

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050622\  
 Data File : VX028558.D  
 Acq On : 06 May 2022 18:28  
 Operator : JC/MD  
 Sample : N2723-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MMC-PIT2

Quant Time: May 07 06:05:37 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X041922W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 19 13:38:04 2022  
 Response via : Initial Calibration

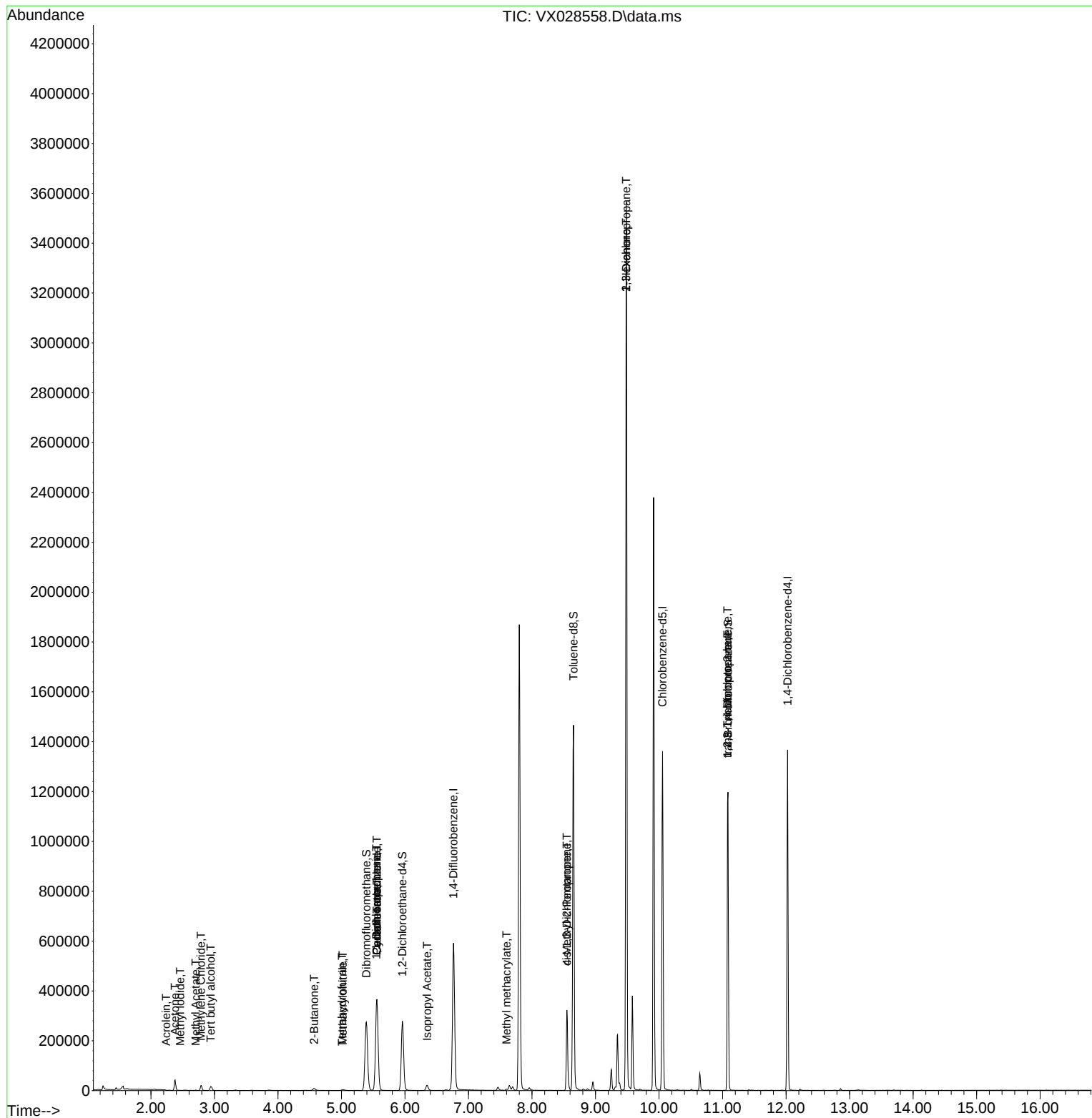
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 360425   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 626323   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 621762   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 284574   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 263833   | 56.140    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery  | = 112.280% |          |
| 35) Dibromofluoromethane      | 5.391  | 113   | 241818   | 55.054    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery  | = 110.100% |          |
| 50) Toluene-d8                | 8.653  | 98    | 876629   | 51.963    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery  | = 103.920% |          |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 317074   | 49.155    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery  | = 98.320%  |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 3) Chloromethane              | 1.294  | 50    | 293      | Below Cal | #          | 53       |
| 5) Bromomethane               | 1.611  | 94    | 904      | Below Cal |            | 98       |
| 6) Chloroethane               | 1.703  | 64    | 201      | Below Cal | #          | 59       |
| 8) Diethyl Ether              | 2.130  | 74    | 37       | Below Cal | #          | 1        |
| 10) Methyl Iodide             | 2.459  | 142   | 185      | 5.276     | ug/l #     | 55       |
| 11) Tert butyl alcohol        | 2.940  | 59    | 9175     | 0.271     | ug/l #     | 73       |
| 13) Acrolein                  | 2.239  | 56    | 297      | 0.516     | ug/l #     | 72       |
| 16) Acetone                   | 2.380  | 43    | 44764    | 29.957    | ug/l       | 94       |
| 18) Methyl Acetate            | 2.703  | 43    | 2180     | 0.522     | ug/l #     | 88       |
| 20) Methylene Chloride        | 2.788  | 84    | 9372     | 2.688     | ug/l       | 95       |
| 25) 2-Butanone                | 4.568  | 43    | 9144     | 3.285     | ug/l       | 92       |
| 29) Tetrahydrofuran           | 5.007  | 42    | 3307     | 1.822     | ug/l #     | 77       |
| 31) Cyclohexane               | 5.556  | 56    | 6933     | 1.211     | ug/l #     | 3        |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 26290    | 4.589     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 36111    | 5.583     | ug/l #     | 16       |
| 41) Methacrylonitrile         | 5.019  | 41    | 1906     | 0.635     | ug/l #     | 35       |
| 43) Isopropyl Acetate         | 6.348  | 43    | 28441    | 3.006     | ug/l       | 97       |
| 48) Methyl methacrylate       | 7.598  | 41    | 8379     | 1.929     | ug/l #     | 7        |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 103901   | 17.113    | ug/l #     | 45       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 55118    | 7.803     | ug/l #     | 68       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 34170    | 4.472     | ug/l #     | 43       |
| 59) 2-Hexanone                | 9.482  | 43    | 383278   | 81.493    | ug/l #     | 45       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 159896   | 28.550    | ug/l #     | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 159896   | 84.842    | ug/l #     | 15       |

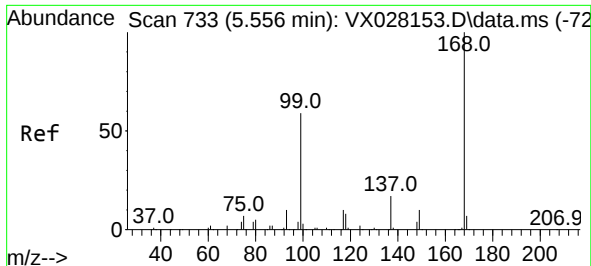
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050622\  
Data File : VX028558.D  
Acq On : 06 May 2022 18:28  
Operator : JC/MD  
Sample : N2723-04  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
MMC-PIT2

Quant Time: May 07 06:05:37 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X041922W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 19 13:38:04 2022  
Response via : Initial Calibration

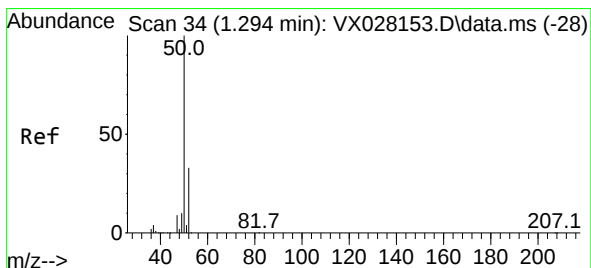
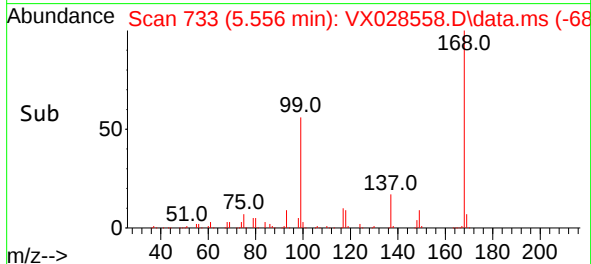
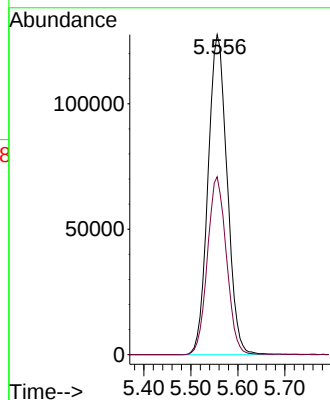
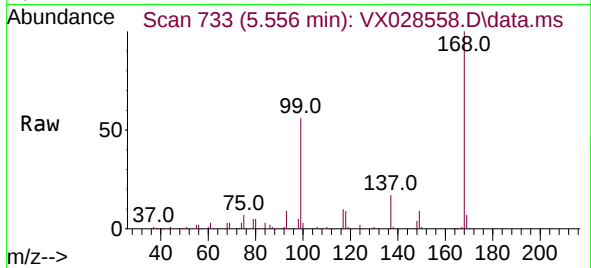




