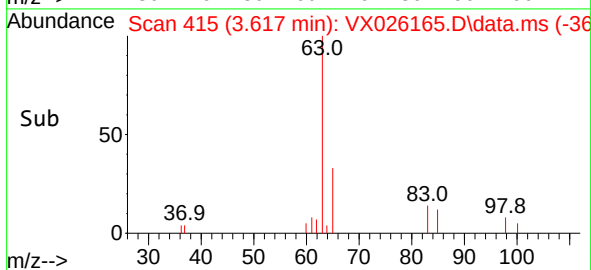
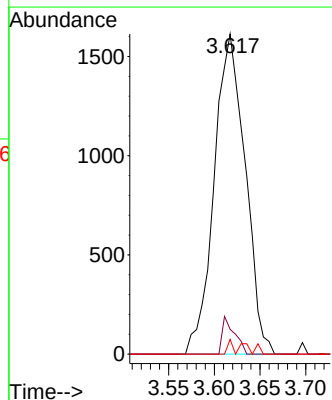
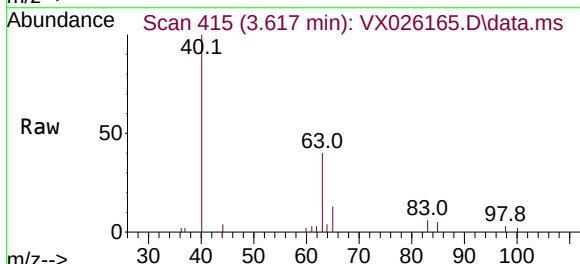
Instrument :  
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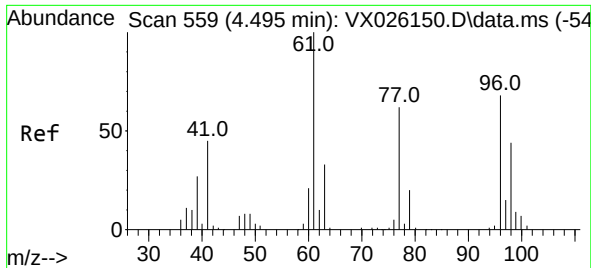
Tgt Ion: 84 Resp: 818  
Ion Ratio Lower Upper  
84 100  
49 124.6 97.1 145.7  
51 41.7 29.3 43.9  
86 37.4 50.8 76.2#



#24  
1,1-Dichloroethane  
Concen: 1.201 ug/l  
RT: 3.617 min Scan# 415  
Delta R.T. 0.000 min  
Lab File: VX026165.D  
Acq: 30 Dec 2021 14:03

Tgt Ion: 63 Resp: 3817  
Ion Ratio Lower Upper  
63 100  
98 7.7 3.3 9.9  
100 4.6 2.2 6.6

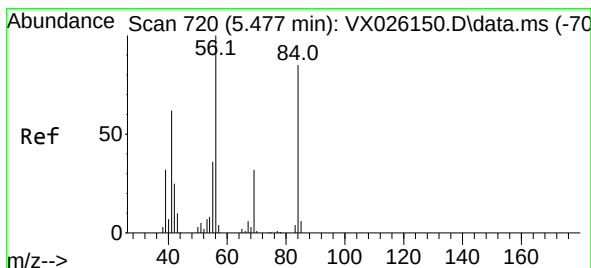
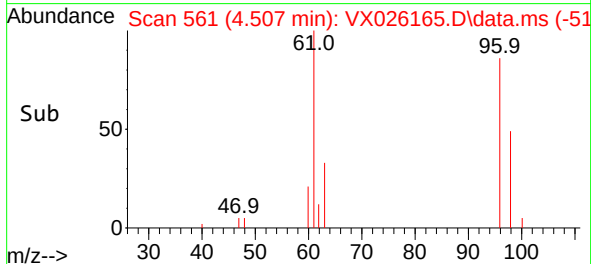
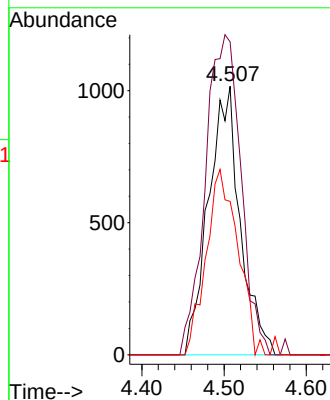
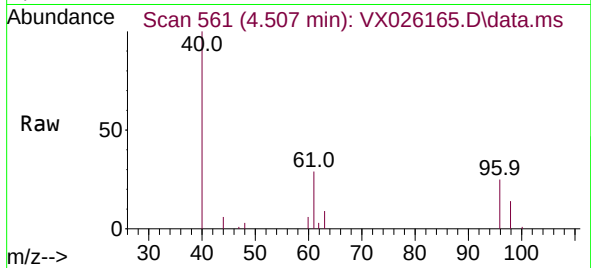




#27  
 cis-1,2-Dichloroethene  
 Concen: 1.414 ug/l  
 RT: 4.507 min Scan# 50  
 Delta R.T. 0.012 min  
 Lab File: VX026165.D  
 Acq: 30 Dec 2021 14:03

