

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060321\  
 Data File : VX022358.D  
 Acq On : 03 Jun 2021 12:02  
 Operator : JC/MD  
 Sample : M2560-10  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S1-D-TOP

Quant Time: Jun 03 13:05:26 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051921W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 19 14:23:10 2021  
 Response via : Initial Calibration

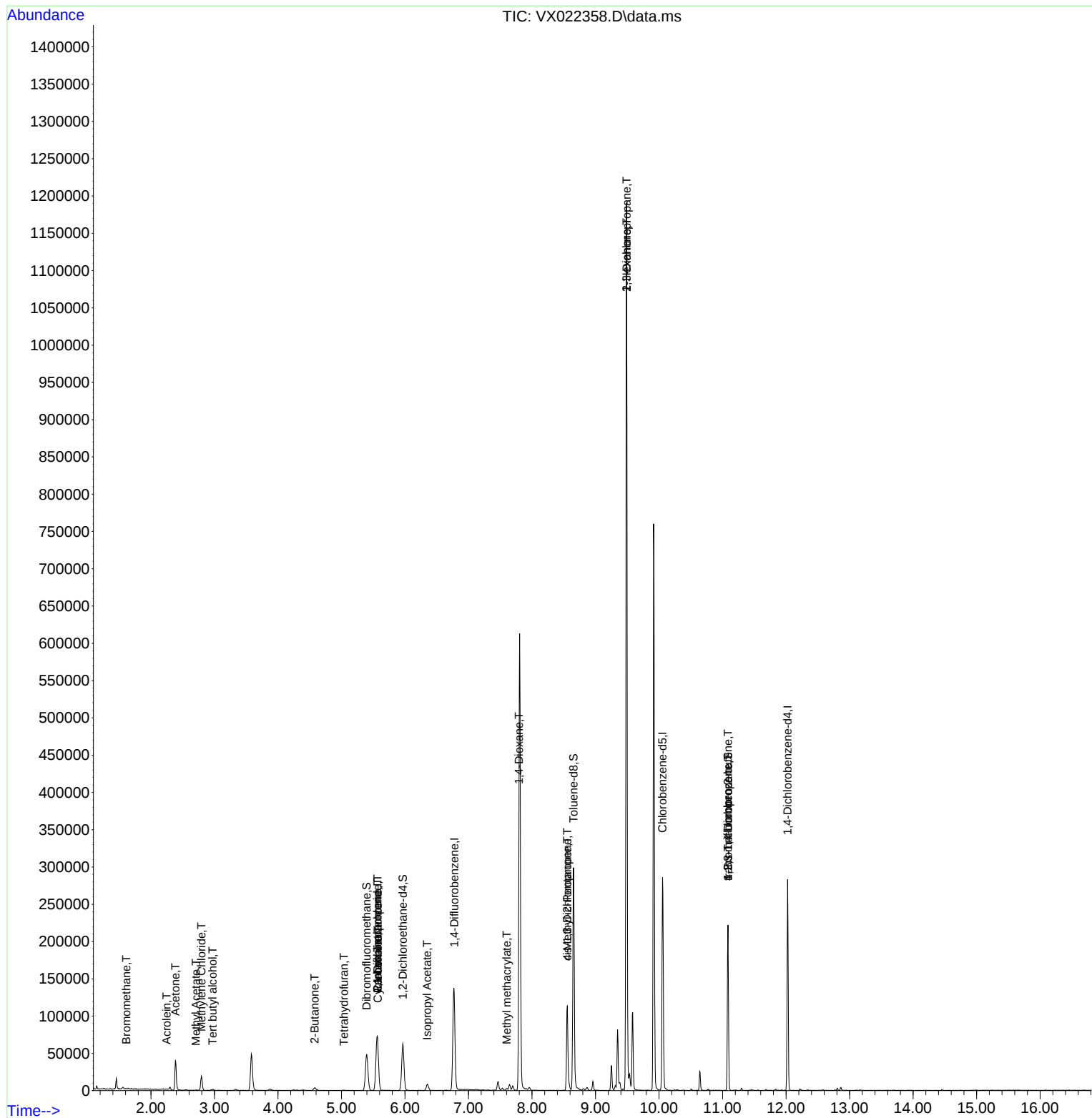
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 5.568          | 168  | 62989      | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.775          | 114  | 137535     | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 126226     | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 49776      | 50.00   | ug/l   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964          | 65   | 55775      | 57.40   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 114.80% |        |          |
| 35) Dibromofluoromethane      | 5.397          | 113  | 40999      | 47.01   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 94.02%  |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 169137     | 50.34   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 100.68% |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 60033      | 48.34   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 96.68%  |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         | Qvalue |          |
| 5) Bromomethane               | 1.611          | 94   | 395        | 0.78    | ug/l # | 49       |
| 11) Tert butyl alcohol        | 2.971          | 59   | 1823       | 8.20    | ug/l # | 84       |
| 13) Acrolein                  | 2.245          | 56   | 93         | 0.63    | ug/l # | 1        |
| 16) Acetone                   | 2.386          | 43   | 41260      | 97.52   | ug/l   | 97       |
| 18) Methyl Acetate            | 2.709          | 43   | 910        | 0.81    | ug/l # | 81       |
| 20) Methylene Chloride        | 2.794          | 84   | 8130       | 8.65    | ug/l   | 96       |
| 25) 2-Butanone                | 4.574          | 43   | 6055       | 8.85    | ug/l # | 81       |
| 29) Tetrahydrofuran           | 5.038          | 42   | 300        | 0.74    | ug/l # | 39       |
| 31) Cyclohexane               | 5.574          | 56   | 1839       | 1.51    | ug/l # | 57       |
| 36) 1,1-Dichloropropene       | 5.568          | 75   | 6204       | 4.88    | ug/l # | 47       |
| 38) Carbon Tetrachloride      | 5.568          | 117  | 7280       | 5.85    | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.348          | 43   | 11416      | 4.48    | ug/l # | 93       |
| 48) Methyl methacrylate       | 7.604          | 41   | 3661       | 3.12    | ug/l # | 10       |
| 49) 1,4-Dioxane               | 7.793          | 88   | 20         | 0.87    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.555          | 43   | 43728      | 28.63   | ug/l # | 48       |
| 54) cis-1,3-Dichloropropene   | 8.555          | 75   | 19057      | 11.33   | ug/l # | 62       |
| 57) 1,3-Dichloropropane       | 9.488          | 76   | 10192      | 5.93    | ug/l # | 42       |
| 59) 2-Hexanone                | 9.488          | 43   | 134221     | 116.83  | ug/l # | 44       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 30872      | 25.14   | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 30872      | 59.57   | ug/l # | 12       |
| -----                         |                |      |            |         |        |          |

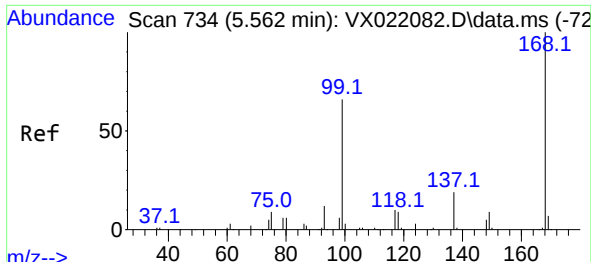
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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S1-D-TOP

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051921W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 19 14:23:10 2021  
Response via : Initial Calibration

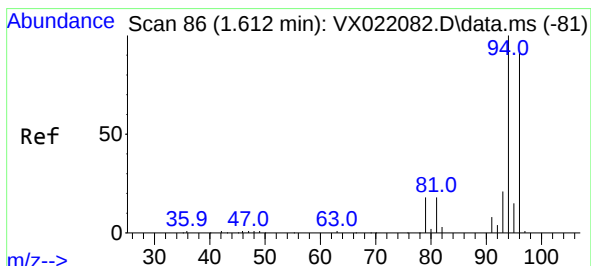
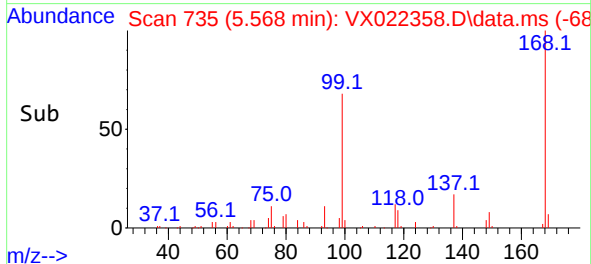
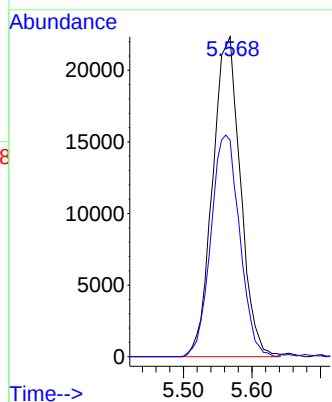
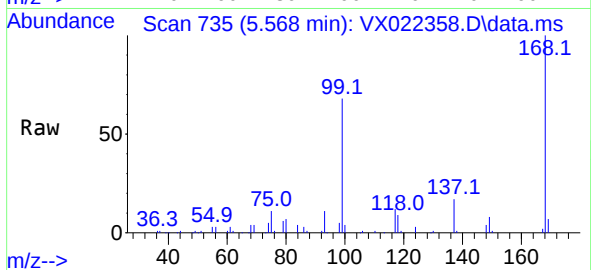