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

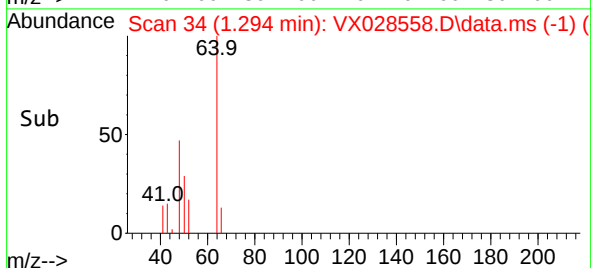
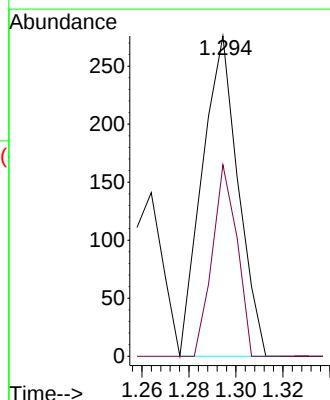
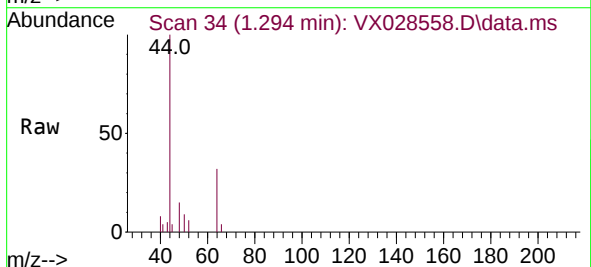
Instrument :  
MSVOA\_X  
ClientSampleId :  
MMC-PIT2

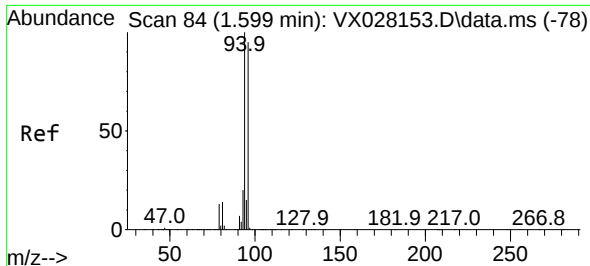
Tgt Ion:168 Resp: 360425  
Ion Ratio Lower Upper  
168 100  
99 55.6 41.7 62.5



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.294 min Scan# 34  
Delta R.T. 0.000 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

Tgt Ion: 50 Resp: 293  
Ion Ratio Lower Upper  
50 100  
52 59.8 26.4 39.6#





#5

Bromomethane

Concen: Below Cal

RT: 1.611 min Scan# 80

Delta R.T. 0.012 min

Lab File: VX028558.D

Acq: 06 May 2022 18:28

Instrument :

MSVOA\_X

ClientSampleId :

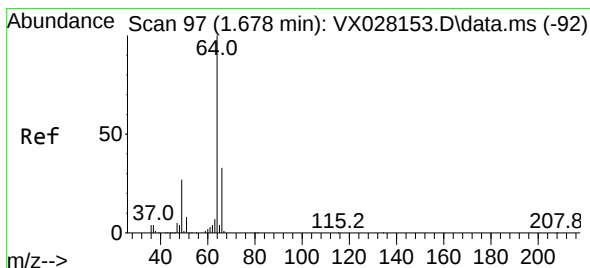
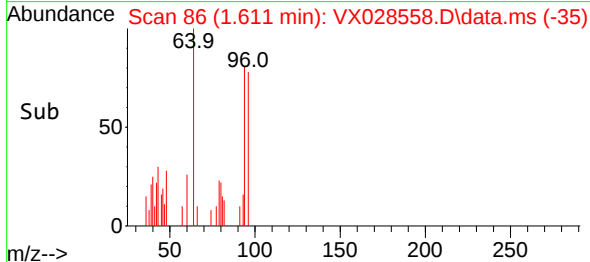
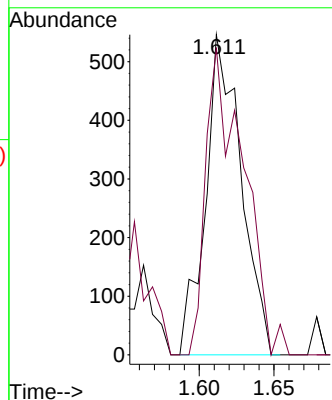
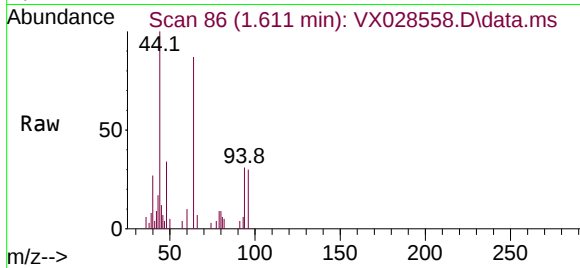
MMC-PIT2

Tgt Ion: 94 Resp: 904

Ion Ratio Lower Upper

94 100

96 96.0 75.3 112.9



#6

Chloroethane

Concen: Below Cal

RT: 1.703 min Scan# 101

Delta R.T. 0.025 min

Lab File: VX028558.D

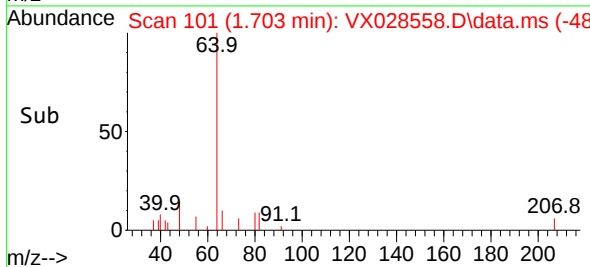
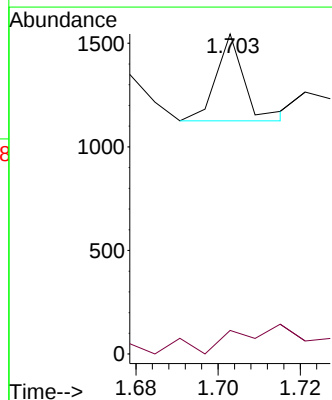
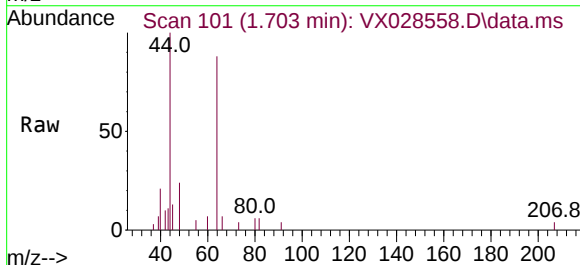
Acq: 06 May 2022 18:28

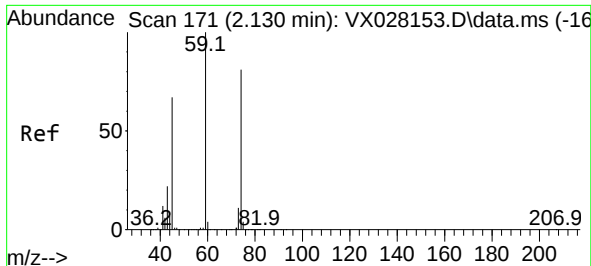
Tgt Ion: 64 Resp: 201

Ion Ratio Lower Upper

64 100

66 9.1 25.3 37.9#

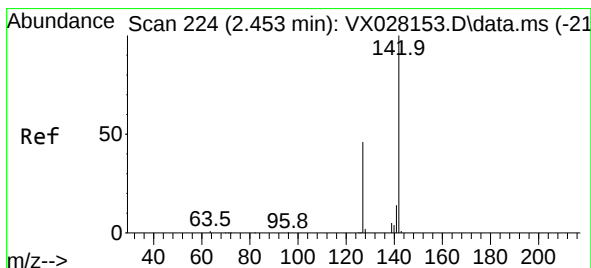
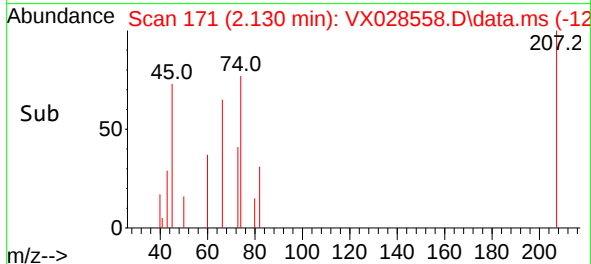
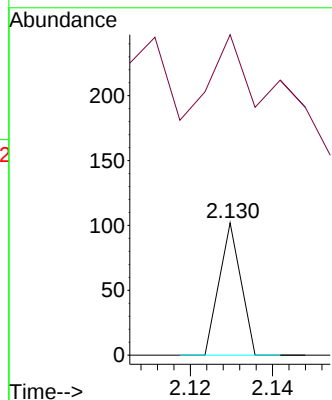
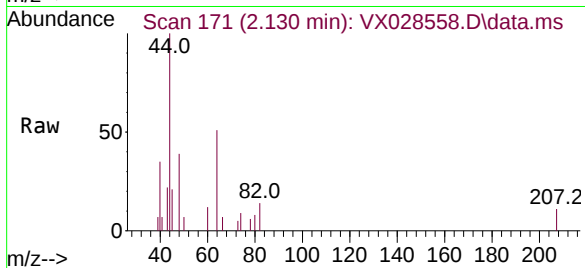




#8  
Diethyl Ether  
Concen: Below Cal  
RT: 2.130 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

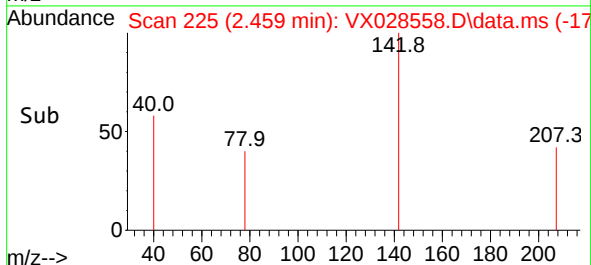
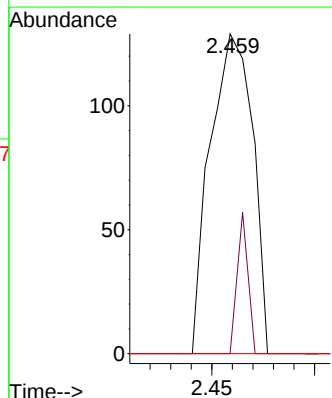
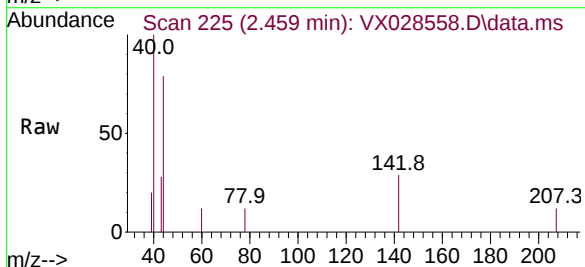
Instrument :  
MSVOA\_X  
ClientSampleId :  
MMC-PIT2

