

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031722\  
 Data File : VX027511.D  
 Acq On : 18 Mar 2022 00:53  
 Operator : JC/MD  
 Sample : N1997-17  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-121

Quant Time: Mar 18 02:09:13 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031722W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 17 15:02:59 2022  
 Response via : Initial Calibration

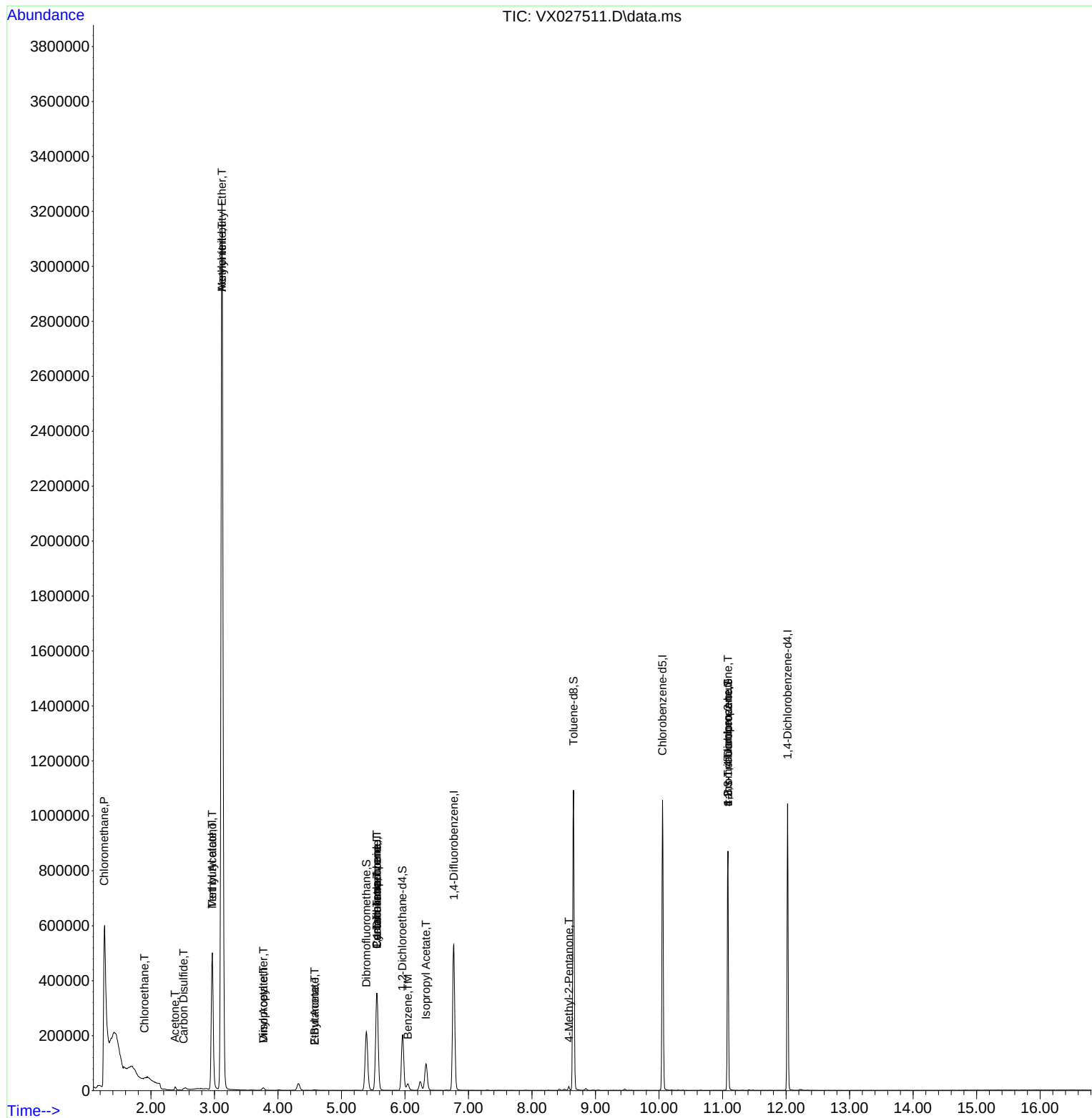
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 360012     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 587173     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 506369     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 222672     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 197768     | 44.593    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 89.180%   |        |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 191933     | 50.806    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 101.620%  |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 669690     | 46.846    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 93.700%   |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 230078     | 43.788    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 87.580%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           | Qvalue |          |
| 3) Chloromethane              | 1.264          | 50   | 28685      | 9.351     | ug/l # | 42       |
| 5) Bromomethane               | 1.617          | 94   | 316        | Below Cal |        | 86       |
| 6) Chloroethane               | 1.898          | 64   | 3725       | 1.713     | ug/l # | 46       |
| 11) Tert butyl alcohol        | 2.965          | 59   | 578084     | 683.943   | ug/l   | 99       |
| 15) Acrylonitrile             | 3.117          | 53   | 37273      | 19.397    | ug/l # | 32       |
| 16) Acetone                   | 2.380          | 43   | 11556      | 6.393     | ug/l   | 99       |
| 17) Carbon Disulfide          | 2.514          | 76   | 8785       | 1.033     | ug/l # | 91       |
| 18) Methyl Acetate            | 2.965          | 43   | 64431      | 14.872    | ug/l # | 46       |
| 19) Methyl tert-butyl Ether   | 3.117          | 73   | 3767141    | 333.998   | ug/l   | 99       |
| 22) Diisopropyl ether         | 3.770          | 45   | 9701       | 0.950     | ug/l   | 91       |
| 23) Vinyl Acetate             | 3.770          | 43   | 4902       | 0.552     | ug/l # | 66       |
| 25) 2-Butanone                | 4.574          | 43   | 3079       | 1.132     | ug/l   | 100      |
| 31) Cyclohexane               | 5.556          | 56   | 5652       | 1.026     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 23459      | 4.544     | ug/l # | 50       |
| 37) Ethyl Acetate             | 4.574          | 43   | 3079       | 0.599     | ug/l # | 67       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 33725      | 5.710     | ug/l # | 16       |
| 40) Benzene                   | 6.043          | 78   | 29069      | 1.963     | ug/l   | 100      |
| 43) Isopropyl Acetate         | 6.330          | 43   | 30861      | 3.728     | ug/l # | 4        |
| 51) 4-Methyl-2-Pentanone      | 8.580          | 43   | 7885       | 1.492     | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 110111     | 23.641    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 110111     | 71.800    | ug/l # | 15       |
| -----                         |                |      |            |           |        |          |

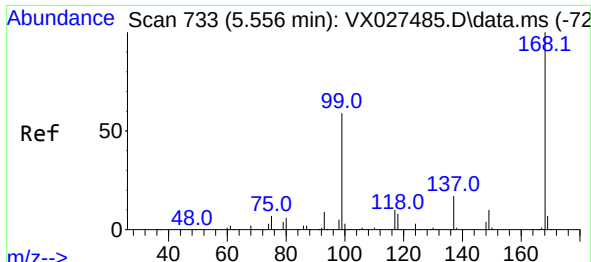
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031722\  
Data File : VX027511.D  
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Sample : N1997-17  
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ALS Vial : 33 Sample Multiplier: 1

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MSVOA\_X  
ClientSampleId :  
MW-121

Quant Time: Mar 18 02:09:13 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031722W.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 17 15:02:59 2022  
Response via : Initial Calibration

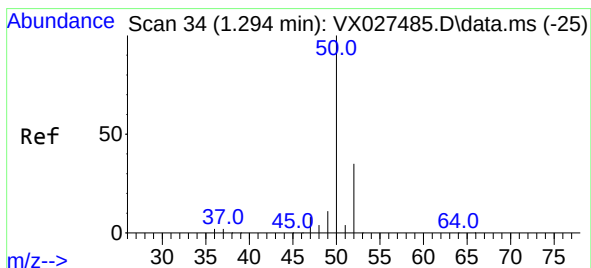
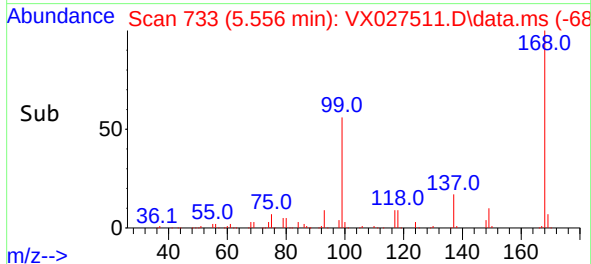
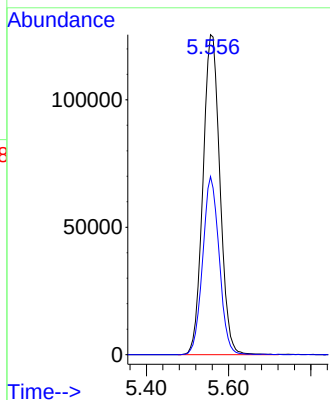
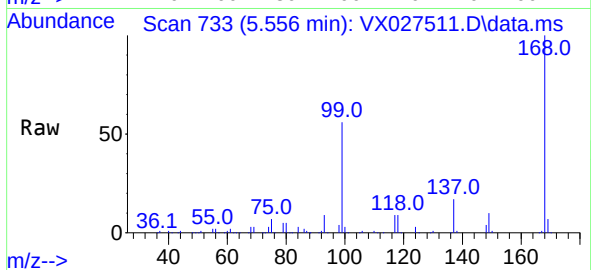




