

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032121\  
 Data File : VX021338.D  
 Acq On : 20 Mar 2021 09:46  
 Operator : JC/MD  
 Sample : M1735-20  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Mar 22 00:53:31 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031621W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 16 14:00:21 2021  
 Response via : Initial Calibration

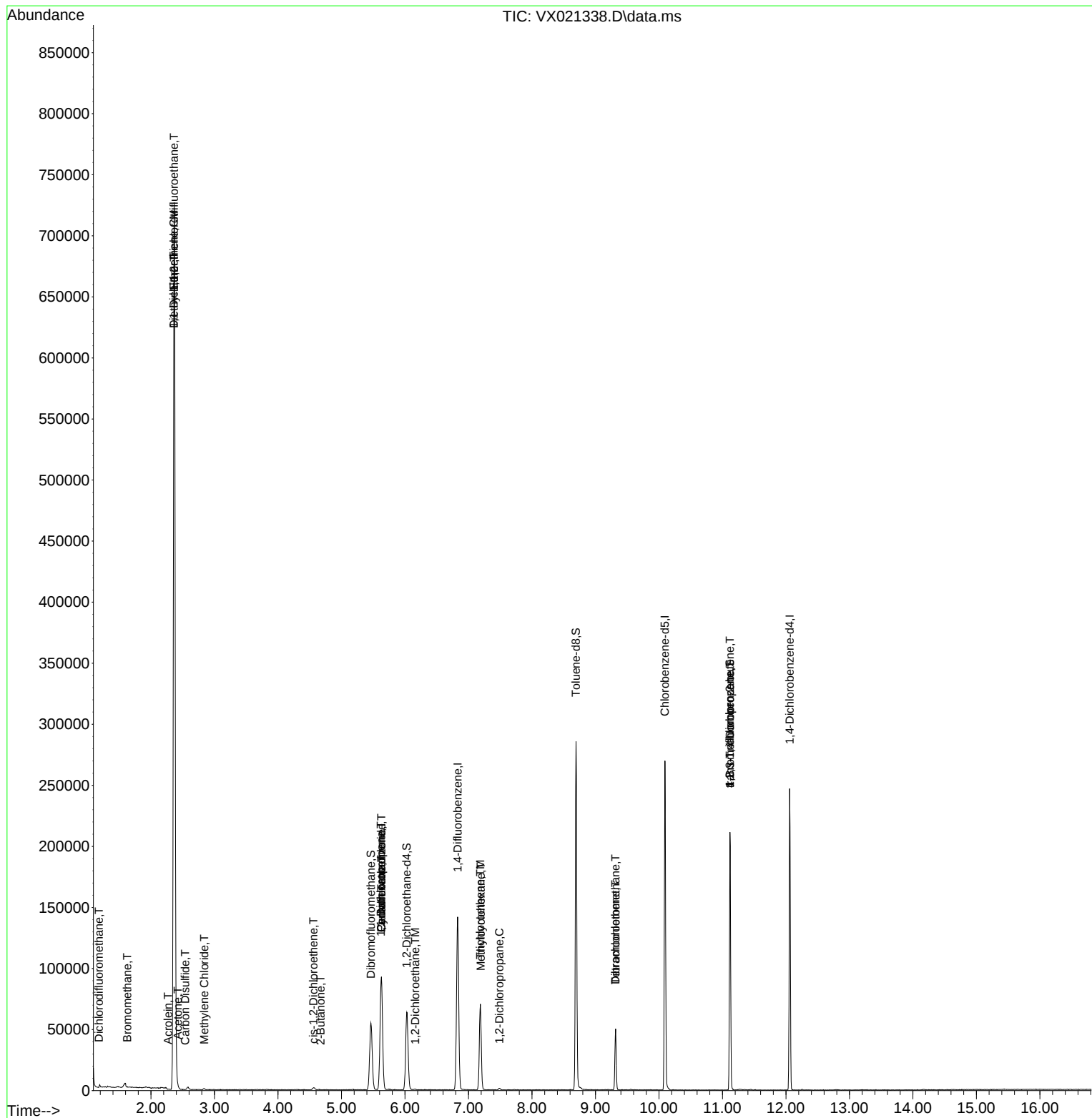
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.629  | 168   | 79091    | 50.00    | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.829  | 114   | 131870   | 50.00    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.094 | 117   | 113350   | 50.00    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.059 | 152   | 44879    | 50.00    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 6.029  | 65    | 63585    | 49.02    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 98.04%   |
| 35) Dibromofluoromethane      | 5.464  | 113   | 45173    | 50.34    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 100.68%  |
| 50) Toluene-d8                | 8.694  | 98    | 159003   | 48.84    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 97.68%   |
| 62) 4-Bromofluorobenzene      | 11.118 | 95    | 55028    | 43.52    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 87.04%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.181  | 85    | 232      | 0.25     | ug/l   | 90       |
| 3) Chloromethane              | 1.316  | 50    | 1697     | Below    | Cal    | 98       |
| 5) Bromomethane               | 1.628  | 94    | 120      | 0.29     | ug/l # | 76       |
| 8) Diethyl Ether              | 2.358  | 74    | 257      | 0.50     | ug/l # | 5        |
| 9) 1,1,2-Trichlorotrifluo...  | 2.364  | 101   | 286456   | 346.56   | ug/l   | 95       |
| 12) 1,1-Dichloroethene        | 2.358  | 96    | 2313     | 2.87     | ug/l   | 91       |
| 13) Acrolein                  | 2.269  | 56    | 22       | 3.29     | ug/l # | 14       |
| 16) Acetone                   | 2.422  | 43    | 1896     | 3.97     | ug/l   | 92       |
| 17) Carbon Disulfide          | 2.540  | 76    | 41       | 0.55     | ug/l # | 75       |
| 20) Methylene Chloride        | 2.840  | 84    | 314      | 0.32     | ug/l # | 59       |
| 25) 2-Butanone                | 4.670  | 43    | 215      | 0.29     | ug/l # | 45       |
| 27) cis-1,2-Dichloroethene    | 4.558  | 96    | 1053     | 1.02     | ug/l   | 98       |
| 31) Cyclohexane               | 5.629  | 56    | 2320     | 1.48     | ug/l # | 23       |
| 36) 1,1-Dichloropropene       | 5.623  | 75    | 7501     | 5.65     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 5.629  | 117   | 8635     | 6.26     | ug/l # | 17       |
| 39) Methylcyclohexane         | 7.194  | 83    | 321      | 0.22     | ug/l # | 1        |
| 42) 1,2-Dichloroethane        | 6.164  | 62    | 480      | 0.30     | ug/l # | 73       |
| 44) Trichloroethene           | 7.188  | 130   | 23987    | 24.66    | ug/l   | 92       |
| 45) 1,2-Dichloropropane       | 7.488  | 63    | 510      | 0.52     | ug/l   | 99       |
| 49) 1,4-Dioxane               | 7.723  | 88    | 119      | Below    | Cal #  | 17       |
| 60) Dibromochloromethane      | 9.317  | 129   | 8456     | 8.01     | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.317  | 164   | 8452     | 9.98     | ug/l   | 93       |
| 76) 1,2,3-Trichloropropane    | 11.118 | 75    | 31271    | 30.04    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.118 | 75    | 31271    | 81.55    | ug/l # | 12       |
| -----                         |        |       |          |          |        |          |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032121\  
Data File : VX021338.D  
Acq On : 20 Mar 2021 09:46  
Operator : JC/MD  
Sample : M1735-20  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 44 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

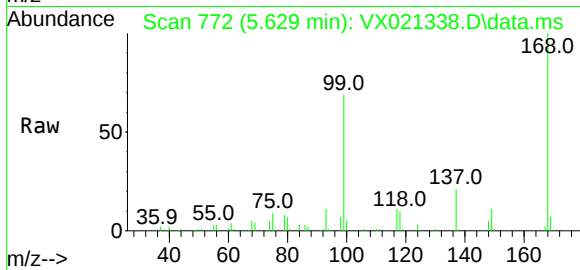
Quant Time: Mar 22 00:53:31 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031621W.M  
Quant Title : SW846 8260  
QLast Update : Tue Mar 16 14:00:21 2021  
Response via : Initial Calibration



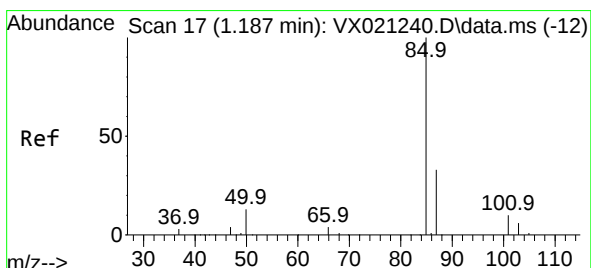
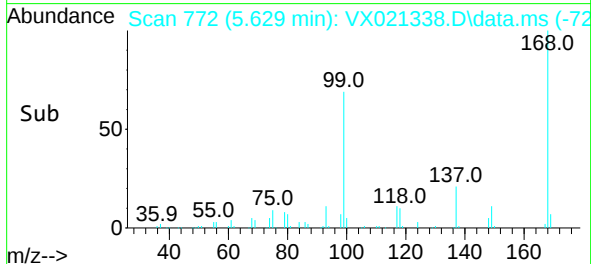
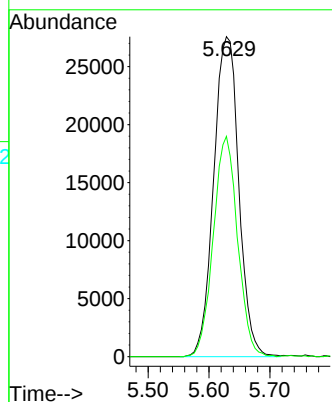


#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.629 min Scan# 772  
Delta R.T. -0.006 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

Instrument :  
MSVOA\_X  
ClientSampled :

