

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120622\  
 Data File : VX033264.D  
 Acq On : 06 Dec 2022 17:22  
 Operator : JC/MD  
 Sample : N5875-04DL 10X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-38DDL

Quant Time: Dec 07 01:34:08 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112222W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 22 13:58:46 2022  
 Response via : Initial Calibration

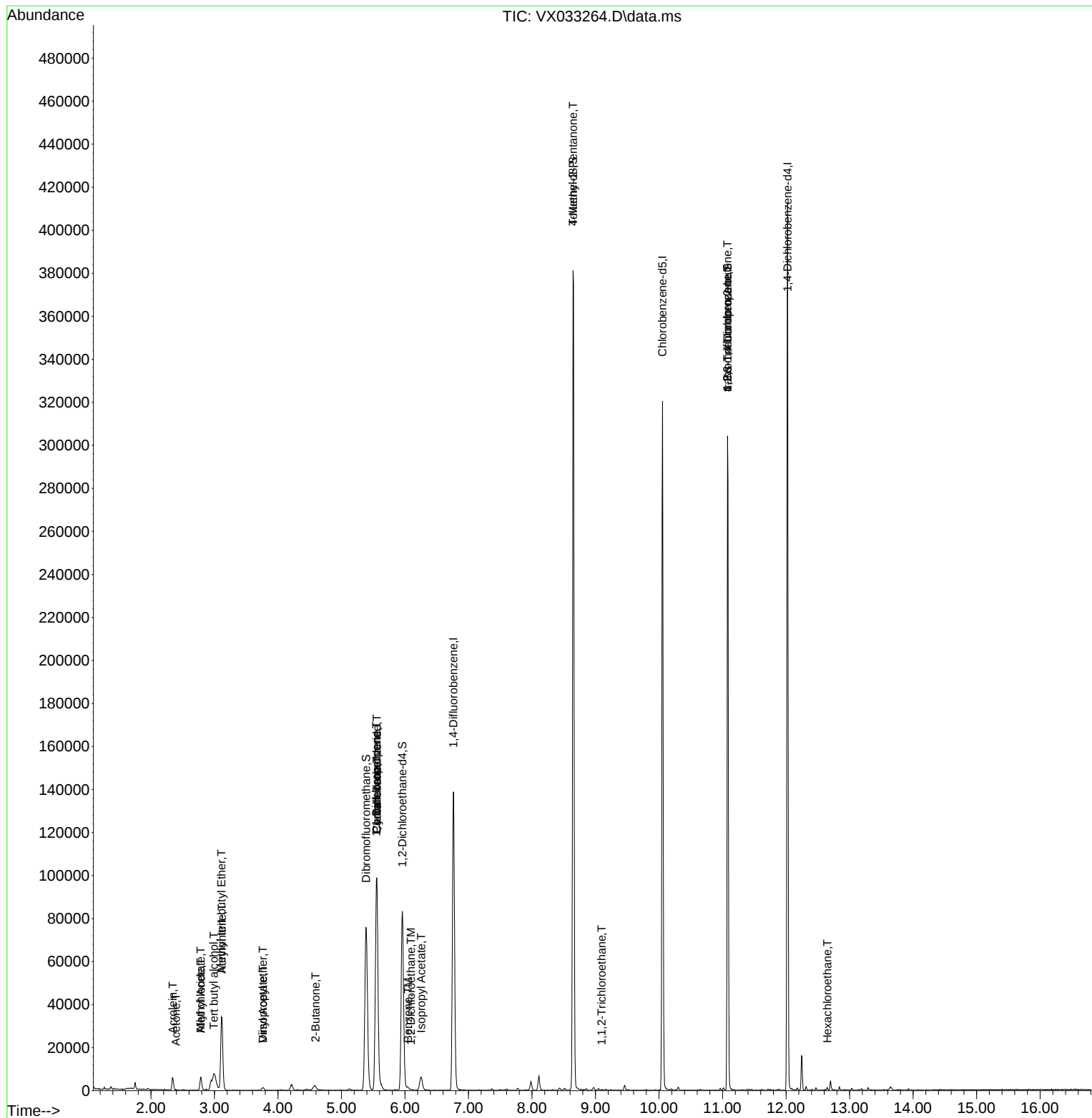
| Compound                      | R.T.   | QIon  | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------------|----------|
| -----                         |        |       |          |           |             |          |
| Internal Standards            |        |       |          |           |             |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 95059    | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 142667   | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 143280   | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 84343    | 50.000    | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 84586    | 93.809    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | = 187.620%# |          |
| 35) Dibromofluoromethane      | 5.385  | 113   | 67537    | 83.970    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 167.940%# |          |
| 50) Toluene-d8                | 8.646  | 98    | 231056   | 97.529    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | = 195.060%# |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 79296    | 75.053    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 150.100%# |          |
| Target Compounds              |        |       |          |           |             |          |
|                               |        |       |          |           | Qvalue      |          |
| 11) Tert butyl alcohol        | 2.989  | 59    | 17932    | 122.197   | ug/l #      | 80       |
| 13) Acrolein                  | 2.343  | 56    | 789      | 4.681     | ug/l        | 87       |
| 14) Allyl chloride            | 2.782  | 41    | 1449     | 1.082     | ug/l #      | 58       |
| 15) Acrylonitrile             | 3.117  | 53    | 541      | 1.303     | ug/l #      | 29       |
| 16) Acetone                   | 2.391  | 43    | 230      | 0.532     | ug/l        | 95       |
| 18) Methyl Acetate            | 2.782  | 43    | 3310     | 2.766     | ug/l #      | 51       |
| 19) Methyl tert-butyl Ether   | 3.111  | 73    | 37877    | 13.166    | ug/l        | 100      |
| 20) Methylene Chloride        | 2.788  | 84    | 854      | Below Cal | #           | 76       |
| 22) Diisopropyl ether         | 3.763  | 45    | 1337     | 0.458     | ug/l        | 96       |
| 23) Vinyl Acetate             | 3.763  | 43    | 781      | 0.342     | ug/l #      | 72       |
| 25) 2-Butanone                | 4.592  | 43    | 127      | 0.213     | ug/l #      | 47       |
| 31) Cyclohexane               | 5.556  | 56    | 1953     | 1.302     | ug/l #      | 39       |
| 36) 1,1-Dichloropropene       | 5.549  | 75    | 7315     | 5.688     | ug/l #      | 49       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 9843     | 6.899     | ug/l #      | 16       |
| 40) Benzene                   | 6.049  | 78    | 1689     | 0.468     | ug/l        | 97       |
| 42) 1,2-Dichloroethane        | 6.092  | 62    | 454      | 0.313     | ug/l #      | 77       |
| 43) Isopropyl Acetate         | 6.257  | 43    | 1715     | 0.924     | ug/l #      | 61       |
| 51) 4-Methyl-2-Pentanone      | 8.646  | 43    | 1088     | 0.950     | ug/l #      | 1        |
| 55) 1,1,2-Trichloroethane     | 9.098  | 97    | 287      | 0.297     | ug/l #      | 15       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 42028    | 26.312    | ug/l #      | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 42028    | 85.525    | ug/l #      | 6        |
| 90) Hexachloroethane          | 12.652 | 117   | 621      | 0.740     | ug/l #      | 12       |
| -----                         |        |       |          |           |             |          |

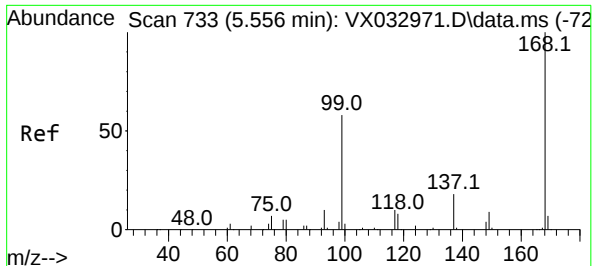
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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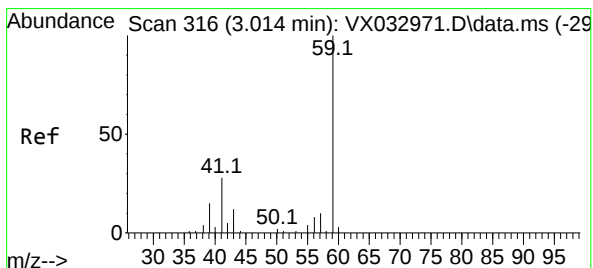
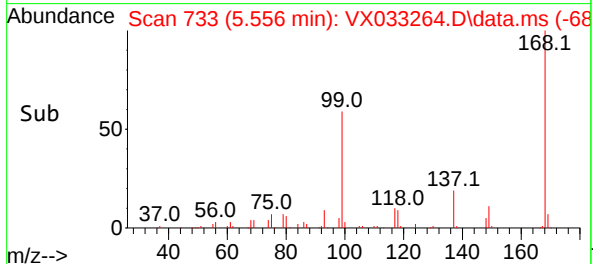
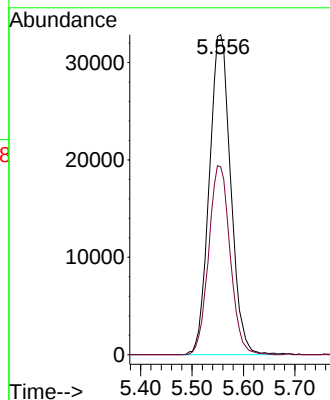
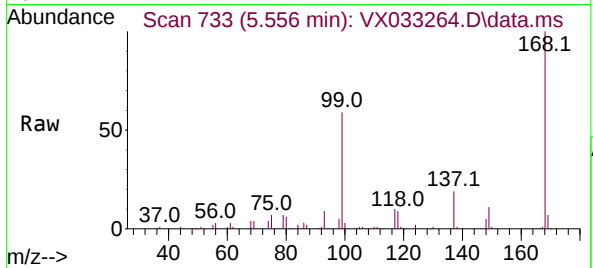