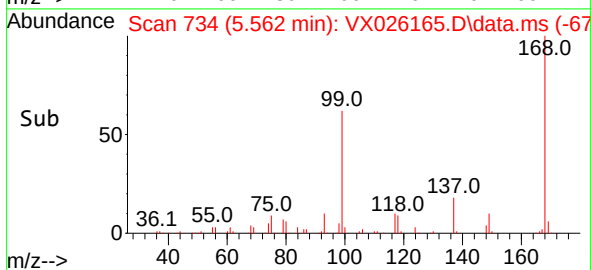
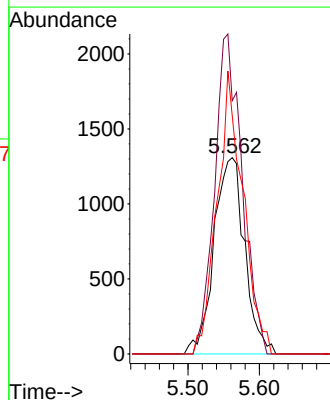
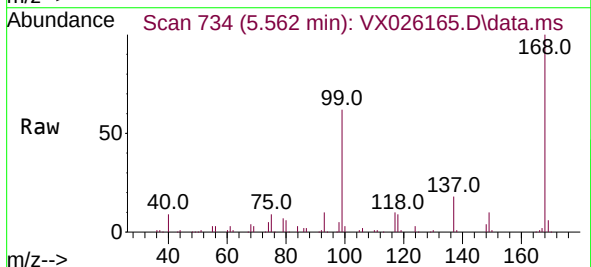
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Tgt Ion: 96 Resp: 2728  
 Ion Ratio Lower Upper  
 96 100  
 61 133.4 0.0 276.8  
 98 69.1 0.0 130.6

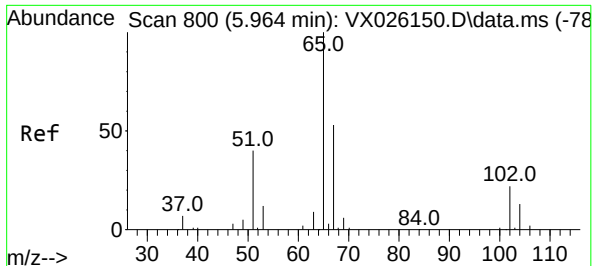


#31  
 Cyclohexane  
 Concen: 1.345 ug/l  
 RT: 5.562 min Scan# 734  
 Delta R.T. 0.085 min  
 Lab File: VX026165.D  
 Acq: 30 Dec 2021 14:03

Tgt Ion: 56 Resp: 3890  
 Ion Ratio Lower Upper  
 56 100  
 69 129.0 23.9 35.9#  
 84 121.5 73.2 109.8#







#33

1,2-Dichloroethane-d4

Concen: 51.478 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX026165.D

Acq: 30 Dec 2021 14:03

Instrument :

MSVOA\_X

ClientSampleId :

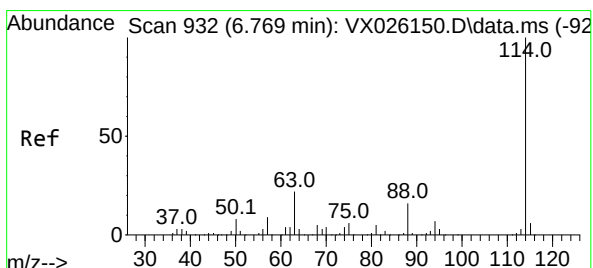
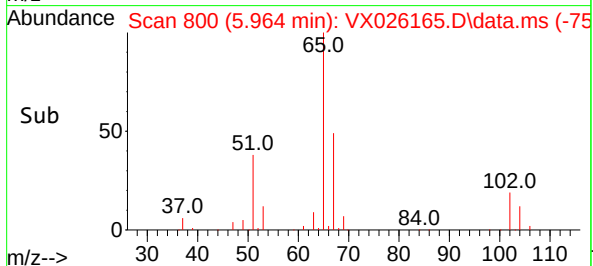
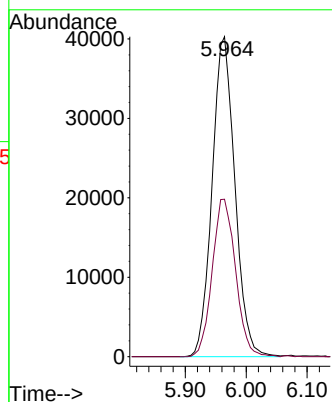
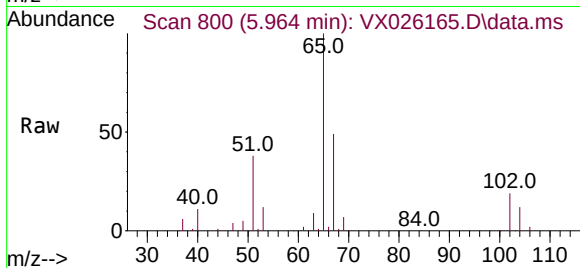
MW-3RE