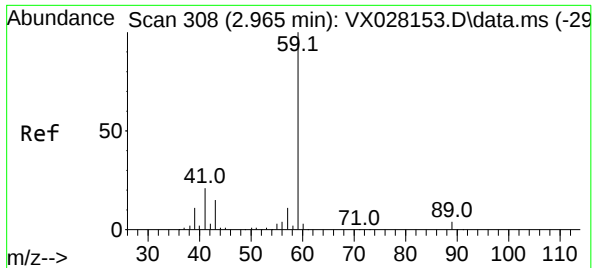
Tgt Ion: 74 Resp: 37  
Ion Ratio Lower Upper  
74 100  
45 232.4 42.0 126.0#



#10  
Methyl Iodide  
Concen: 5.276 ug/l  
RT: 2.459 min Scan# 225  
Delta R.T. 0.006 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

Tgt Ion:142 Resp: 185  
Ion Ratio Lower Upper  
142 100  
127 11.4 33.9 50.9#  
141 0.0 11.4 17.2#





#11

Tert butyl alcohol

Concen: 0.271 ug/l

RT: 2.940 min Scan# 308

Delta R.T. -0.025 min

Lab File: VX028558.D

Acq: 06 May 2022 18:28

Instrument :

MSVOA\_X

ClientSampleId :

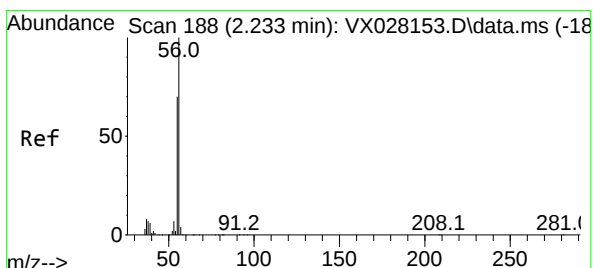
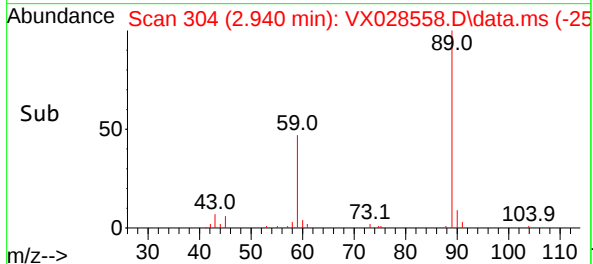
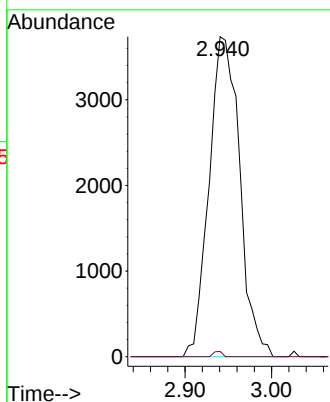
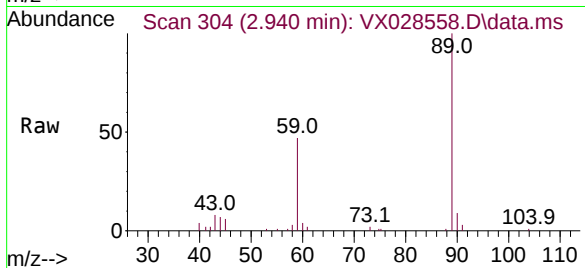
MMC-PIT2

Tgt Ion: 59 Resp: 9175

Ion Ratio Lower Upper

59 100

57 0.5 8.3 12.5#



#13

Acrolein

Concen: 0.516 ug/l

RT: 2.239 min Scan# 189

Delta R.T. 0.006 min

Lab File: VX028558.D

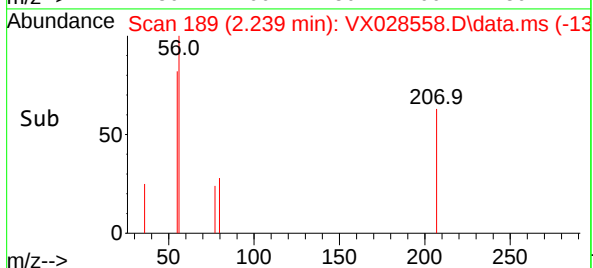
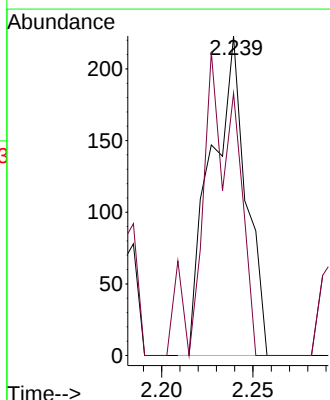
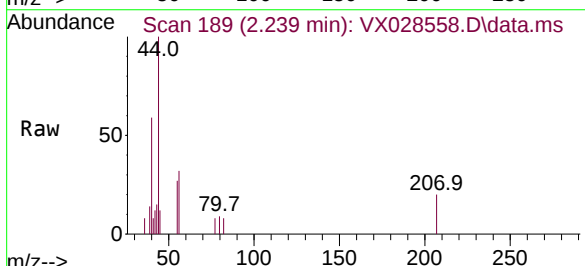
Acq: 06 May 2022 18:28

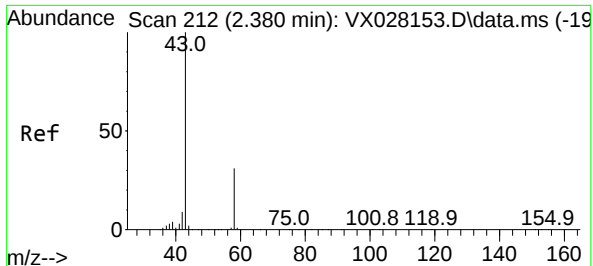
Tgt Ion: 56 Resp: 297

Ion Ratio Lower Upper

56 100

55 91.9 55.0 82.6#

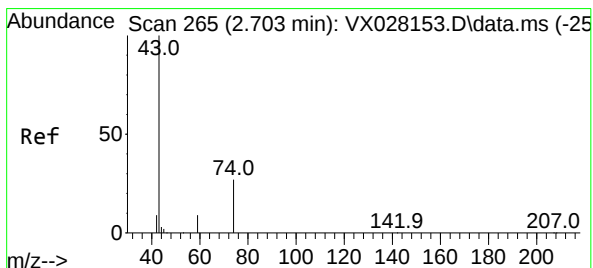
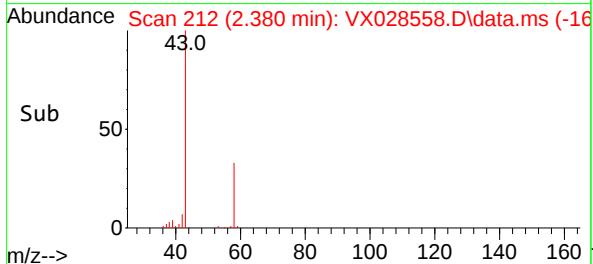
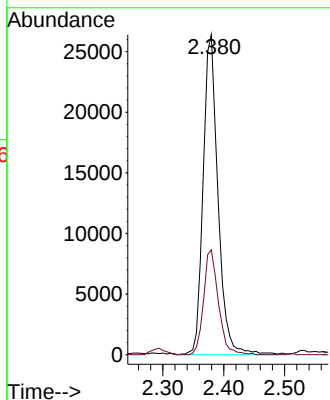
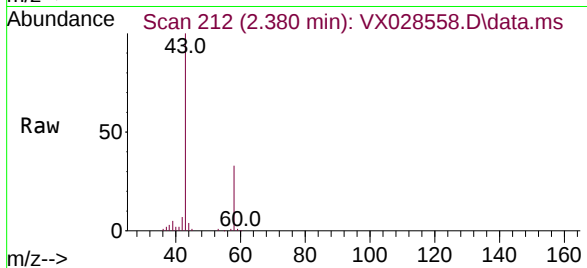




#16  
Acetone  
Concen: 29.957 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

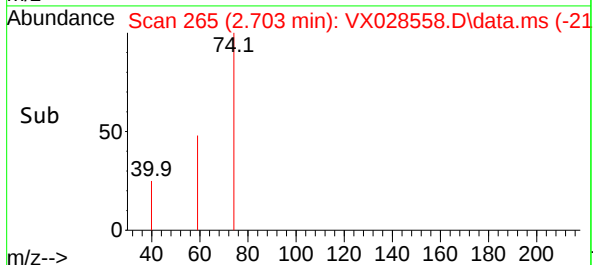
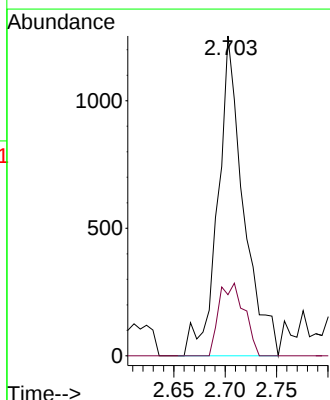
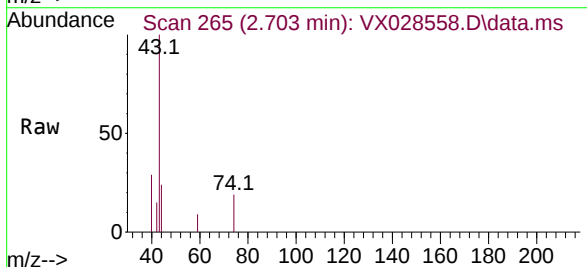
Instrument :  
MSVOA\_X  
ClientSampleId :  
MMC-PIT2