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX033264.D  
Acq: 06 Dec 2022 17:22

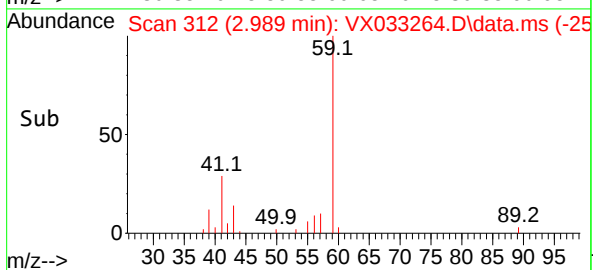
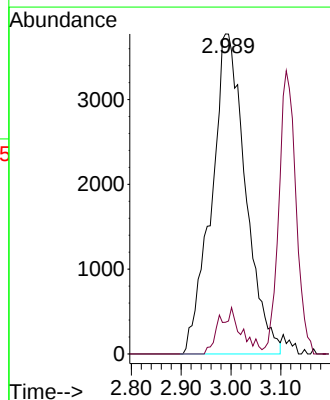
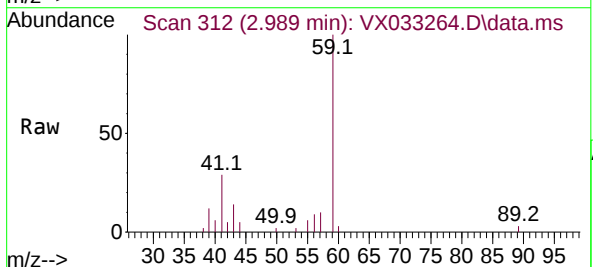
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-38DDL

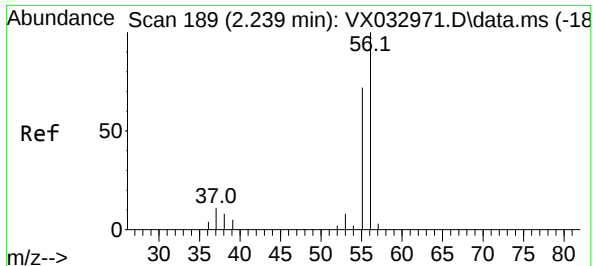
Tgt Ion:168 Resp: 95059  
Ion Ratio Lower Upper  
168 100  
99 58.7 46.1 69.1



#11  
Tert butyl alcohol  
Concen: 122.197 ug/l  
RT: 2.989 min Scan# 312  
Delta R.T. 0.024 min  
Lab File: VX033264.D  
Acq: 06 Dec 2022 17:22

Tgt Ion: 59 Resp: 17932  
Ion Ratio Lower Upper  
59 100  
57 2.9 8.2 12.4#

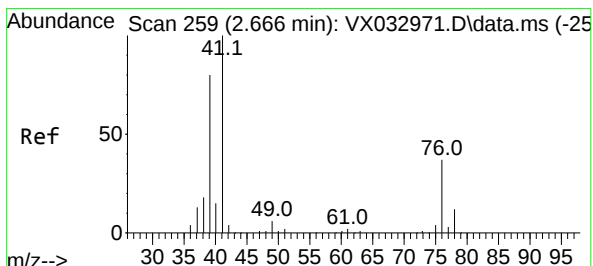
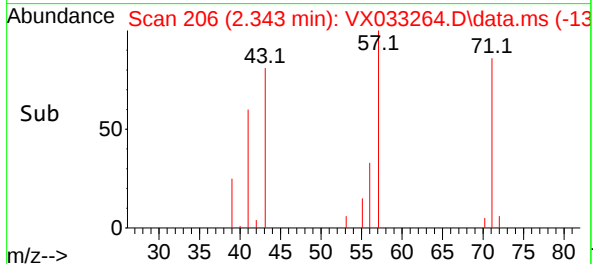
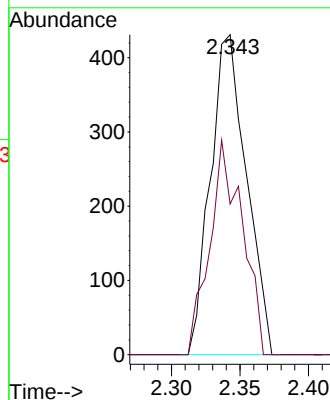
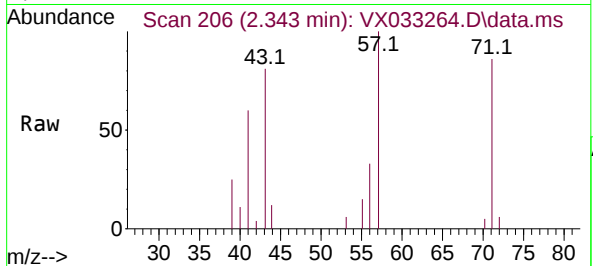




#13  
Acrolein  
Concen: 4.681 ug/l  
RT: 2.343 min Scan# 206  
Delta R.T. 0.110 min  
Lab File: VX033264.D  
Acq: 06 Dec 2022 17:22

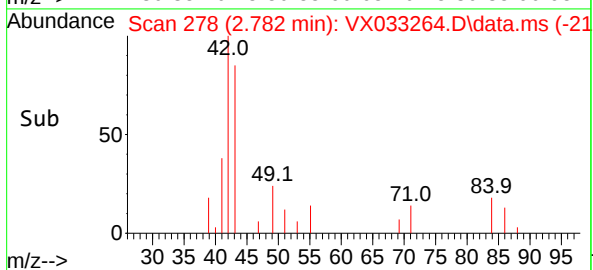
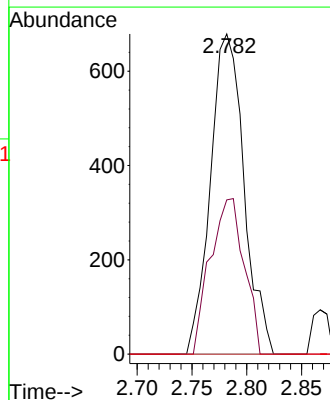
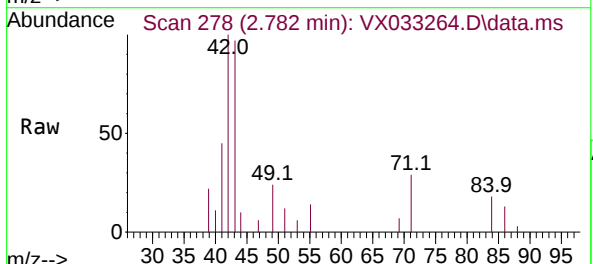
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-38DDL

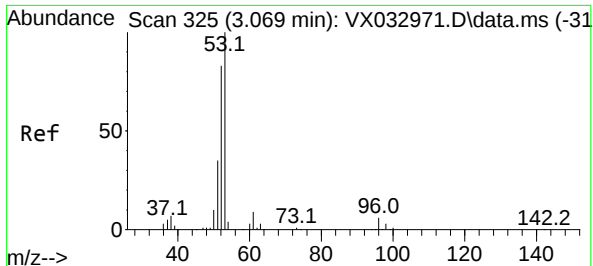
Tgt Ion: 56 Resp: 789  
Ion Ratio Lower Upper  
56 100  
55 60.7 56.9 85.3



#14  
Allyl chloride  
Concen: 1.082 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. 0.116 min  
Lab File: VX033264.D  
Acq: 06 Dec 2022 17:22

Tgt Ion: 41 Resp: 1449  
Ion Ratio Lower Upper  
41 100  
39 49.1 61.4 92.2#  
76 0.0 29.2 43.8#

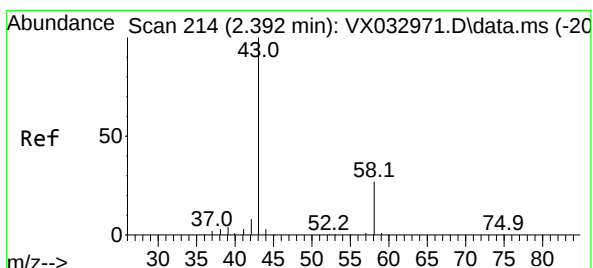
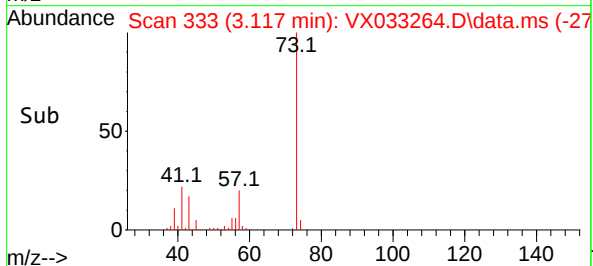
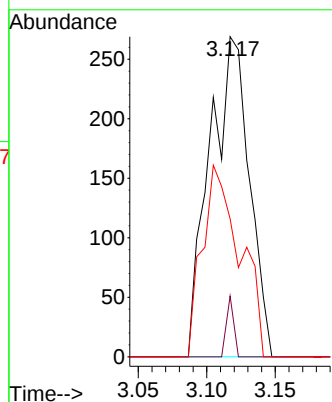
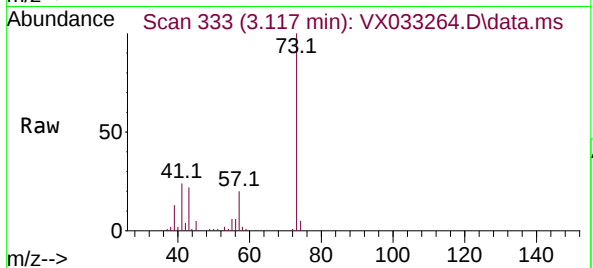