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.568 min Scan# 735  
Delta R.T. 0.006 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

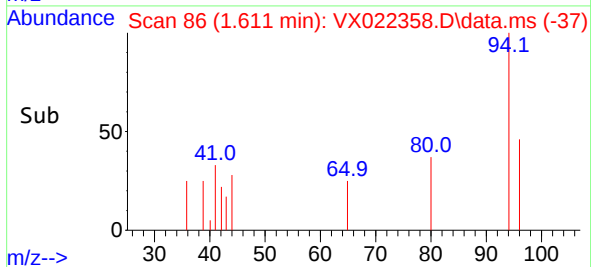
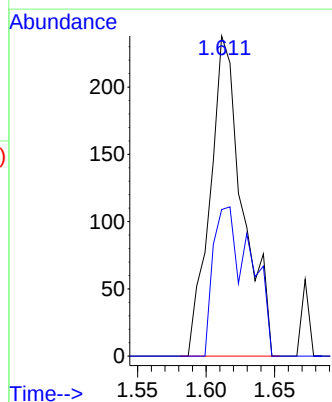
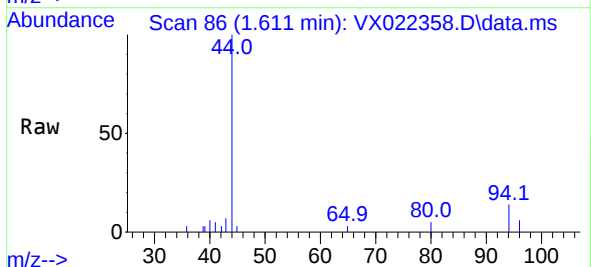
Instrument :  
MSVOA\_X  
ClientSampleId :  
S1-D-TOP

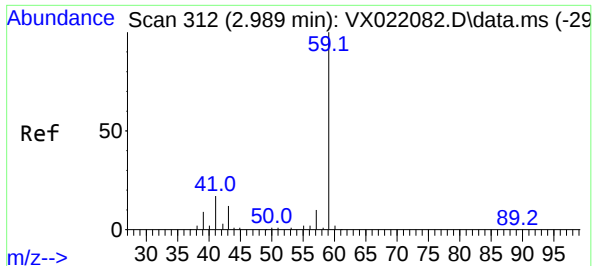
Tgt Ion:168 Resp: 62989  
Ion Ratio Lower Upper  
168 100  
99 67.6 45.8 68.6



#5  
Bromomethane  
Concen: 0.78 ug/l  
RT: 1.611 min Scan# 86  
Delta R.T. -0.001 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

Tgt Ion: 94 Resp: 395  
Ion Ratio Lower Upper  
94 100  
96 45.8 76.4 114.6#



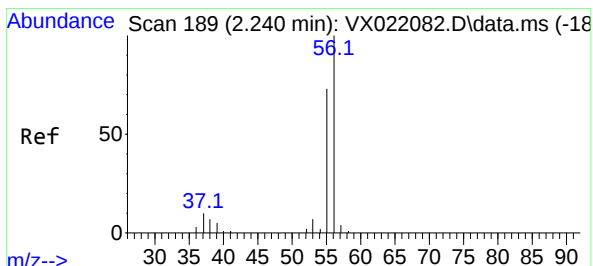
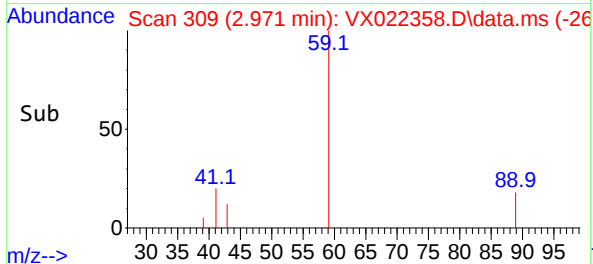
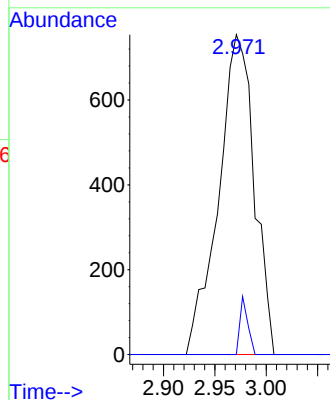
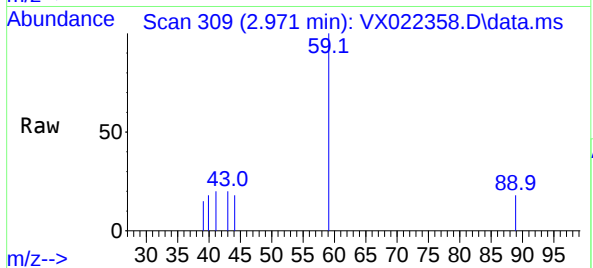


#11

Tert butyl alcohol  
Concen: 8.20 ug/l  
RT: 2.971 min Scan# 309  
Delta R.T. -0.018 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

Instrument :  
MSVOA\_X  
ClientSampled :  
S1-D-TOP

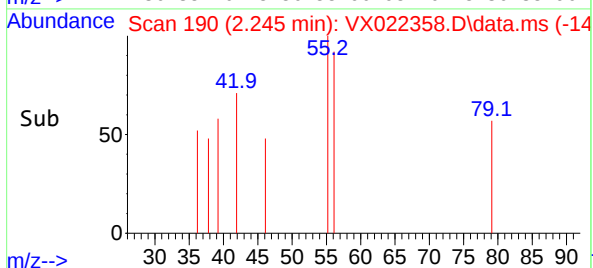
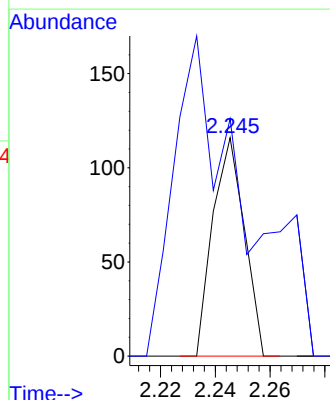
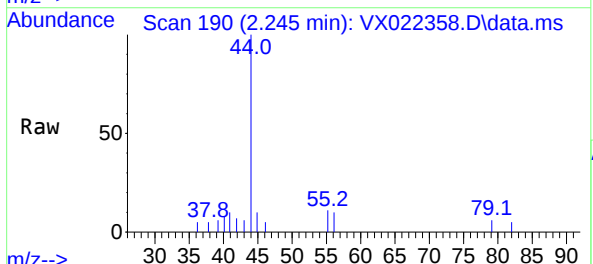
Tgt Ion: 59 Resp: 1823  
Ion Ratio Lower Upper  
59 100  
57 3.9 7.8 11.8#

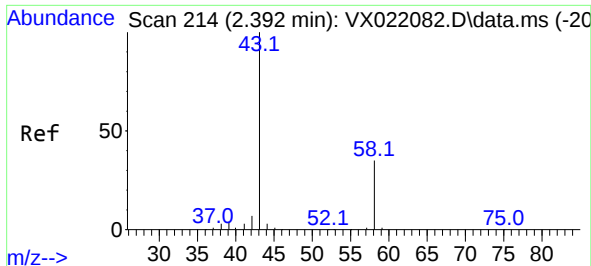


#13

Acrolein  
Concen: 0.63 ug/l  
RT: 2.245 min Scan# 190  
Delta R.T. 0.005 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

Tgt Ion: 56 Resp: 93  
Ion Ratio Lower Upper  
56 100  
55 324.7 56.4 84.6#

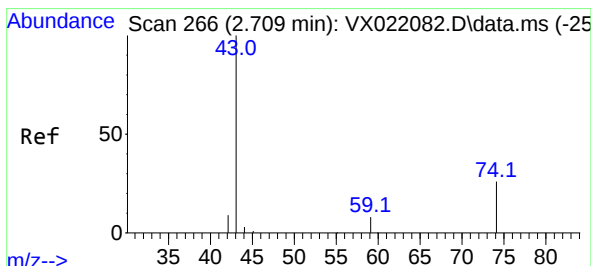
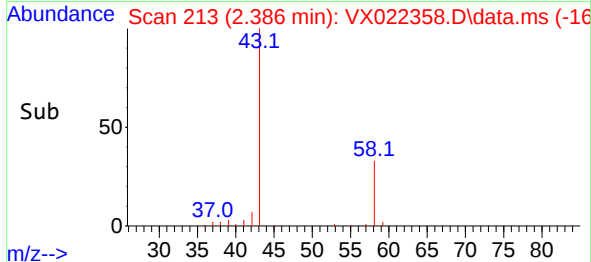
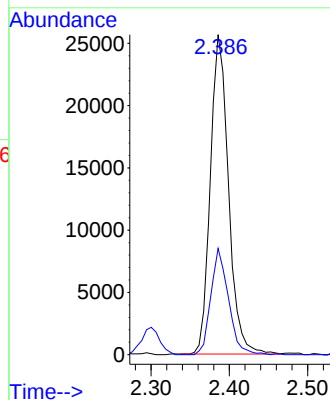
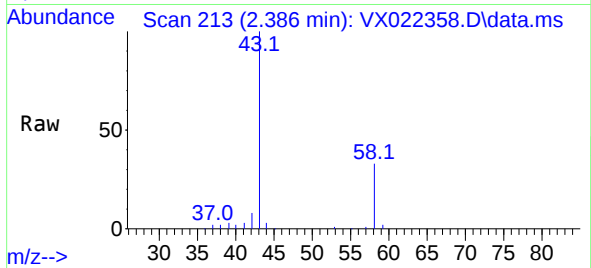