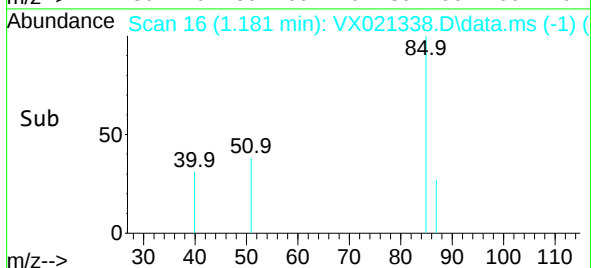
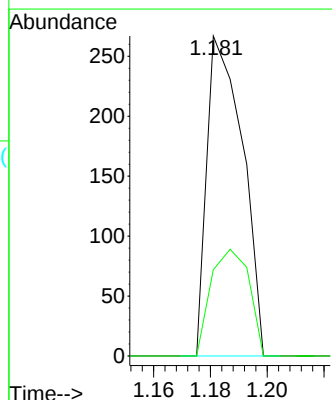
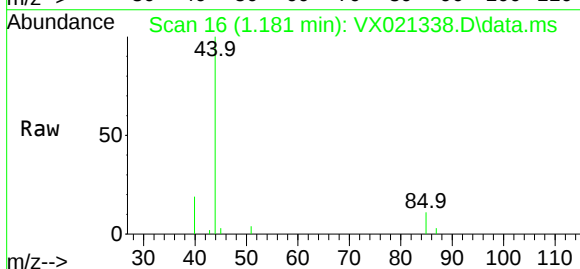


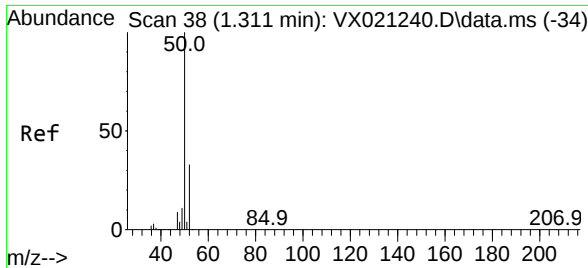
Tgt Ion:168 Resp: 79091  
Ion Ratio Lower Upper  
168 100  
99 68.9 45.8 68.6#



#2  
Dichlorodifluoromethane  
Concen: 0.25 ug/l  
RT: 1.181 min Scan# 16  
Delta R.T. -0.006 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

Tgt Ion: 85 Resp: 232  
Ion Ratio Lower Upper  
85 100  
87 27.0 16.4 49.2

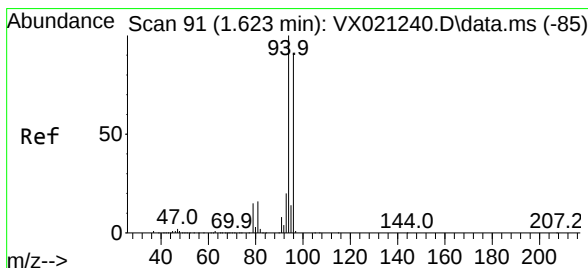
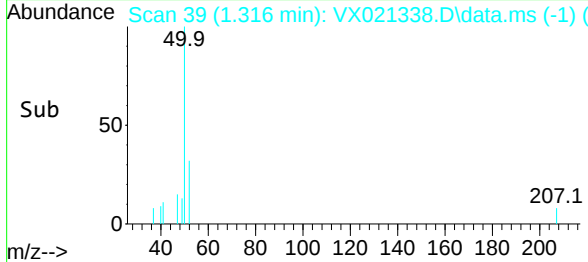
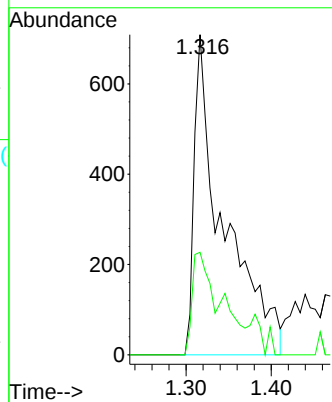
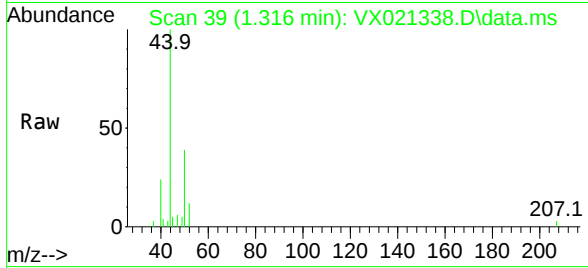




#3  
Chloromethane  
Concen: Below Cal  
RT: 1.316 min Scan# 39  
Delta R.T. 0.005 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

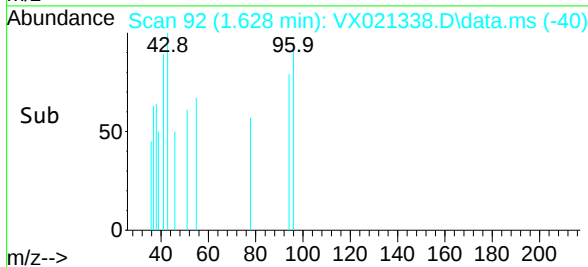
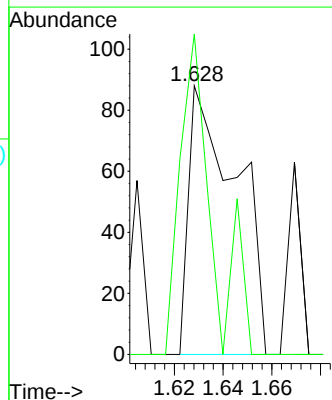
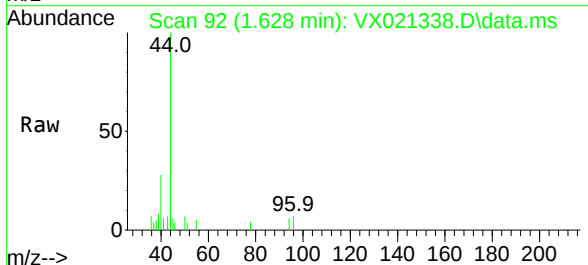
Instrument :  
MSVOA\_X  
ClientSampled :

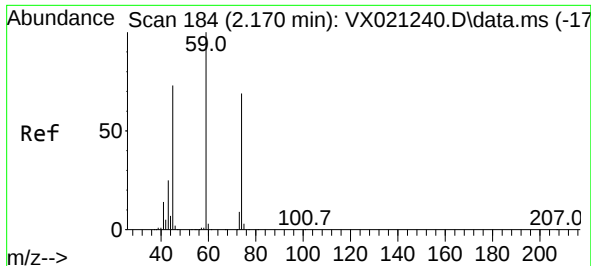
Tgt Ion: 50 Resp: 1697  
Ion Ratio Lower Upper  
50 100  
52 32.0 26.4 39.6



#5  
Bromomethane  
Concen: 0.29 ug/l  
RT: 1.628 min Scan# 92  
Delta R.T. 0.005 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

Tgt Ion: 94 Resp: 120  
Ion Ratio Lower Upper  
94 100  
96 119.3 76.4 114.6#

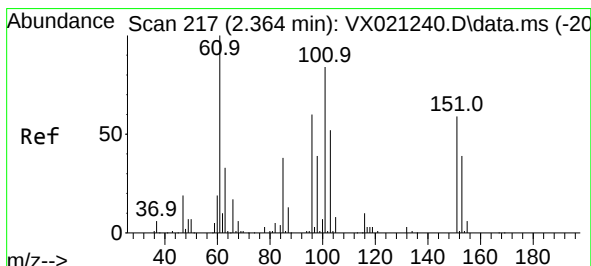
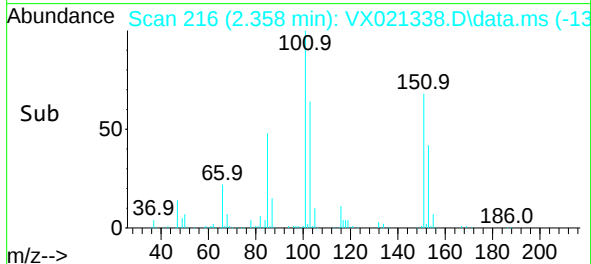
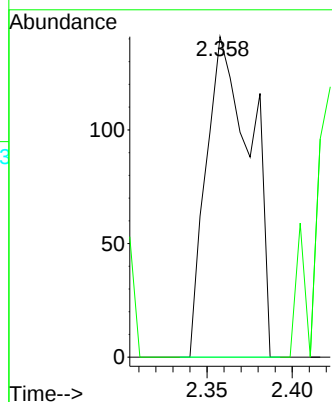
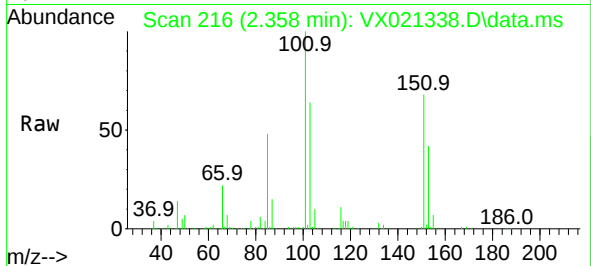




#8  
Diethyl Ether  
Concen: 0.50 ug/l  
RT: 2.358 min Scan# 216  
Delta R.T. 0.188 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

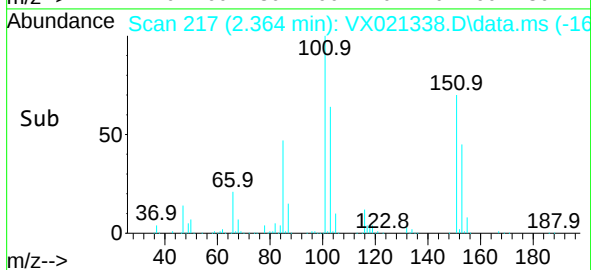
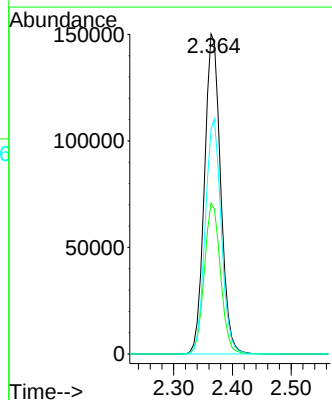
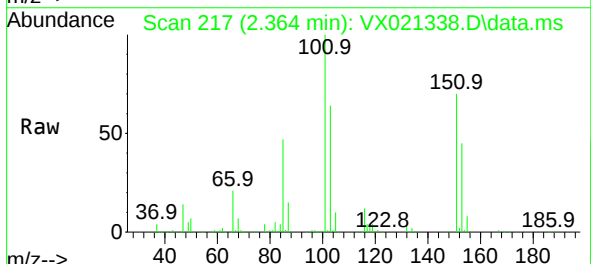
Instrument :  
MSVOA\_X  
ClientSampled :