#15  
 Acrylonitrile  
 Concen: 1.303 ug/l  
 RT: 3.117 min Scan# 311  
 Delta R.T. 0.055 min  
 Lab File: VX033264.D  
 Acq: 06 Dec 2022 17:22

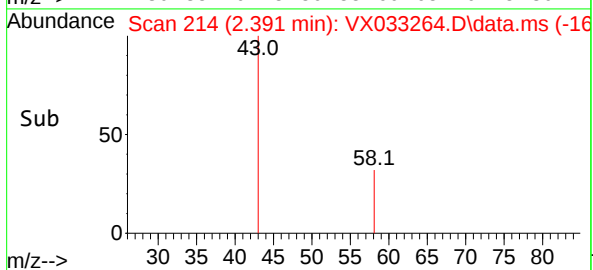
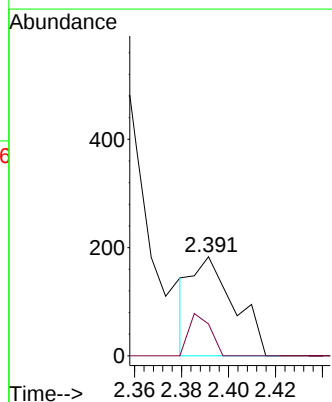
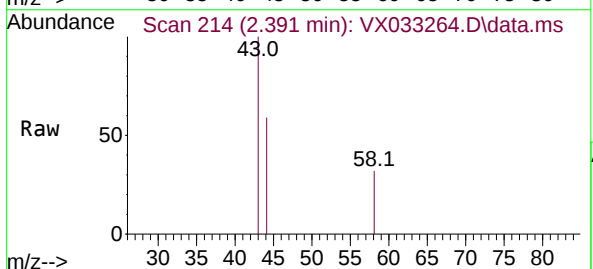
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-38DDL

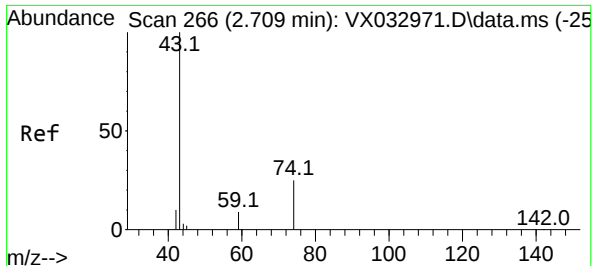
Tgt Ion: 53 Resp: 541  
 Ion Ratio Lower Upper  
 53 100  
 52 3.5 67.4 101.0#  
 51 56.7 30.3 45.5#



#16  
 Acetone  
 Concen: 0.532 ug/l  
 RT: 2.391 min Scan# 214  
 Delta R.T. 0.011 min  
 Lab File: VX033264.D  
 Acq: 06 Dec 2022 17:22

Tgt Ion: 43 Resp: 230  
 Ion Ratio Lower Upper  
 43 100  
 58 32.2 23.8 35.8





#18

Methyl Acetate

Concen: 2.766 ug/l

RT: 2.782 min Scan# 21

Delta R.T. 0.079 min

Lab File: VX033264.D

Acq: 06 Dec 2022 17:22

Instrument :

MSVOA\_X

ClientSampleId :

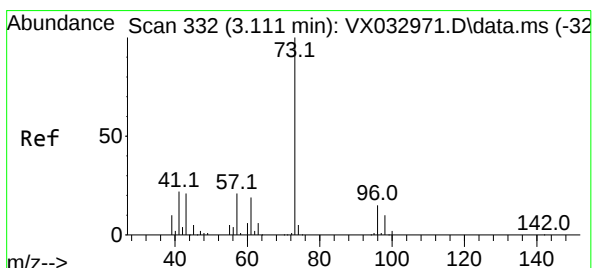
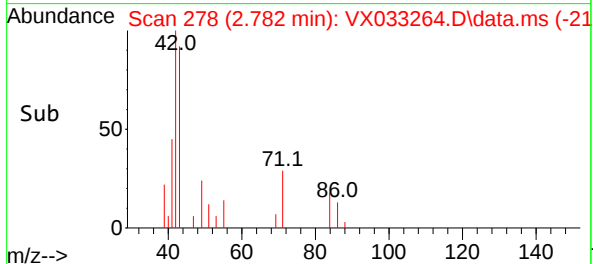
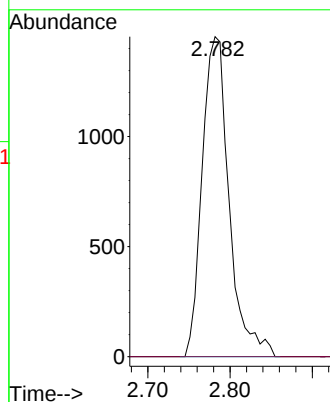
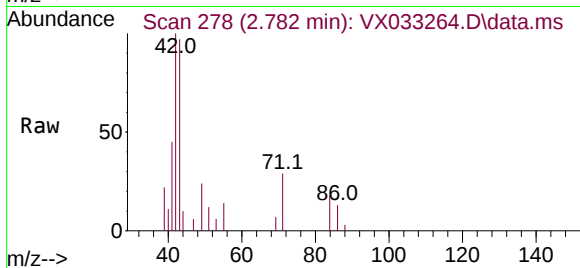
MW-38DDL

Tgt Ion: 43 Resp: 3310

Ion Ratio Lower Upper

43 100

74 0.0 19.4 29.0#



#19

Methyl tert-butyl Ether

Concen: 13.166 ug/l

RT: 3.111 min Scan# 332

Delta R.T. -0.000 min

Lab File: VX033264.D

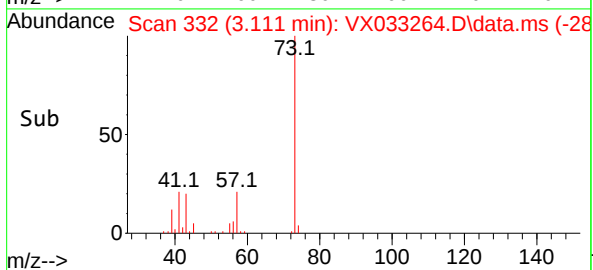
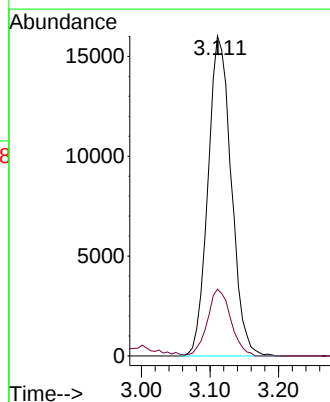
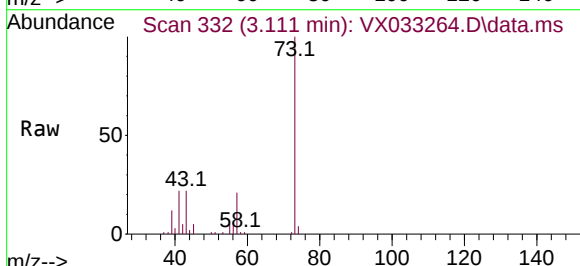
Acq: 06 Dec 2022 17:22

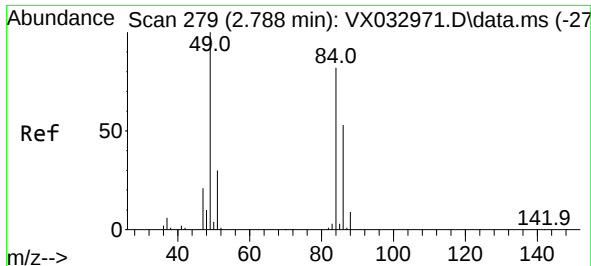
Tgt Ion: 73 Resp: 37877

Ion Ratio Lower Upper

73 100

57 20.8 16.6 25.0

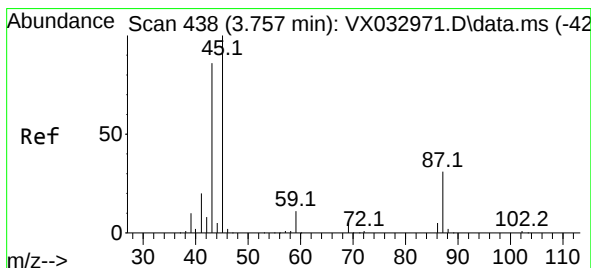
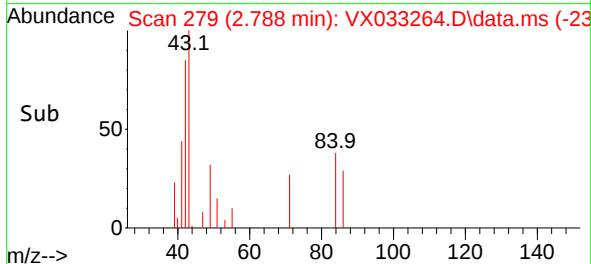
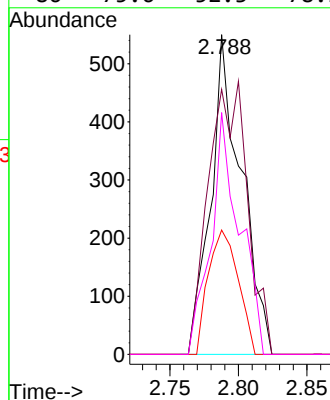
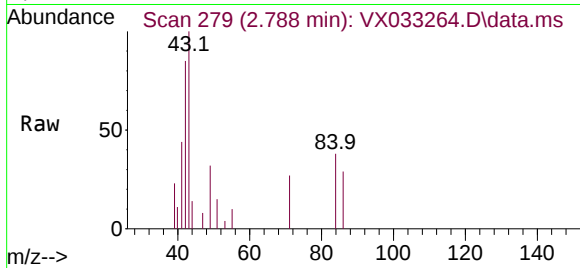