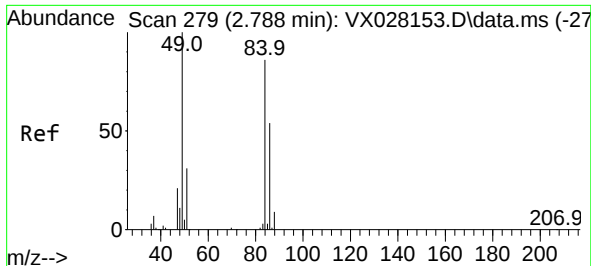
Tgt Ion: 43 Resp: 44764  
Ion Ratio Lower Upper  
43 100  
58 32.7 28.8 43.2



#18  
Methyl Acetate  
Concen: 0.522 ug/l  
RT: 2.703 min Scan# 265  
Delta R.T. -0.000 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

Tgt Ion: 43 Resp: 2180  
Ion Ratio Lower Upper  
43 100  
74 22.4 22.8 34.2#

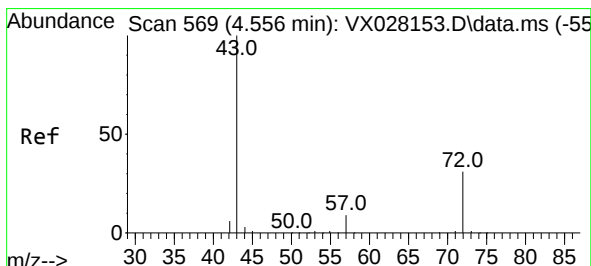
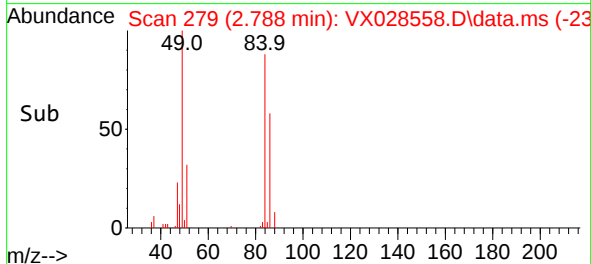
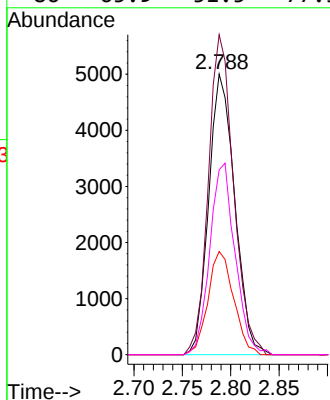
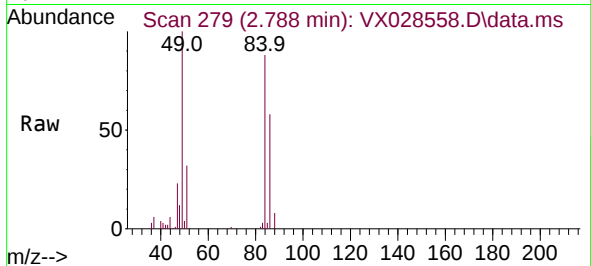




#20  
Methylene Chloride  
Concen: 2.688 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

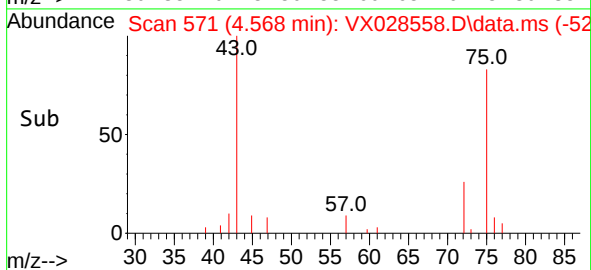
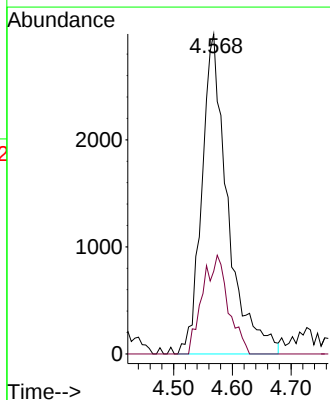
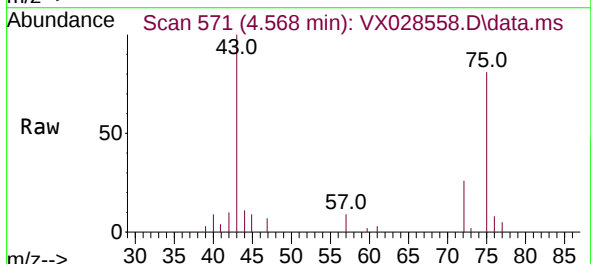
Instrument :  
MSVOA\_X  
ClientSampleId :  
MMC-PIT2

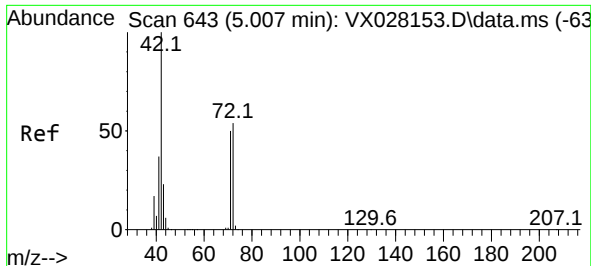
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 9372  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 114.0 | 85.5  | 128.3 |
| 51       | 36.8  | 26.6  | 39.8  |
| 86       | 65.9  | 51.5  | 77.3  |



#25  
2-Butanone  
Concen: 3.285 ug/l  
RT: 4.568 min Scan# 571  
Delta R.T. 0.012 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 9144  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 25.9  | 24.4  | 36.6  |





#29

Tetrahydrofuran

Concen: 1.822 ug/l

RT: 5.007 min Scan# 643

Delta R.T. 0.000 min

Lab File: VX028558.D

Acq: 06 May 2022 18:28

Instrument :

MSVOA\_X

ClientSampleId :

MMC-PIT2

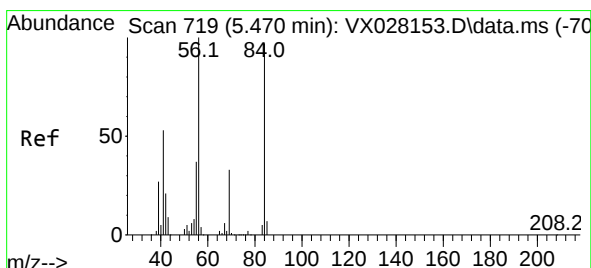
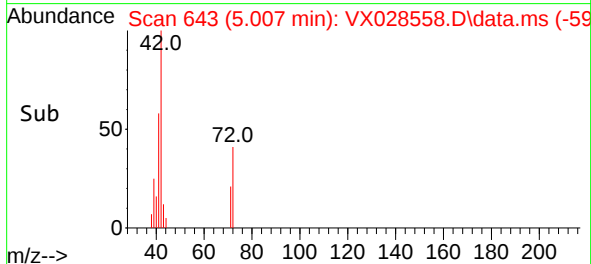
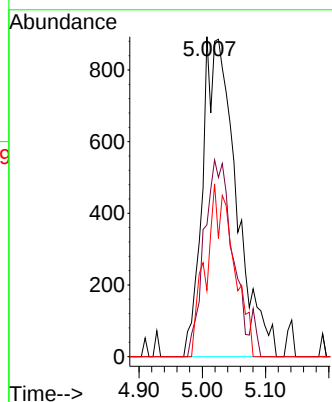
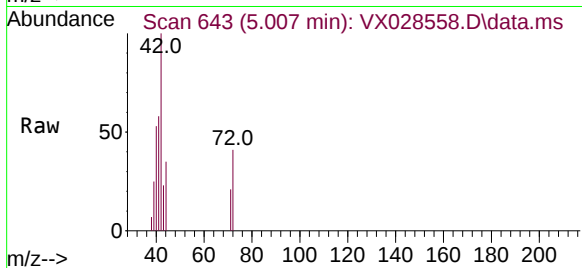
Tgt Ion: 42 Resp: 3307

Ion Ratio Lower Upper

42 100

72 51.6 44.1 66.1

71 21.6 40.5 60.7#



#31

Cyclohexane

Concen: 1.211 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.086 min

Lab File: VX028558.D

Acq: 06 May 2022 18:28

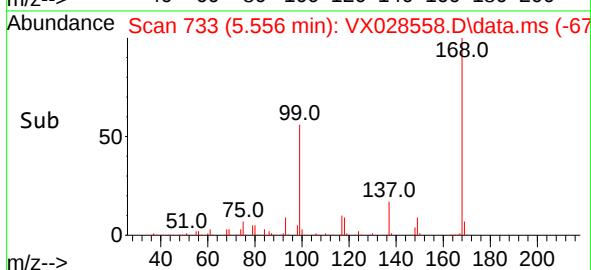
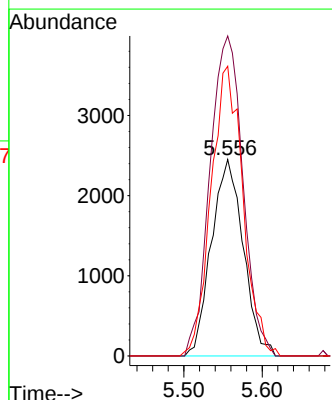
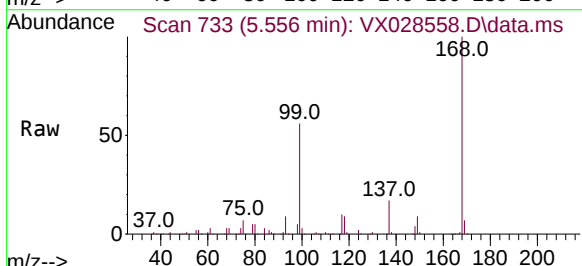
Tgt Ion: 56 Resp: 6933

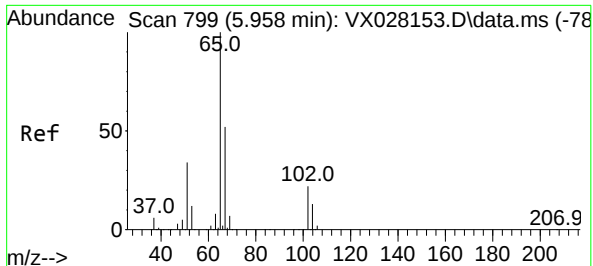
Ion Ratio Lower Upper

56 100

69 162.9 26.7 40.1#

84 147.5 77.2 115.8#





#33

1,2-Dichloroethane-d4

Concen: 56.140 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX028558.D

Acq: 06 May 2022 18:28

Instrument :