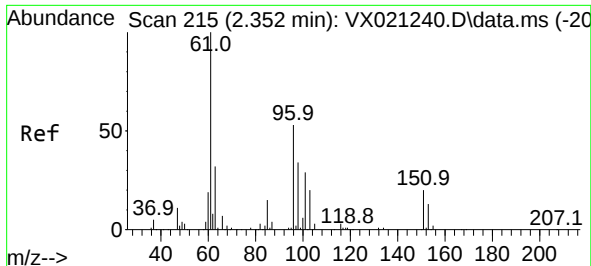
Tgt Ion: 74 Resp: 257  
Ion Ratio Lower Upper  
74 100  
45 0.0 44.5 133.5#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 346.56 ug/l  
RT: 2.364 min Scan# 217  
Delta R.T. -0.000 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

Tgt Ion:101 Resp: 286456  
Ion Ratio Lower Upper  
101 100  
85 47.3 34.9 52.3  
151 72.7 61.4 92.2





#12

1,1-Dichloroethene

Concen: 2.87 ug/l

RT: 2.358 min Scan# 216

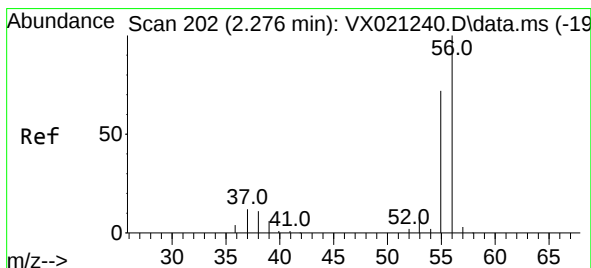
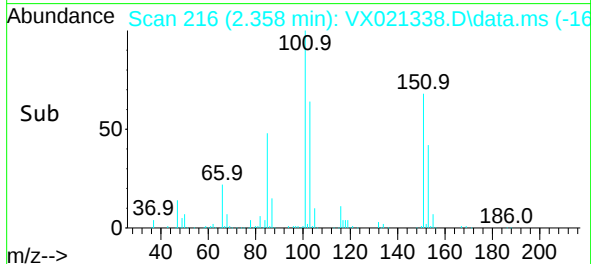
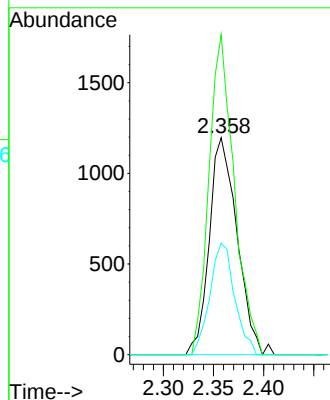
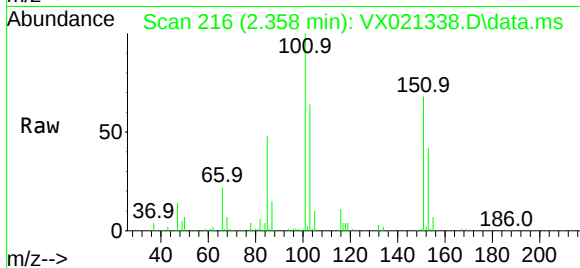
Delta R.T. 0.006 min

Lab File: VX021338.D

Acq: 20 Mar 2021 09:46

Tgt Ion: 96 Resp: 2313

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 147.5 | 124.6 | 187.0 |
| 98  | 51.5  | 50.6  | 76.0  |



#13

Acrolein

Concen: 3.29 ug/l

RT: 2.269 min Scan# 201

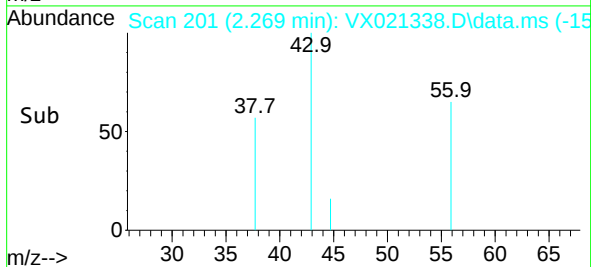
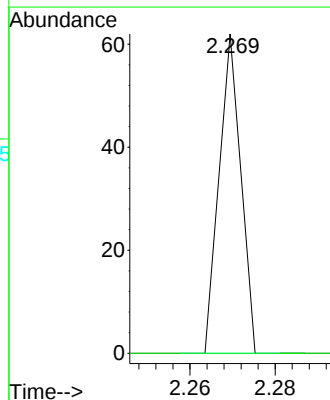
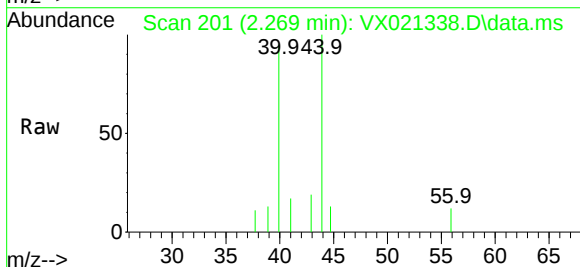
Delta R.T. -0.007 min

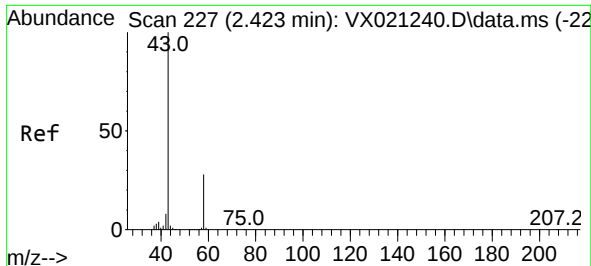
Lab File: VX021338.D

Acq: 20 Mar 2021 09:46

Tgt Ion: 56 Resp: 22

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 55  | 0.0   | 56.4  | 84.6# |

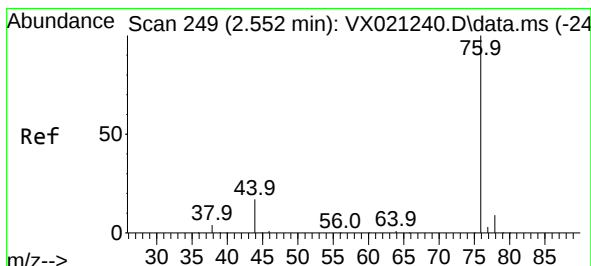
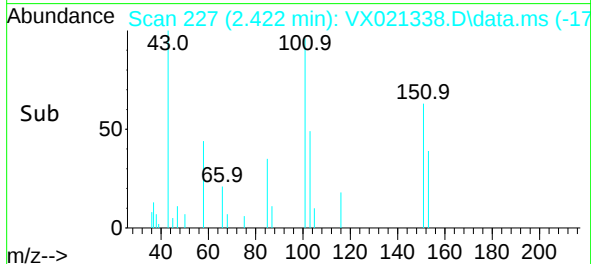
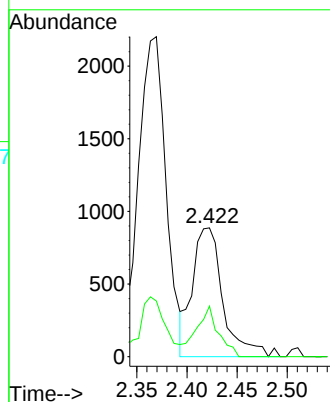
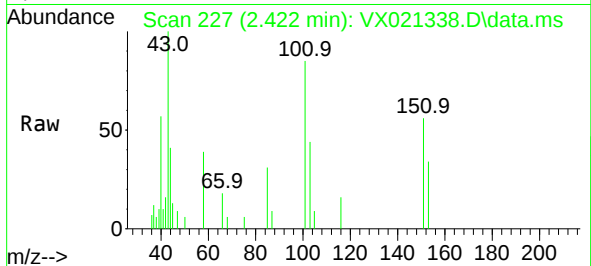




#16  
Acetone  
Concen: 3.97 ug/l  
RT: 2.422 min Scan# 227  
Delta R.T. -0.001 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

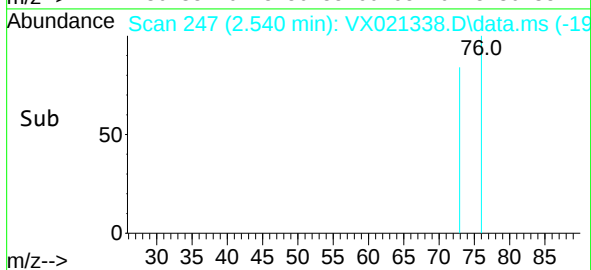
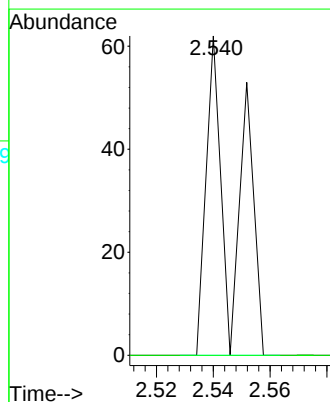
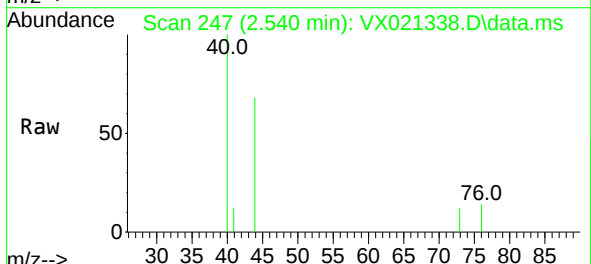
Instrument :  
MSVOA\_X  
ClientSampled :

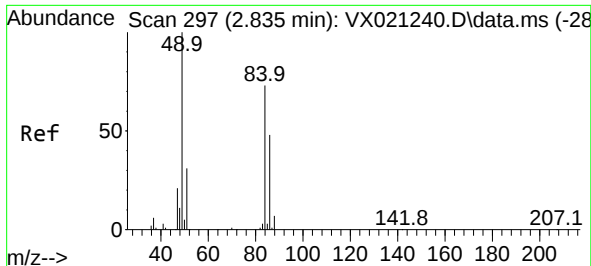
Tgt Ion: 43 Resp: 1896  
Ion Ratio Lower Upper  
43 100  
58 39.2 27.8 41.8