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.788 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX033264.D  
Acq: 06 Dec 2022 17:22

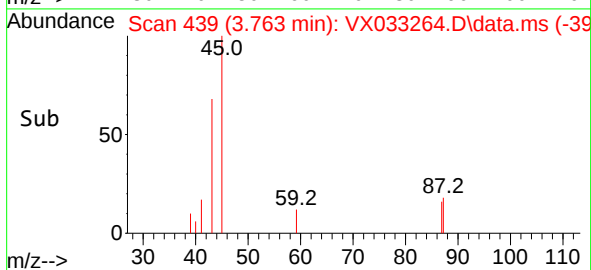
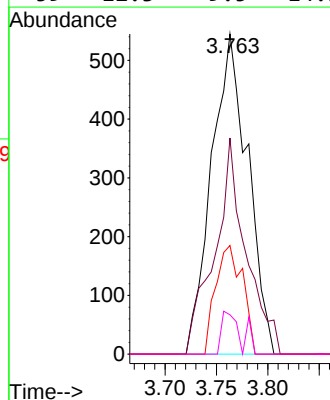
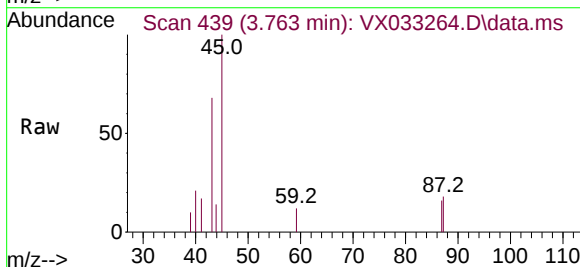
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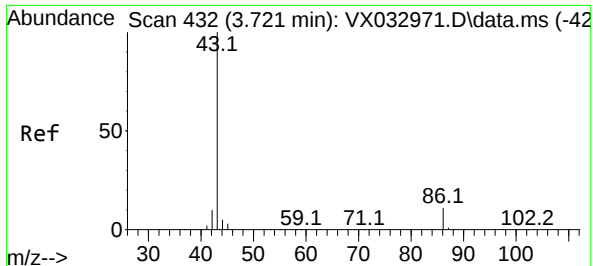
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|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 854    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 82.9  | 101.0 | 151.6# |
| 51       | 38.9  | 31.1  | 46.7   |
| 86       | 75.6  | 52.3  | 78.5   |



#22  
Diisopropyl ether  
Concen: 0.458 ug/l  
RT: 3.763 min Scan# 439  
Delta R.T. 0.000 min  
Lab File: VX033264.D  
Acq: 06 Dec 2022 17:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 45    | Resp: | 1337  |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 67.5  | 56.4  | 84.6  |
| 87       | 33.9  | 24.4  | 36.6  |
| 59       | 12.3  | 9.5   | 14.3  |

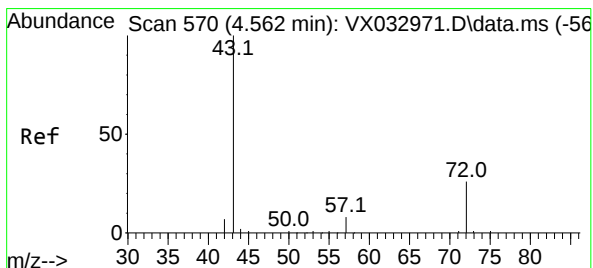
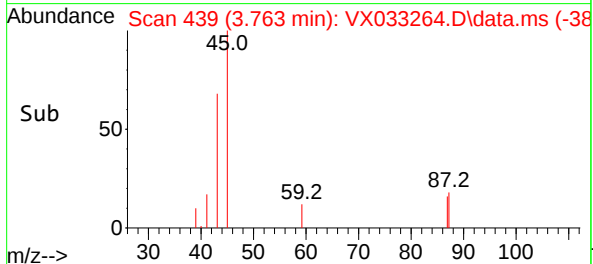
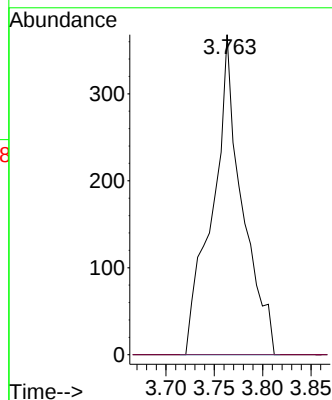
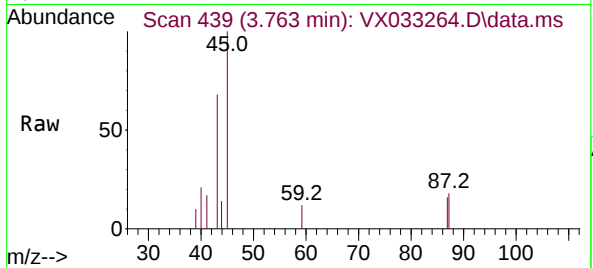




#23  
 Vinyl Acetate  
 Concen: 0.342 ug/l  
 RT: 3.763 min Scan# 41  
 Delta R.T. 0.042 min  
 Lab File: VX033264.D  
 Acq: 06 Dec 2022 17:22

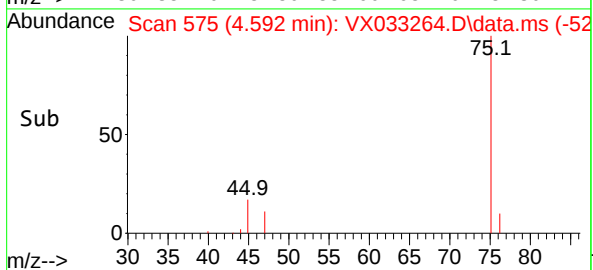
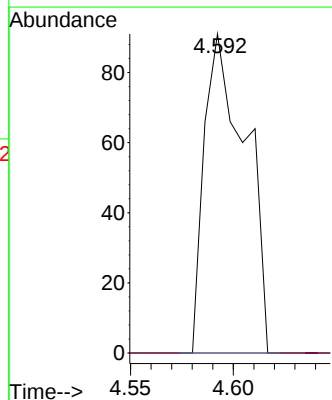
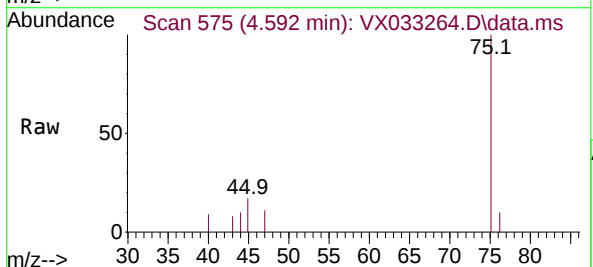
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-38DDL

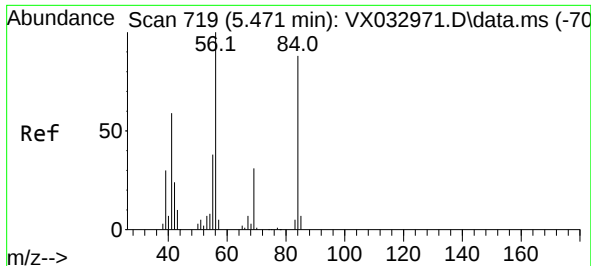
Tgt Ion: 43 Resp: 781  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 8.6 12.8#



#25  
 2-Butanone  
 Concen: 0.213 ug/l  
 RT: 4.592 min Scan# 575  
 Delta R.T. 0.036 min  
 Lab File: VX033264.D  
 Acq: 06 Dec 2022 17:22

Tgt Ion: 43 Resp: 127  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 22.2 33.2#

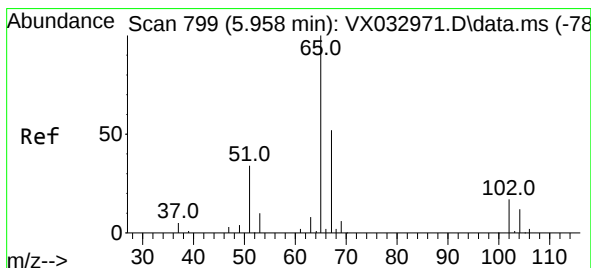
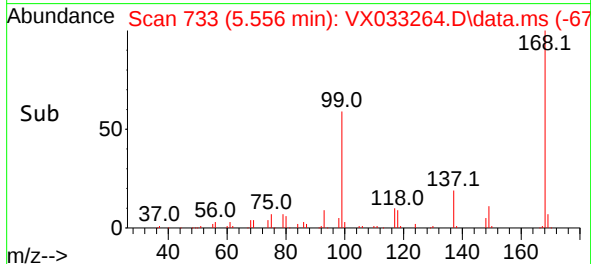
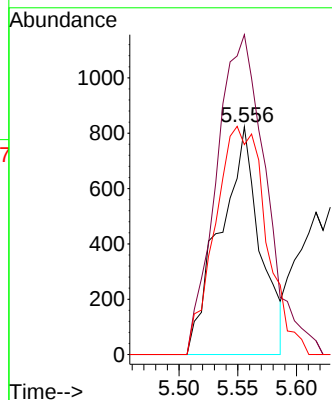
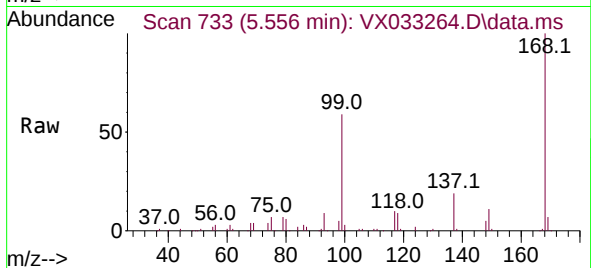