#16  
Acetone  
Concen: 97.52 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

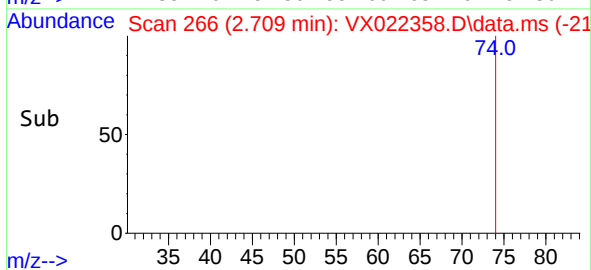
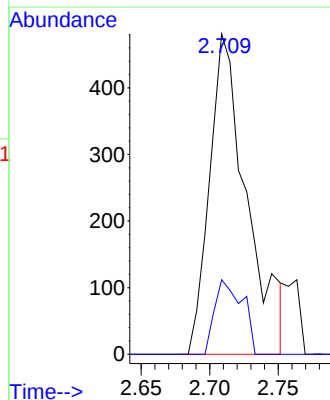
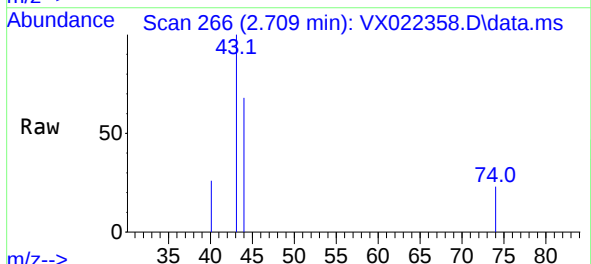
Instrument :  
MSVOA\_X  
ClientSampleId :  
S1-D-TOP

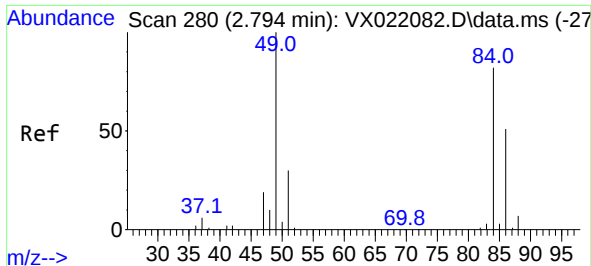
Tgt Ion: 43 Resp: 41260  
Ion Ratio Lower Upper  
43 100  
58 33.3 27.8 41.8



#18  
Methyl Acetate  
Concen: 0.81 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. -0.000 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

Tgt Ion: 43 Resp: 910  
Ion Ratio Lower Upper  
43 100  
74 17.4 21.9 32.9#



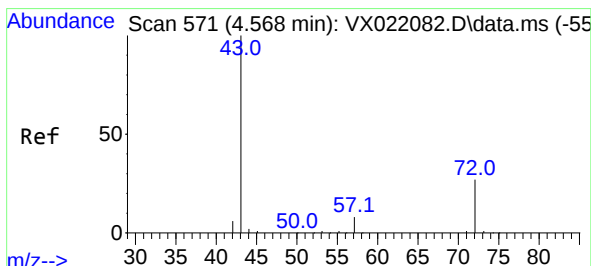
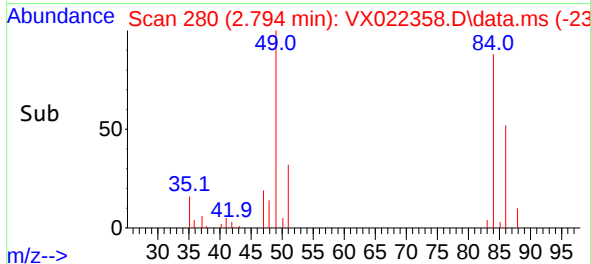
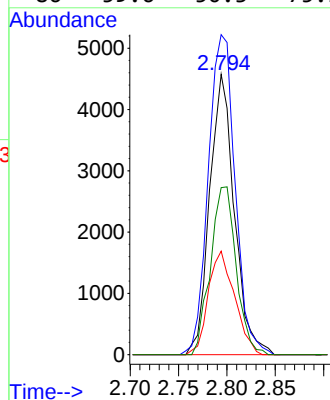
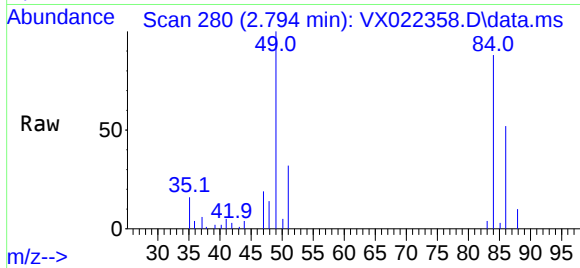


#20  
Methylene Chloride  
Concen: 8.65 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.000 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

Instrument :  
MSVOA\_X  
ClientSampleId :  
S1-D-TOP

Tgt Ion: 84 Resp: 8130

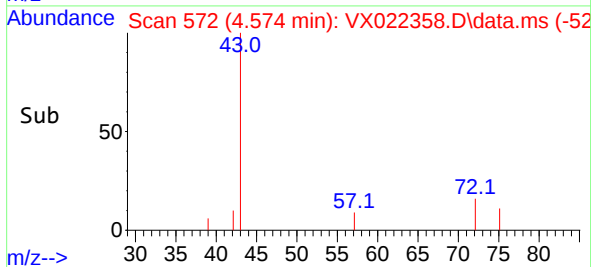
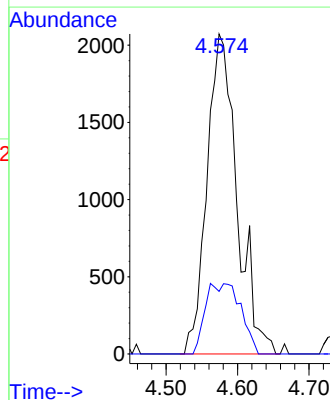
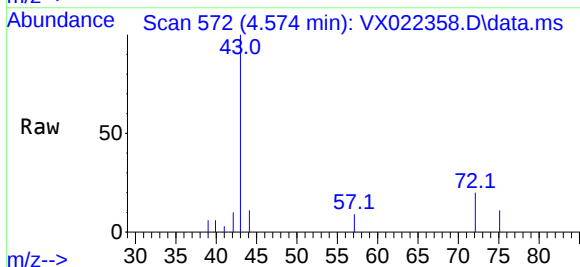
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 114.2 | 88.6  | 132.8 |
| 51  | 36.9  | 27.0  | 40.6  |
| 86  | 59.6  | 50.3  | 75.5  |

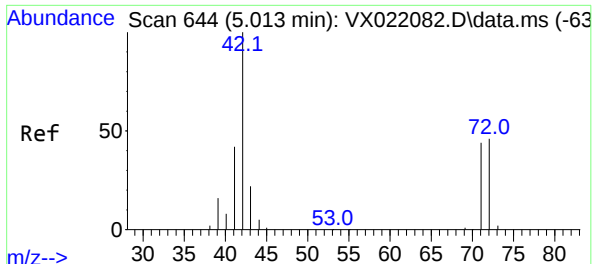


#25  
2-Butanone  
Concen: 8.85 ug/l  
RT: 4.574 min Scan# 572  
Delta R.T. 0.006 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