#17  
Carbon Disulfide  
Concen: 0.55 ug/l  
RT: 2.540 min Scan# 247  
Delta R.T. -0.012 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

Tgt Ion: 76 Resp: 41  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#





#20

Methylene Chloride

Concen: 0.32 ug/l

RT: 2.840 min Scan# 298

Delta R.T. 0.005 min

Lab File: VX021338.D

Acq: 20 Mar 2021 09:46

Tgt Ion: 84 Resp: 314

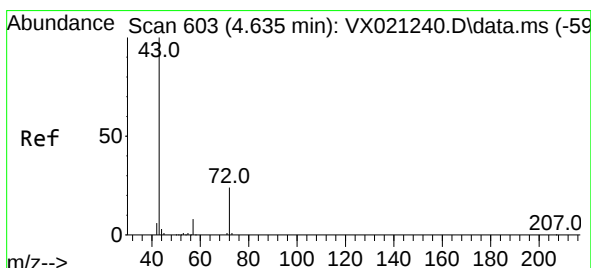
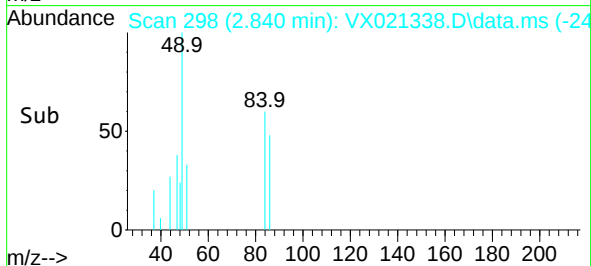
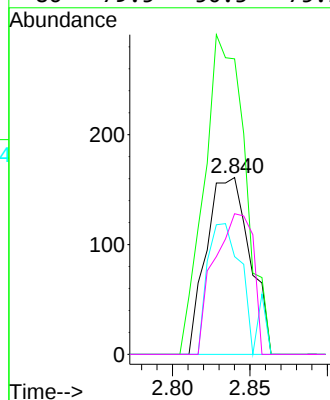
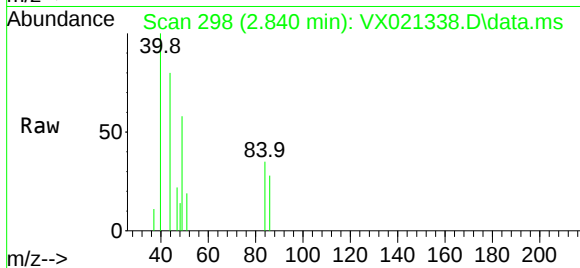
Ion Ratio Lower Upper

84 100

49 167.1 88.6 132.8#

51 55.3 27.0 40.6#

86 79.5 50.3 75.5#



#25

2-Butanone

Concen: 0.29 ug/l

RT: 4.670 min Scan# 609

Delta R.T. 0.035 min

Lab File: VX021338.D

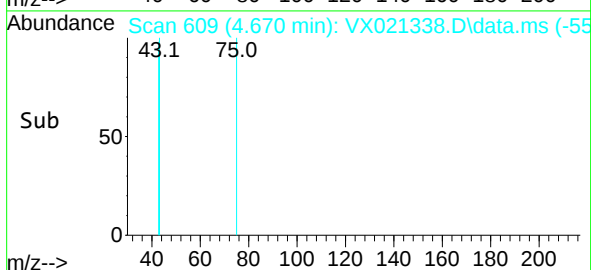
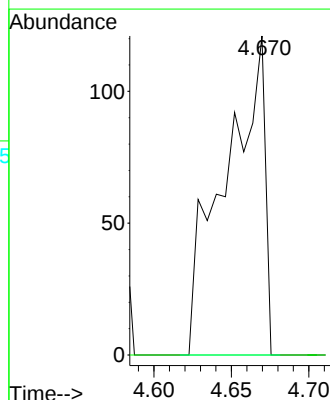
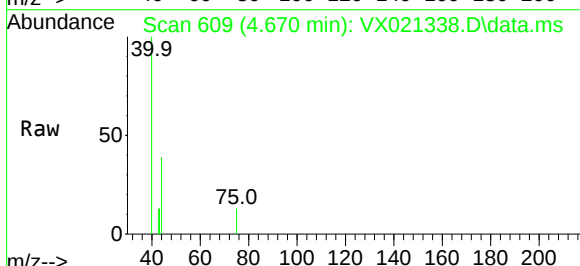
Acq: 20 Mar 2021 09:46

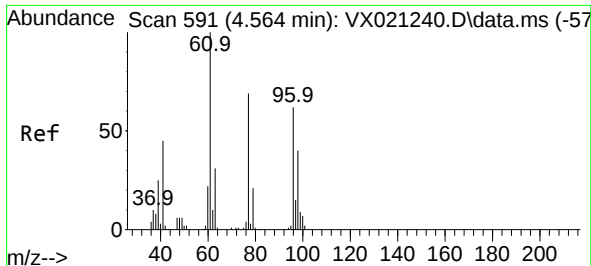
Tgt Ion: 43 Resp: 215

Ion Ratio Lower Upper

43 100

72 0.0 23.7 35.5#





#27

cis-1,2-Dichloroethene

Concen: 1.02 ug/l

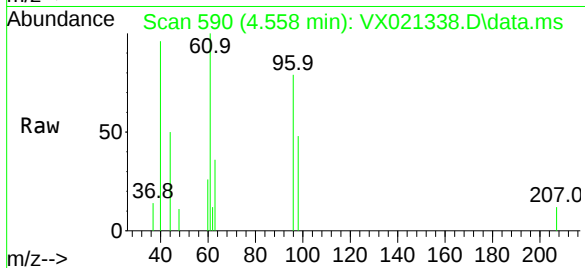
RT: 4.558 min Scan# 590

Delta R.T. -0.006 min

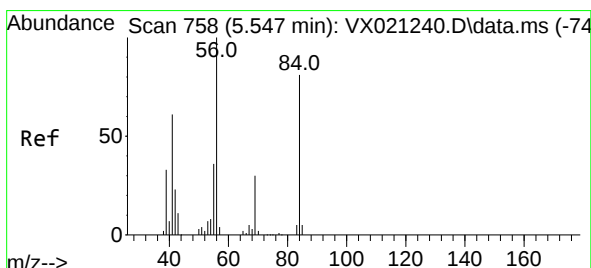
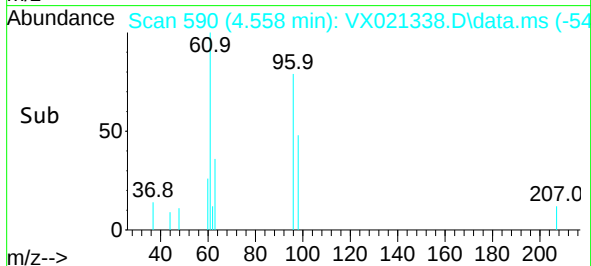
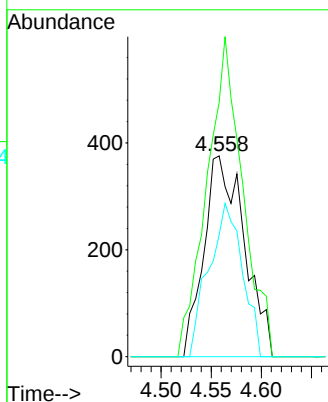
Lab File: VX021338.D

Acq: 20 Mar 2021 09:46

Instrument :  
MSVOA\_X  
ClientSampleId :



|             |            |       |       |
|-------------|------------|-------|-------|
| Tgt Ion: 96 | Resp: 1053 |       |       |
| Ion Ratio   | Lower      | Upper |       |
| 96          | 100        |       |       |
| 61          | 140.8      | 0.0   | 285.6 |
| 98          | 63.4       | 0.0   | 129.6 |



#31

Cyclohexane

Concen: 1.48 ug/l

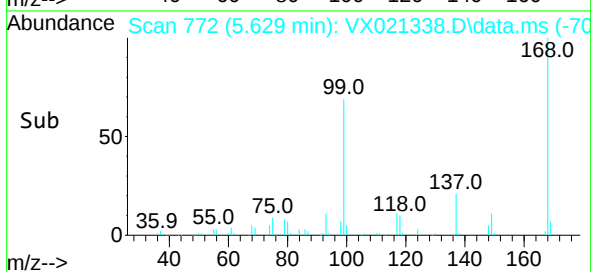
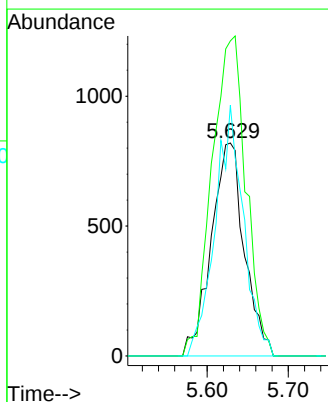
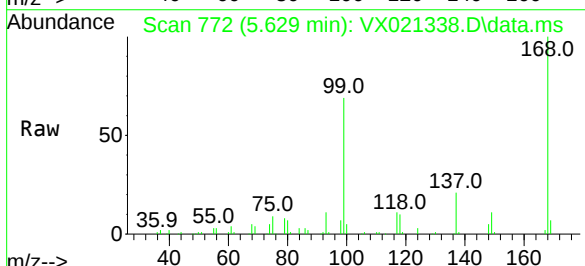
RT: 5.629 min Scan# 772

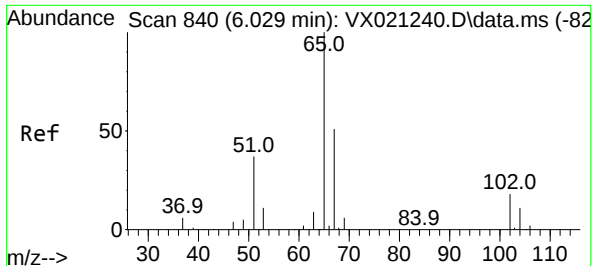
Delta R.T. 0.082 min

Lab File: VX021338.D

Acq: 20 Mar 2021 09:46

|             |            |       |        |
|-------------|------------|-------|--------|
| Tgt Ion: 56 | Resp: 2320 |       |        |
| Ion Ratio   | Lower      | Upper |        |
| 56          | 100        |       |        |
| 69          | 147.9      | 25.3  | 37.9#  |
| 84          | 117.7      | 71.4  | 107.0# |