MSVOA\_X

ClientSampleId :

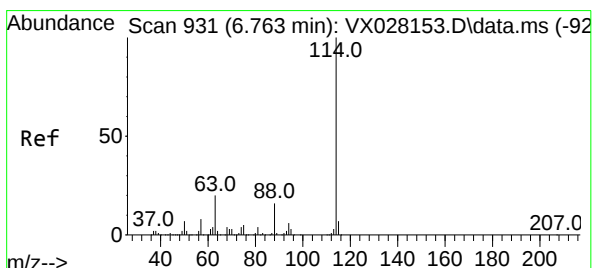
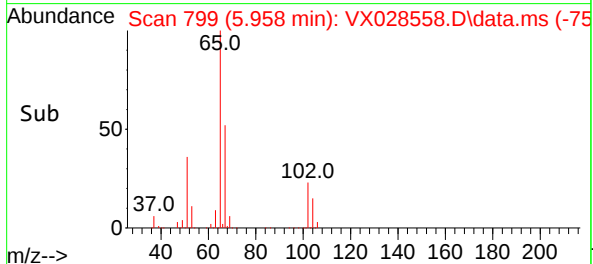
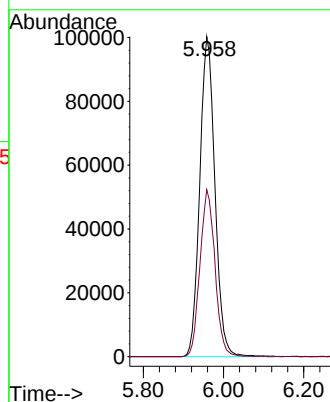
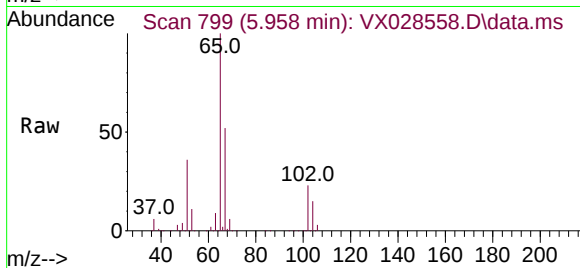
MMC-PIT2

Tgt Ion: 65 Resp: 263833

Ion Ratio Lower Upper

65 100

67 51.8 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX028558.D

Acq: 06 May 2022 18:28

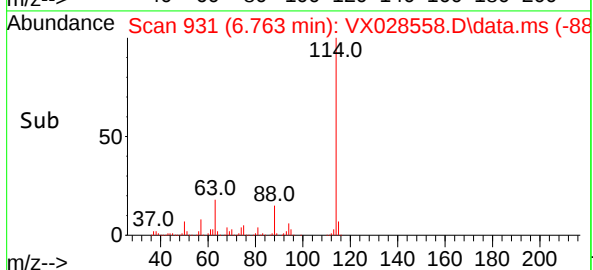
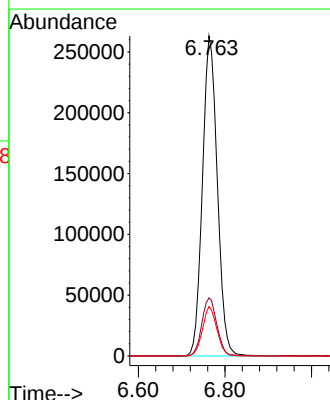
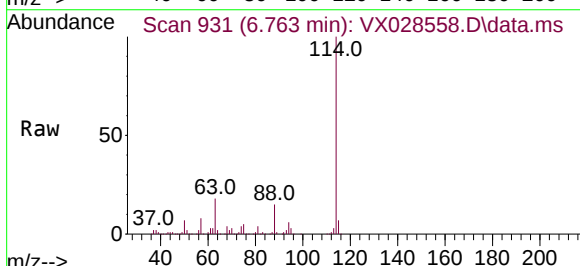
Tgt Ion: 114 Resp: 626323

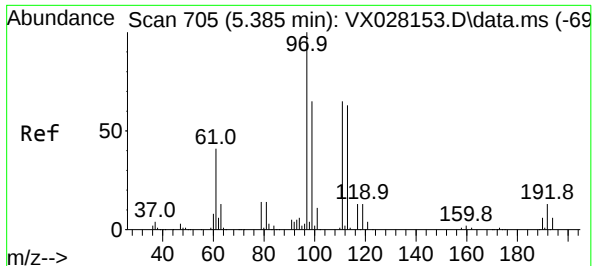
Ion Ratio Lower Upper

114 100

63 18.2 0.0 36.8

88 15.5 0.0 32.4

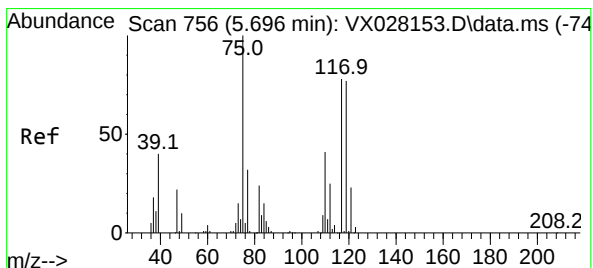
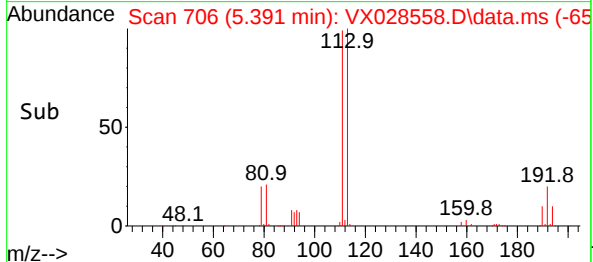
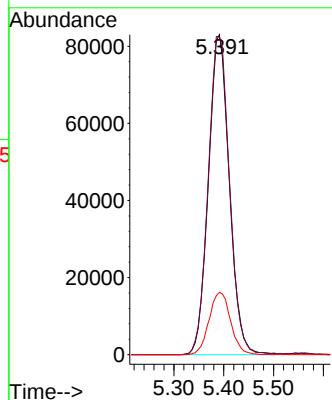
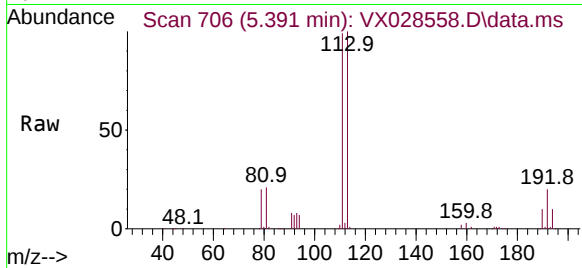




#35  
Dibromofluoromethane  
Concen: 55.054 ug/l  
RT: 5.391 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

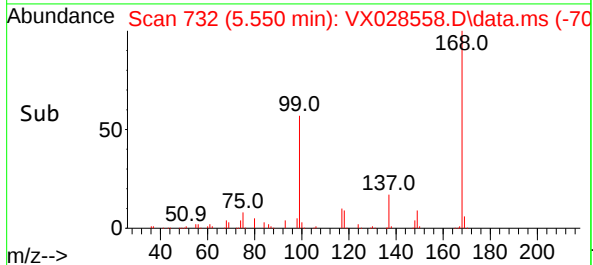
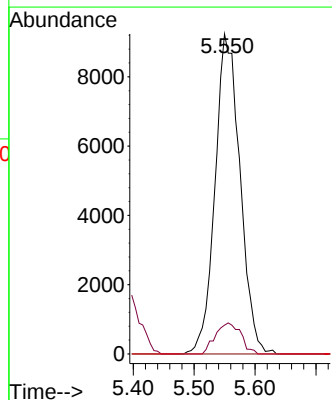
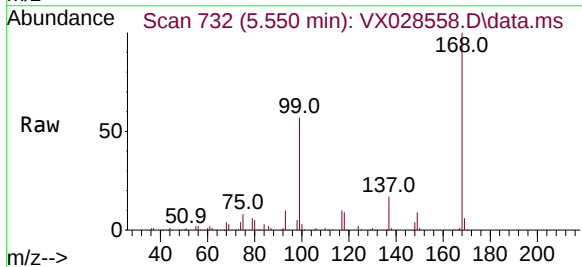
Instrument :  
MSVOA\_X  
ClientSampleId :  
MMC-PIT2

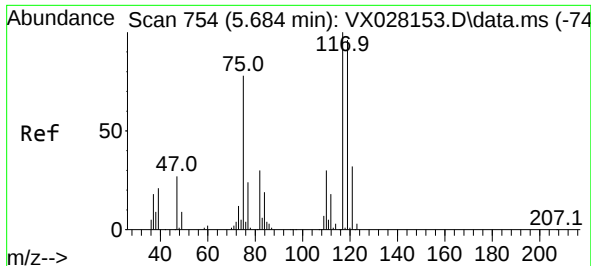
Tgt Ion:113 Resp: 241818  
Ion Ratio Lower Upper  
113 100  
111 101.9 82.8 124.2  
192 20.1 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.589 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.146 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

Tgt Ion: 75 Resp: 26290  
Ion Ratio Lower Upper  
75 100  
110 9.9 18.3 54.8#  
77 0.0 24.8 37.2#