Tgt Ion: 43 Resp: 6055

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 19.5  | 23.7  | 35.5# |





#29

Tetrahydrofuran

Concen: 0.74 ug/l

RT: 5.038 min Scan# 648

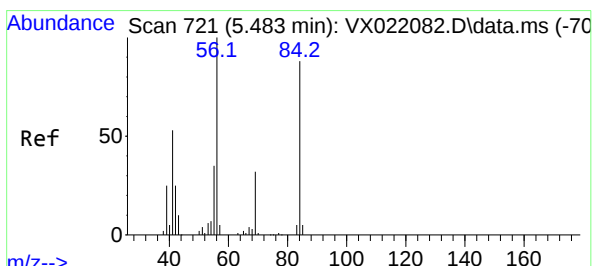
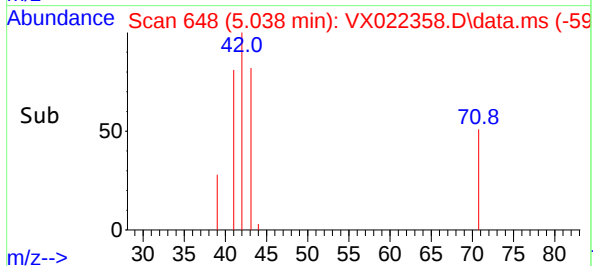
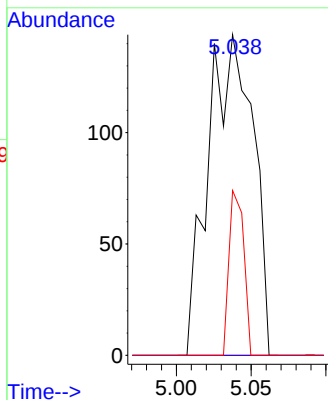
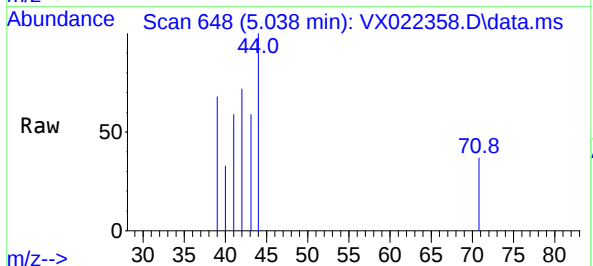
Delta R.T. 0.025 min

Lab File: VX022358.D

Acq: 03 Jun 2021 12:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 300   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 41.7  | 62.5# |
| 71       | 16.7  | 38.4  | 57.6# |

Instrument :  
MSVOA\_X  
ClientSampleId :  
S1-D-TOP



#31

Cyclohexane

Concen: 1.51 ug/l

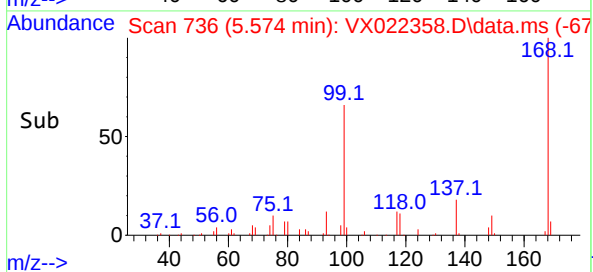
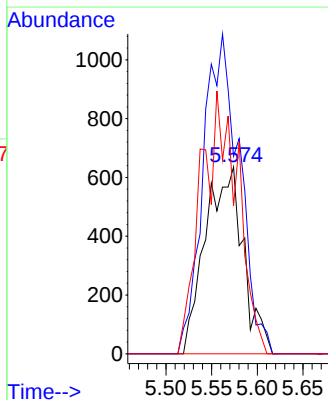
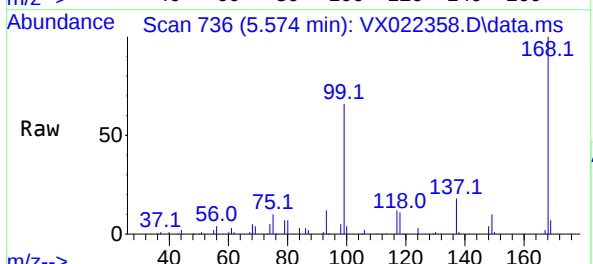
RT: 5.574 min Scan# 736

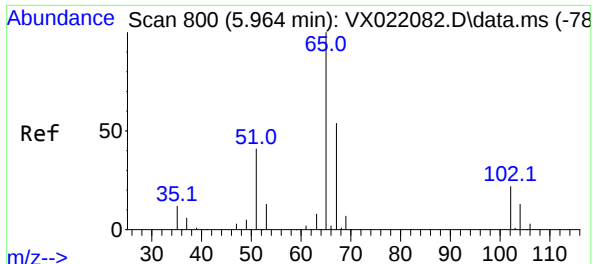
Delta R.T. 0.091 min

Lab File: VX022358.D

Acq: 03 Jun 2021 12:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 1839  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 105.7 | 25.3  | 37.9# |
| 84       | 79.2  | 71.4  | 107.0 |



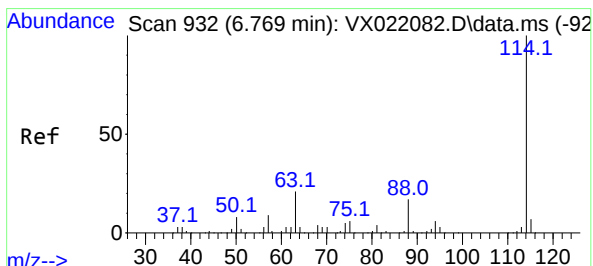
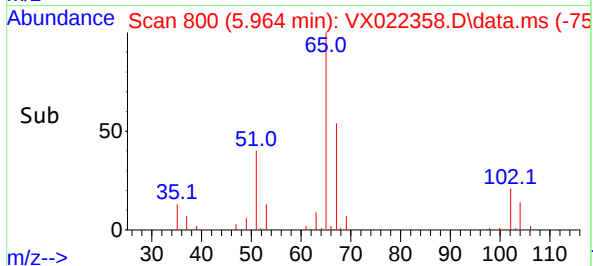
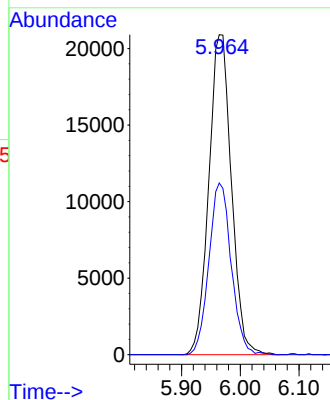
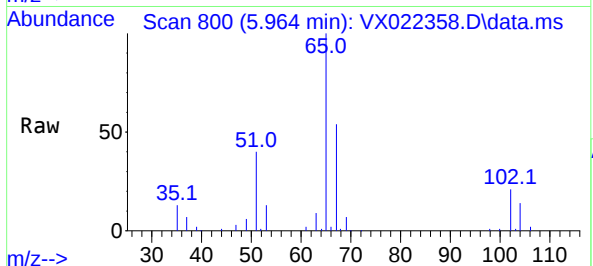


#33

1,2-Dichloroethane-d4  
Concen: 57.40 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.000 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

Instrument :  
MSVOA\_X  
ClientSampled :  
S1-D-TOP

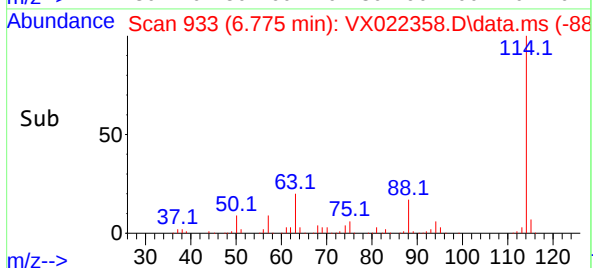
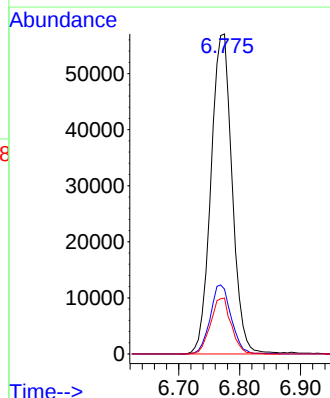
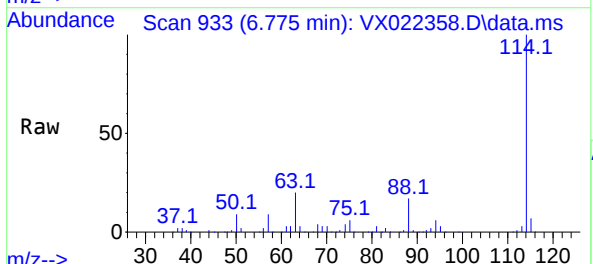
Tgt Ion: 65 Resp: 55775  
Ion Ratio Lower Upper  
65 100  
67 53.0 0.0 105.4

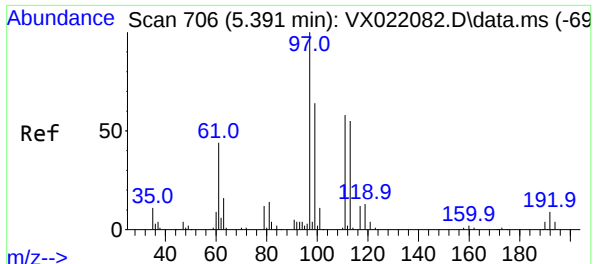


#34

1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.775 min Scan# 933  
Delta R.T. 0.006 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

Tgt Ion: 114 Resp: 137535  
Ion Ratio Lower Upper  
114 100  
63 20.3 0.0 40.8  
88 17.4 0.0 32.8