#33

1,2-Dichloroethane-d4

Concen: 49.02 ug/l

RT: 6.029 min Scan# 840

Delta R.T. -0.000 min

Lab File: VX021338.D

Acq: 20 Mar 2021 09:46

Tgt Ion: 65 Resp: 63585

Ion Ratio Lower Upper

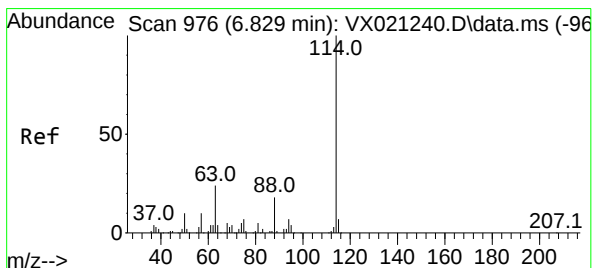
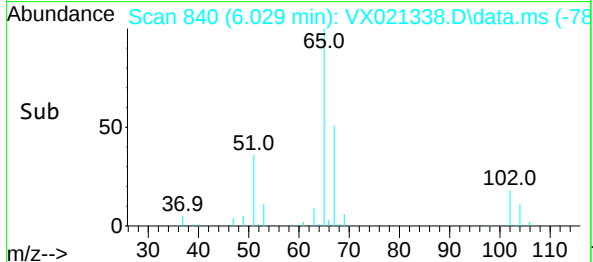
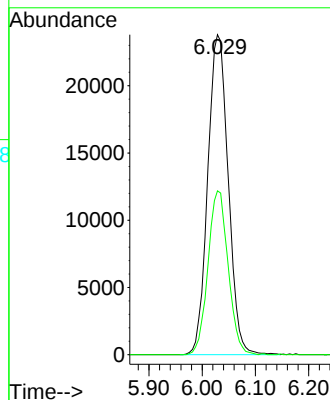
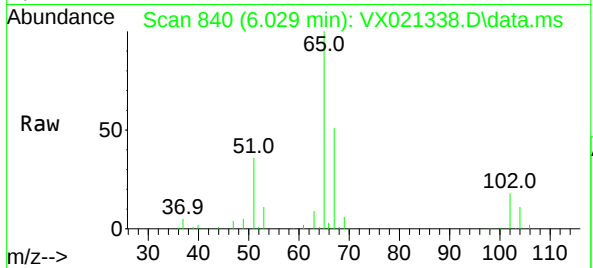
65 100

67 50.3 0.0 105.4

Instrument :

MSVOA\_X

ClientSampled :



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.829 min Scan# 976

Delta R.T. -0.000 min

Lab File: VX021338.D

Acq: 20 Mar 2021 09:46

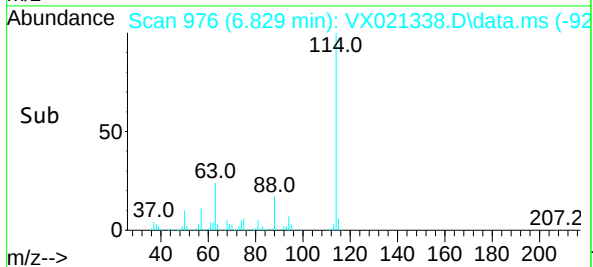
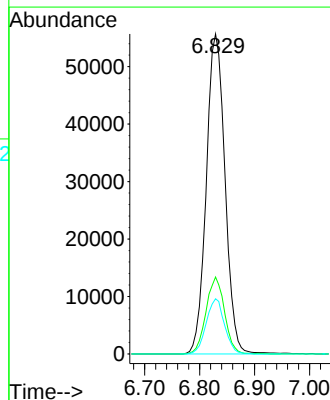
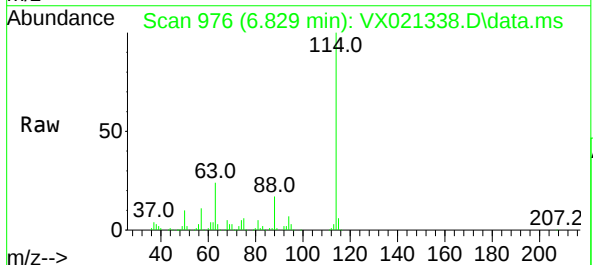
Tgt Ion: 114 Resp: 131870

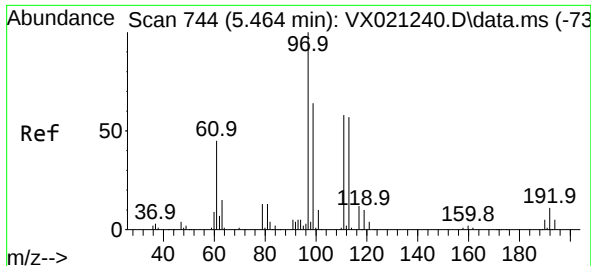
Ion Ratio Lower Upper

114 100

63 24.0 0.0 40.8

88 17.2 0.0 32.8

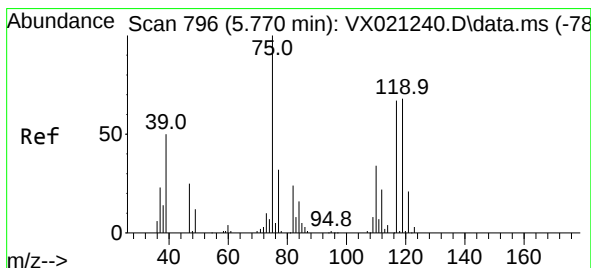
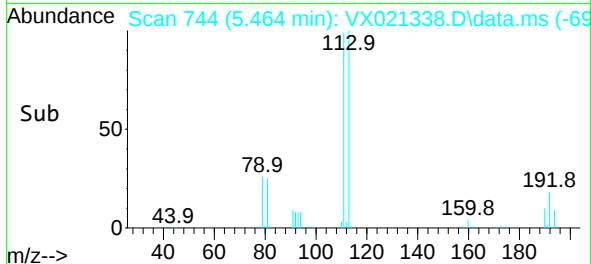
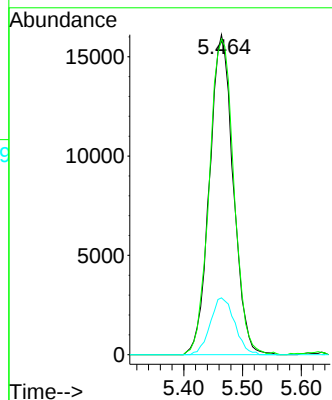
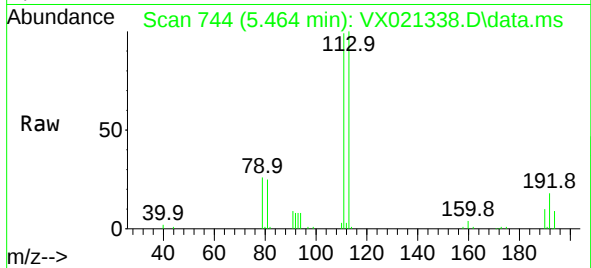




#35  
Dibromofluoromethane  
Concen: 50.34 ug/l  
RT: 5.464 min Scan# 744  
Delta R.T. -0.000 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

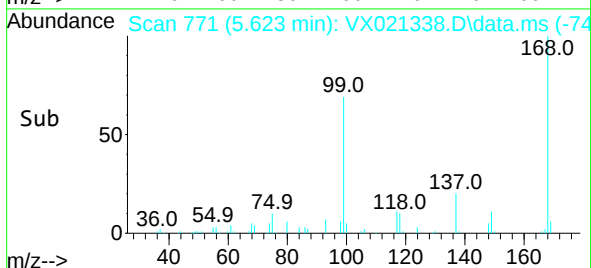
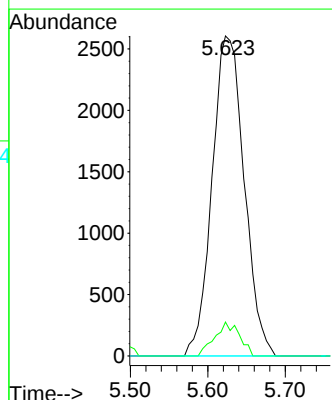
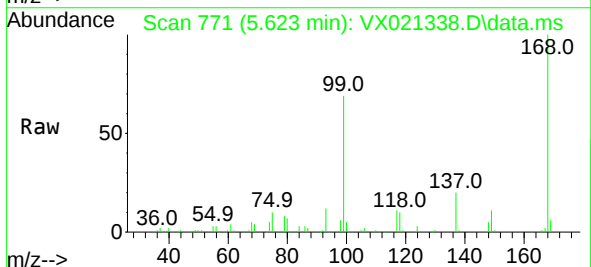
Instrument :  
MSVOA\_X  
ClientSampleId :

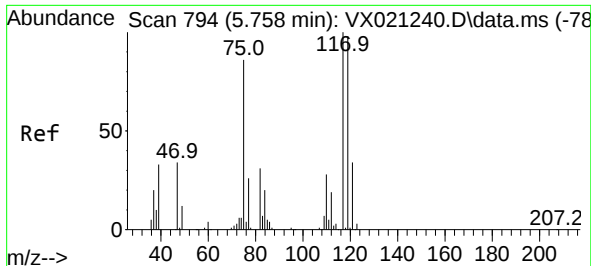
Tgt Ion:113 Resp: 45173  
Ion Ratio Lower Upper  
113 100  
111 102.3 81.9 122.9  
192 18.2 16.7 25.1



#36  
1,1-Dichloropropene  
Concen: 5.65 ug/l  
RT: 5.623 min Scan# 771  
Delta R.T. -0.147 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

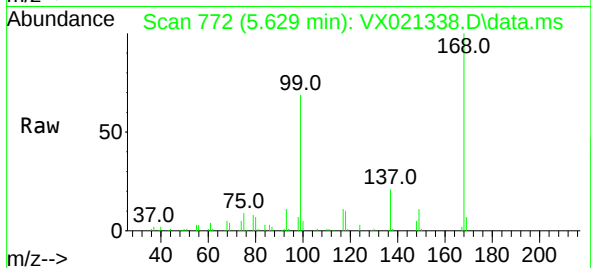
Tgt Ion: 75 Resp: 7501  
Ion Ratio Lower Upper  
75 100  
110 8.1 18.1 54.4#  
77 0.0 25.3 37.9#