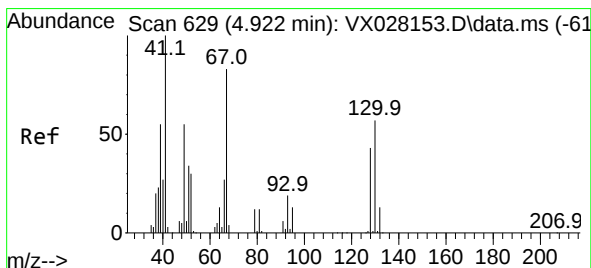
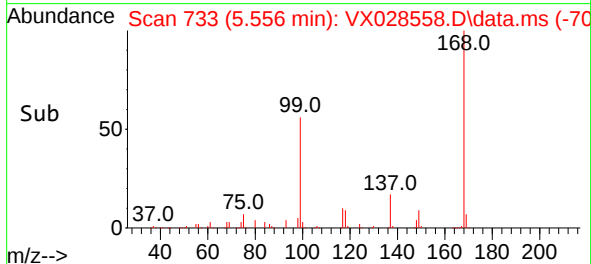
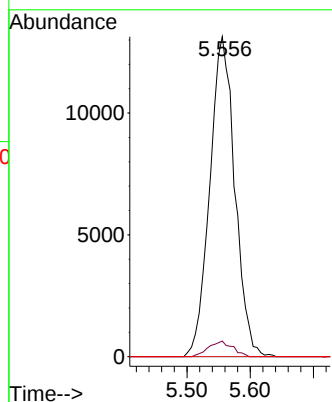
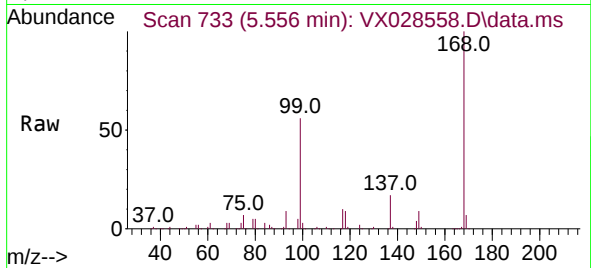




#38  
Carbon Tetrachloride  
Concen: 5.583 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.128 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

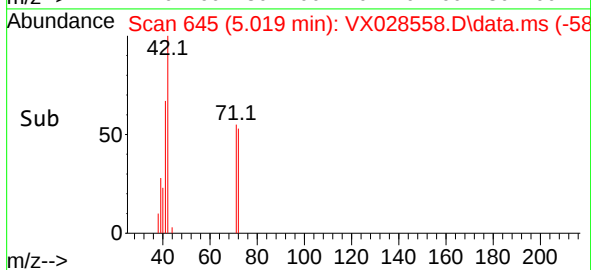
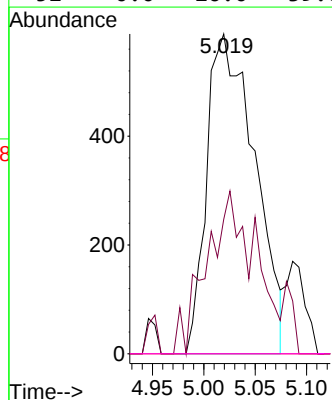
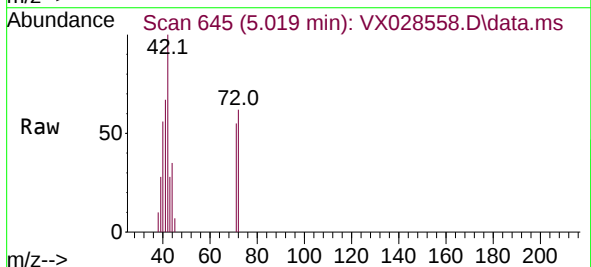
Instrument :  
MSVOA\_X  
ClientSampleId :  
MMC-PIT2

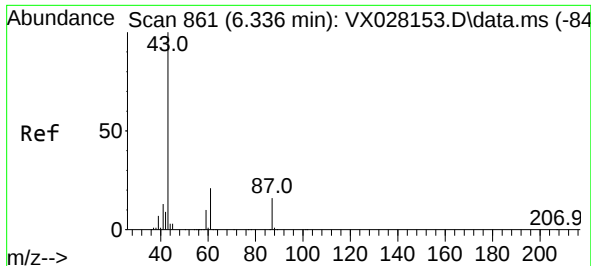
Tgt Ion:117 Resp: 36111  
Ion Ratio Lower Upper  
117 100  
119 4.9 77.3 115.9#  
121 0.0 24.2 36.2#



#41  
Methacrylonitrile  
Concen: 0.635 ug/l  
RT: 5.019 min Scan# 645  
Delta R.T. 0.097 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

Tgt Ion: 41 Resp: 1906  
Ion Ratio Lower Upper  
41 100  
39 39.1 43.0 64.4#  
67 0.0 70.2 105.4#  
52 0.0 26.0 39.0#

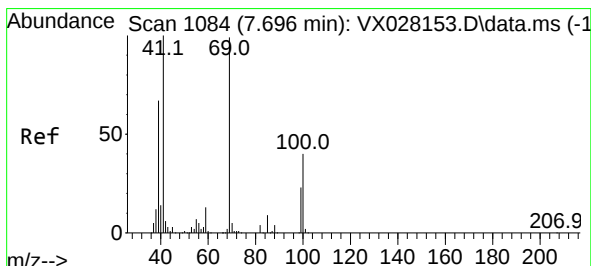
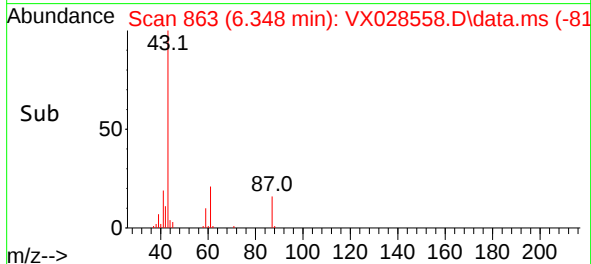
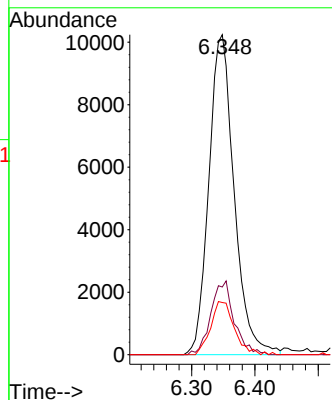
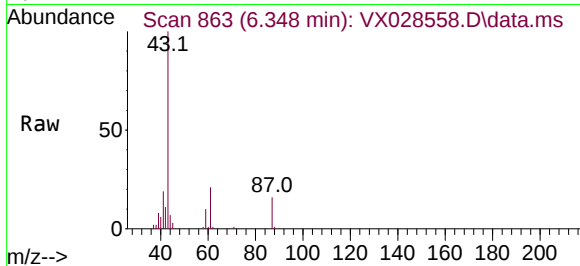




#43  
Isopropyl Acetate  
Concen: 3.006 ug/l  
RT: 6.348 min Scan# 863  
Delta R.T. 0.012 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

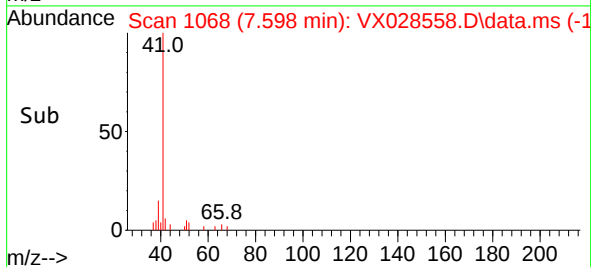
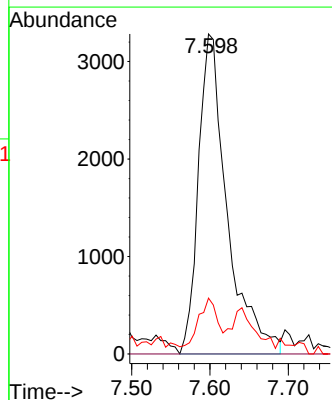
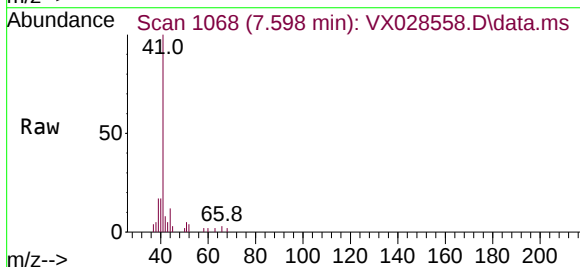
Instrument :  
MSVOA\_X  
ClientSampleId :  
MMC-PIT2

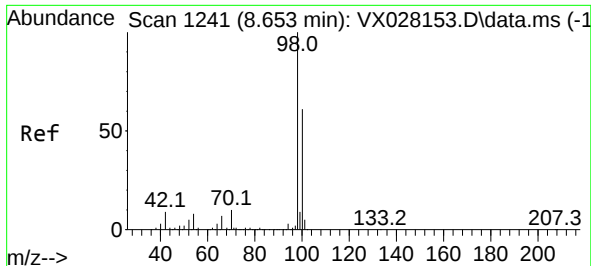
Tgt Ion: 43 Resp: 28441  
Ion Ratio Lower Upper  
43 100  
61 21.2 18.5 27.7  
87 15.4 13.0 19.6



#48  
Methyl methacrylate  
Concen: 1.929 ug/l  
RT: 7.598 min Scan# 1068  
Delta R.T. -0.098 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

Tgt Ion: 41 Resp: 8379  
Ion Ratio Lower Upper  
41 100  
69 0.0 82.5 123.7#  
39 0.0 43.8 65.8#

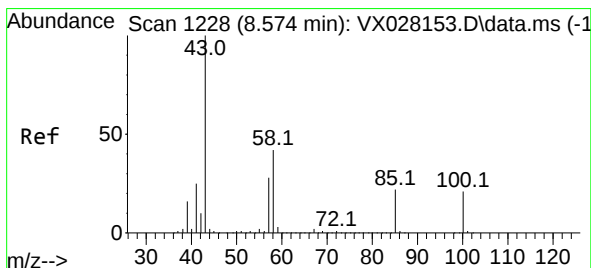
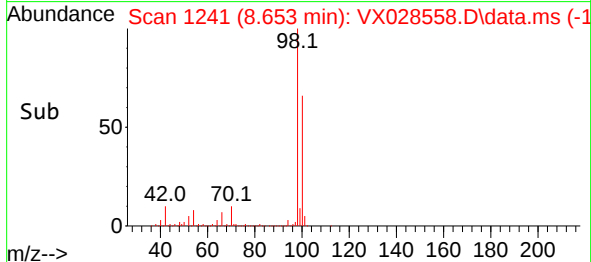
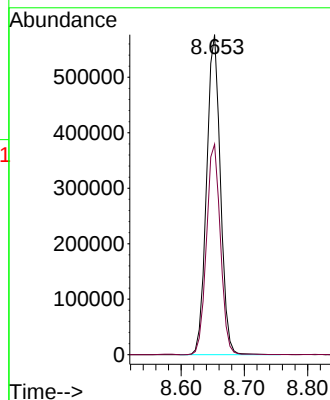
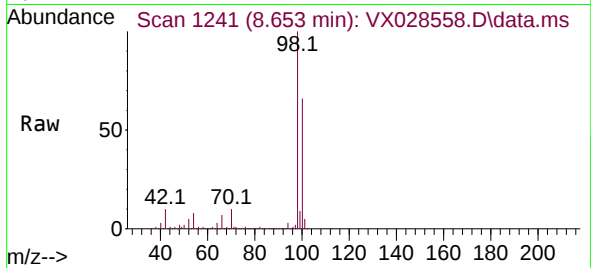