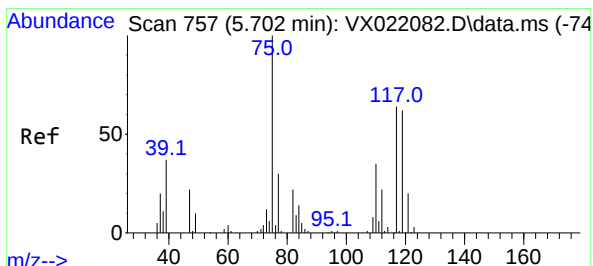
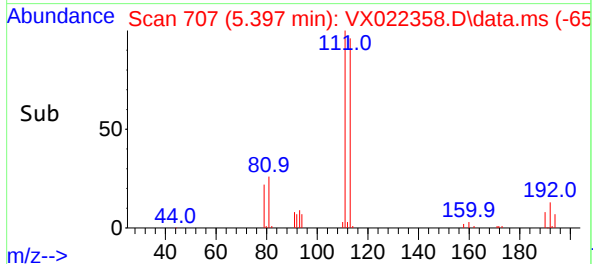
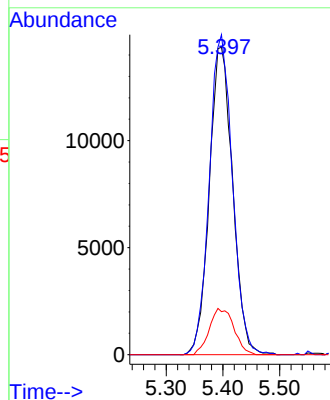
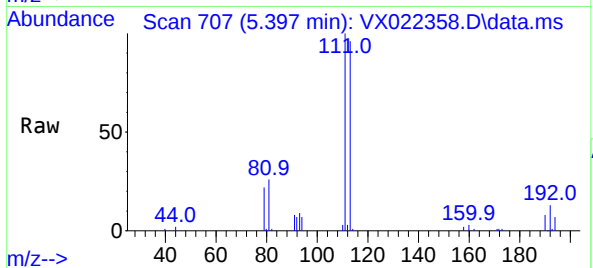




#35  
Dibromofluoromethane  
Concen: 47.01 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.006 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

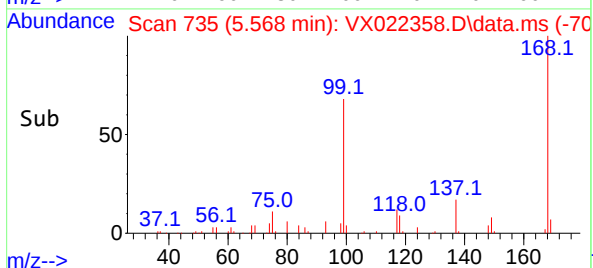
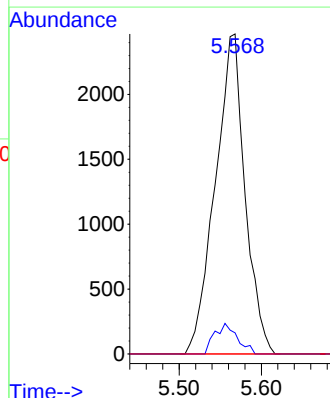
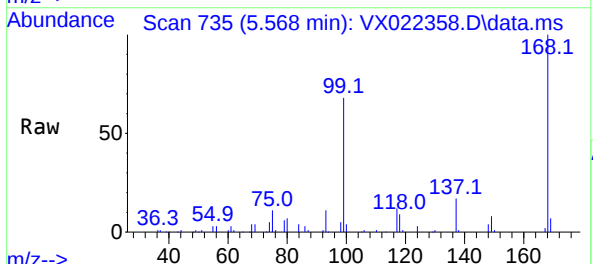
Instrument :  
MSVOA\_X  
ClientSampleId :  
S1-D-TOP

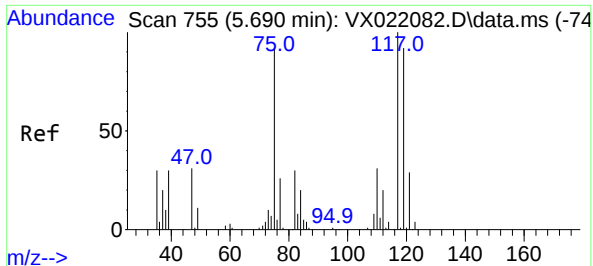
Tgt Ion:113 Resp: 40999  
Ion Ratio Lower Upper  
113 100  
111 103.4 81.9 122.9  
192 15.8 16.7 25.1#



#36  
1,1-Dichloropropene  
Concen: 4.88 ug/l  
RT: 5.568 min Scan# 735  
Delta R.T. -0.134 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

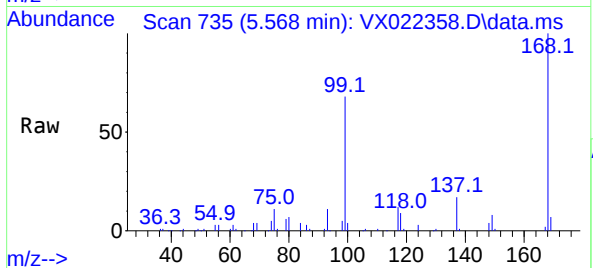
Tgt Ion: 75 Resp: 6204  
Ion Ratio Lower Upper  
75 100  
110 7.3 18.1 54.4#  
77 0.0 25.3 37.9#



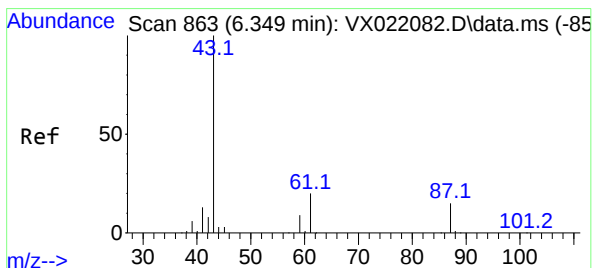
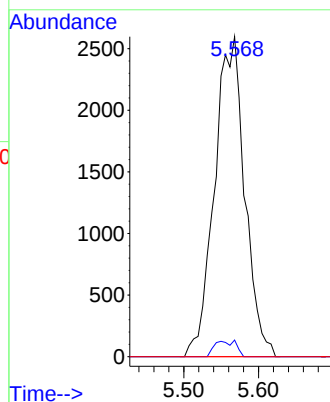
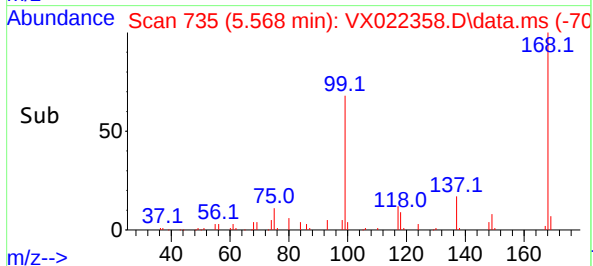


#38  
Carbon Tetrachloride  
Concen: 5.85 ug/l  
RT: 5.568 min Scan# 735  
Delta R.T. -0.122 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

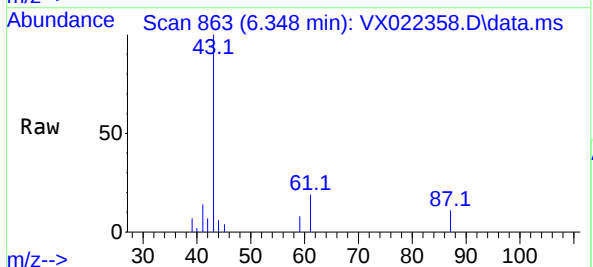
Instrument :  
MSVOA\_X  
ClientSampleId :  
S1-D-TOP



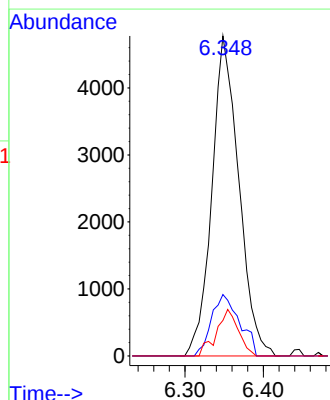
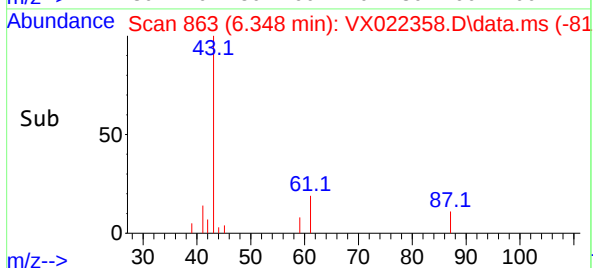
Tgt Ion:117 Resp: 7280  
Ion Ratio Lower Upper  
117 100  
119 5.2 76.2 114.2#  
121 0.0 24.8 37.2#