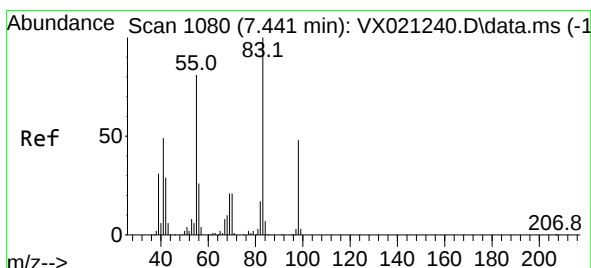
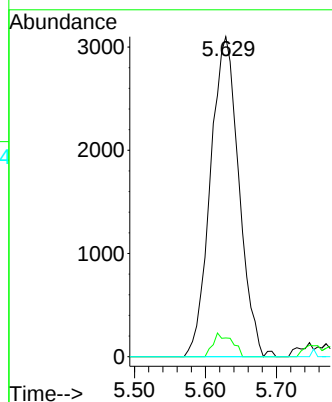
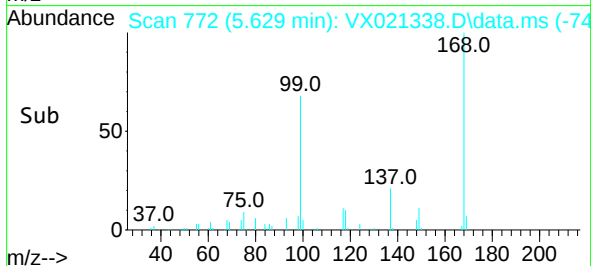


#38  
Carbon Tetrachloride  
Concen: 6.26 ug/l  
RT: 5.629 min Scan# 772  
Delta R.T. -0.129 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

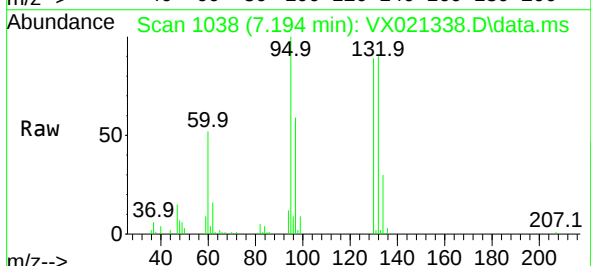
Instrument :  
MSVOA\_X  
ClientSampleId :



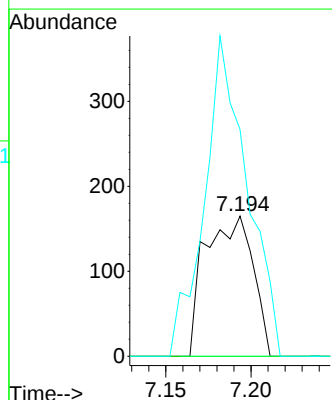
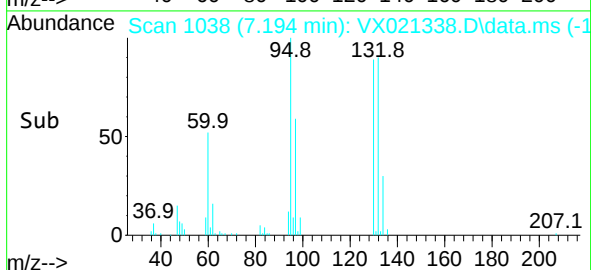
Tgt Ion:117 Resp: 8635  
Ion Ratio Lower Upper  
117 100  
119 5.9 76.2 114.2#  
121 0.0 24.8 37.2#

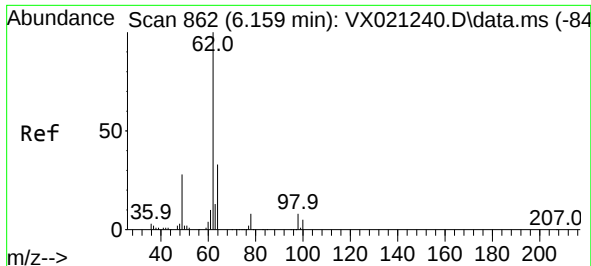


#39  
Methylcyclohexane  
Concen: 0.22 ug/l  
RT: 7.194 min Scan# 1038  
Delta R.T. -0.247 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46



Tgt Ion: 83 Resp: 321  
Ion Ratio Lower Upper  
83 100  
55 0.0 58.9 88.3#  
98 161.8 38.1 57.1#





#42

1,2-Dichloroethane

Concen: 0.30 ug/l

RT: 6.164 min Scan# 863

Delta R.T. 0.005 min

Lab File: VX021338.D

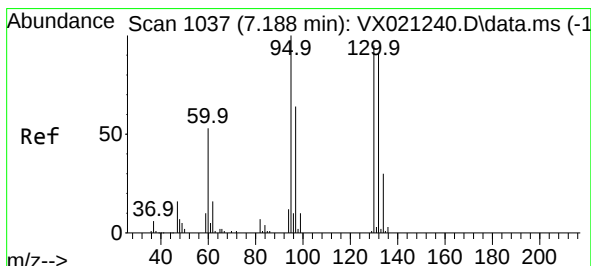
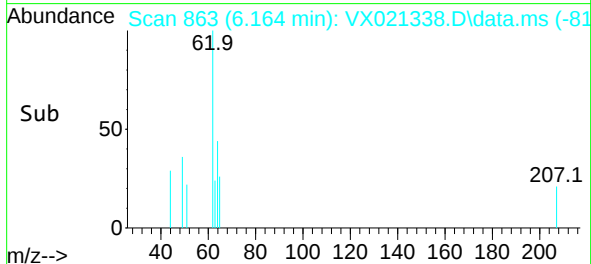
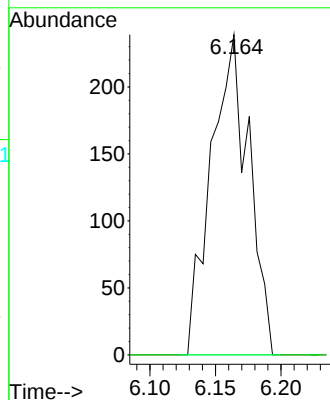
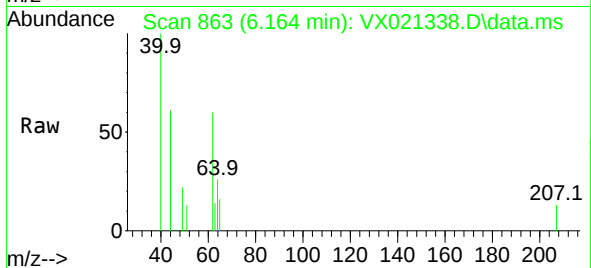
Acq: 20 Mar 2021 09:46

Tgt Ion: 62 Resp: 480

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.2



#44

Trichloroethene

Concen: 24.66 ug/l

RT: 7.188 min Scan# 1037

Delta R.T. -0.000 min

Lab File: VX021338.D

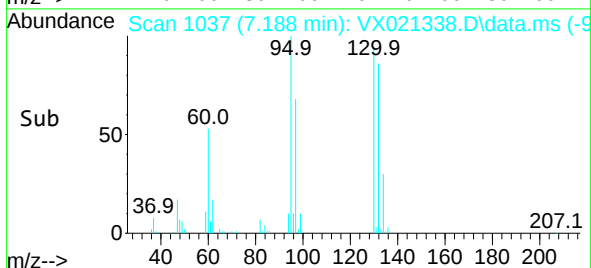
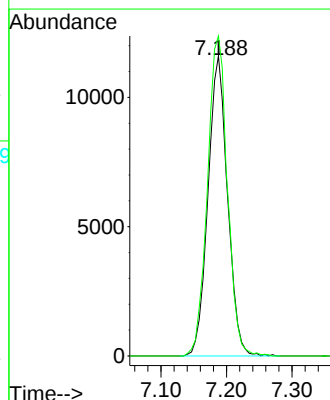
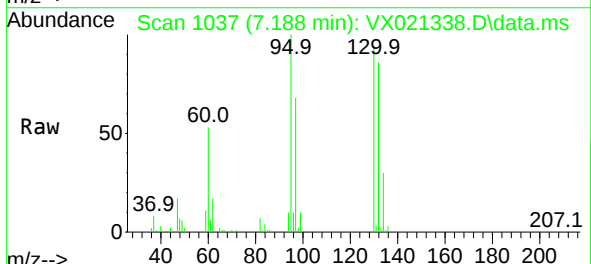
Acq: 20 Mar 2021 09:46

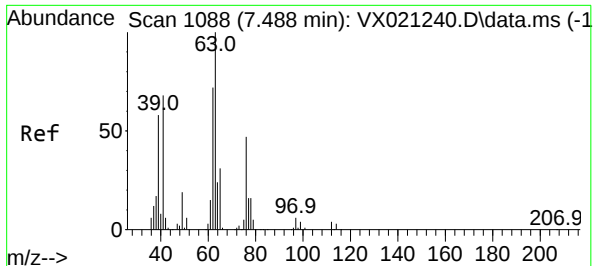
Tgt Ion:130 Resp: 23987

Ion Ratio Lower Upper

130 100

95 106.6 0.0 198.0

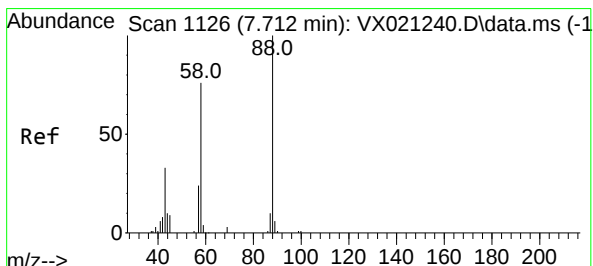
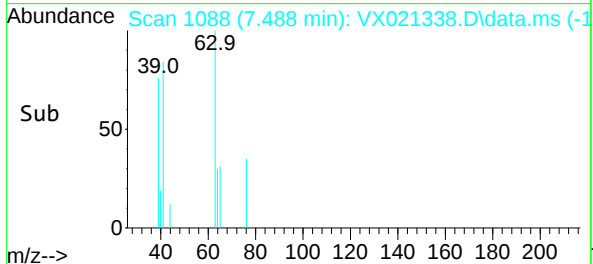
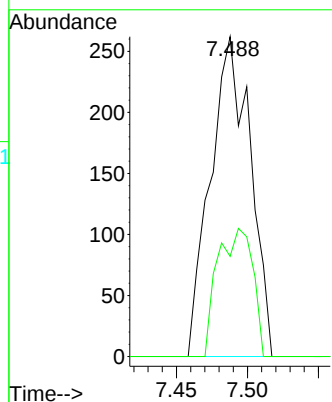
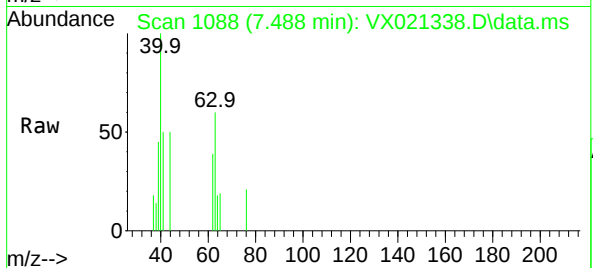