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

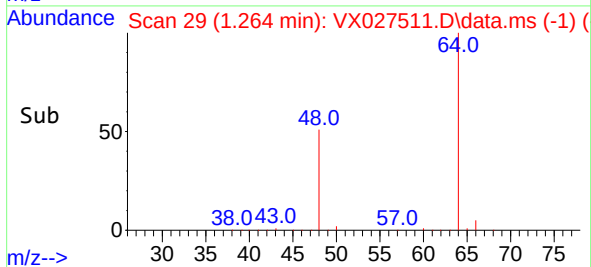
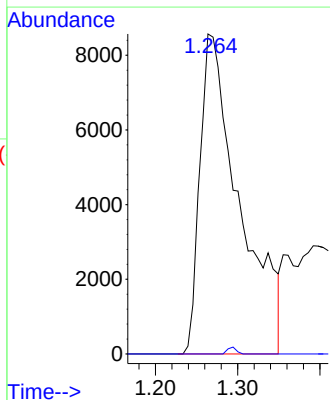
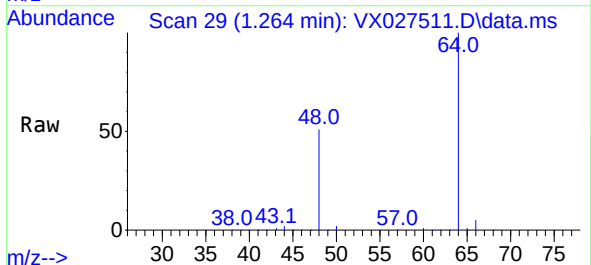
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-121

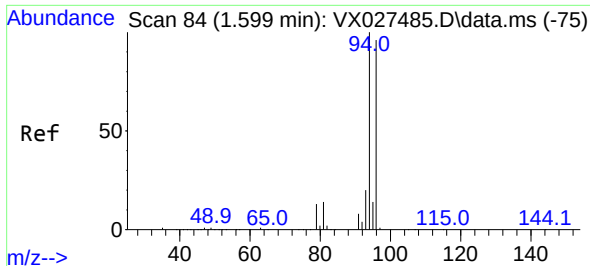
Tgt Ion:168 Resp: 360012  
Ion Ratio Lower Upper  
168 100  
99 55.7 41.7 62.5



#3  
Chloromethane  
Concen: 9.351 ug/l  
RT: 1.264 min Scan# 29  
Delta R.T. -0.030 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

Tgt Ion: 50 Resp: 28685  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.4 39.6#

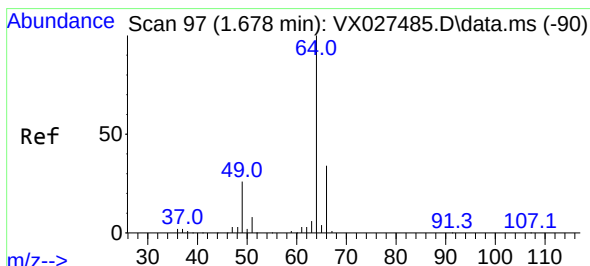
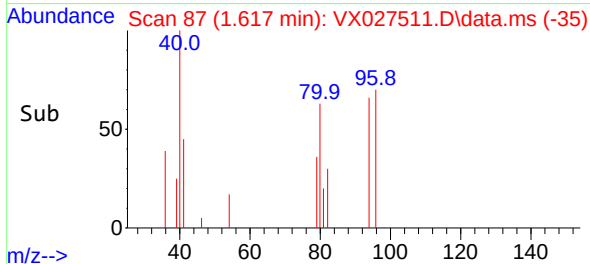
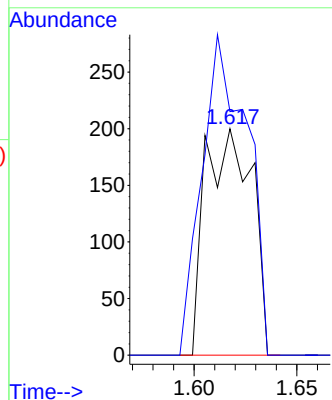
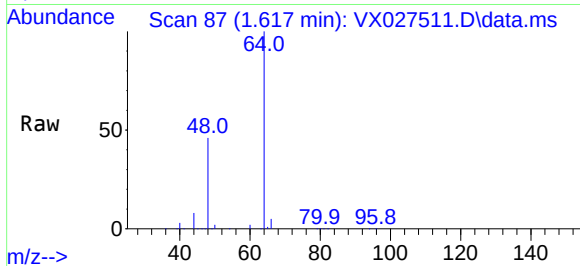




#5  
Bromomethane  
Concen: Below Cal  
RT: 1.617 min Scan# 81  
Delta R.T. 0.018 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

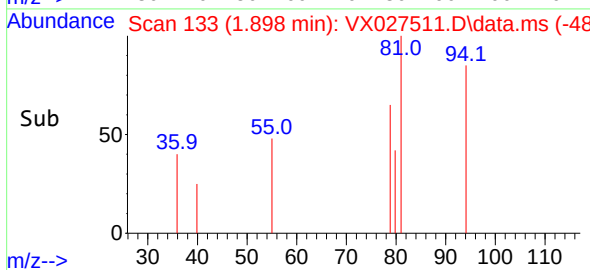
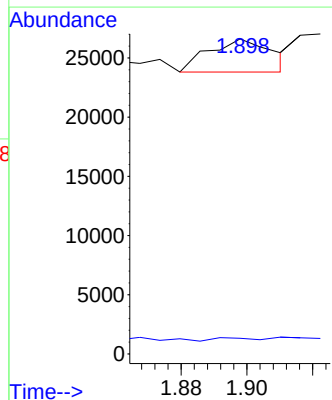
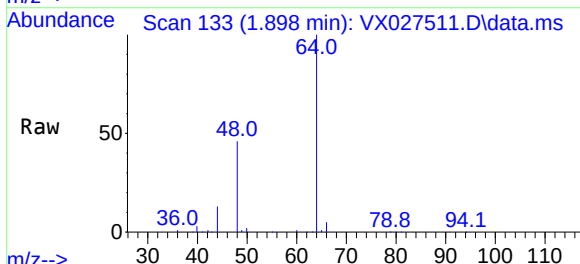
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-121

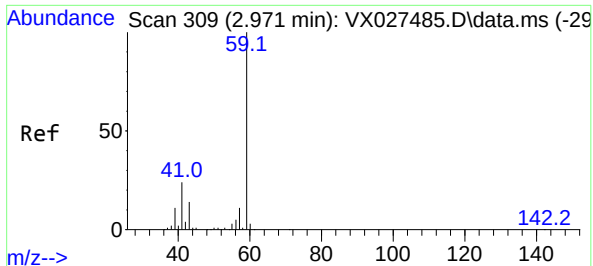
Tgt Ion: 94 Resp: 316  
Ion Ratio Lower Upper  
94 100  
96 107.5 75.3 112.9



#6  
Chloroethane  
Concen: 1.713 ug/l  
RT: 1.898 min Scan# 133  
Delta R.T. 0.220 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

Tgt Ion: 64 Resp: 3725  
Ion Ratio Lower Upper  
64 100  
66 1.5 25.3 37.9#





#11

Tert butyl alcohol

Concen: 683.943 ug/l

RT: 2.965 min Scan# 309

Delta R.T. -0.006 min

Lab File: VX027511.D

Acq: 18 Mar 2022 00:53

Instrument :

MSVOA\_X

ClientSampleId :

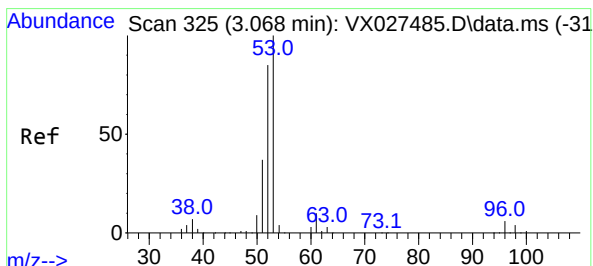
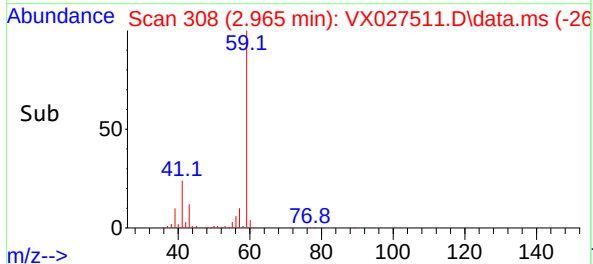
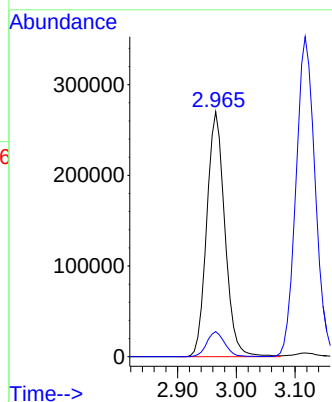
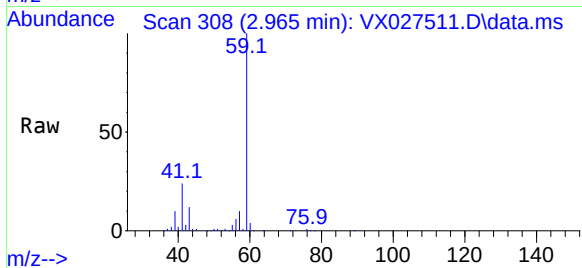
MW-121