Tgt Ion: 65 Resp: 104549

Ion Ratio Lower Upper

65 100

67 50.4 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.000 min

Lab File: VX026165.D

Acq: 30 Dec 2021 14:03

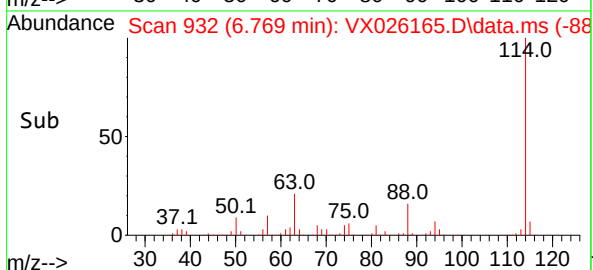
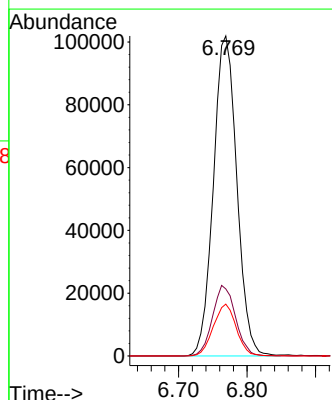
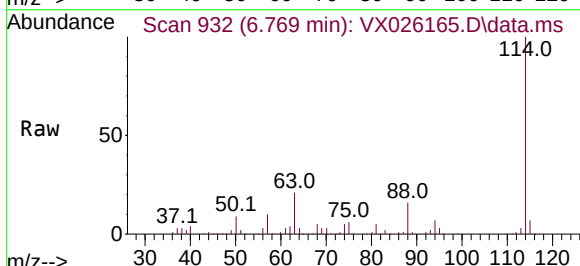
Tgt Ion: 114 Resp: 241652

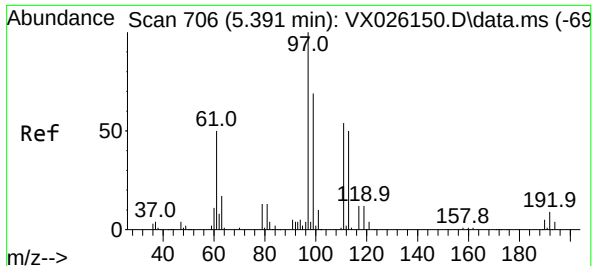
Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.0

88 16.2 0.0 30.6

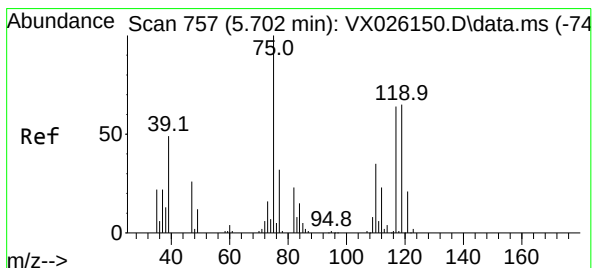
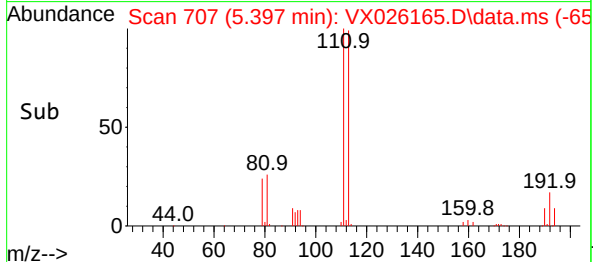
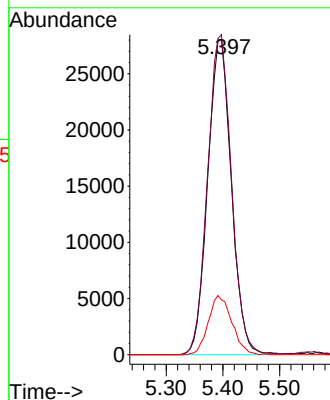
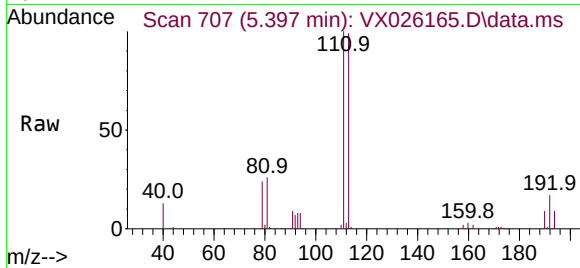




#35  
Dibromofluoromethane  
Concen: 51.695 ug/l  
RT: 5.397 min Scan# 706  
Delta R.T. 0.006 min  
Lab File: VX026165.D  
Acq: 30 Dec 2021 14:03

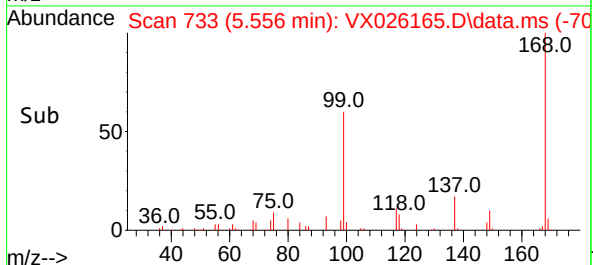
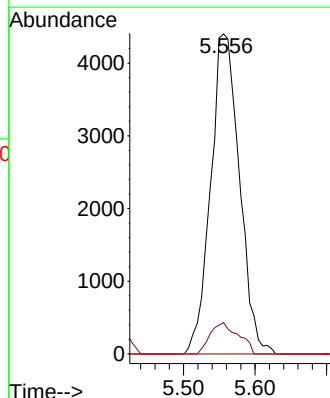
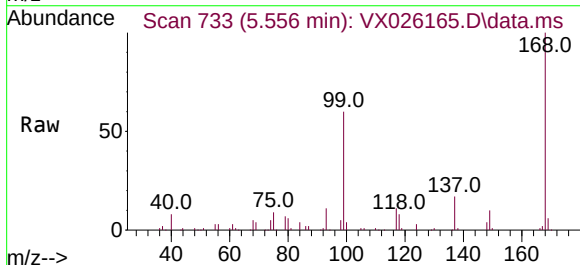
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-3RE