#31  
Cyclohexane  
Concen: 1.302 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.086 min  
Lab File: VX033264.D  
Acq: 06 Dec 2022 17:22

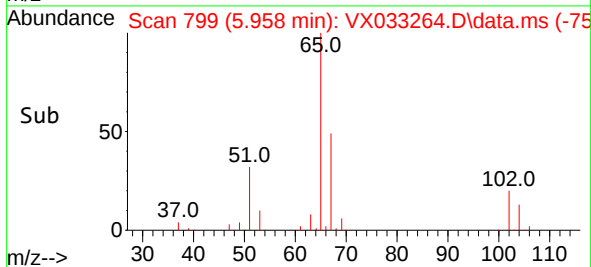
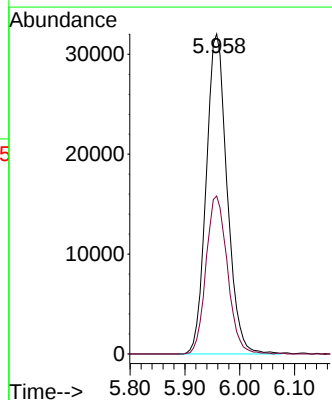
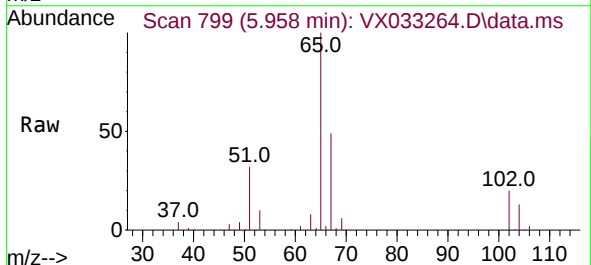
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-38DDL

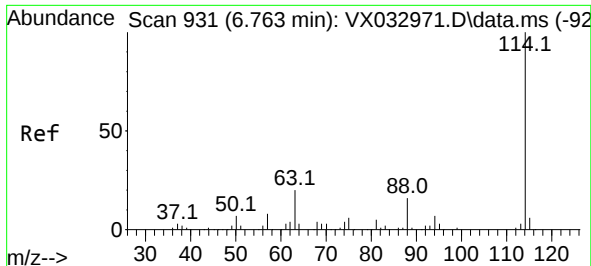
Tgt Ion: 56 Resp: 1953  
Ion Ratio Lower Upper  
56 100  
69 140.5 24.1 36.1#  
84 92.2 66.9 100.3



#33  
1,2-Dichloroethane-d4  
Concen: 93.809 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VX033264.D  
Acq: 06 Dec 2022 17:22

Tgt Ion: 65 Resp: 84586  
Ion Ratio Lower Upper  
65 100  
67 50.5 0.0 101.8

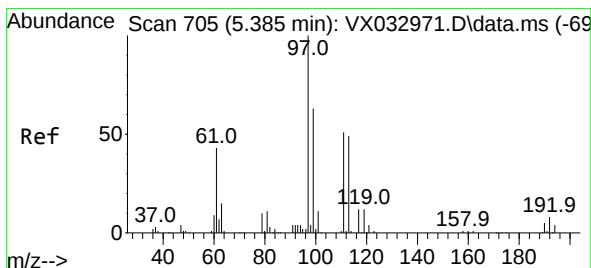
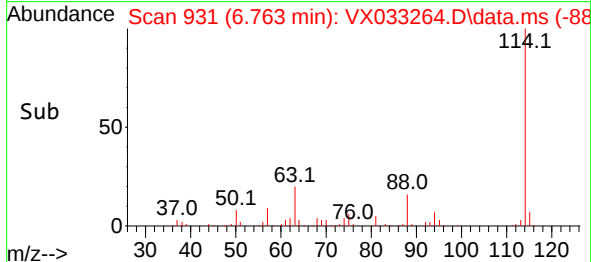
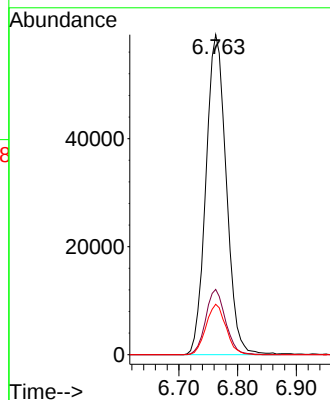
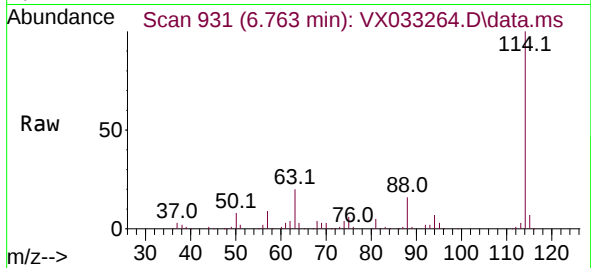




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX033264.D  
Acq: 06 Dec 2022 17:22

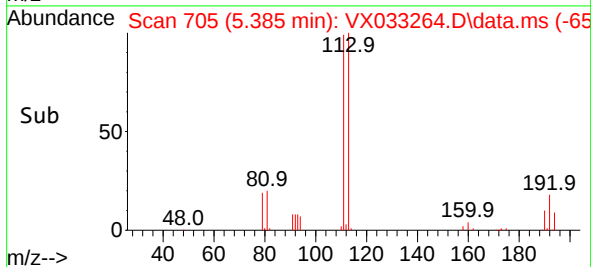
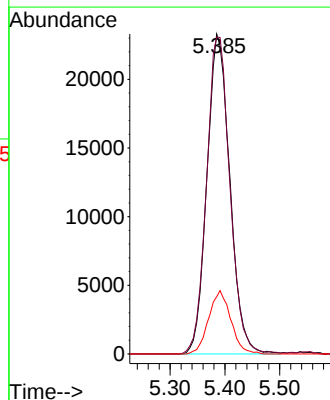
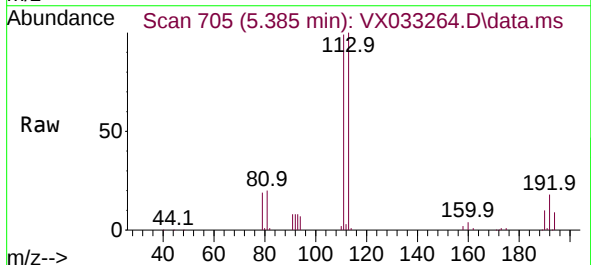
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-38DDL

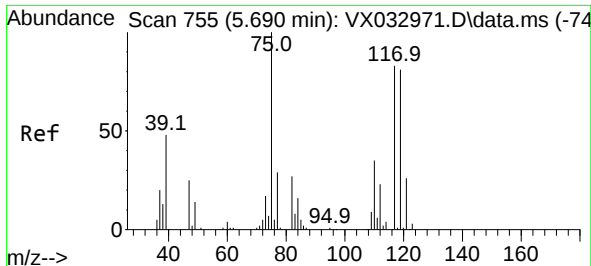
Tgt Ion:114 Resp: 142667  
Ion Ratio Lower Upper  
114 100  
63 20.4 0.0 41.6  
88 15.8 0.0 33.4



#35  
Dibromofluoromethane  
Concen: 83.970 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX033264.D  
Acq: 06 Dec 2022 17:22

Tgt Ion:113 Resp: 67537  
Ion Ratio Lower Upper  
113 100  
111 101.0 82.4 123.6  
192 19.2 15.4 23.2





#36

1,1-Dichloropropene

Concen: 5.688 ug/l

RT: 5.549 min Scan# 71

Delta R.T. -0.147 min

Lab File: VX033264.D

Acq: 06 Dec 2022 17:22

Instrument :

MSVOA\_X

ClientSampleId :

MW-38DDL

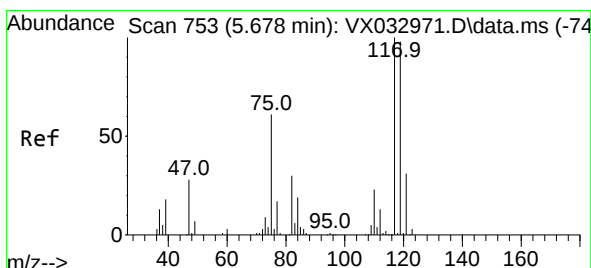
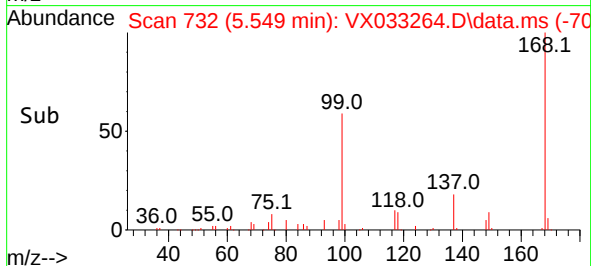
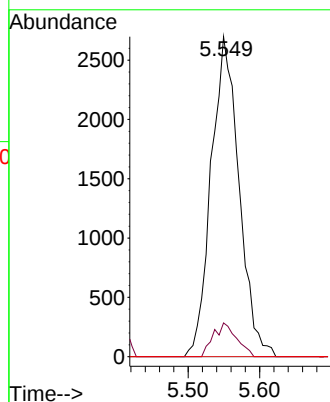
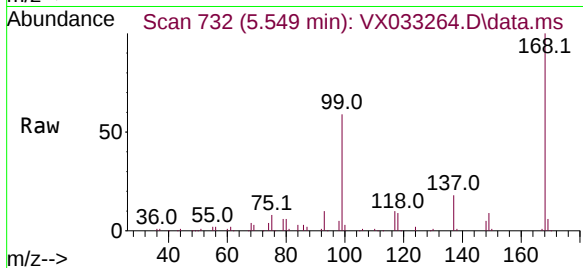
Tgt Ion: 75 Resp: 7315