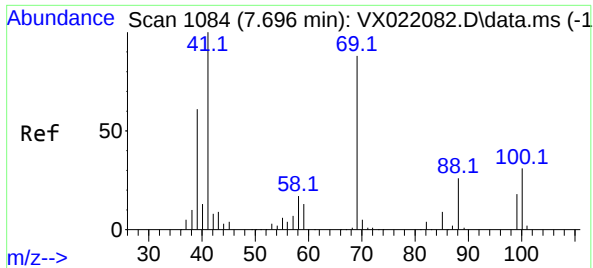


#43  
Isopropyl Acetate  
Concen: 4.48 ug/l  
RT: 6.348 min Scan# 863  
Delta R.T. -0.001 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02



Tgt Ion: 43 Resp: 11416  
Ion Ratio Lower Upper  
43 100  
61 20.0 18.2 27.4  
87 11.9 12.5 18.7#

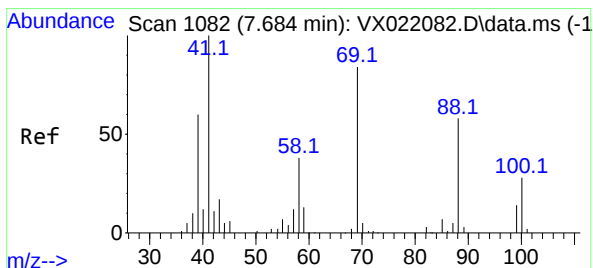
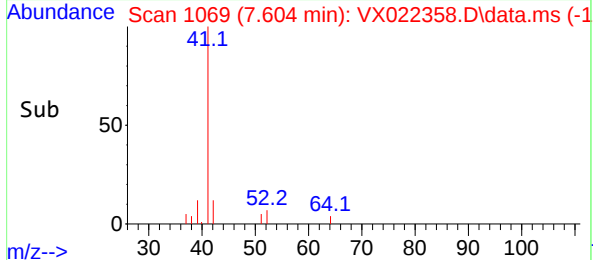
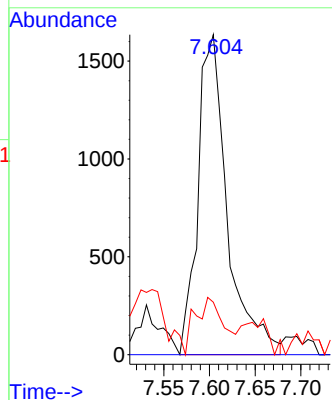
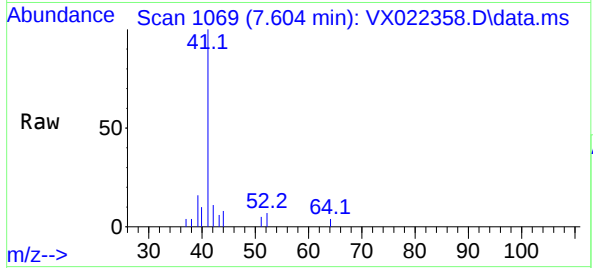




#48  
Methyl methacrylate  
Concen: 3.12 ug/l  
RT: 7.604 min Scan# 1069  
Delta R.T. -0.092 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

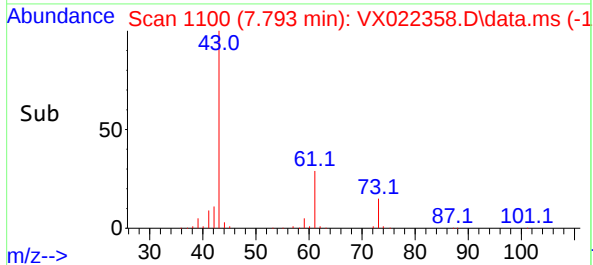
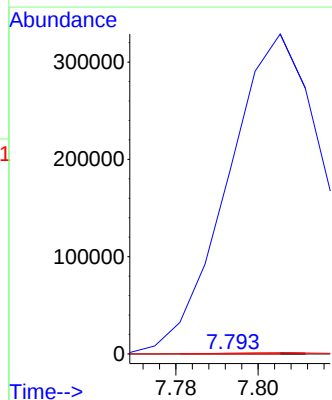
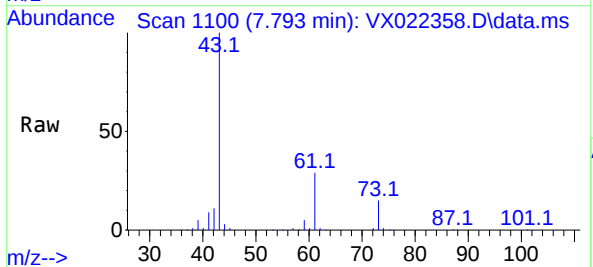
Instrument :  
MSVOA\_X  
ClientSampleId :  
S1-D-TOP

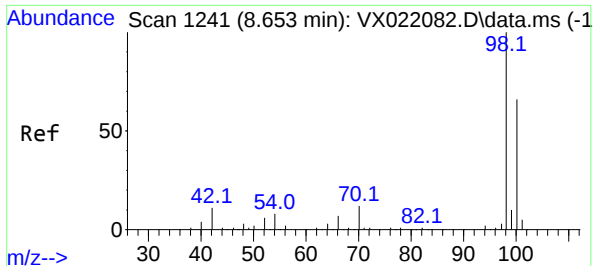
Tgt Ion: 41 Resp: 3661  
Ion Ratio Lower Upper  
41 100  
69 0.0 76.0 114.0#  
39 0.0 44.6 67.0#



#49  
1,4-Dioxane  
Concen: 0.87 ug/l  
RT: 7.793 min Scan# 1100  
Delta R.T. 0.109 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

Tgt Ion: 88 Resp: 20  
Ion Ratio Lower Upper  
88 100  
43 2797230.0 23.2 34.8#  
58 11255.0 55.0 82.4#

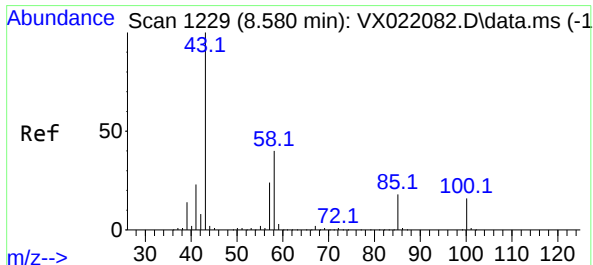
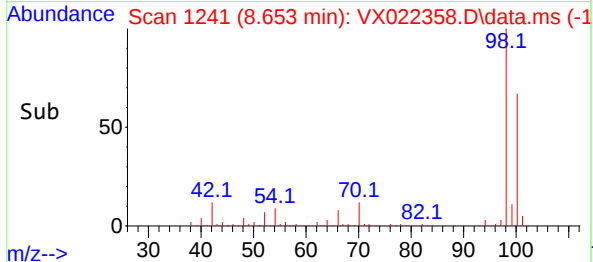
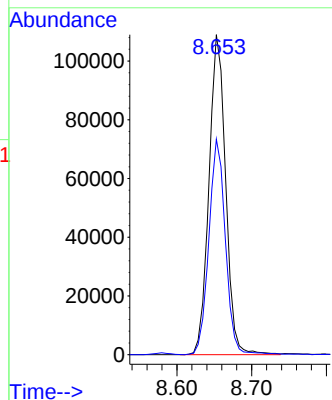
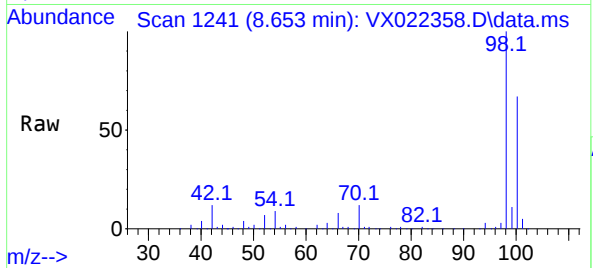




#50  
Toluene-d8  
Concen: 50.34 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

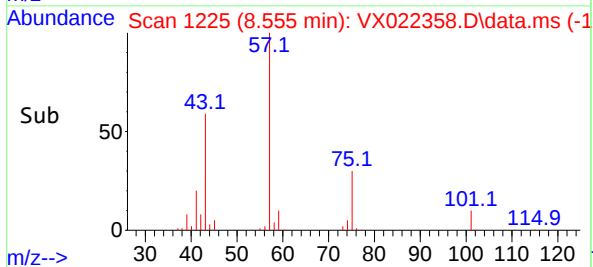
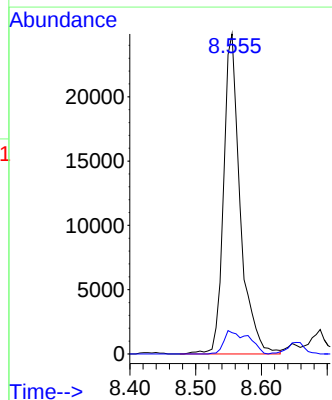
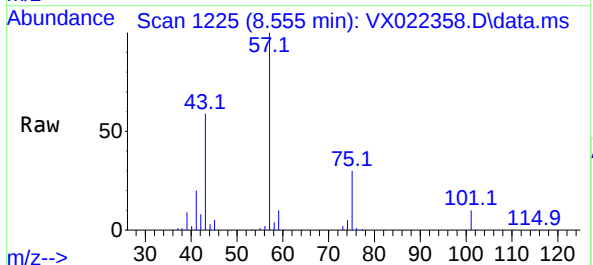
Instrument :  
MSVOA\_X  
ClientSampleId :  
S1-D-TOP