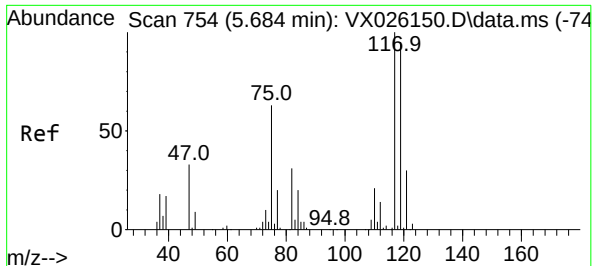
Tgt Ion:113 Resp: 81216  
Ion Ratio Lower Upper  
113 100  
111 102.9 81.8 122.8  
192 18.6 15.0 22.4



#36  
1,1-Dichloropropene  
Concen: 4.862 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.146 min  
Lab File: VX026165.D  
Acq: 30 Dec 2021 14:03

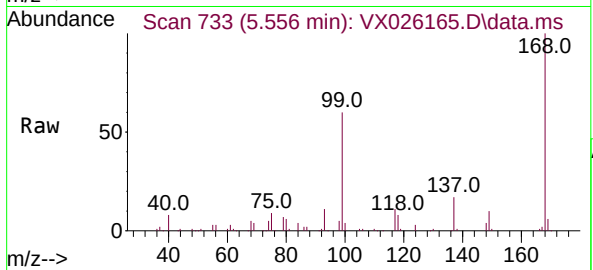
Tgt Ion: 75 Resp: 12321  
Ion Ratio Lower Upper  
75 100  
110 9.6 18.2 54.6#  
77 0.0 24.7 37.1#



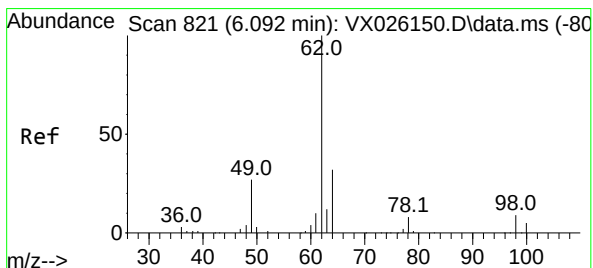
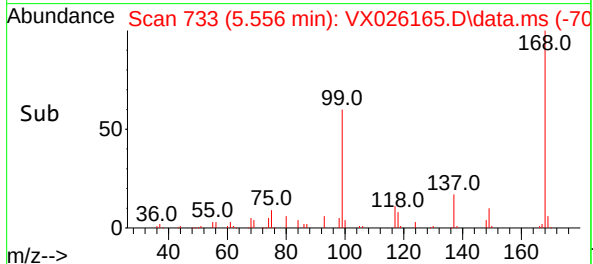
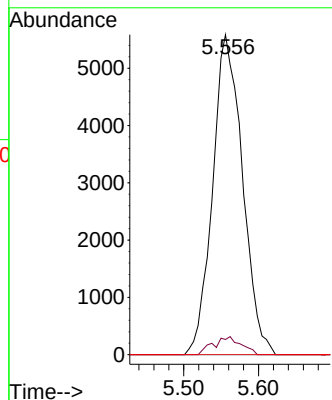


#38  
Carbon Tetrachloride  
Concen: 5.493 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.128 min  
Lab File: VX026165.D  
Acq: 30 Dec 2021 14:03

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-3RE

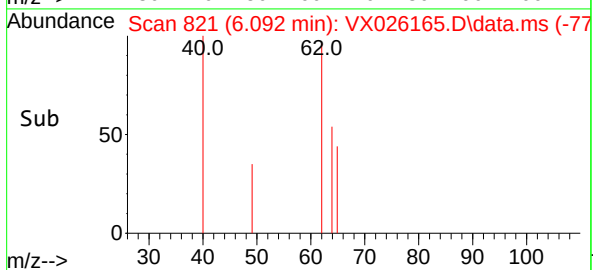
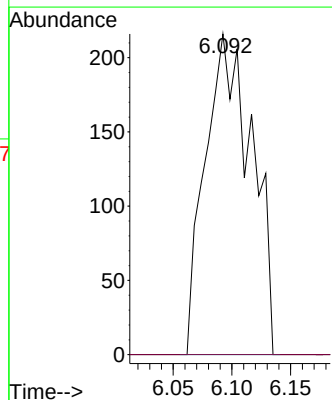
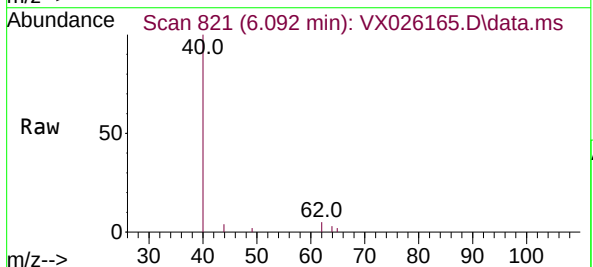