Tgt Ion: 59 Resp: 578084

Ion Ratio Lower Upper

59 100

57 10.2 8.3 12.5



#15

Acrylonitrile

Concen: 19.397 ug/l

RT: 3.117 min Scan# 333

Delta R.T. 0.049 min

Lab File: VX027511.D

Acq: 18 Mar 2022 00:53

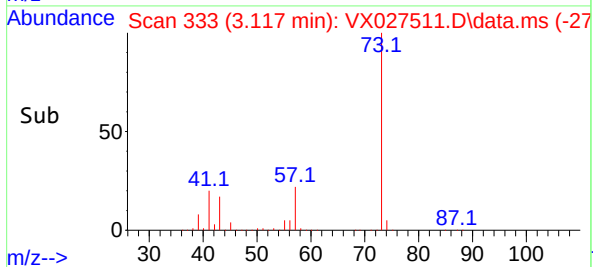
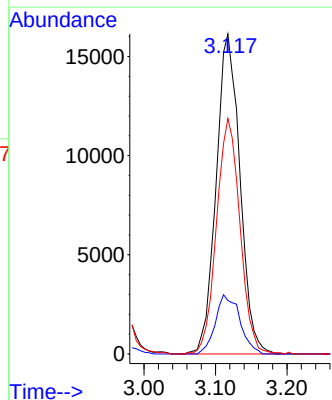
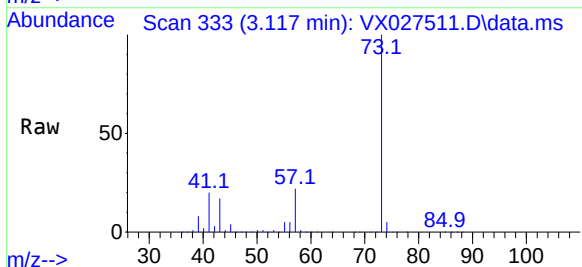
Tgt Ion: 53 Resp: 37273

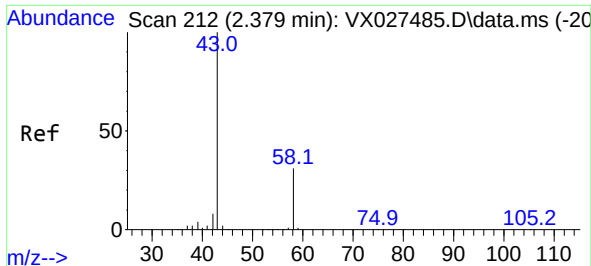
Ion Ratio Lower Upper

53 100

52 19.0 65.7 98.5#

51 72.5 28.4 42.6#

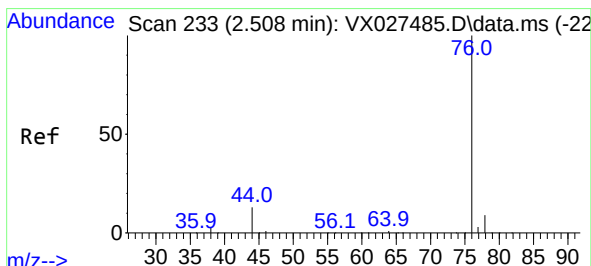
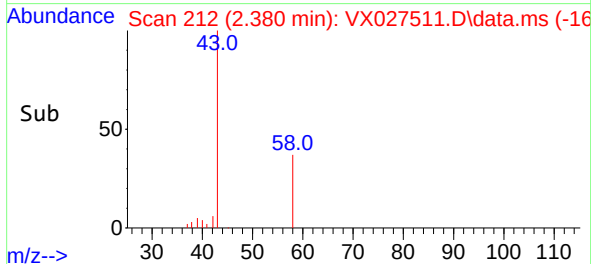
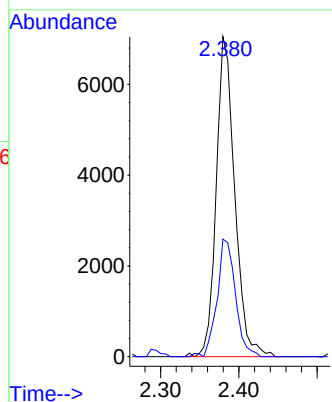
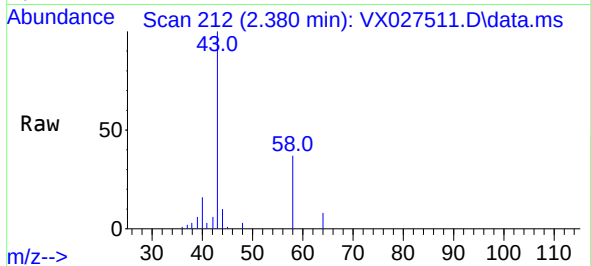




#16  
Acetone  
Concen: 6.393 ug/l  
RT: 2.380 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

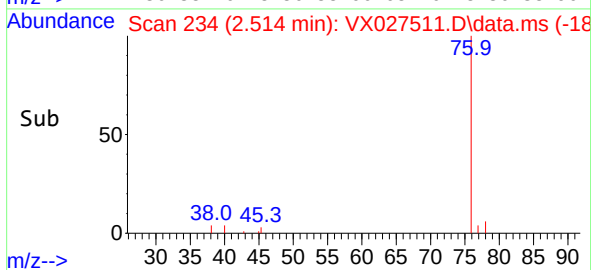
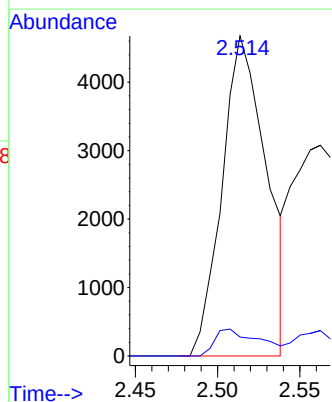
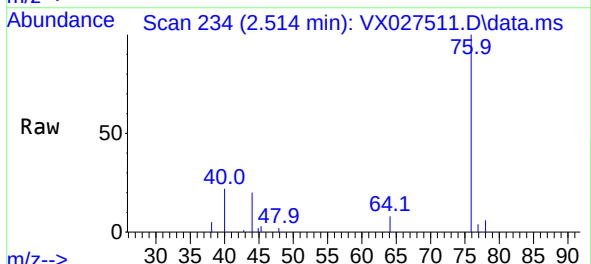
Instrument :  
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ClientSampleId :  
MW-121

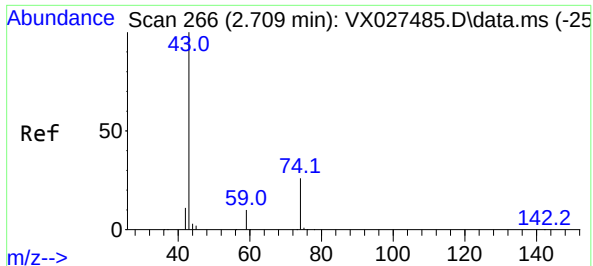
Tgt Ion: 43 Resp: 11556  
Ion Ratio Lower Upper  
43 100  
58 36.7 28.8 43.2



#17  
Carbon Disulfide  
Concen: 1.033 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. 0.006 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

Tgt Ion: 76 Resp: 8785  
Ion Ratio Lower Upper  
76 100  
78 5.9 7.2 10.8#

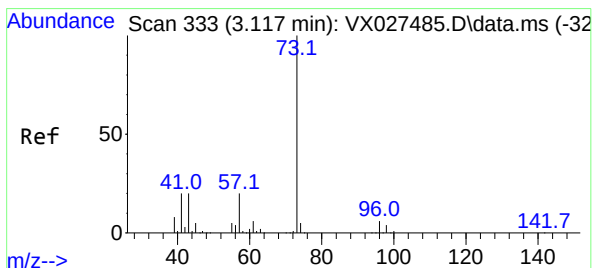
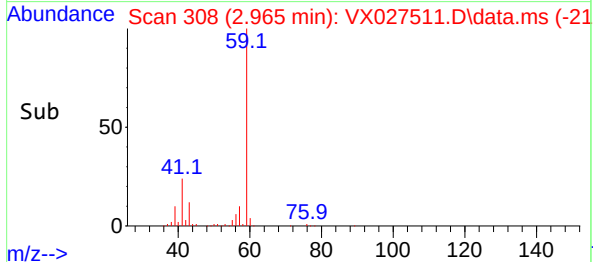
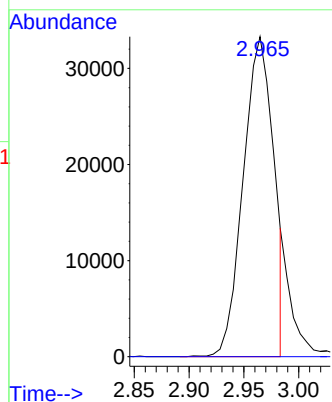
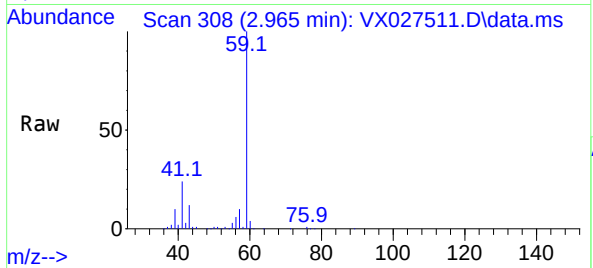