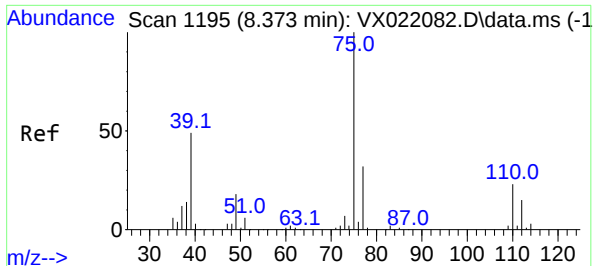
Tgt Ion: 98 Resp: 169137  
Ion Ratio Lower Upper  
98 100  
100 67.0 51.9 77.9



#51  
4-Methyl-2-Pentanone  
Concen: 28.63 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. -0.025 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

Tgt Ion: 43 Resp: 43728  
Ion Ratio Lower Upper  
43 100  
58 10.8 35.4 53.0#

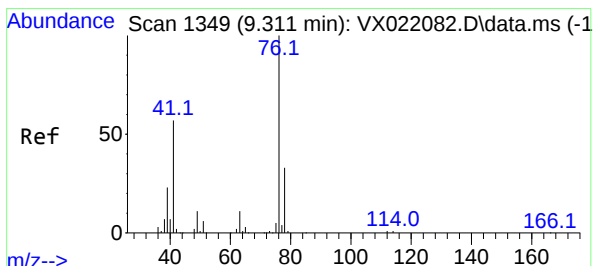
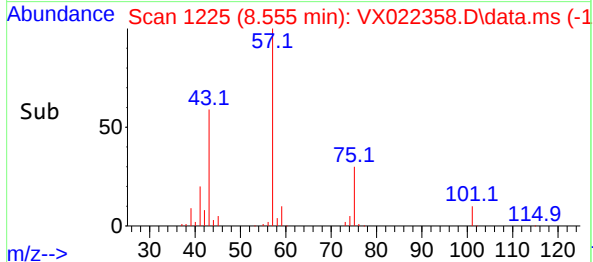
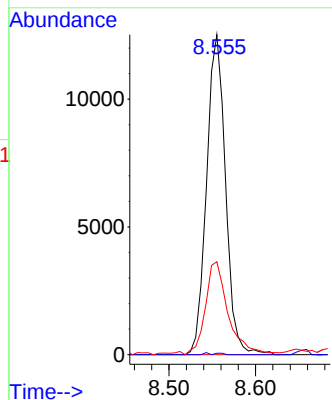
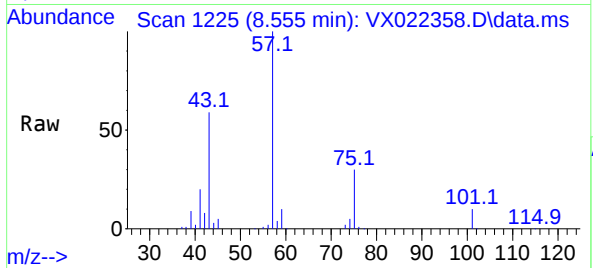




#54  
cis-1,3-Dichloropropene  
Concen: 11.33 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. 0.182 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

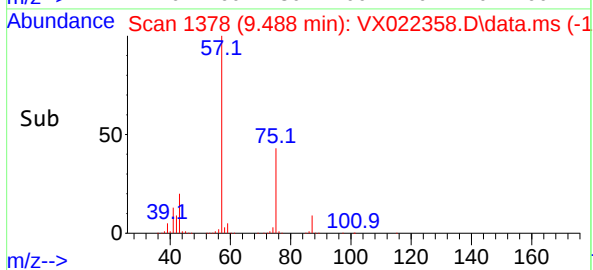
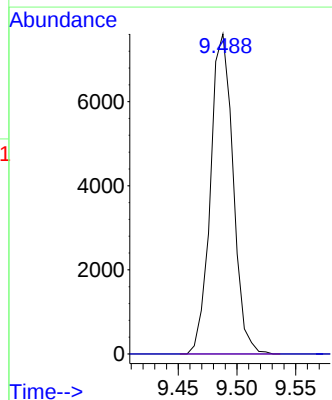
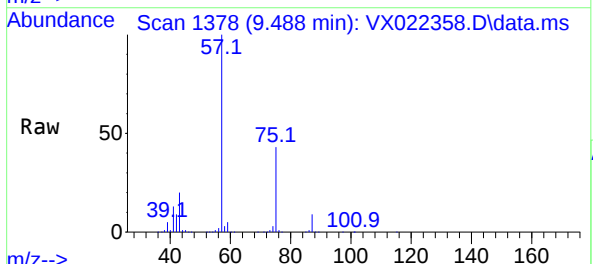
Instrument :  
MSVOA\_X  
ClientSampleId :  
S1-D-TOP

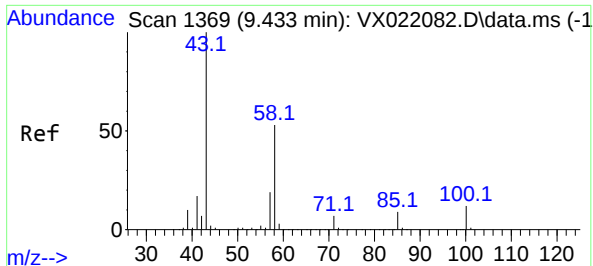
Tgt Ion: 75 Resp: 19057  
Ion Ratio Lower Upper  
75 100  
77 0.5 25.7 38.5#  
39 28.4 35.1 52.7#



#57  
1,3-Dichloropropane  
Concen: 5.93 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.177 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

Tgt Ion: 76 Resp: 10192  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.2 39.2#

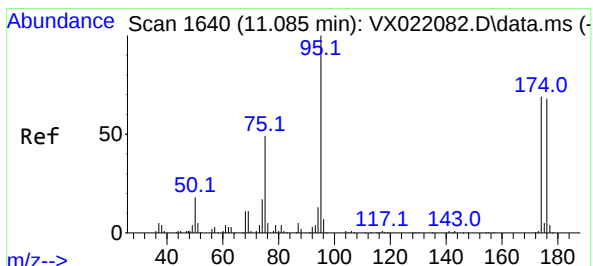
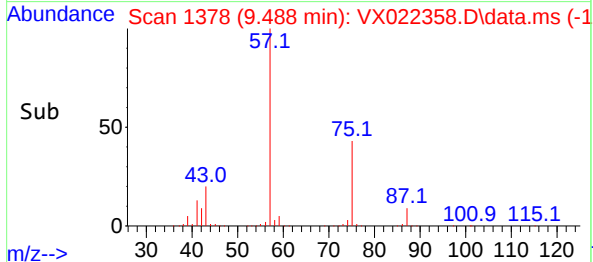
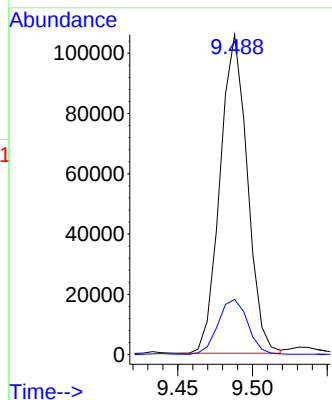
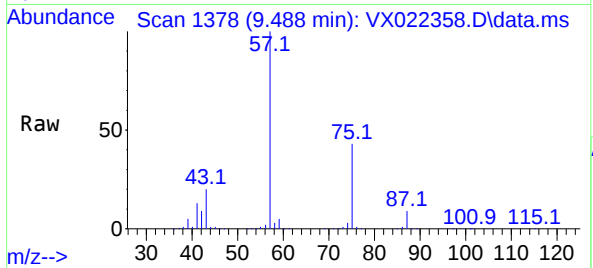




#59  
2-Hexanone  
Concen: 116.83 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.055 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