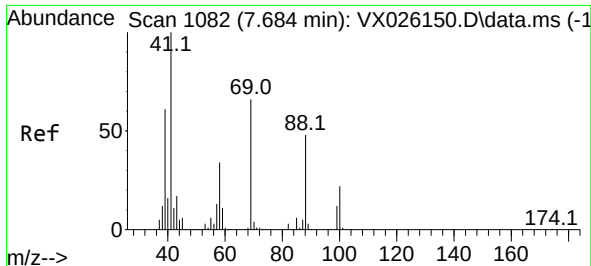
Tgt Ion:117 Resp: 15483  
Ion Ratio Lower Upper  
117 100  
119 4.7 77.2 115.8#  
121 0.0 23.8 35.8#



#42  
1,2-Dichloroethane  
Concen: 0.203 ug/l  
RT: 6.092 min Scan# 821  
Delta R.T. 0.000 min  
Lab File: VX026165.D  
Acq: 30 Dec 2021 14:03

Tgt Ion: 62 Resp: 595  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 18.8





#49

1,4-Dioxane

Concen: 9.782 ug/l

RT: 7.690 min Scan# 1083

Delta R.T. 0.006 min

Lab File: VX026165.D

Acq: 30 Dec 2021 14:03

Instrument :

MSVOA\_X

ClientSampleId :

MW-3RE

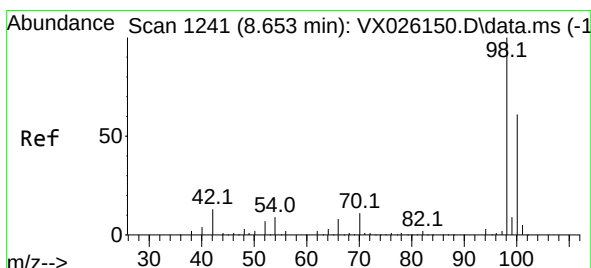
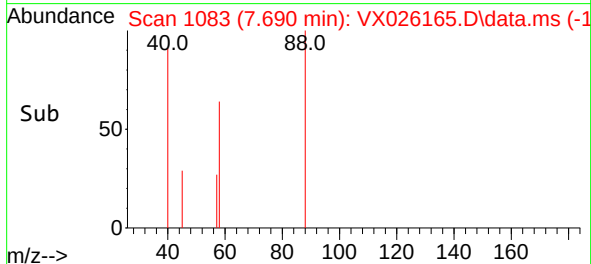
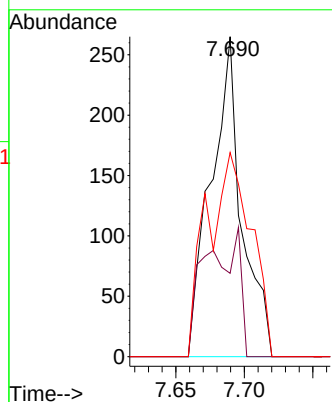
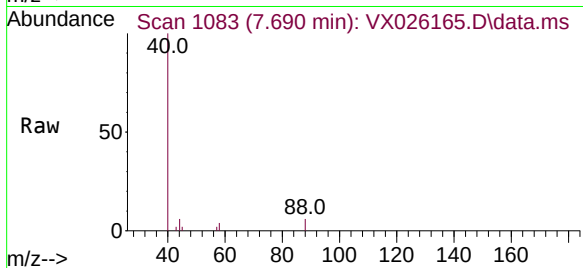
Tgt Ion: 88 Resp: 414

Ion Ratio Lower Upper

88 100

43 44.0 25.3 37.9#

58 91.3 51.8 77.6#



#50

Toluene-d8

Concen: 48.324 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX026165.D

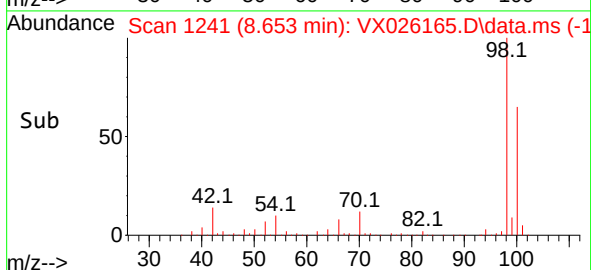
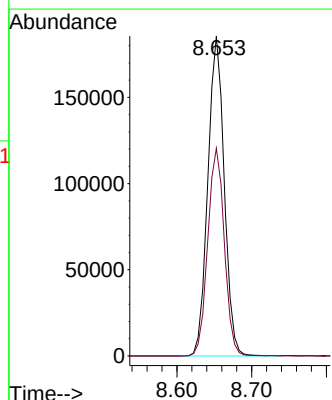
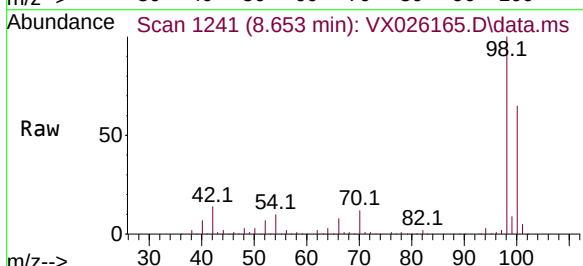
Acq: 30 Dec 2021 14:03