#18  
Methyl Acetate  
Concen: 14.872 ug/l  
RT: 2.965 min Scan# 308  
Delta R.T. 0.256 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

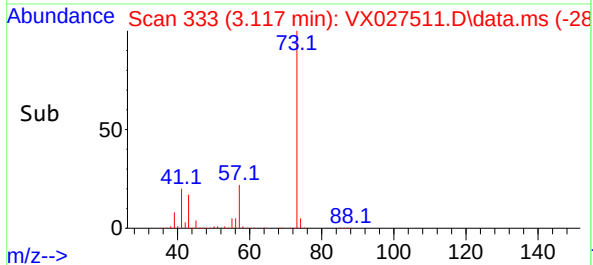
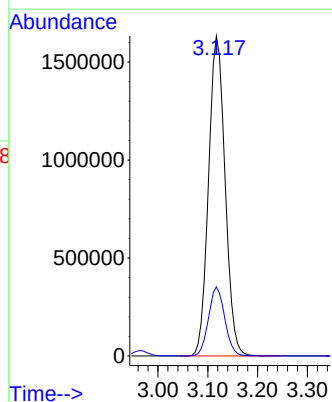
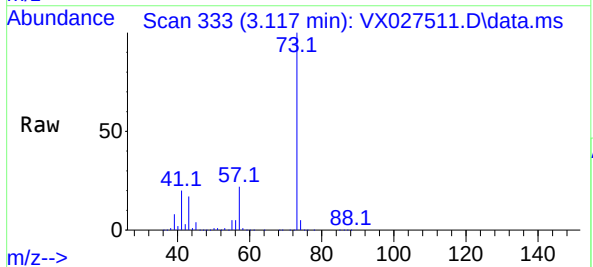
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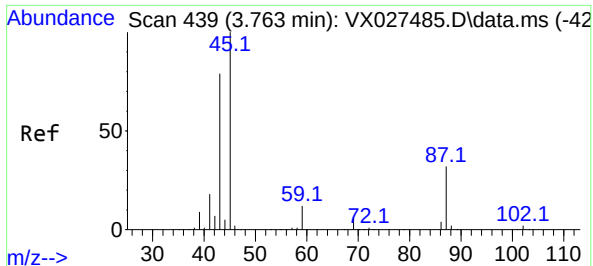
Tgt Ion: 43 Resp: 64431  
Ion Ratio Lower Upper  
43 100  
74 0.0 22.8 34.2#



#19  
Methyl tert-butyl Ether  
Concen: 333.998 ug/l  
RT: 3.117 min Scan# 333  
Delta R.T. 0.000 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

Tgt Ion: 73 Resp: 3767141  
Ion Ratio Lower Upper  
73 100  
57 21.6 16.8 25.2



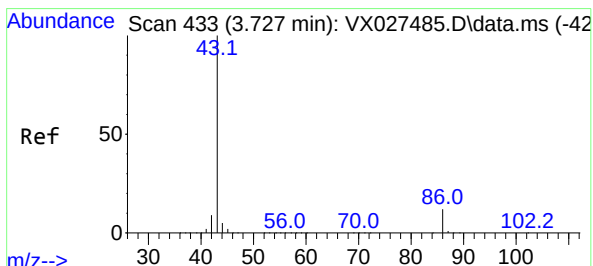
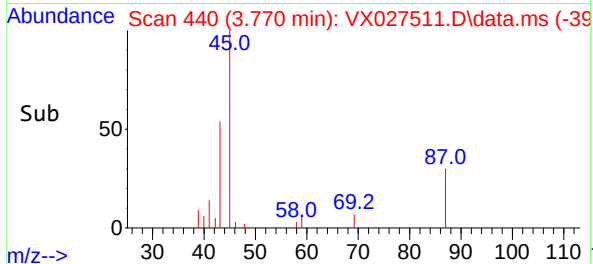
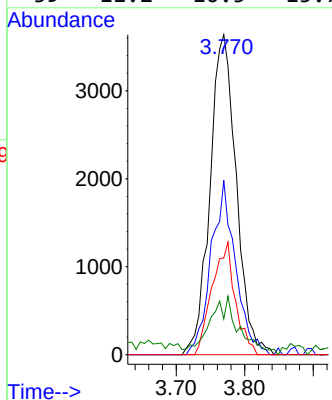
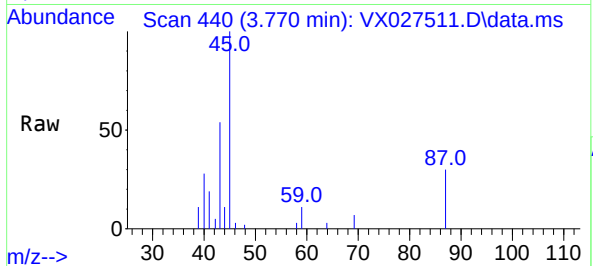


#22  
Diisopropyl ether  
Concen: 0.950 ug/l  
RT: 3.770 min Scan# 440  
Delta R.T. 0.006 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-121

Tgt Ion: 45 Resp: 9701

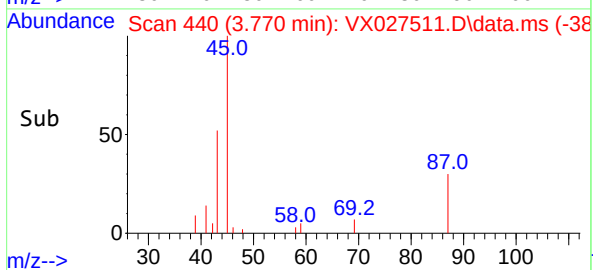
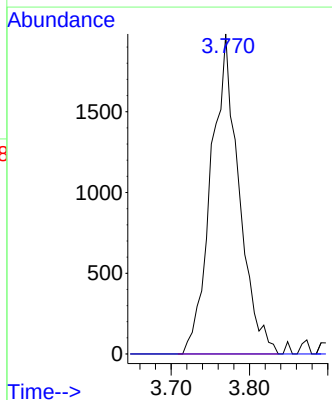
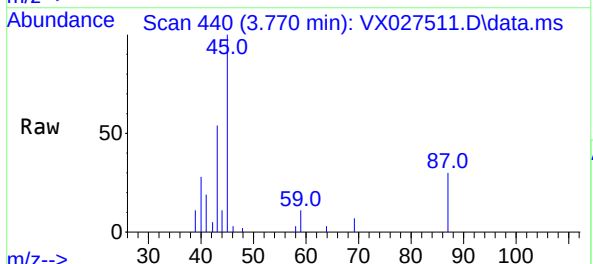
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 45  | 100   |       |       |
| 43  | 54.5  | 50.8  | 76.2  |
| 87  | 30.2  | 26.6  | 39.8  |
| 59  | 11.2  | 10.5  | 15.7  |



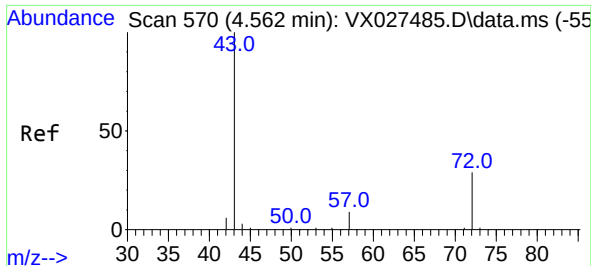
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Vinyl Acetate  
Concen: 0.552 ug/l  
RT: 3.770 min Scan# 440  
Delta R.T. 0.043 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

Tgt Ion: 43 Resp: 4902

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 0.0   | 10.8  | 16.2# |



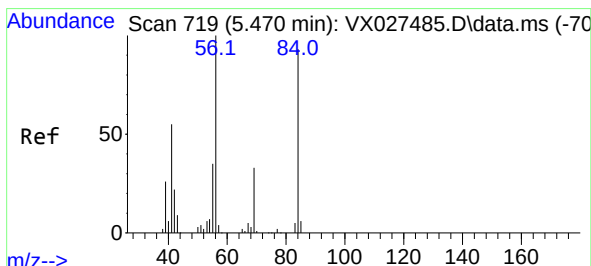
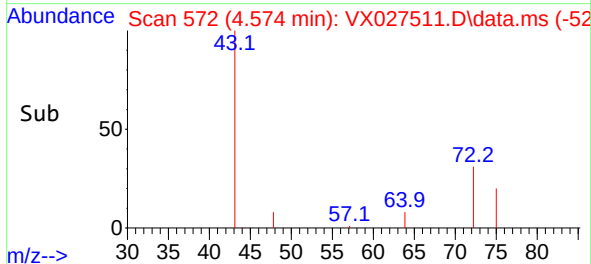
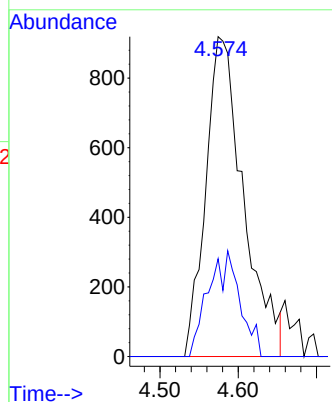
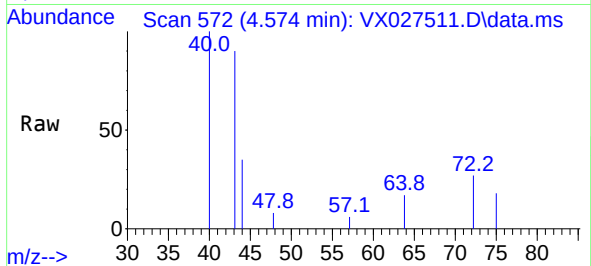