Ion Ratio Lower Upper

75 100

110 8.8 18.4 55.2#

77 0.0 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 6.899 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.128 min

Lab File: VX033264.D

Acq: 06 Dec 2022 17:22

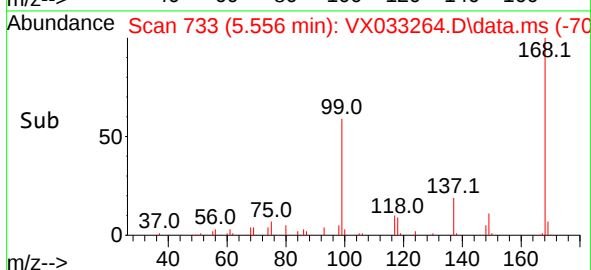
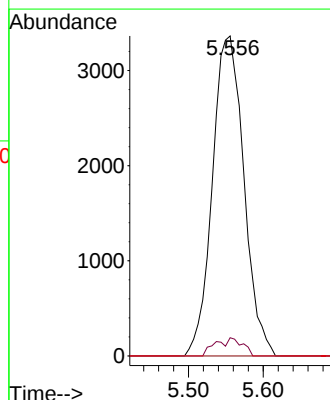
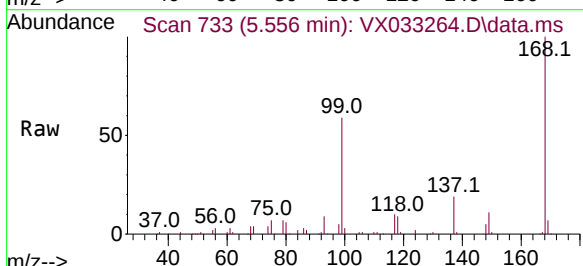
Tgt Ion: 117 Resp: 9843

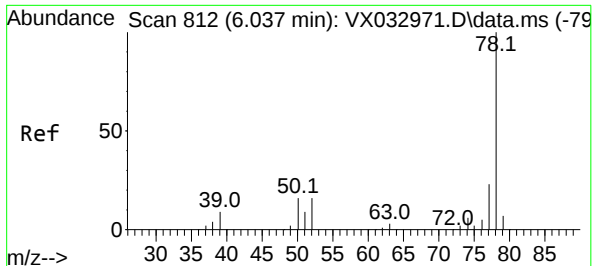
Ion Ratio Lower Upper

117 100

119 5.7 77.2 115.8#

121 0.0 25.8 38.6#

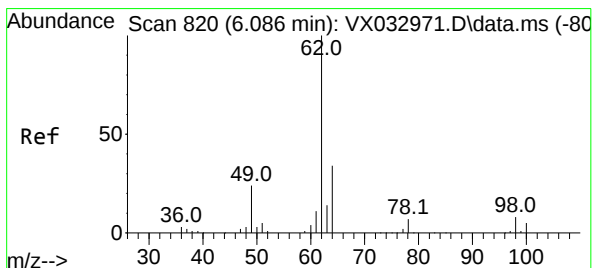
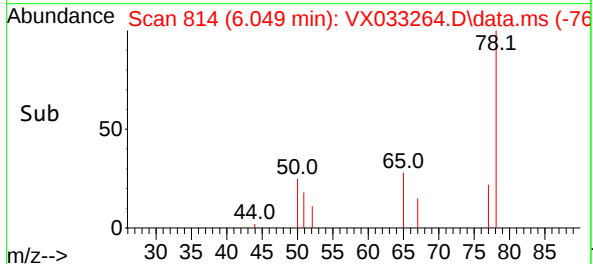
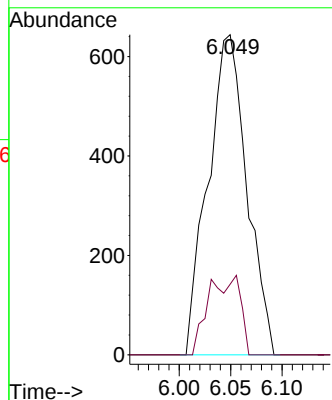
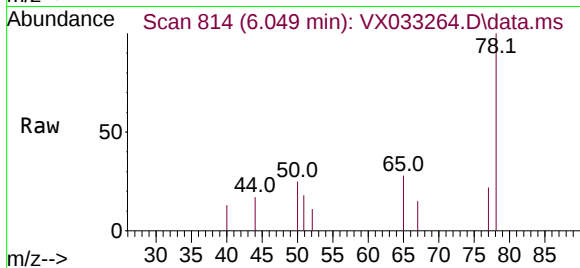




#40  
Benzene  
Concen: 0.468 ug/l  
RT: 6.049 min Scan# 812  
Delta R.T. 0.012 min  
Lab File: VX033264.D  
Acq: 06 Dec 2022 17:22

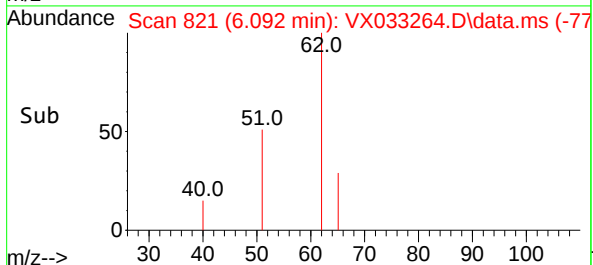
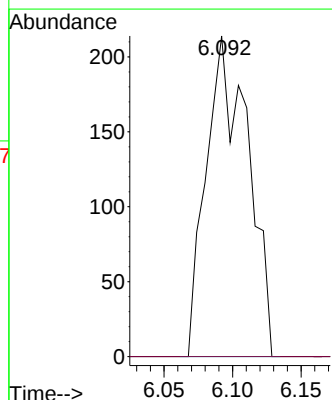
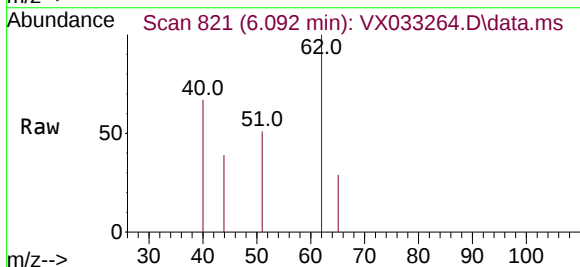
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-38DDL

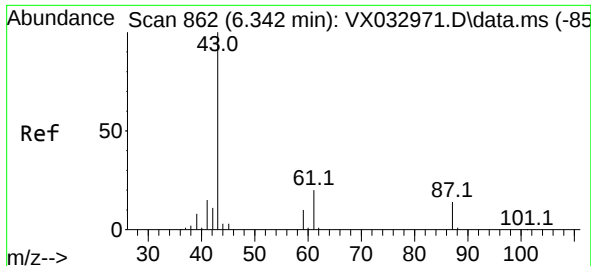
Tgt Ion: 78 Resp: 1689  
Ion Ratio Lower Upper  
78 100  
77 22.0 19.0 28.4



#42  
1,2-Dichloroethane  
Concen: 0.313 ug/l  
RT: 6.092 min Scan# 821  
Delta R.T. 0.006 min  
Lab File: VX033264.D  
Acq: 06 Dec 2022 17:22

Tgt Ion: 62 Resp: 454  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 16.0

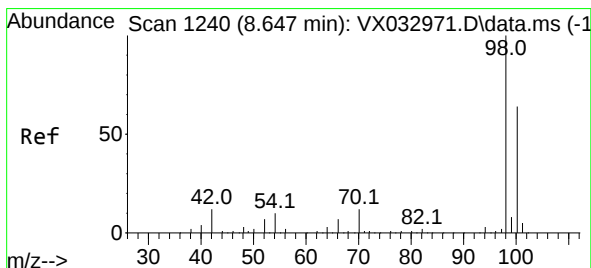
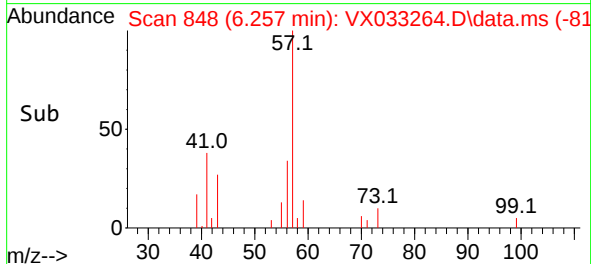
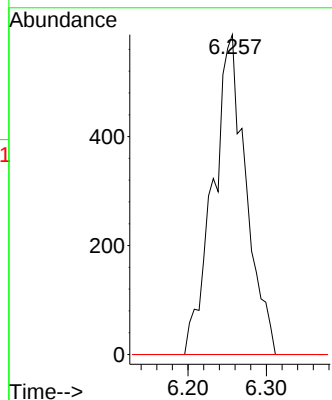
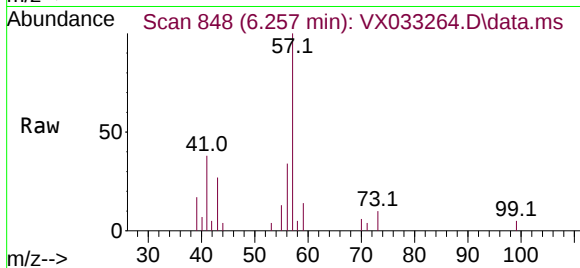




#43  
Isopropyl Acetate  
Concen: 0.924 ug/l  
RT: 6.257 min Scan# 848  
Delta R.T. -0.085 min  
Lab File: VX033264.D  
Acq: 06 Dec 2022 17:22