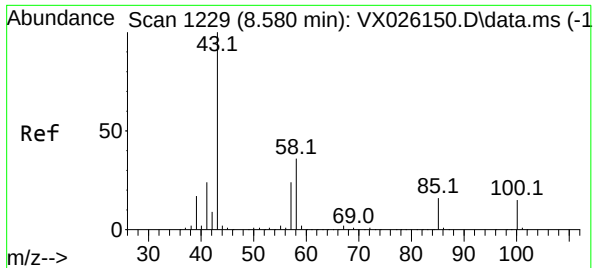
Tgt Ion: 98 Resp: 282394

Ion Ratio Lower Upper

98 100

100 65.6 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 0.528 ug/l

RT: 8.647 min Scan# 1182

Delta R.T. 0.067 min

Lab File: VX026165.D

Acq: 30 Dec 2021 14:03

Instrument :

MSVOA\_X

ClientSampleId :

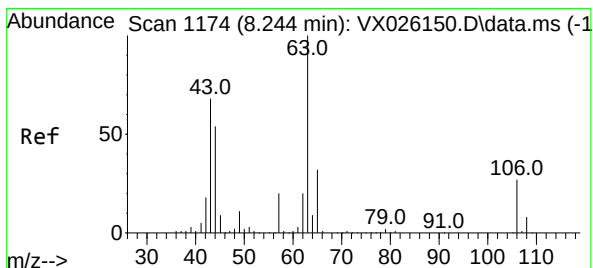
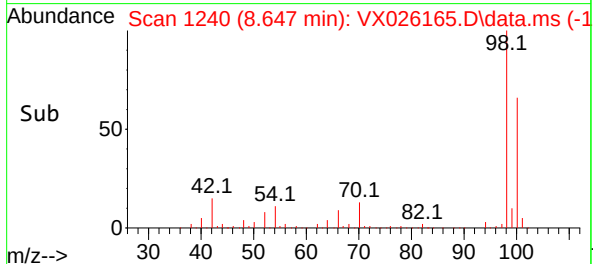
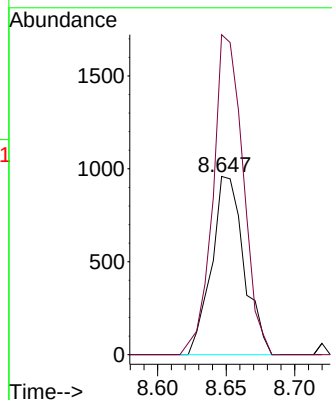
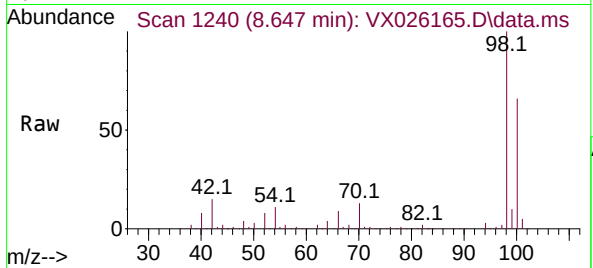
MW-3RE

Tgt Ion: 43 Resp: 1573

Ion Ratio Lower Upper

43 100

58 167.8 30.8 46.2#



#58

2-Chloroethyl Vinyl ether

Concen: 9.858 ug/l

RT: 8.293 min Scan# 1182

Delta R.T. 0.049 min

Lab File: VX026165.D

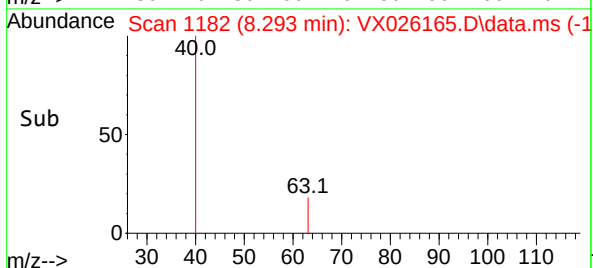
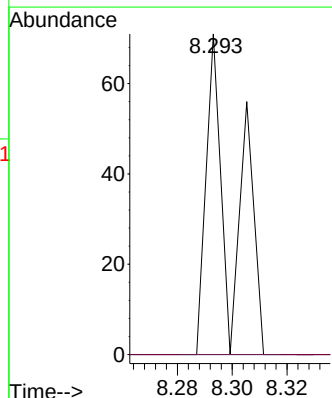
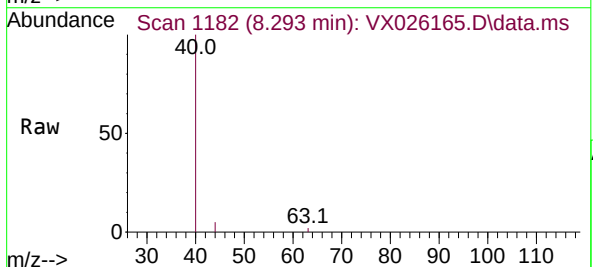
Acq: 30 Dec 2021 14:03