#45  
1,2-Dichloropropane  
Concen: 0.52 ug/l  
RT: 7.488 min Scan# 1088  
Delta R.T. -0.000 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

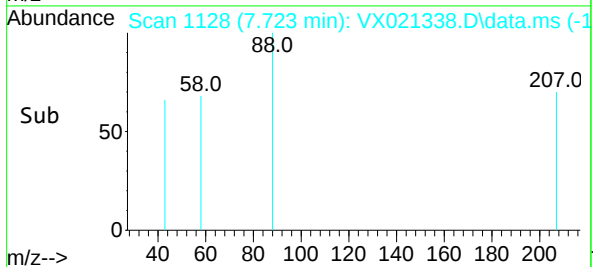
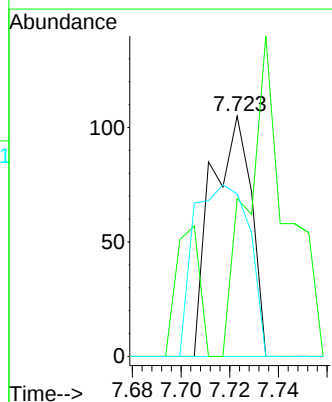
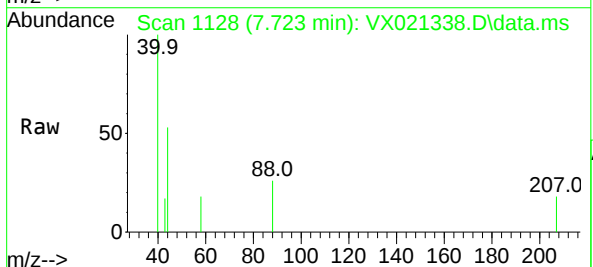
Instrument :  
MSVOA\_X  
ClientSampled :

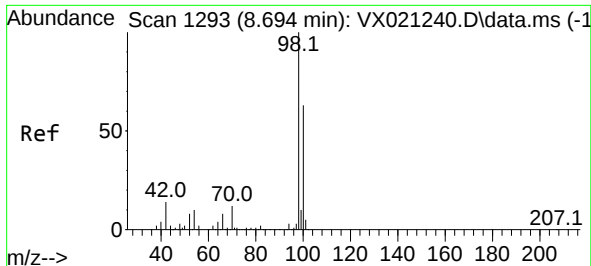
Tgt Ion: 63 Resp: 510  
Ion Ratio Lower Upper  
63 100  
65 31.3 25.7 38.5



#49  
1,4-Dioxane  
Concen: Below Cal  
RT: 7.723 min Scan# 1128  
Delta R.T. 0.011 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

Tgt Ion: 88 Resp: 119  
Ion Ratio Lower Upper  
88 100  
43 131.1 23.2 34.8#  
58 99.2 55.0 82.4#

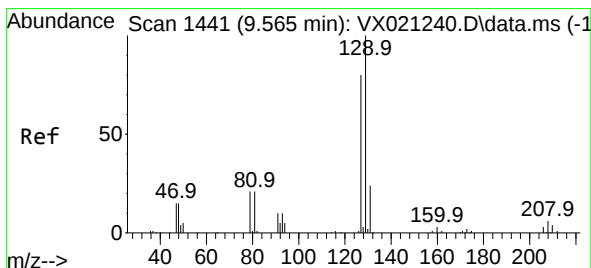
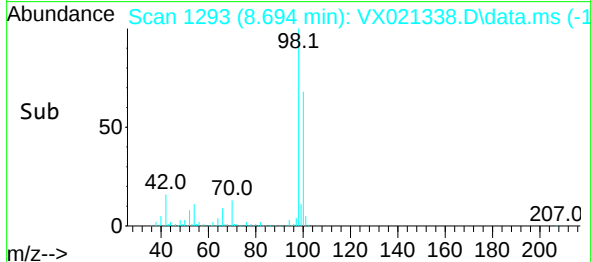
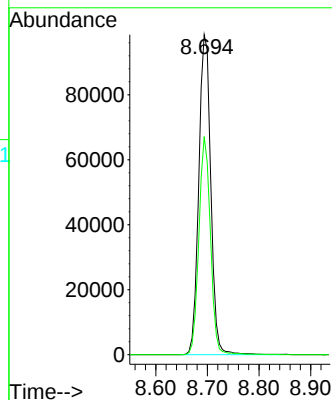
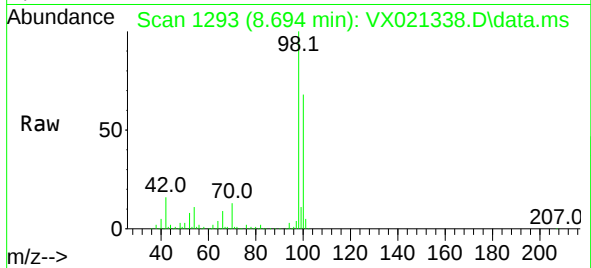




#50  
Toluene-d8  
Concen: 48.84 ug/l  
RT: 8.694 min Scan# 1293  
Delta R.T. -0.000 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

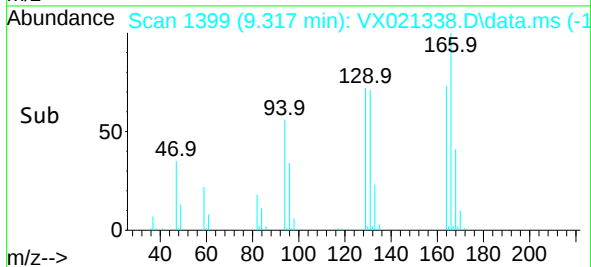
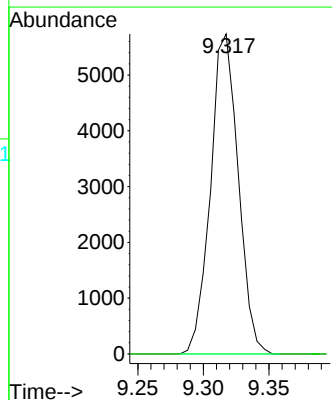
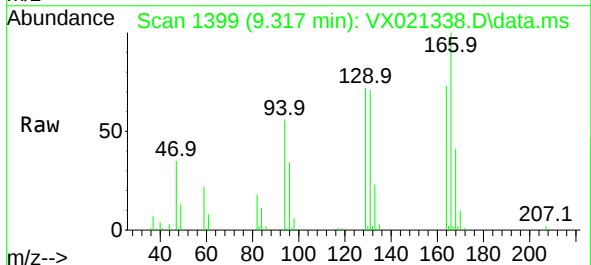
Instrument :  
MSVOA\_X  
ClientSampled :

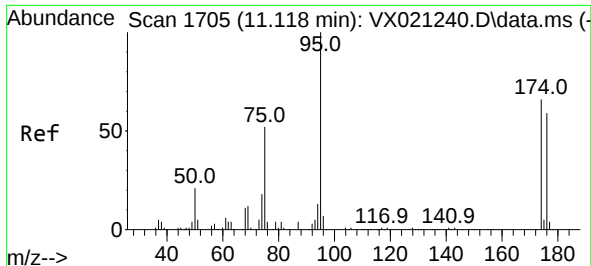
Tgt Ion: 98 Resp: 159003  
Ion Ratio Lower Upper  
98 100  
100 65.6 51.9 77.9



#60  
Dibromochloromethane  
Concen: 8.01 ug/l  
RT: 9.317 min Scan# 1399  
Delta R.T. -0.248 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

Tgt Ion: 129 Resp: 8456  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#

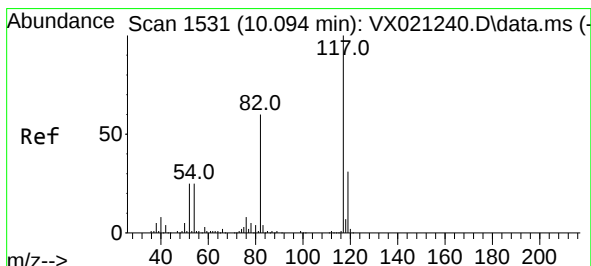
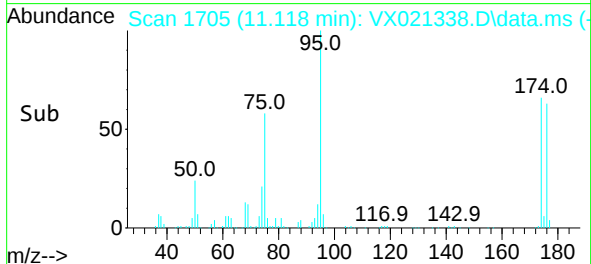
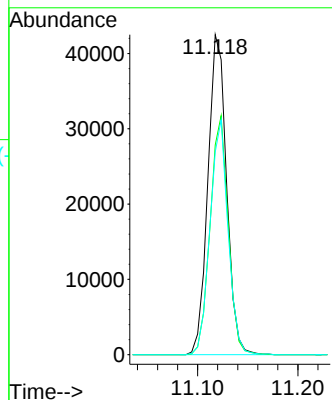
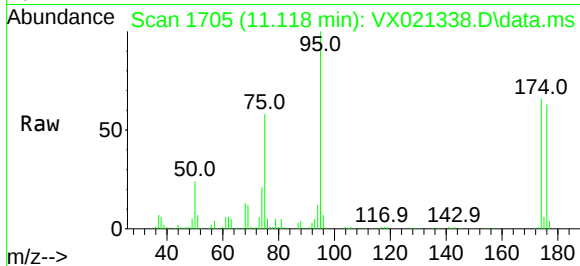