#25  
2-Butanone  
Concen: 1.132 ug/l  
RT: 4.574 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

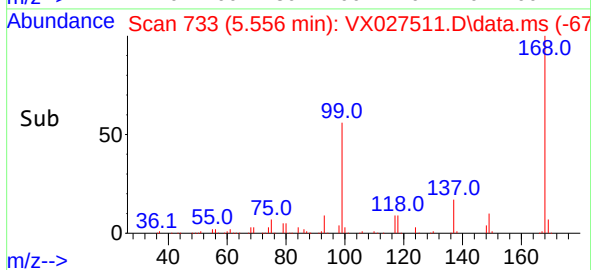
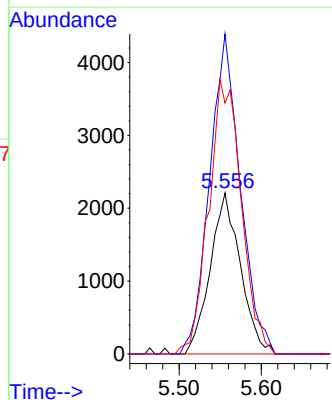
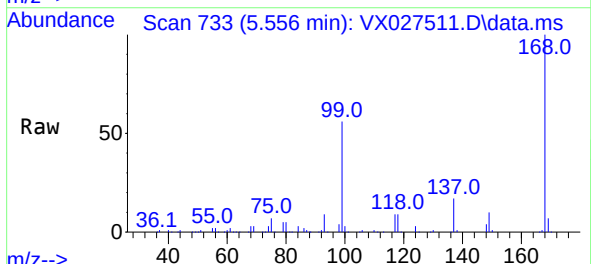
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-121

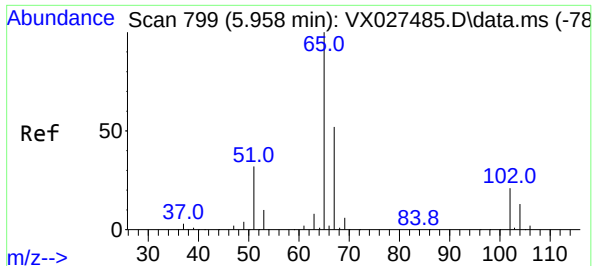
Tgt Ion: 43 Resp: 3079  
Ion Ratio Lower Upper  
43 100  
72 30.6 24.4 36.6



#31  
Cyclohexane  
Concen: 1.026 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. 0.085 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

Tgt Ion: 56 Resp: 5652  
Ion Ratio Lower Upper  
56 100  
69 198.9 26.7 40.1#  
84 155.9 77.2 115.8#

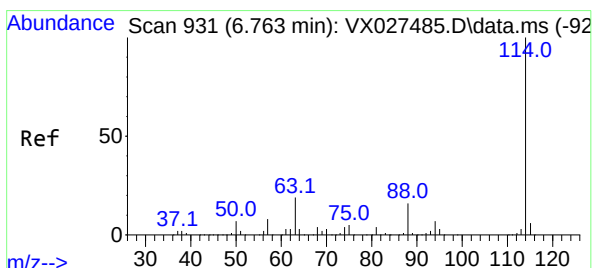
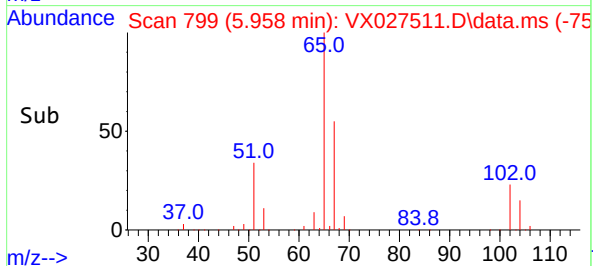
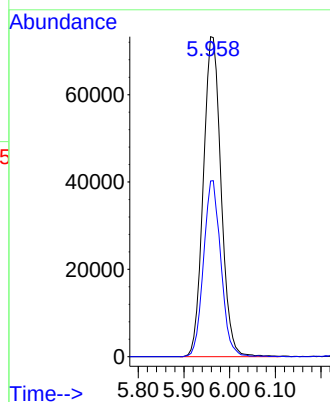
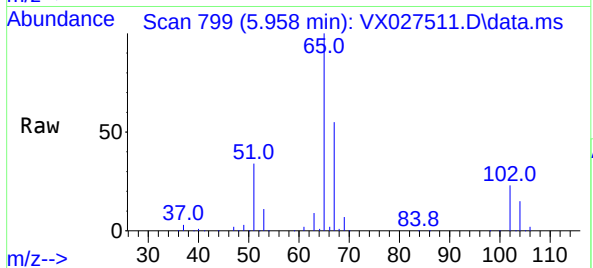




#33  
 1,2-Dichloroethane-d4  
 Concen: 44.593 ug/l  
 RT: 5.958 min Scan# 799  
 Delta R.T. 0.000 min  
 Lab File: VX027511.D  
 Acq: 18 Mar 2022 00:53

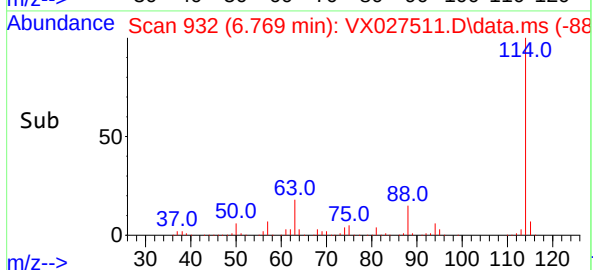
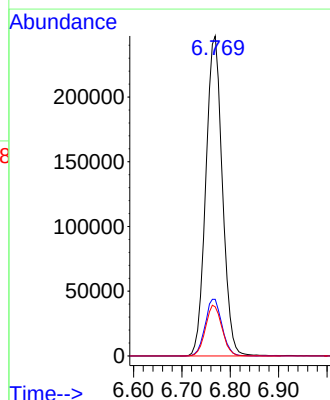
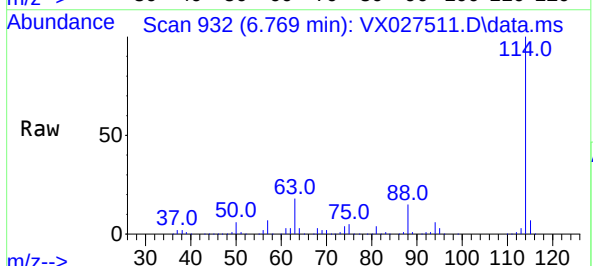
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-121

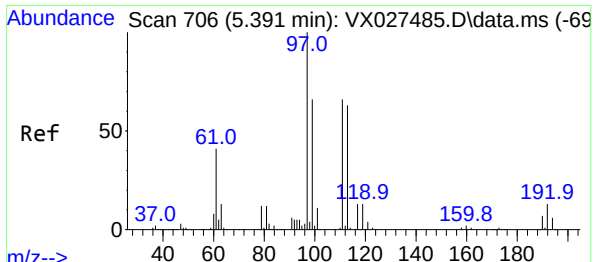
Tgt Ion: 65 Resp: 197768  
 Ion Ratio Lower Upper  
 65 100  
 67 53.6 0.0 107.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.769 min Scan# 932  
 Delta R.T. 0.006 min  
 Lab File: VX027511.D  
 Acq: 18 Mar 2022 00:53

Tgt Ion: 114 Resp: 587173  
 Ion Ratio Lower Upper  
 114 100  
 63 17.7 0.0 36.8  
 88 15.4 0.0 32.4