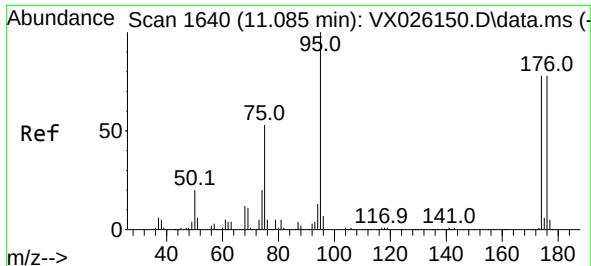
Tgt Ion: 63 Resp: 46

Ion Ratio Lower Upper

63 100

106 0.0 24.4 36.6#

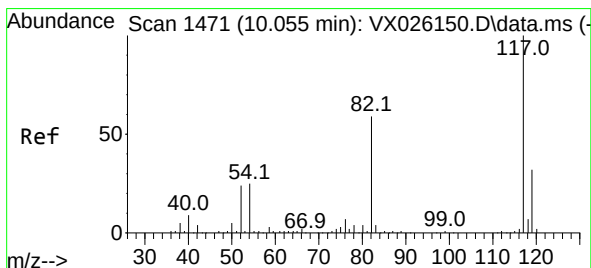
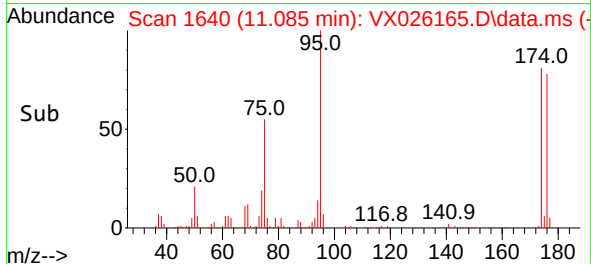
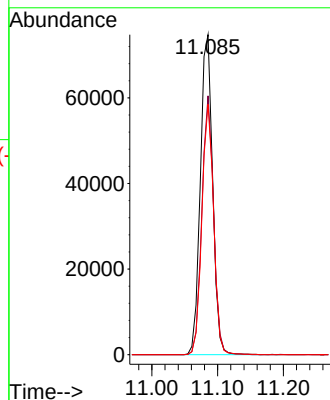
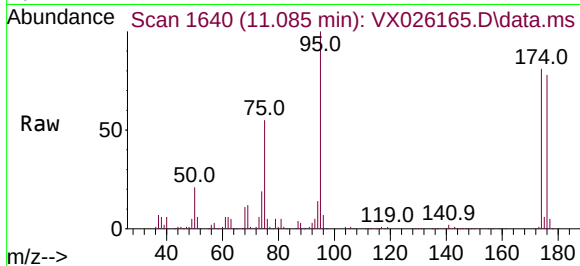




#62  
4-Bromofluorobenzene  
Concen: 46.688 ug/l  
RT: 11.085 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX026165.D  
Acq: 30 Dec 2021 14:03

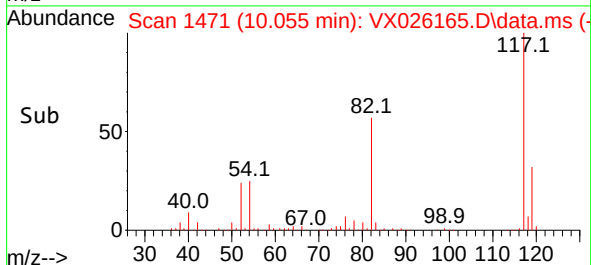
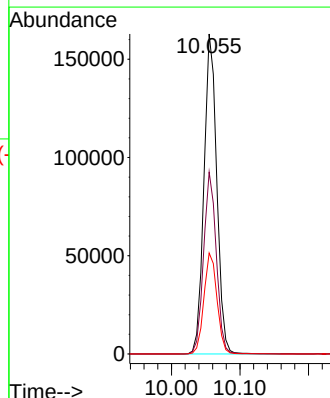
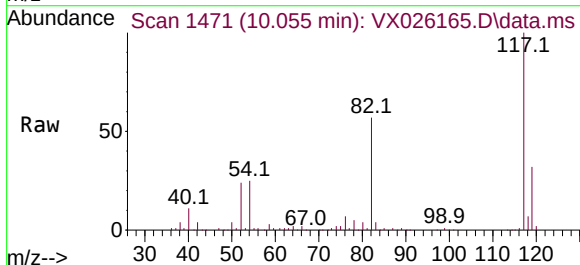
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-3RE

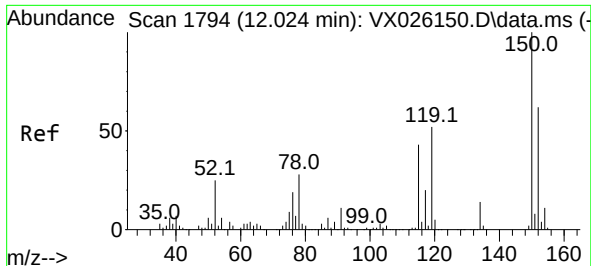
Tgt Ion: 95 Resp: 97124  
Ion Ratio Lower Upper  
95 100  
174 77.0 0.0 157.4  
176 75.0 0.0 154.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX026165.D  
Acq: 30 Dec 2021 14:03