#62  
4-Bromofluorobenzene  
Concen: 43.52 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. -0.000 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

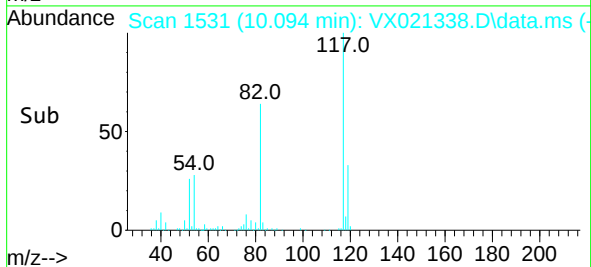
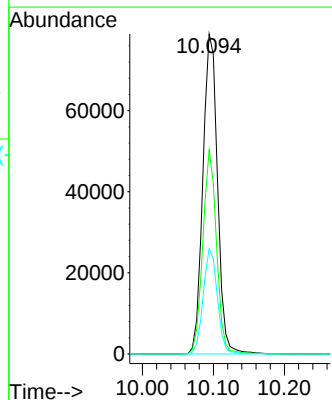
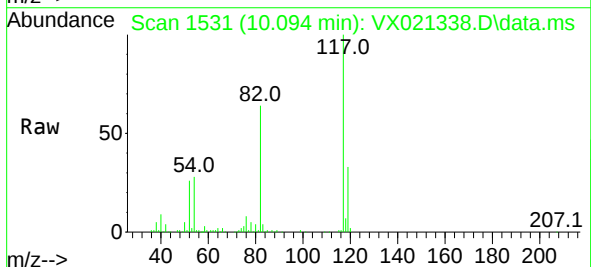
Instrument :  
MSVOA\_X  
ClientSampled :

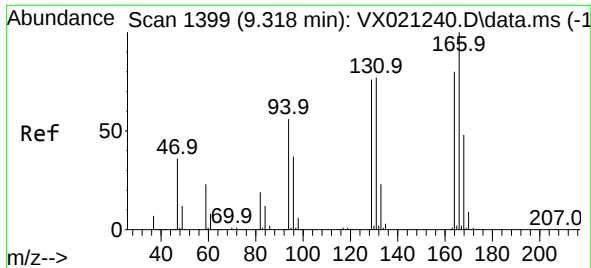
Tgt Ion: 95 Resp: 55028  
Ion Ratio Lower Upper  
95 100  
174 72.3 0.0 154.6  
176 70.7 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.094 min Scan# 1531  
Delta R.T. -0.000 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

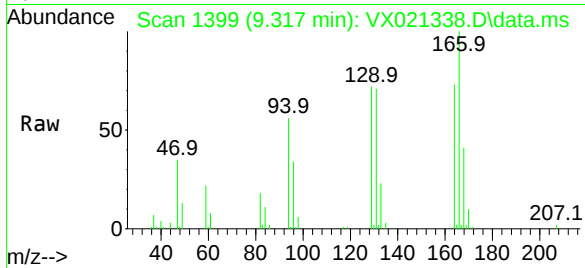
Tgt Ion: 117 Resp: 113350  
Ion Ratio Lower Upper  
117 100  
82 63.8 47.4 71.2  
119 32.9 26.6 39.8



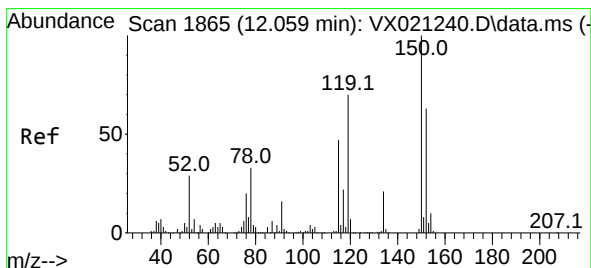
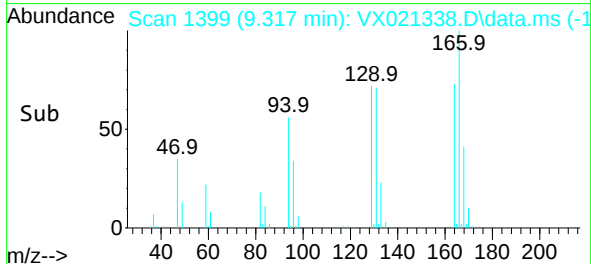
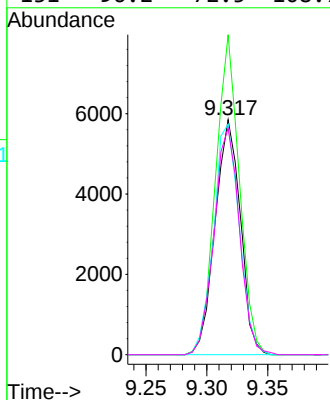


#64  
Tetrachloroethene  
Concen: 9.98 ug/l  
RT: 9.317 min Scan# 1399  
Delta R.T. -0.001 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

Instrument :  
MSVOA\_X  
ClientSampled :

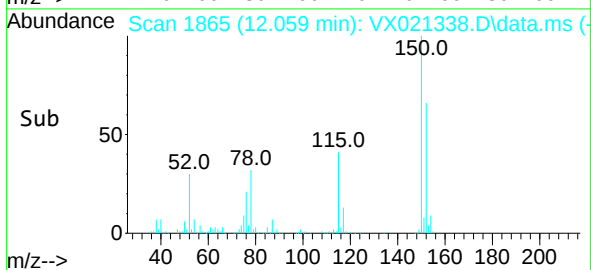
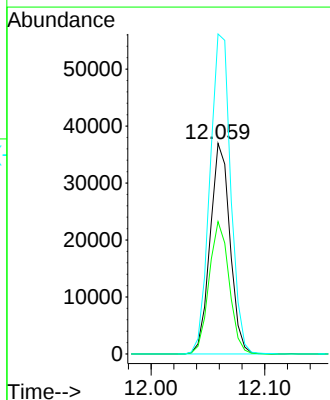
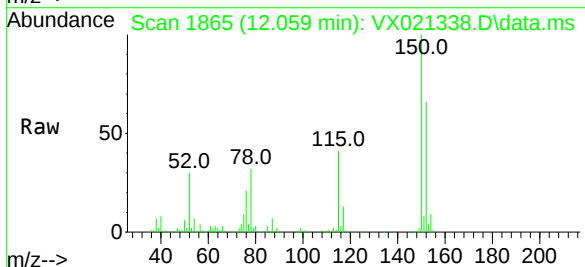


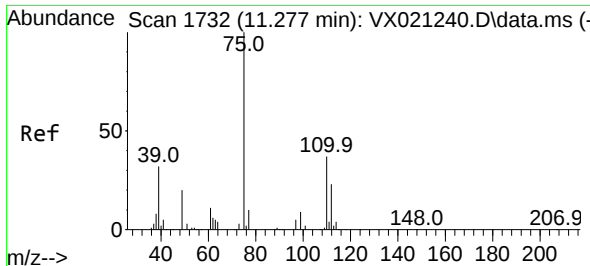
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 8452  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 166      | 136.1 | 103.4 | 155.2 |
| 129      | 98.0  | 70.8  | 106.2 |
| 131      | 96.2  | 72.5  | 108.7 |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.059 min Scan# 1865  
Delta R.T. -0.000 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 44879 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 63.4  | 41.1  | 123.3 |
| 150      | 159.1 | 0.0   | 349.0 |

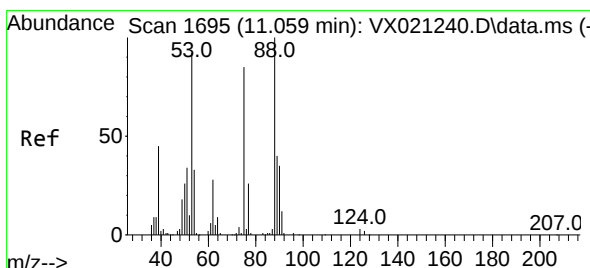
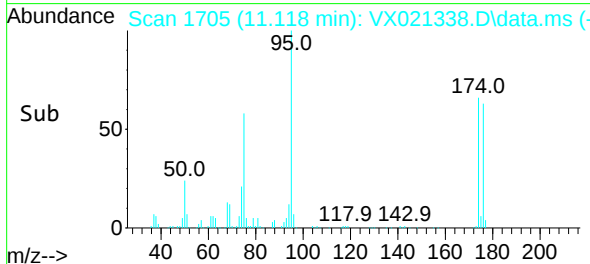
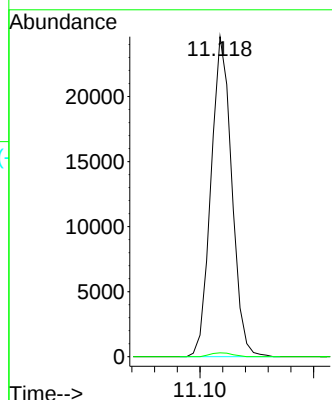
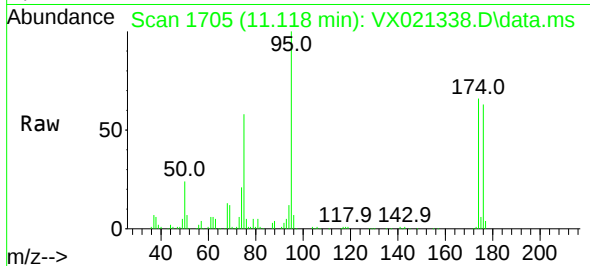




#76  
1,2,3-Trichloropropane  
Concen: 30.04 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. -0.159 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion: 75 Resp: 31271  
Ion Ratio Lower Upper  
75 100  
77 1.3 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 81.55 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. 0.059 min  
Lab File: VX021338.D  
Acq: 20 Mar 2021 09:46

Tgt Ion: 75 Resp: 31271  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