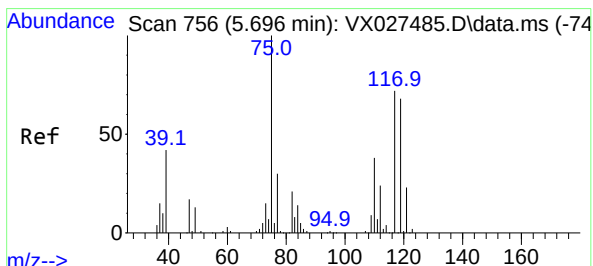
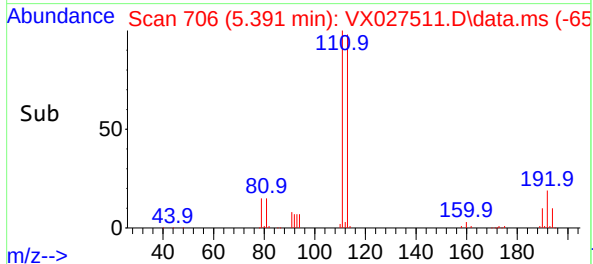
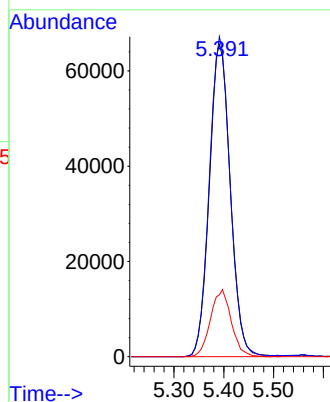
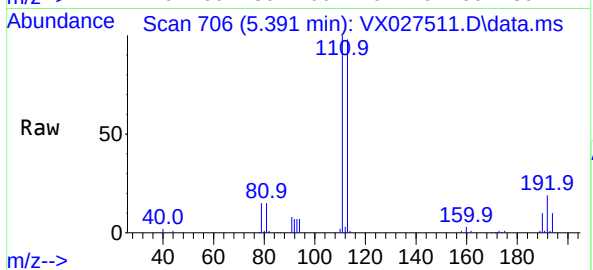




#35  
Dibromofluoromethane  
Concen: 50.806 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

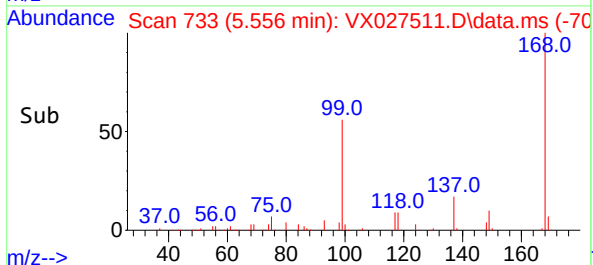
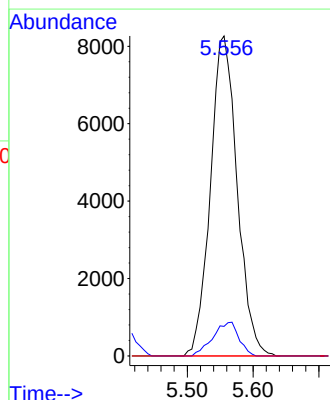
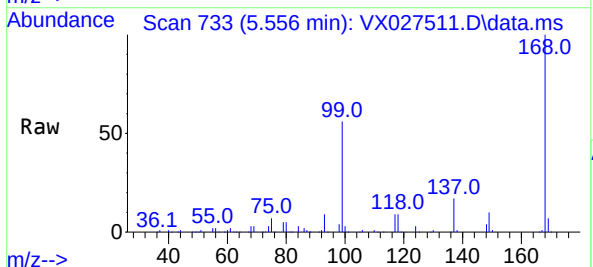
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-121

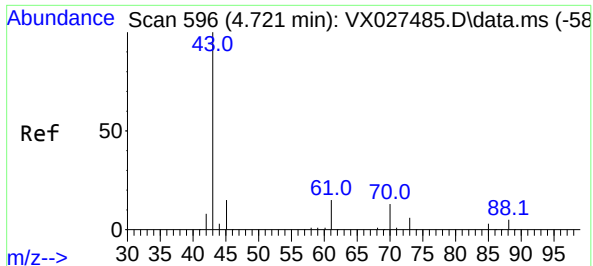
Tgt Ion:113 Resp: 191933  
Ion Ratio Lower Upper  
113 100  
111 101.0 82.8 124.2  
192 21.2 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.544 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.140 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

Tgt Ion: 75 Resp: 23459  
Ion Ratio Lower Upper  
75 100  
110 10.2 18.3 54.8#  
77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 0.599 ug/l

RT: 4.574 min Scan# 51

Delta R.T. -0.146 min

Lab File: VX027511.D

Acq: 18 Mar 2022 00:53

Instrument :

MSVOA\_X

ClientSampleId :

MW-121

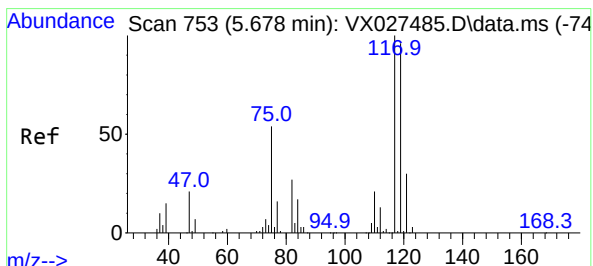
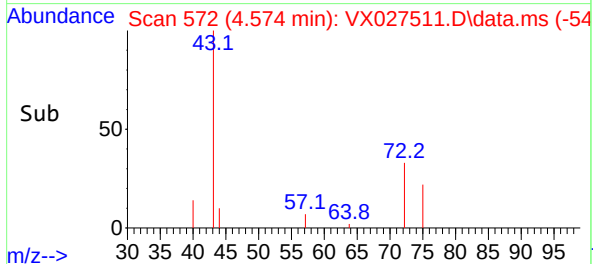
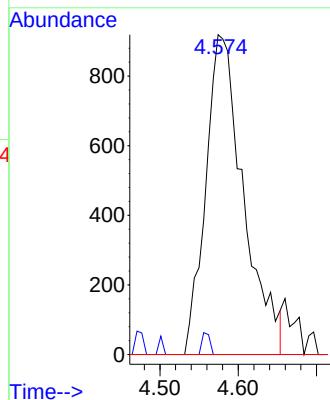
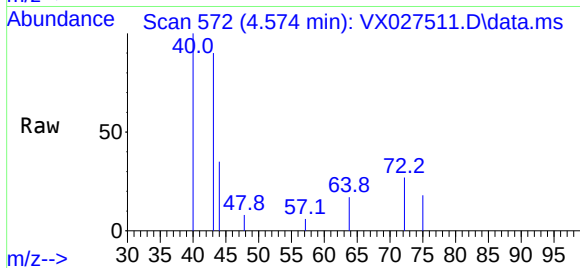
Tgt Ion: 43 Resp: 3079

Ion Ratio Lower Upper

43 100

61 1.4 12.6 19.0#

70 0.0 10.2 15.2#



#38

Carbon Tetrachloride

Concen: 5.710 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.122 min

Lab File: VX027511.D

Acq: 18 Mar 2022 00:53

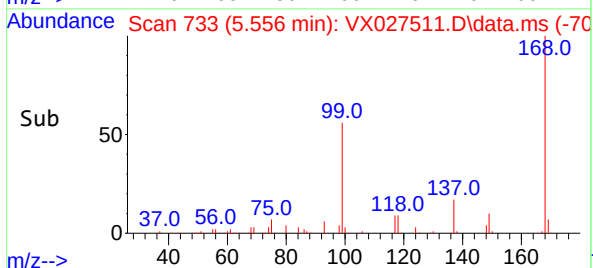
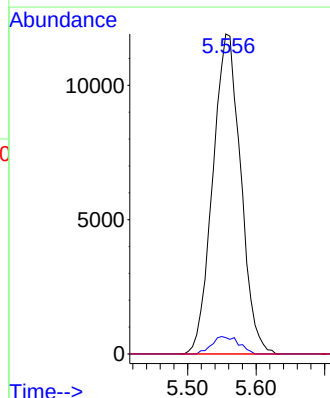
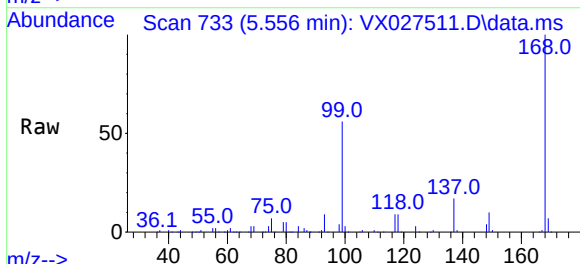
Tgt Ion: 117 Resp: 33725