#50  
Toluene-d8  
Concen: 51.963 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

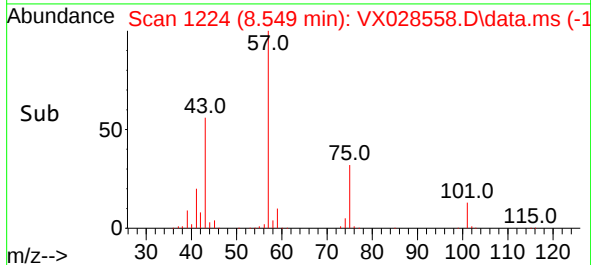
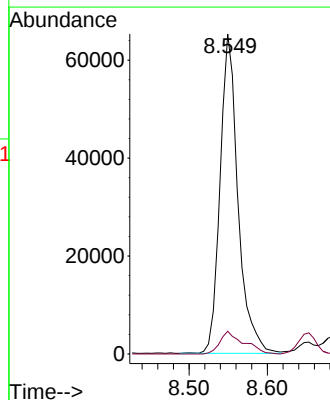
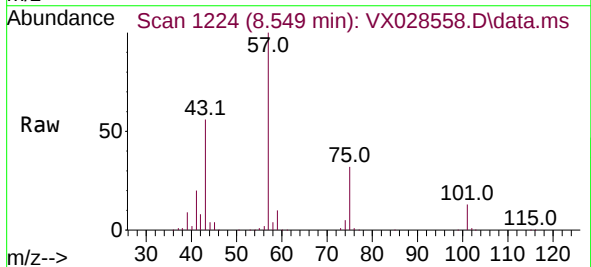
Instrument :  
MSVOA\_X  
ClientSampleId :  
MMC-PIT2

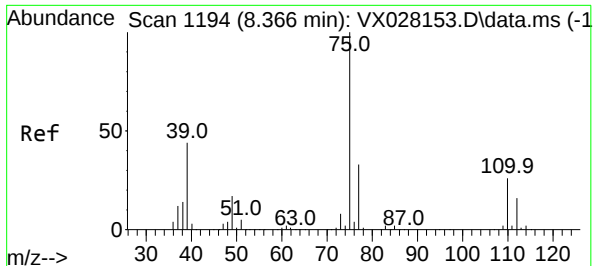
Tgt Ion: 98 Resp: 876629  
Ion Ratio Lower Upper  
98 100  
100 66.5 52.6 78.8



#51  
4-Methyl-2-Pentanone  
Concen: 17.113 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.025 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

Tgt Ion: 43 Resp: 103901  
Ion Ratio Lower Upper  
43 100  
58 9.4 36.1 54.1#

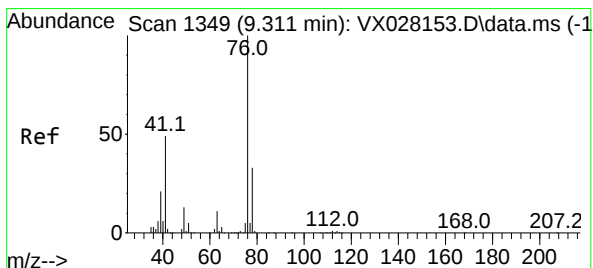
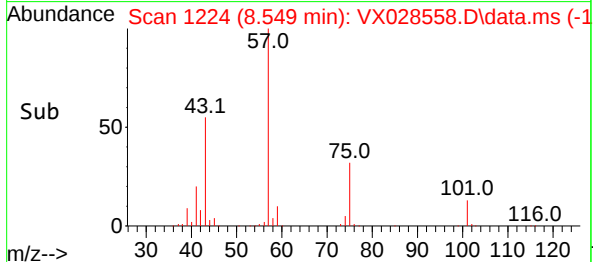
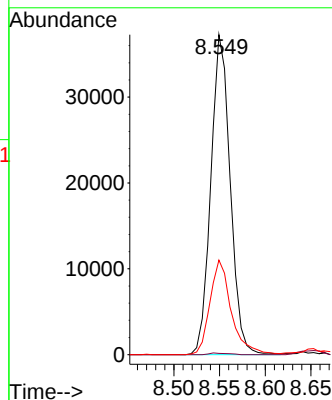
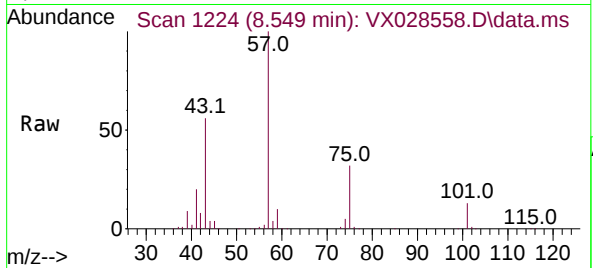




#54  
 cis-1,3-Dichloropropene  
 Concen: 7.803 ug/l  
 RT: 8.549 min Scan# 1194  
 Delta R.T. 0.183 min  
 Lab File: VX028558.D  
 Acq: 06 May 2022 18:28

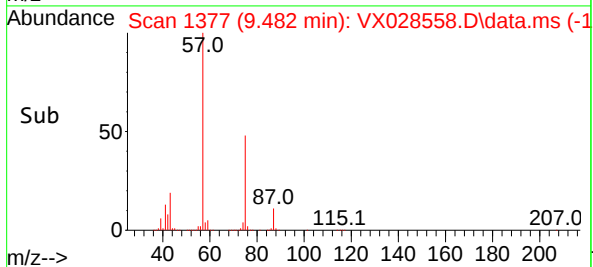
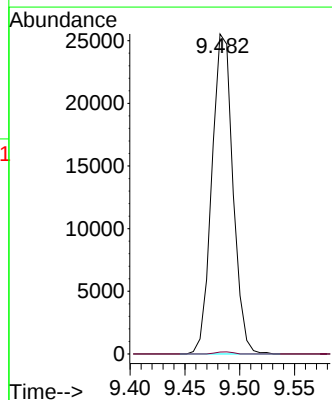
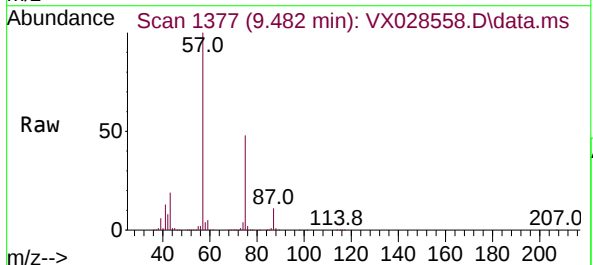
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MMC-PIT2

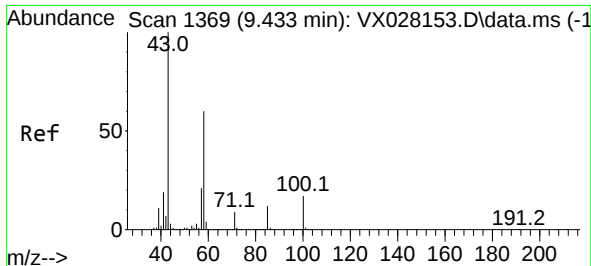
Tgt Ion: 75 Resp: 55118  
 Ion Ratio Lower Upper  
 75 100  
 77 0.4 24.8 37.2#  
 39 29.6 29.6 44.4#



#57  
 1,3-Dichloropropane  
 Concen: 4.472 ug/l  
 RT: 9.482 min Scan# 1377  
 Delta R.T. 0.171 min  
 Lab File: VX028558.D  
 Acq: 06 May 2022 18:28

Tgt Ion: 76 Resp: 34170  
 Ion Ratio Lower Upper  
 76 100  
 78 0.5 25.8 38.8#

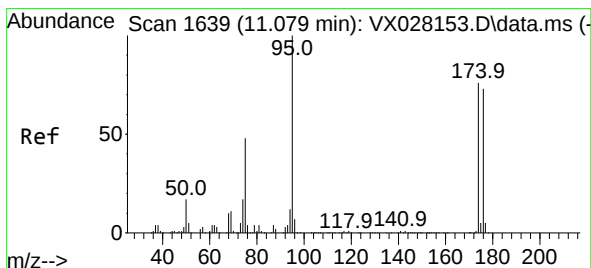
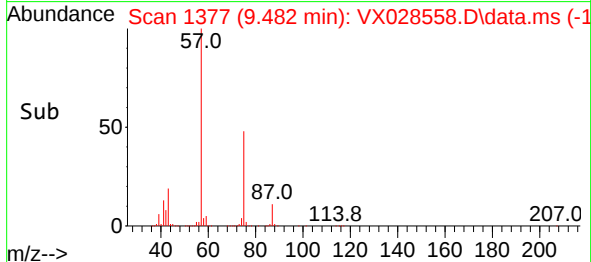
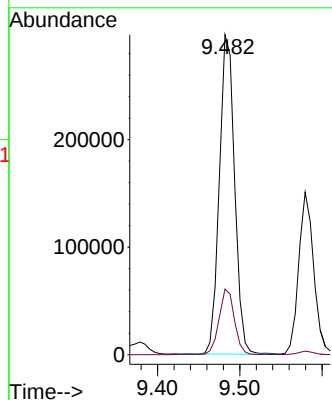
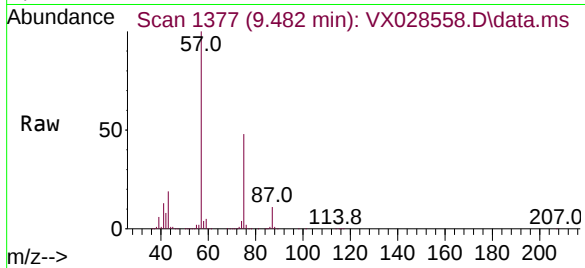