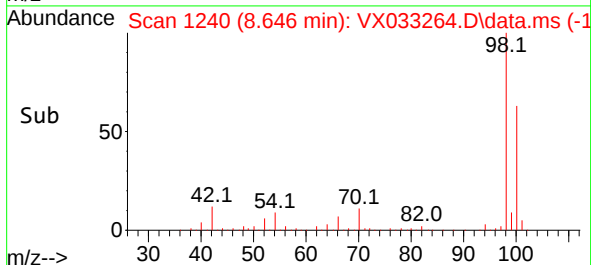
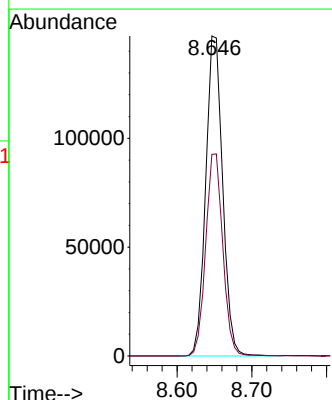
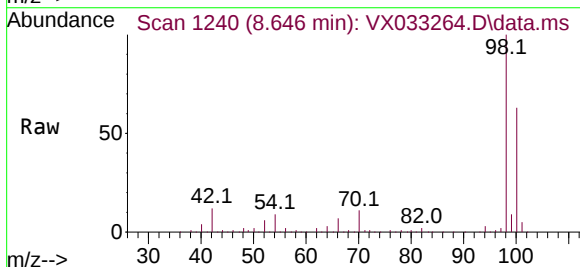
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-38DDL

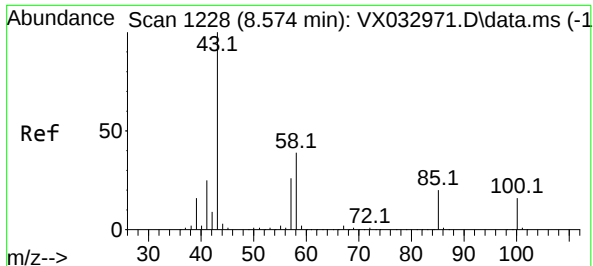
Tgt Ion: 43 Resp: 1715  
Ion Ratio Lower Upper  
43 100  
61 0.0 15.4 23.0#  
87 0.0 10.8 16.2#



#50  
Toluene-d8  
Concen: 97.529 ug/l  
RT: 8.646 min Scan# 1240  
Delta R.T. -0.007 min  
Lab File: VX033264.D  
Acq: 06 Dec 2022 17:22

Tgt Ion: 98 Resp: 231056  
Ion Ratio Lower Upper  
98 100  
100 63.8 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 0.950 ug/l

RT: 8.646 min Scan# 11

Delta R.T. 0.072 min

Lab File: VX033264.D

Acq: 06 Dec 2022 17:22

Instrument :

MSVOA\_X

ClientSampleId :

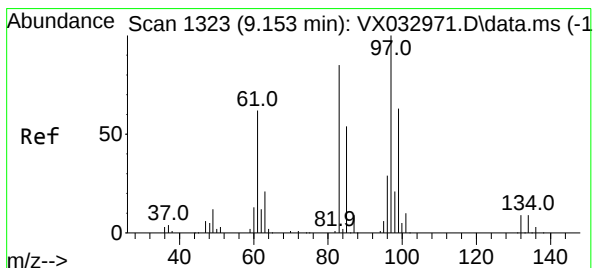
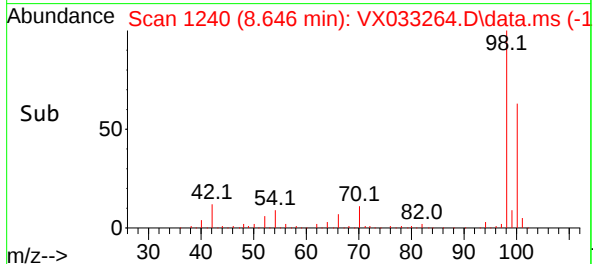
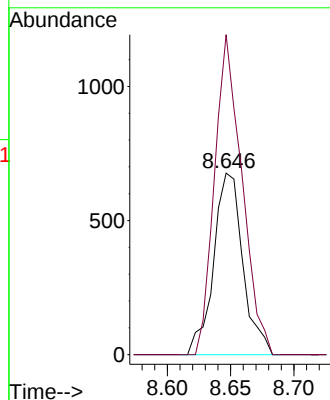
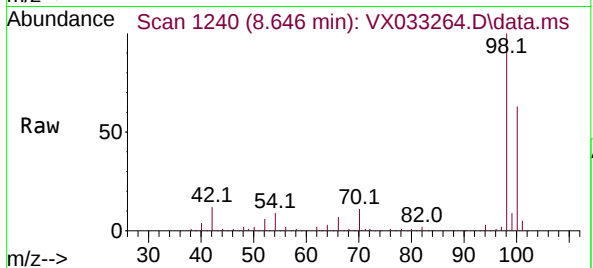
MW-38DDL

Tgt Ion: 43 Resp: 1088

Ion Ratio Lower Upper

43 100

58 165.0 30.9 46.3#



#55

1,1,2-Trichloroethane

Concen: 0.297 ug/l

RT: 9.098 min Scan# 1314

Delta R.T. -0.055 min

Lab File: VX033264.D

Acq: 06 Dec 2022 17:22

Tgt Ion: 97 Resp: 287

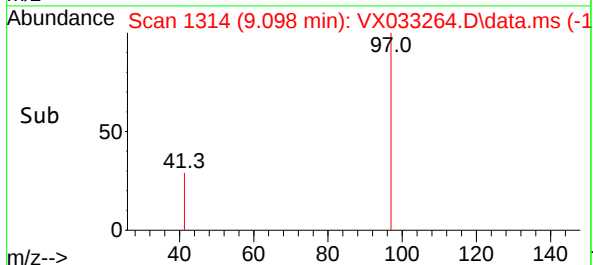
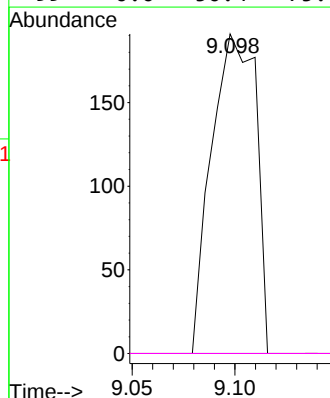
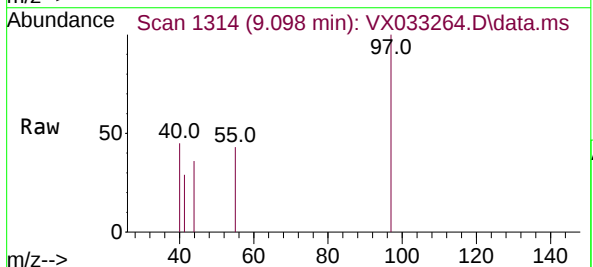
Ion Ratio Lower Upper

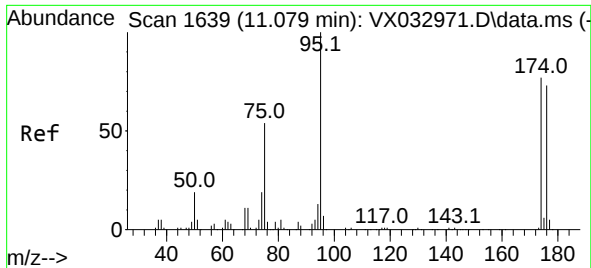
97 100

83 0.0 68.1 102.1#

85 0.0 43.3 64.9#

99 0.0 50.4 75.6#





#62

4-Bromofluorobenzene

Concen: 75.053 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX033264.D

Acq: 06 Dec 2022 17:22

Instrument :

MSVOA\_X

ClientSampleId :

MW-38DDL

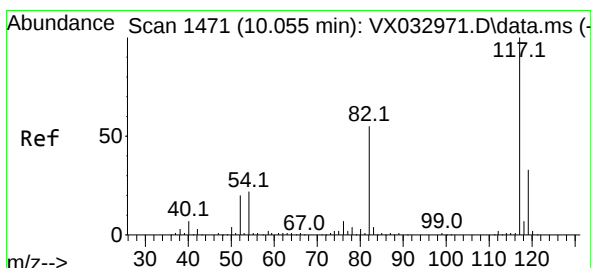
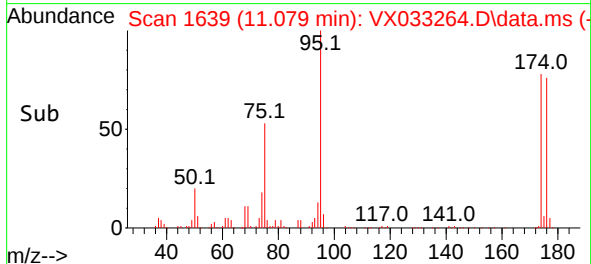
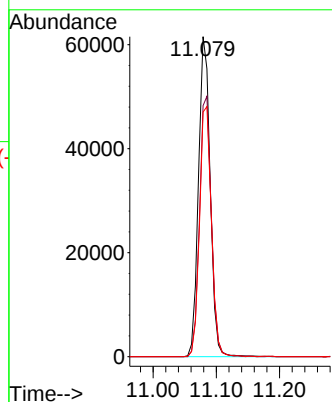
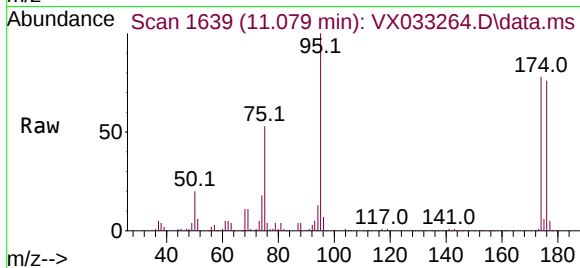
Tgt Ion: 95 Resp: 79296