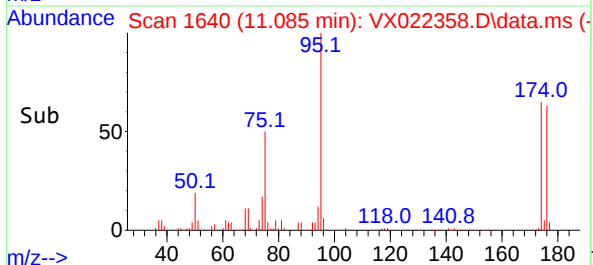
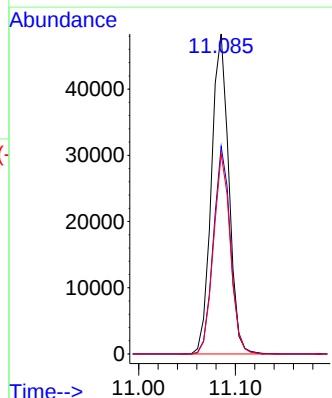
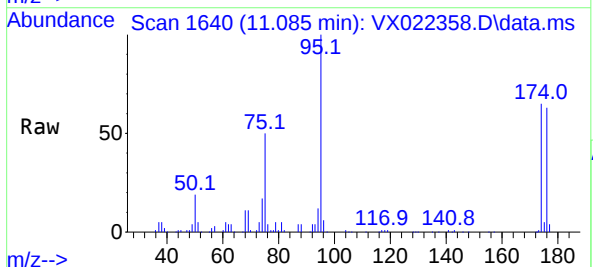
Instrument :  
MSVOA\_X  
ClientSampled :  
S1-D-TOP

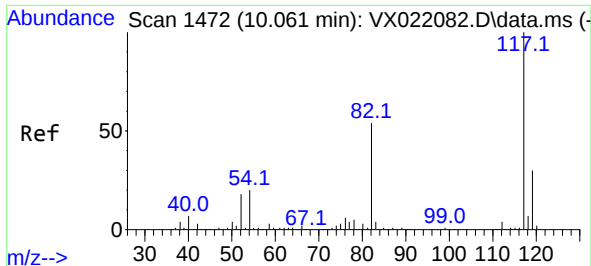
Tgt Ion: 43 Resp: 134221  
Ion Ratio Lower Upper  
43 100  
58 18.9 30.9 92.8#



#62  
4-Bromofluorobenzene  
Concen: 48.34 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

Tgt Ion: 95 Resp: 60033  
Ion Ratio Lower Upper  
95 100  
174 63.7 0.0 154.6  
176 60.7 0.0 155.8

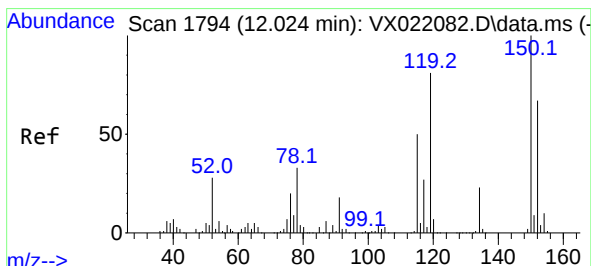
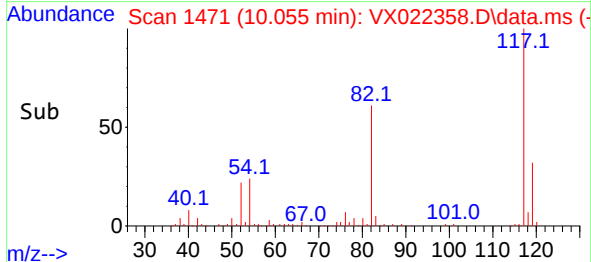
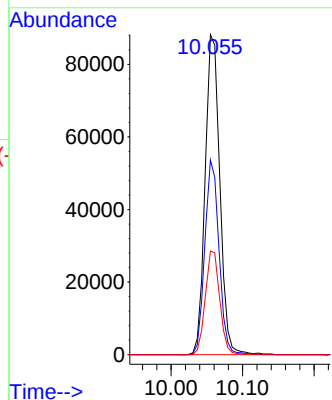
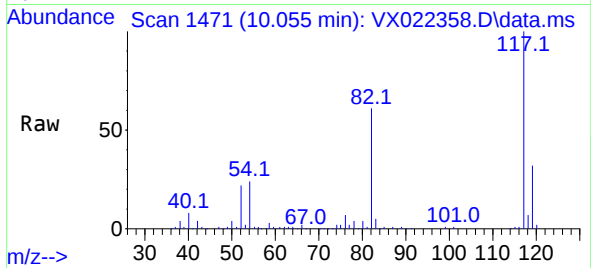




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

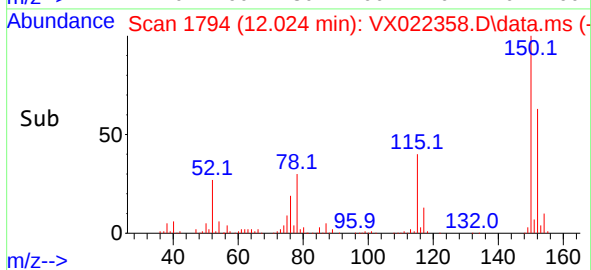
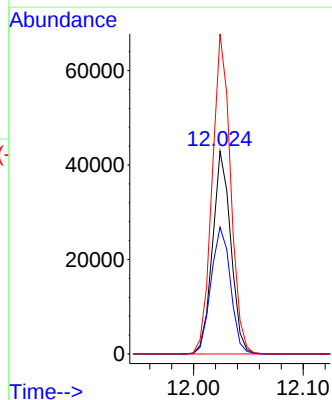
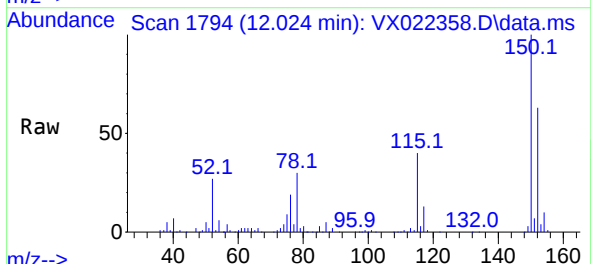
Instrument :  
MSVOA\_X  
ClientSampled :  
S1-D-TOP

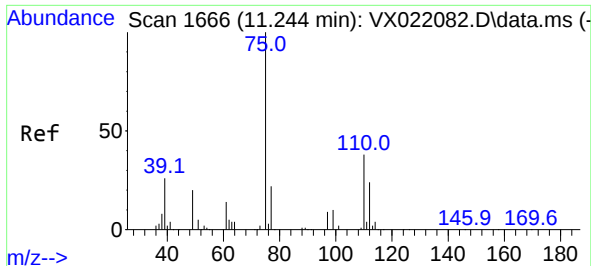
Tgt Ion:117 Resp: 126226  
Ion Ratio Lower Upper  
117 100  
82 60.8 47.4 71.2  
119 32.4 26.6 39.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

Tgt Ion:152 Resp: 49776  
Ion Ratio Lower Upper  
152 100  
115 66.7 41.1 123.3  
150 158.8 0.0 349.0

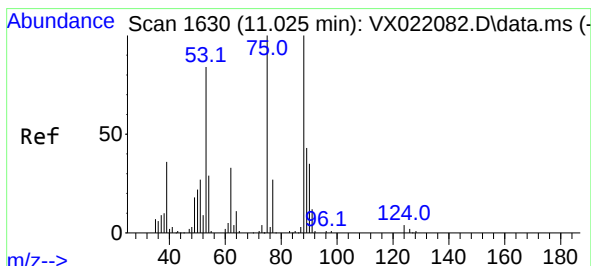
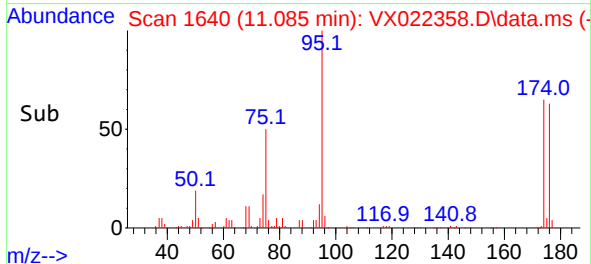
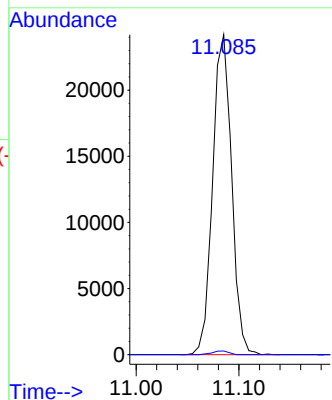
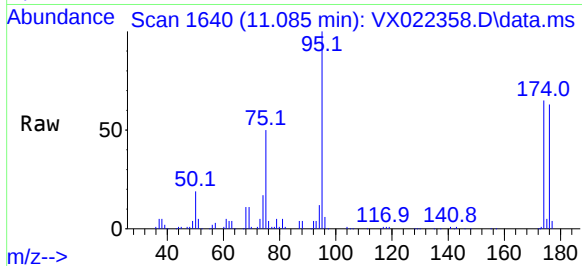




#76  
1,2,3-Trichloropropane  
Concen: 25.14 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

Instrument :  
MSVOA\_X  
ClientSampleId :  
S1-D-TOP

Tgt Ion: 75 Resp: 30872  
Ion Ratio Lower Upper  
75 100  
77 1.0 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 59.57 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.060 min  
Lab File: VX022358.D  
Acq: 03 Jun 2021 12:02

Tgt Ion: 75 Resp: 30872  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