Tgt Ion: 117 Resp: 212314  
Ion Ratio Lower Upper  
117 100  
82 56.9 43.8 65.6  
119 31.6 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX026165.D

Acq: 30 Dec 2021 14:03

Instrument :

MSVOA\_X

ClientSampleId :

MW-3RE

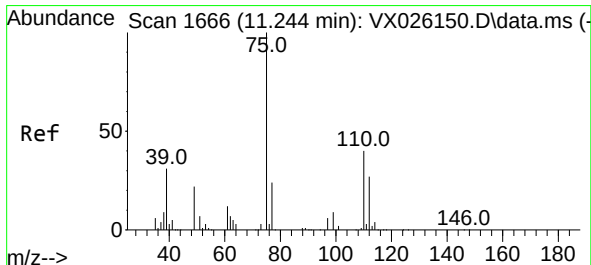
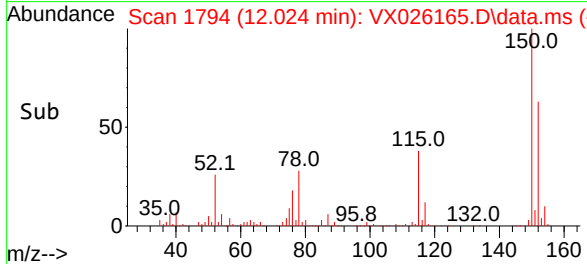
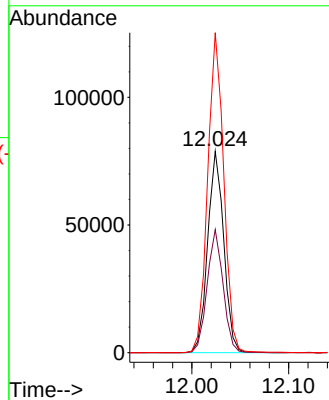
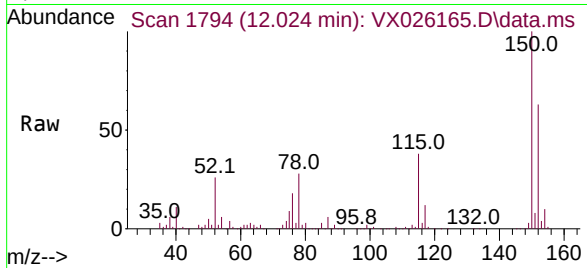
Tgt Ion:152 Resp: 91345

Ion Ratio Lower Upper

152 100

115 60.7 41.3 123.9

150 158.8 0.0 351.8



#76

1,2,3-Trichloropropane

Concen: 24.672 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. -0.159 min

Lab File: VX026165.D

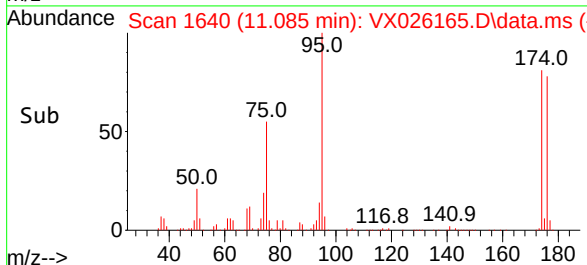
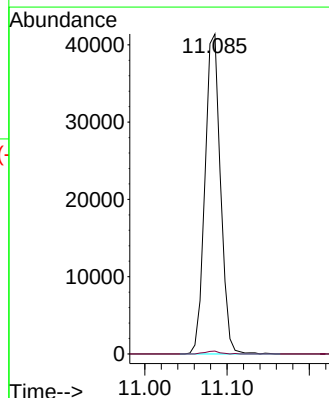
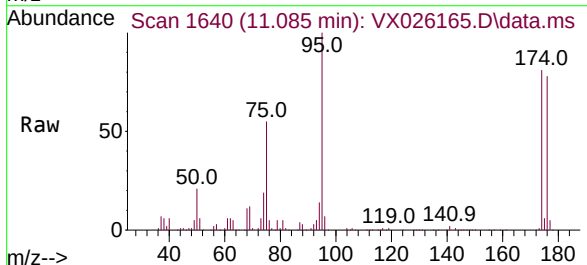
Acq: 30 Dec 2021 14:03

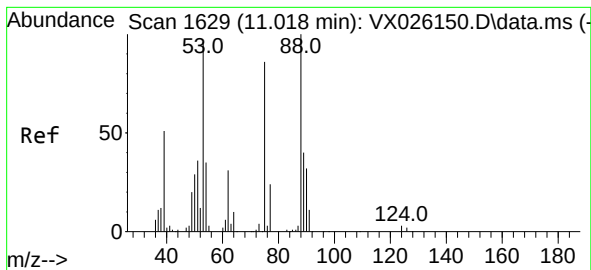
Tgt Ion: 75 Resp: 54399

Ion Ratio Lower Upper

75 100

77 0.9 19.0 57.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 71.378 ug/l  
 RT: 11.085 min Scan# 1  
 Delta R.T. 0.067 min  
 Lab File: VX026165.D  
 Acq: 30 Dec 2021 14:03

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-3RE

Tgt Ion: 75 Resp: 54399  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 79.5 119.3#  
 89 0.5 38.3 57.5#