Ion Ratio Lower Upper

95 100

174 82.2 0.0 164.0

176 79.6 0.0 154.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX033264.D

Acq: 06 Dec 2022 17:22

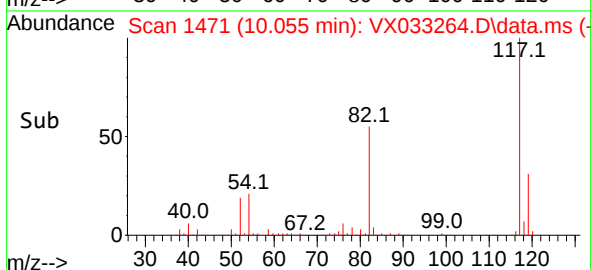
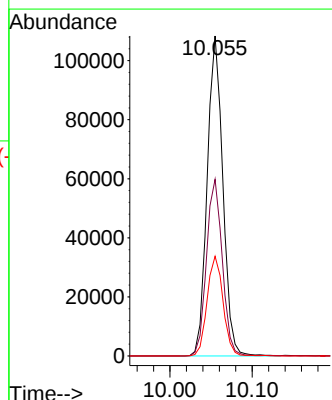
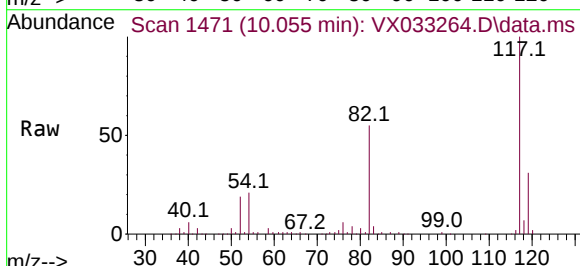
Tgt Ion: 117 Resp: 143280

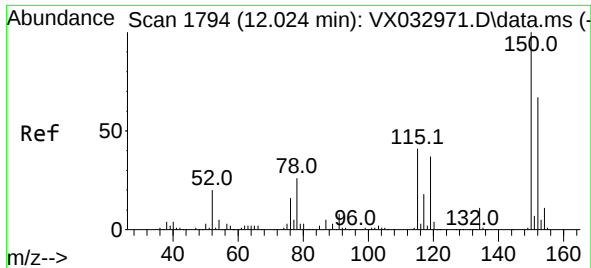
Ion Ratio Lower Upper

117 100

82 55.2 44.3 66.5

119 31.1 25.7 38.5

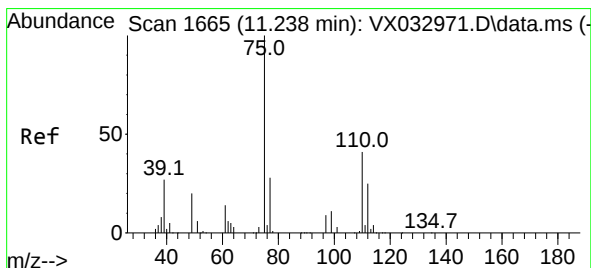
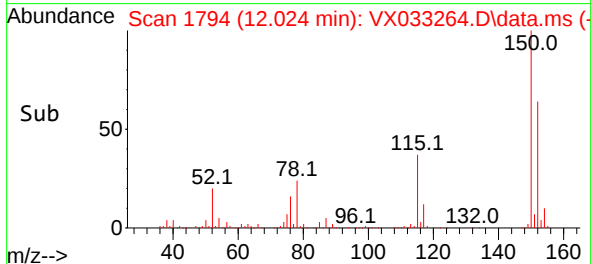
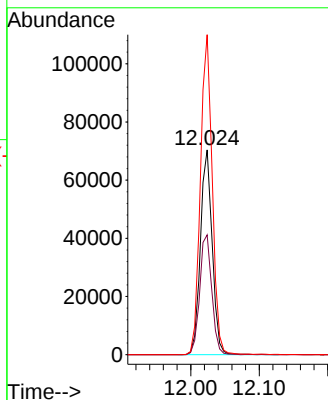
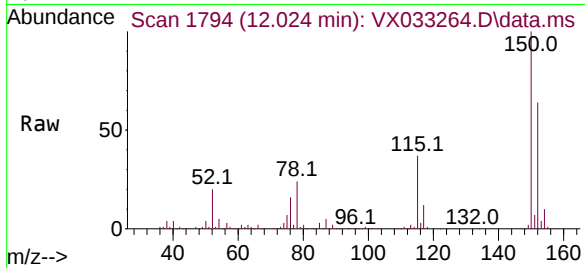




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VX033264.D  
 Acq: 06 Dec 2022 17:22

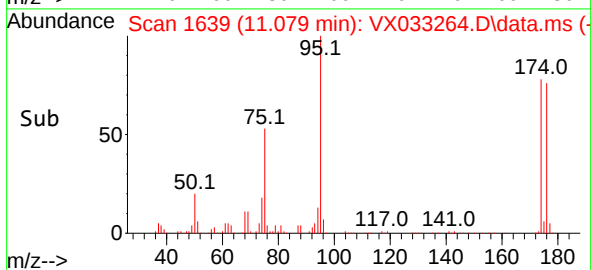
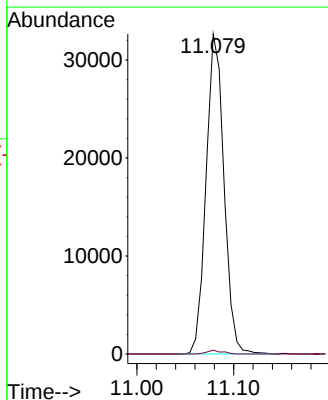
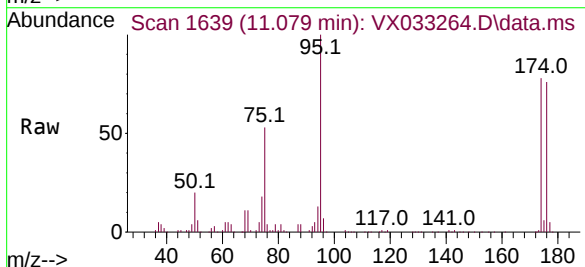
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-38DDL

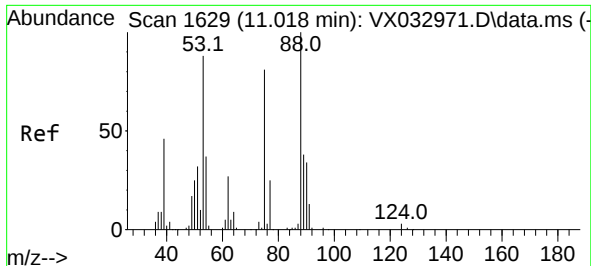
Tgt Ion:152 Resp: 84343  
 Ion Ratio Lower Upper  
 152 100  
 115 59.9 44.0 132.0  
 150 157.1 0.0 351.8



#76  
 1,2,3-Trichloropropane  
 Concen: 26.312 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.165 min  
 Lab File: VX033264.D  
 Acq: 06 Dec 2022 17:22

Tgt Ion: 75 Resp: 42028  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 20.0 60.0#

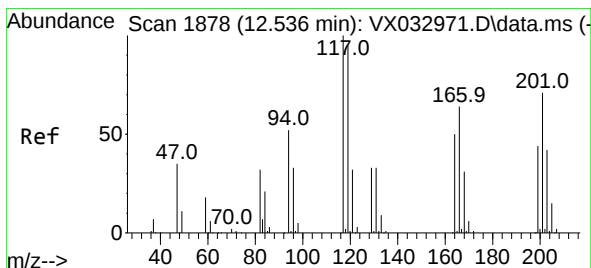
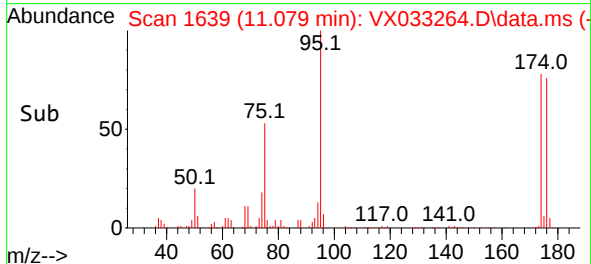
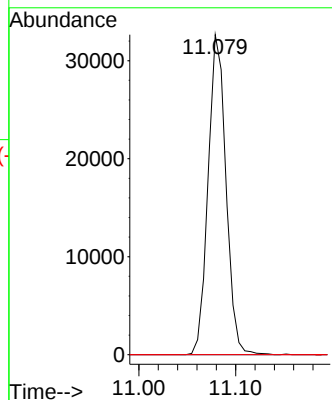
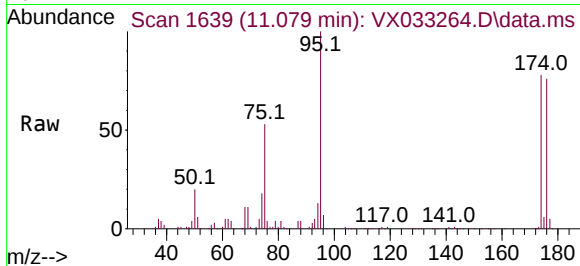




#81  
trans-1,4-Dichloro-2-butene  
Concen: 85.525 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX033264.D  
Acq: 06 Dec 2022 17:22

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-38DDL

Tgt Ion: 75 Resp: 42028  
Ion Ratio Lower Upper  
75 100  
53 0.0 86.9 130.3#  
89 0.0 38.3 57.5#



#90  
Hexachloroethane  
Concen: 0.740 ug/l  
RT: 12.652 min Scan# 1897  
Delta R.T. 0.110 min  
Lab File: VX033264.D  
Acq: 06 Dec 2022 17:22

Tgt Ion: 117 Resp: 621  
Ion Ratio Lower Upper  
117 100  
201 0.0 37.6 112.9#