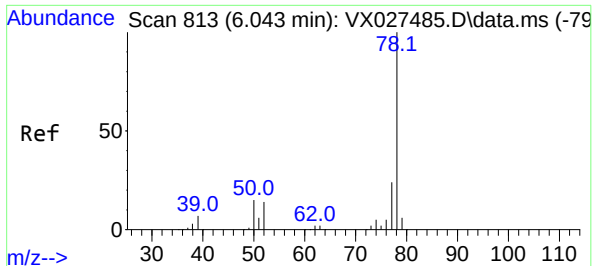
Ion Ratio Lower Upper

117 100

119 5.1 77.3 115.9#

121 0.0 24.2 36.2#

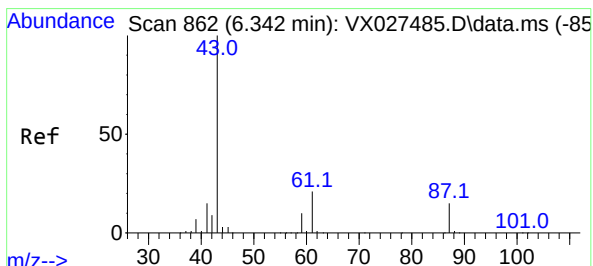
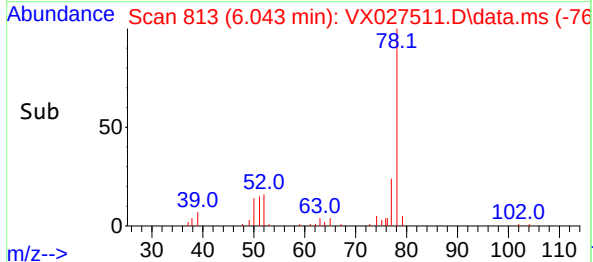
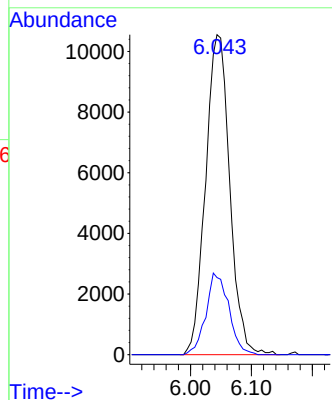
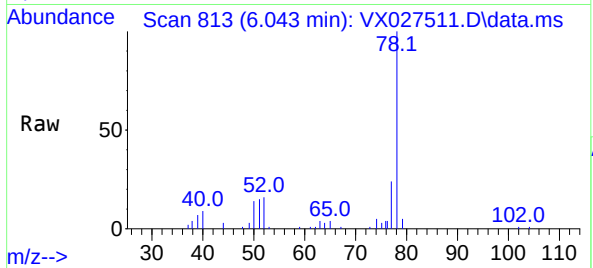




#40  
Benzene  
Concen: 1.963 ug/l  
RT: 6.043 min Scan# 813  
Delta R.T. 0.000 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

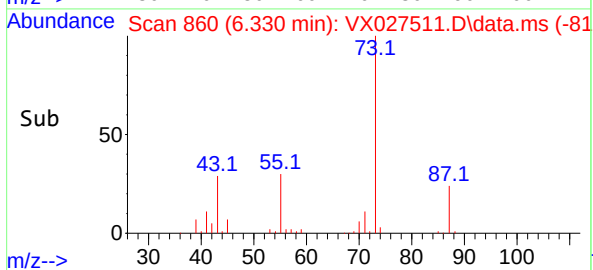
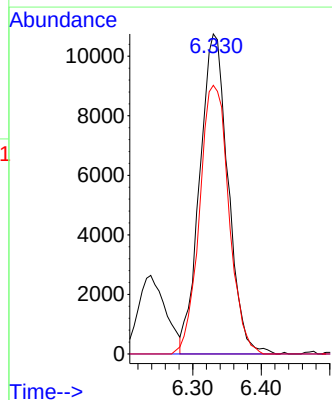
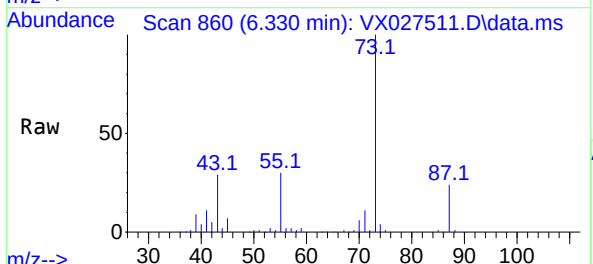
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-121

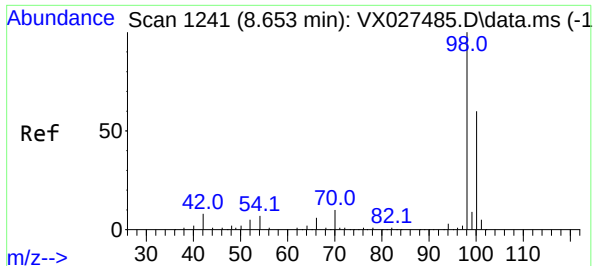
Tgt Ion: 78 Resp: 29069  
Ion Ratio Lower Upper  
78 100  
77 24.1 19.3 28.9



#43  
Isopropyl Acetate  
Concen: 3.728 ug/l  
RT: 6.330 min Scan# 860  
Delta R.T. -0.012 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

Tgt Ion: 43 Resp: 30861  
Ion Ratio Lower Upper  
43 100  
61 0.0 18.5 27.7#  
87 86.8 13.0 19.6#

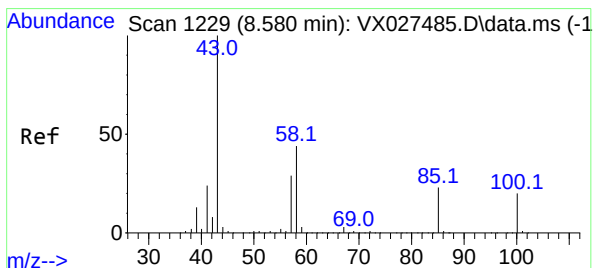
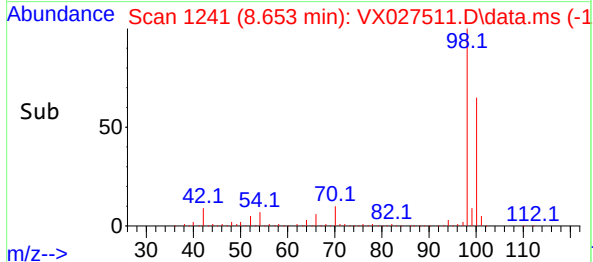
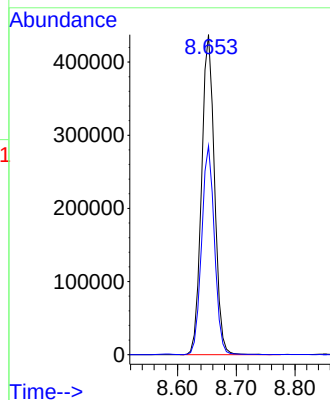
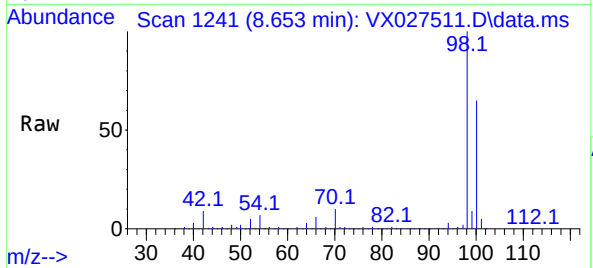




#50  
Toluene-d8  
Concen: 46.846 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.000 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

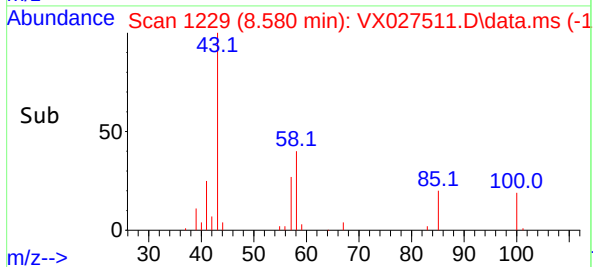
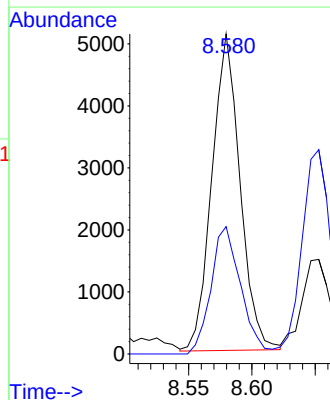
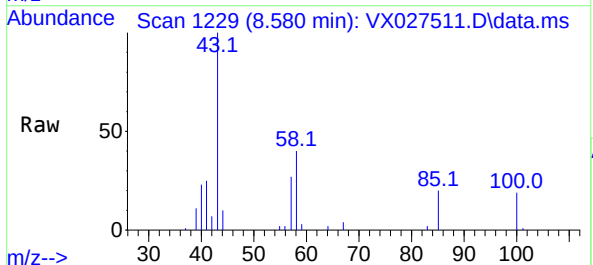
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-121

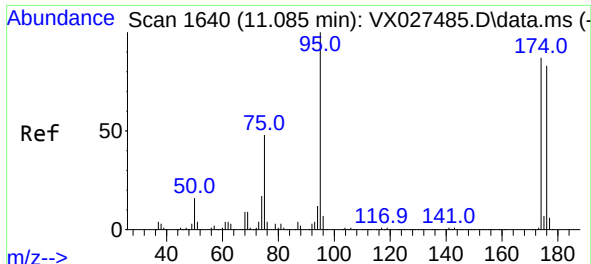
Tgt Ion: 98 Resp: 669690  
Ion Ratio Lower Upper  
98 100  
100 64.6 52.6 78.8



#51  
4-Methyl-2-Pentanone  
Concen: 1.492 ug/l  
RT: 8.580 min Scan# 1229  
Delta R.T. 0.000 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