#59  
2-Hexanone  
Concen: 81.493 ug/l  
RT: 9.482 min Scan# 11  
Delta R.T. 0.049 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

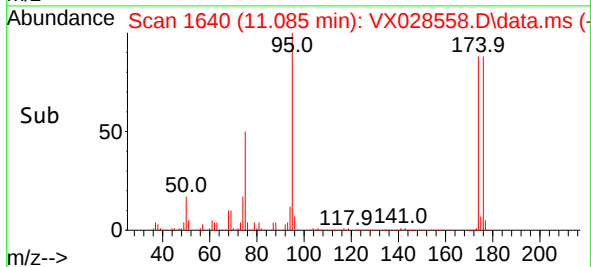
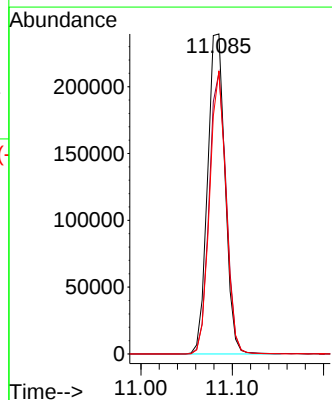
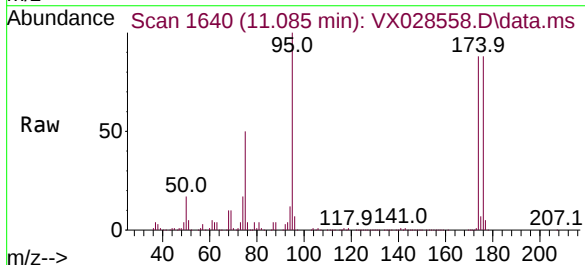
Instrument :  
MSVOA\_X  
ClientSampleId :  
MMC-PIT2

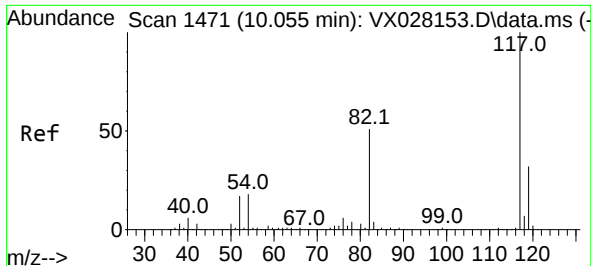
Tgt Ion: 43 Resp: 383278  
Ion Ratio Lower Upper  
43 100  
58 20.9 31.9 95.7#



#62  
4-Bromofluorobenzene  
Concen: 49.155 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.006 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

Tgt Ion: 95 Resp: 317074  
Ion Ratio Lower Upper  
95 100  
174 86.0 0.0 163.0  
176 83.4 0.0 155.0

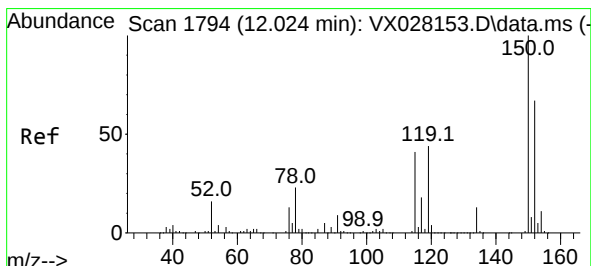
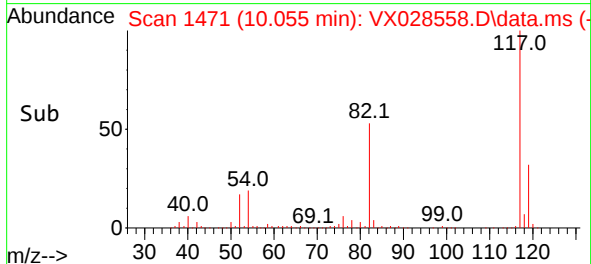
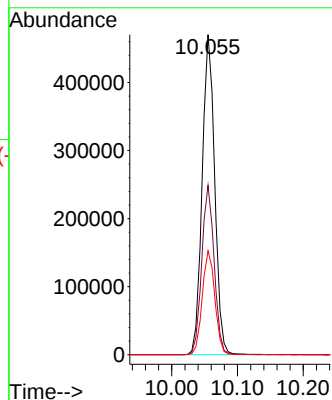
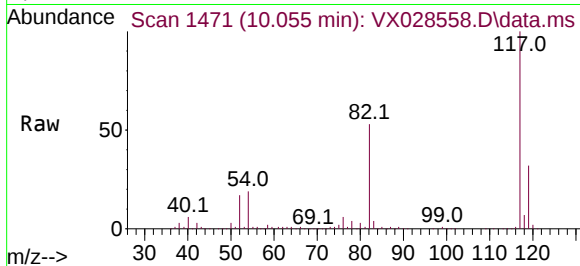




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

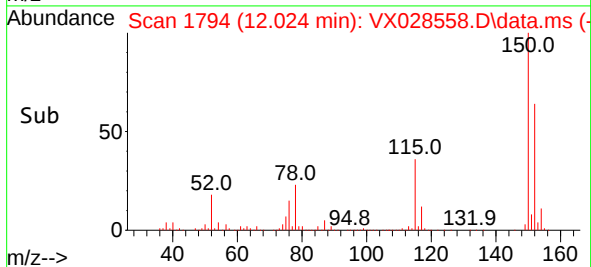
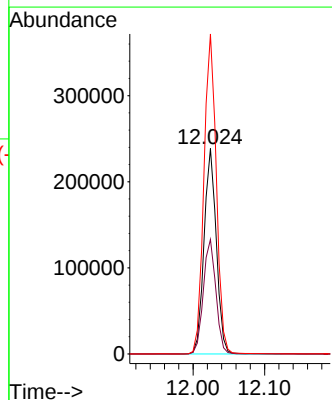
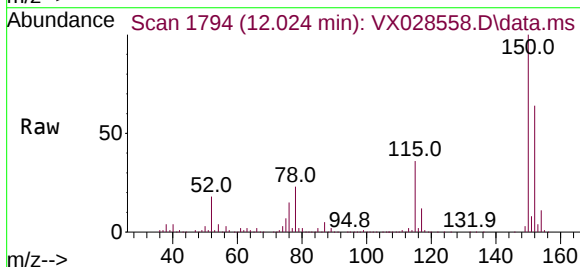
Instrument :  
MSVOA\_X  
ClientSampleId :  
MMC-PIT2

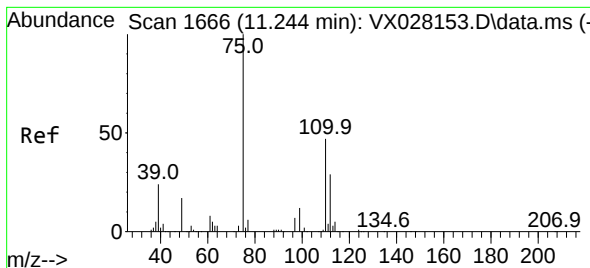
Tgt Ion:117 Resp: 621762  
Ion Ratio Lower Upper  
117 100  
82 52.9 41.8 62.8  
119 32.5 24.8 37.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

Tgt Ion:152 Resp: 284574  
Ion Ratio Lower Upper  
152 100  
115 56.8 37.5 112.7  
150 157.5 0.0 338.2

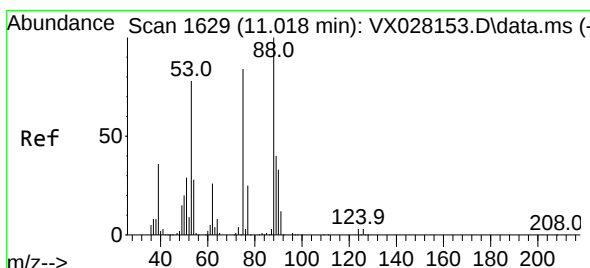
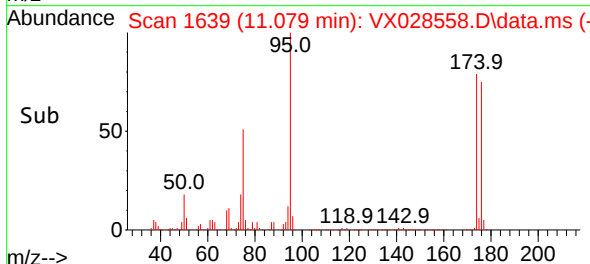
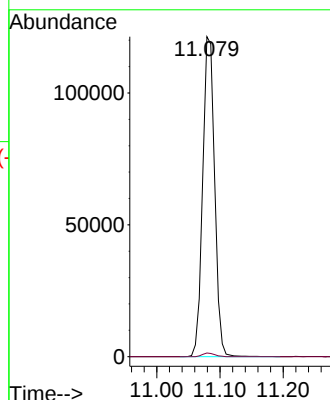
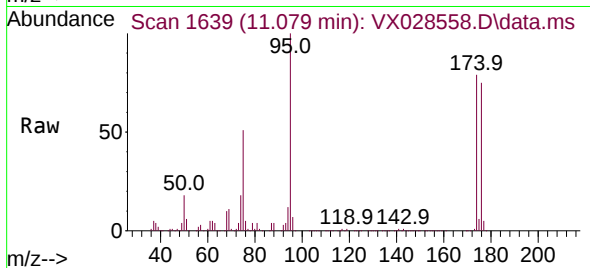




#76  
1,2,3-Trichloropropane  
Concen: 28.550 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.165 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

Instrument :  
MSVOA\_X  
ClientSampleId :  
MMC-PIT2

Tgt Ion: 75 Resp: 159896  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.4 58.2#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 84.842 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX028558.D  
Acq: 06 May 2022 18:28

Tgt Ion: 75 Resp: 159896  
Ion Ratio Lower Upper  
75 100  
53 0.0 69.0 103.4#  
89 0.0 37.0 55.6#