Tgt Ion: 43 Resp: 7885  
Ion Ratio Lower Upper  
43 100  
58 42.4 36.1 54.1

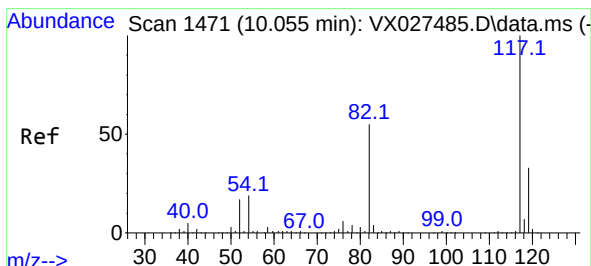
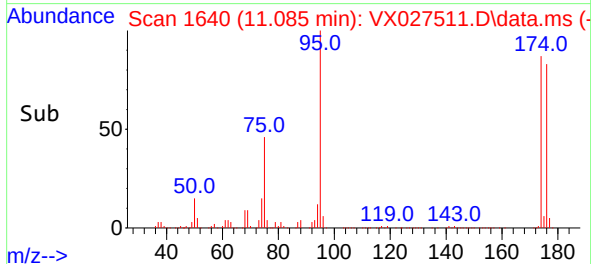
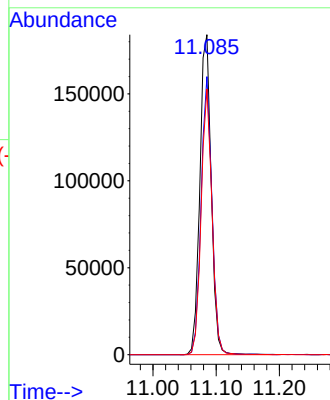
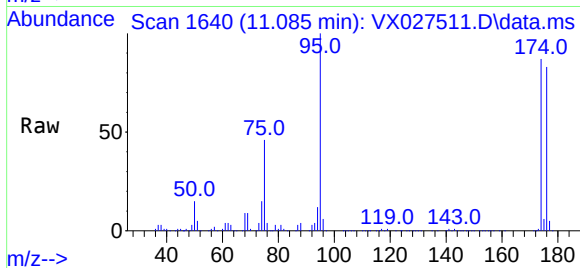




#62  
4-Bromofluorobenzene  
Concen: 43.788 ug/l  
RT: 11.085 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

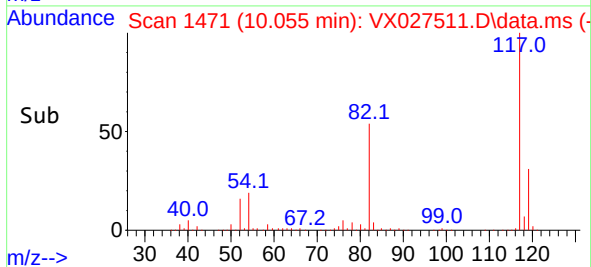
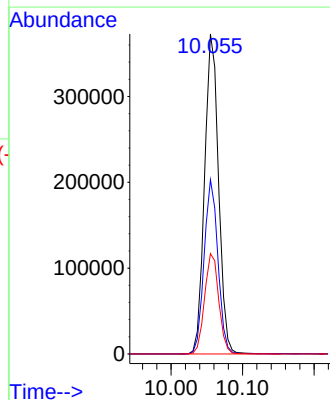
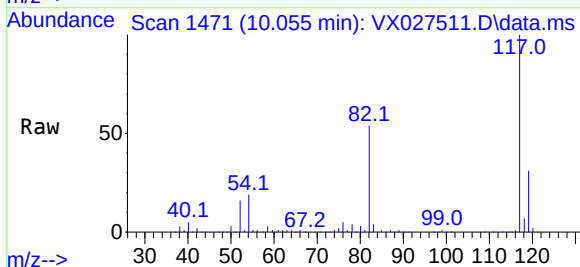
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-121

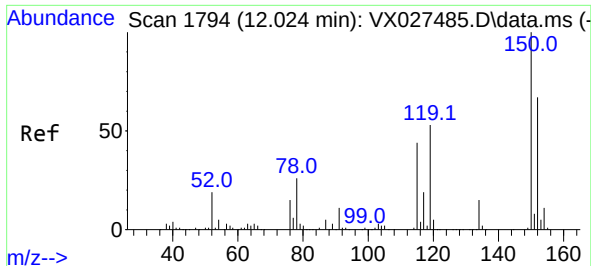
Tgt Ion: 95 Resp: 230078  
Ion Ratio Lower Upper  
95 100  
174 83.3 0.0 163.0  
176 79.5 0.0 155.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

Tgt Ion: 117 Resp: 506369  
Ion Ratio Lower Upper  
117 100  
82 54.5 41.8 62.8  
119 31.4 24.8 37.2

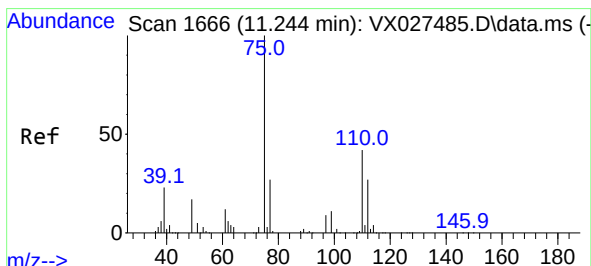
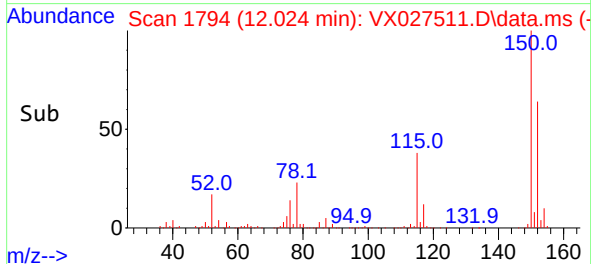
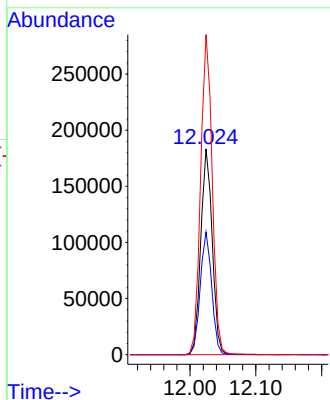
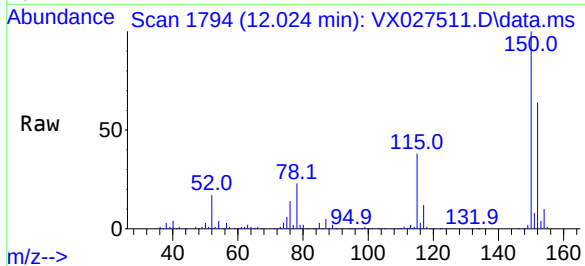




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

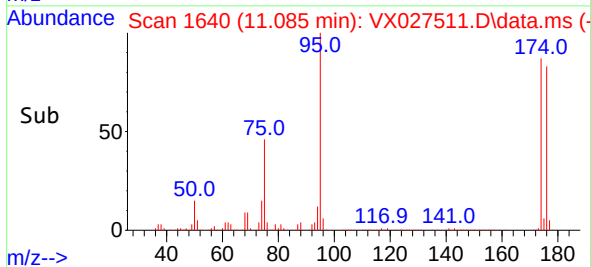
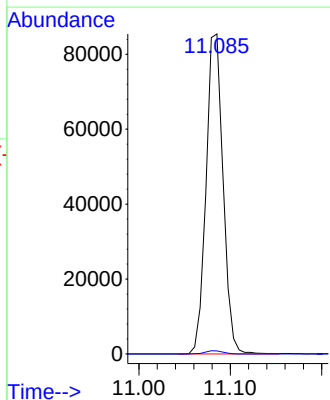
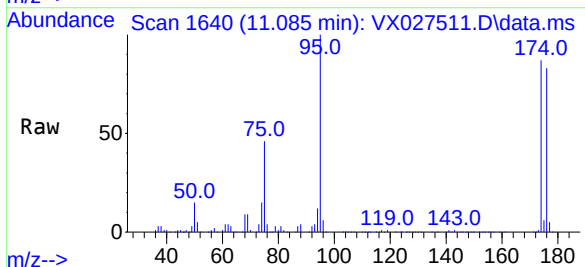
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-121

Tgt Ion:152 Resp: 222672  
Ion Ratio Lower Upper  
152 100  
115 59.7 37.5 112.7  
150 156.8 0.0 338.2

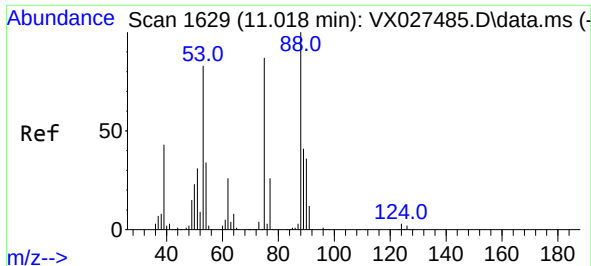


#76  
1,2,3-Trichloropropane  
Concen: 23.641 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.158 min  
Lab File: VX027511.D  
Acq: 18 Mar 2022 00:53

Tgt Ion: 75 Resp: 110111  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.4 58.2#







#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 71.800 ug/l  
 RT: 11.085 min Scan# 1  
 Delta R.T. 0.067 min  
 Lab File: VX027511.D  
 Acq: 18 Mar 2022 00:53

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-121

Tgt Ion: 75 Resp: 110111  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 69.0 103.4#  
 89 0.0 37.0 55.6#

